RGW/RAW
Product Specifications

SINGLE PACKAGE ROOFTOP UNITS WITH X-VANE™ FAN TECHNOLOGY: GAS HEATING/ELECTRIC COOLING (RGW) AND ELECTRIC COOLING/OPTIONAL ELECTRIC HEAT (RAW) 3-5 TON

The new 3 to 5 Ton RGW/RAW series rooftop units (RTU) with X-Vane™ Fan Technology provide value added benefits never seen in this type of equipment before. New major design features include:

- Patent pending, the industry's first beltless direct-drive vane axial fan for rooftop units with electric commutated variable speed motor.
- Reliable 2 stage scroll compressor on all sizes.
- Upgraded unit control board with intuitive indoor fan adjustment.
- Reliable copper tube / aluminum fin condenser coil with $^{5}/_{16}$-in. tubing to help reduce refrigerant charge versus prior designs.
- New outdoor fan system with rugged, lightweight high impact composite fan blade.



RGW/RAW036-060

X-Vane™ Fan

Installation ease

All RGW/RAW units are field convertible to horizontal air flow, which makes it easy to adjust to unexpected job site complications. RGW/RAW rooftop units up to 5 tons are specifically designed to fit on our existing roof curbs dating back to 1989 for worry-free original fit. Also, our large control box gives you room to work and room to mount accessory controls. Intuitive controls make setting up the required fan speed simple and accurate. Access to the blower section is no longer needed with the new design.

Easy to maintain

With the new Vane Axial fan and direct drive ECM motor, there is no longer a need to adjust belts or pulleys as in past designs. This frees up maintenance and installation time.

Easy access handles provide quick and easy access to all normally serviced components. Our "no-strip" screw system has superior holding power and guides screws into position while preventing the screw from stripping the unit's metal.

Sloped, corrosion resistant composite drain pan sheds water and won't rust.

RGW units are designed with a naturally draining heat exchanger, unlike positive pressure heat exchangers, does not need to be periodically, manually drained. This saves labor and maintenance expense.

Easy to use

The newly re-designed Unit Control Board puts all connections and troubleshooting points in one convenient place. Most low voltage connections are made to the same board for easy access. Setting up the fan is made simple by an intuitive switch and rotary dial arrangement. RGW/RAW rooftops have high and low pressure switches, a filter drier, and 2-in. filters standard.

X-Vane Fan Technology

Direct drive X-Vane Fan Technology indoor fan system uses vane axial fan design and electrically commutated motors. This new Vane Axial design over past belt drive systems has 75% fewer moving parts, uses up to 40% less energy and has no fan belts, blower bearings and shaft.

Design features include:

- Two-stage cooling capacity control delivers SEERs up to 16.1.
- All models are capable of either vertical or horizontal airflow.
- RGW/RAW rooftop units (RTU) were designed by customers for customers. With "no-strip" screw collars, handled access panels, and more the unit is easy to install, easy to maintain, and easy to use. Your new 3 to 5 ton RGW/RAW rooftop unit (RTU) provides optimum comfort and control from a packaged rooftop.

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Features/Benefits

Value-added features include:

- Optional Hot Gas Re-Heat dehumidification system for improved part load humidity performance
- R-410A refrigerant
- Single point gas and electrical connections
- 3 to 5 ton models use fixed refrigerant metering devices and 6 ton models use a TXV
- Scroll compressors with internal line-break overload protection

Operating efficiency and flexibility

The RGW/RAW rooftops exceed ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 90.1-2016, IECC[1] (International Energy Conservation Code) IECC-2018 minimum efficiency requirements.

Field convertible airflow

All RGW/RAW 3 to 5 ton units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected job site complications.

Comfort control

Our patented Hot Gas Re-Heat dehumidification system is an all-inclusive factory-installed option on gas heating/electric cooling and electric cooling/electric heat models. This system provides reliable, flexible operation to meet indoor part load sensible and latent requirements.

UNIT PERFORMANCE DATA — Two Stage Cooling /Single Circuit

UNIT	Nom. Tons	COOLING			GAS HEATING		Unit Dimensions H x W x L	Shipping Weight lb. [kg]
		Net Cap. (Btuh)	EER	SEER	Input Cap. (Btuh) Stage 2	Thermal Efficiency (%)		
RGW036*^DD0AAB	3	35,200	12.0	16.1	65,000 - 90,000	80 - 82	33 3/8" x 46 5/8" x 74 3/8"	553 [251]
RGW048*^DD0AAB	4	47,000	12.0	16.1	65,000 - 130,000	80 - 82	33 3/8" x 46 5/8" x 74 3/8"	595 [270]
RGW060*^DD0AAB	5	60,000	12.0	16.1	65,000 - 130,000	80 - 82	41 3/8" x 46 5/8" x 74 3/8"	640 [291]

UNIT PERFORMANCE DATA — Two Stage Cooling /Single Circuit

UNIT	Nom. Tons	COOLING				Unit Dimensions H x W x L	Shipping Weight lb. [kg]
		Net Cap. (Btuh)	EER	SEER	Total Power (kW)		
RAW036*0DD0AAB	3	35,200	12.2	16.1	2.9	33 3/8" x 46 5/8" x 74 3/8"	508 [231]
RAW048*0DD0AAB	4	47,000	12.2	16.1	3.9	33 3/8" x 46 5/8" x 74 3/8"	550 [250]
RAW060*0DD0AAB	5	60,000	12.2	16.1	409	41 3/8" x 46 5/8" x 74 3/8"	595 [270]

* Indicates Unit voltage: K = 208/230-1-60, H = 208/230−3−60, L = 460−3−60, S = 575−3−60

^ See model nomenclature listing for gas heating options.

NOTE: BASE MODEL NUMBERS LISTED. SEE MODEL NOMENCLATURE LISTING FOR ADDITIONAL OPTIONS

1 IECC is a registered trademark of the International Code Council, Inc.

Model number nomenclature

RGW MODEL NUMBER NOMENCLATURE

MODEL SERIES	R	G	W	0	6	0	L	D	D	A	0	A	A	A
Position Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14

R = Rooftop

G = Gas Heat / Electric Cooling — Type

W = 16.1 SEER Efficiency — High Efficiency

036 = 36,000 BTUH = 3 Tons
048 = 48,000 BTUH = 4 Tons
060 = 60,000 BTUH = 5 Tons — Nominal Cooling Capacity

K = 208/230-1-60
H = 208/230-3-60
L = 460-3-60
S = 575-3-60 — Voltage

D = Low Heat
E = Medium Heat
F = High Heat
L = Low NOx, Low Heat
S = Low Heat, Stainless Steel Heat Exchanger
R = Medium Heat, Stainless Steel Heat Exchanger
T = High Heat, Stainless Steel Heat Exchanger
Heating Capacity[1]

D = Direct Drive X-Vane™ Fan – Standard Static
E = Direct Drive X-Vane Fan – High Static
F = Direct Drive X-Vane Fan – Medium Static
G = Direct Drive X-Vane Fan – High Static with Hot Gas Re-Heat[2]
Motor Option (Indoor Fan)

A = None
B = Economizer with Barometric relief, OA Temp sensor
E = Economizer with Barometric relief + CO_2 sensor, OA Temp sensor
H = Economizer with Barometric relief, enthalpy sensor
L = Economizer with Barometric relief + CO_2 sensor, enthalpy sensor
U = Temp Ultra Low Leak Economizer with Barometric relief
W = Enthalpy Ultra Low Leak Economizer with Barometric relief
Outdoor Air Options / Control[3]

0A = No Options
4B = Non Fused Disconnect Switch
AA = Hinged Access Panels
AT = Un-Powered Convenience Outlet
BB = Powered Convenience Outlet
BP = Return Air Smoke Detector
BR = Supply Air Smoke Detector
CJ = Condensate Overflow Switch
Factory Installed Options[4]

A = Aluminum / Copper Cond & Evap Coil
B = Precoat Alum/Copper Cond with Alum / Copper Evap (3 phase only)
C = E-Coated Alum/Copper Cond with Alum / Copper Evap (3 phase only)
D = E-Coated Alum / Copper Cond & Evap (3 phase only)
E = Copper/Copper Cond & Alum/Copper Evap (3 phase only)
F = Copper/Copper Cond & Evap (3 phase only)
Condenser / Evaporator Coil Configuration

A = Economizer controls for (W7212) for EconoMiZer® IV and all others (except factory-installed EconoMiZer X)
B = Economizer control (W7220) for EconoMiZer X
Economizer Control

NOTE: On single phase (K voltage code) models the following are not available as factory-installed options:

- Coated or copper fin coils
- Economizers and 2-position damper
- Powered convenience outlet
- Hot Gas Re-Heat

[1]See Specification Sheet for actual heating capacities.

[2]Hot Gas Re-Heat system includes Low Ambient controller.

[3]See Specification Sheet for details.

[4]Combinations of factory-installed options are available, see Specifications Sheet for details.

Model number nomenclature (cont)

RAW MODEL NUMBER NOMENCLATURE

MODEL SERIES	R	A	W	0	6	0	L	0	D	A	0	A	A	A
Position Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14

R = Rooftop

A = Electric/Electric, Cooling Only — Type

W = 16.1 SEER — High Efficiency

036 = 36,000 BTUH = 3 Tons
048 = 48,000 BTUH = 4 Tons
060 = 60,000 BTUH = 5 Tons — Nominal Cooling Capacity

K = 208/230-1-60
H = 208/230-3-60
L = 460-3-60
S = 575-3-60 — Voltage

0 = No Heat — Heating Capacity[1]

D = Direct Drive X-Vane™ Fan – Standard Static
E = Direct Drive X-Vane Fan – High Static
F = Direct Drive X-Vane Fan – Medium Static
G = Direct Drive X-Vane Fan – High Static with Hot Gas Re-Heat[2] — Motor Option (Indoor Fan)

A = None
B = Economizer with Barometric relief, OA Temp sensor
E = Economizer with Barometric relief + CO_2 sensor compatible, OA Temp sensor
H = Economizer with Barometric relief, enthalpy sensor
L = Economizer with Barometric relief + CO_2 sensor compatible, enthalpy sensor
U = Temp Ultra Low Leak Economizer with Barometric relief
W = Enthalpy Ultra Low Leak Economizer with Barometric relief — Outdoor Air Options / Control[3]

0A = No Options
4B = Non Fused Disconnect Switch
AA = Hinged Access Panels
AT = Un-Powered Convenience Outlet
BB = Powered Convenience Outlet
BP = Return Air Smoke Detector
BR = Supply Air Smoke Detector
CJ = Condensate Overflow Switch — Factory Installed Options[4]

A = Aluminum / Copper Cond and Evap Coil
B = Precoat Alum/Copper Cond with Alum / Copper Evap (3 phase only)
C = E-Coated Alum/Copper Cond with Alum / Copper Evap (3 phase only)
D = E-Coated Alum / Copper Cond and Evap (3 phase only)
E = Copper/Copper Cond and Alum/Copper Evap (3 phase only)
F = Copper/Copper Cond and Evap (3 phase only) — Condenser / Evaporator Coil Configuration

A = Economizer controls for (W7212) for EconoMiZer® IV and all others (except factory-installed EconoMiZer X)
B = Economizer control (W7220) for EconoMiZer X — Economizer Control

NOTE: On single phase (K voltage code) models the following are not available as factory-installed options:

- Coated or copper fin coils
- Economizers and 2-position damper
- Powered convenience outlet
- Hot Gas Re-Heat

[1]See Specification Sheet for actual heating capacities.

[2]Hot Gas Re-Heat system includes Low Ambient controller.

[3]See Specification Sheet for details.

[4]Combinations of factory-installed options are available, see Specifications Sheet for details.

Capacity ratings

RGW AHRI RATINGS

RGW UNIT	COOLING STAGES	NOMINAL CAPACITY (TONS)	NET COOLING CAPACITY (MBH)	TOTAL POWER (kW)	SEER	EER
RGW036	2	3	35.2	2.9	16.1	12.5
RGW048	2	4	47.0	3.9	16.1	12.0
RGW060	2	5	60.0	5.0	16.1	12.5

LEGEND

AHRI — Air-Conditioning, Heating and Refrigeration Institute
EER — Energy Efficiency Ratio
IEER — Integrated Energy Efficiency Ratio
SEER — Seasonal Energy Efficiency Ratio

NOTES:

1. Rated in accordance with AHRI Standards 210/240.
2. Rating are based on:
   Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temperature and 95°F (35°C) db outdoor air temperature.
3. All RGW units comply with ASHRAE 90.1-2016 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) and DOE-2018 (Department of Energy) Energy Standard for minimum SEER and EER requirements.
4. RGW units comply with US Energy Policy Act (2005). To evaluate code compliance requirements, refer to state and local codes.

RAW AHRI RATINGS

RAW UNIT	COOLING STAGES	NOMINAL CAPACITY (TONS)	NET COOLING CAPACITY (MBH)	TOTAL POWER (kW)	SEER	EER
RAW036	2	3	35.2	2.9	16.1	12.5
RAW048	2	4	47.0	3.9	16.1	12.2
RAW060	2	5	60.0	4.9	16.1	12.5

LEGEND

AHRI — Air-Conditioning, Heating and Refrigeration Institute
EER — Energy Efficiency Ratio
IEER — Integrated Energy Efficiency Ratio
SEER — Seasonal Energy Efficiency Ratio

NOTES:

1. Rated in accordance with AHRI Standards 210/240.
2. Rating are based on:
   Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temperature and 95°F (35°C) db outdoor air temperature.
3. All RAW units comply with ASHRAE 90.1-2016 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) and DOE-2018 (Department of Energy) Energy Standard for minimum SEER and EER requirements.
4. RAW units comply with US Energy Policy Act (2005). To evaluate code compliance requirements, refer to state and local codes.

Capacity ratings (cont)

SOUND RATINGS TABLE

RGW/RAW UNIT	COOLING STAGES	OUTDOOR SOUND (dB) AT 60 Hz								
		A-WEIGHTED	63	125	250	500	1000	2000	4000	8000
036	2	79	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3
048	2	79	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3
060	2	79	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3

LEGEND

dB — Decibel

NOTES:

1. Outdoor sound data is measured in accordance with AHRI.
2. Measurements are expressed in terms of sound power. Do not compare these values to sound pressure values because sound pressure depends on specific environmental factors which normally do not match individual applications. Sound power values are independent of the environment and therefore more accurate.
3. A-weighted sound ratings filter out very high and very low frequencies, to better approximate the response of “average” human ear. A-weighted measurements for ICP units are taken in accordance with AHRI.

MINIMUM - MAXIMUM AIRFLOW RATINGS (CFM) — NATURAL GAS AND PROPANE

UNIT	HEAT LEVEL	VOLTAGE	COOLING				HEATING*	
			MINIMUM AIRFLOW CFM	MINIMUM 2- SPEED AIRFLOW (LOW SPEED)	MINIMUM 2- SPEED AIRFLOW (HIGH SPEED)	MAXIMUM AIRFLOW CFM	MINIMUM AIRFLOW CFM	MAXIMUM AIRFLOW CFM
RGW036	**LOW**	**1 PHASE**	900	675	900	1500	890	1950
	MED						800	1520
	HIGH						N/A	N/A
RGW048	**LOW**	**1 PHASE**	1200	900	1200	2000	890	2440
	MED						1050	2280
	HIGH						1220	2170
RGW060	**LOW**	**1 PHASE**	1500	1125	1500	2500	890	3250
	MED						1050	2730
	HIGH						1220	2790
RGW036	**LOW**	**3 PHASE**	900	675	900	1500	910	2010
	MED						960	1160
	HIGH						N/A	N/A
RGW048	**LOW**	**3 PHASE**	1200	900	1200	2000	910	2010
	MED						1250	2330
	HIGH						1390	2220
RGW060	**LOW**	**3 PHASE**	1500	1125	1500	2500	910	2510
	MED						1250	2720
	HIGH						1390	2780

*Heating rating values are identical for aluminum heat exchangers and stainless steel heat exchangers.

MINIMUM - MAXIMUM AIRFLOW RATINGS (CFM) — COOLING UNITS AND ACCESSORY ELECTRIC HEAT

UNIT	COOLING				ELECTRIC HEAT*	
	MINIMUM AIRFLOW CFM	MINIMUM 2-SPEED AIRFLOW (LOW SPEED)	MINIMUM 2-SPEED AIRFLOW (HIGH SPEED)	MAXIMUM AIRFLOW CFM	MINIMUM AIRFLOW CFM	MAXIMUM AIRFLOW CFM
RAW036	900	675	900	1500	900	1500
RAW048	1200	900	1200	2000	1200	2000
RAW060	1500	1125	1500	2500	1500	2500

*Electric heat modules are available as field-installed accessories for RAW units.

Capacity ratings (cont)

HEAT RATING TABLE — NATURAL GAS AND PROPANE

RGW UNIT		GAS HEAT	AL/SS HEAT EXCHANGER		TEMPERATURE RISE (°F)	THERMAL EFFICIENCY (%)	AFUE EFFICIENCY (%)
			INPUT/OUTPUT STAGE 1 (MBH)	INPUT/OUTPUT STAGE 2 (MBH)			
SINGLE PHASE	036	LOW	–/–	65/53	25-55	81	81
		MED	–/–	90/73	45-85	82	81
		HIGH	–/–	—	—	—	—
	048	LOW	–/–	65/53	20-55	81	81
		MED	–/–	90/73	30-65	82	81
		HIGH	–/–	130/106	45-80	81	81
	060	LOW	–/–	65/53	15-55	81	81
		MED	–/–	90/73	25-65	82	81
		HIGH	–/–	130/106	35-80	81	81
THREE PHASE	036	LOW	50/40	67/54	25-55	81	N/A
		MED	82/65	110/93	50-85	80	N/A
		HIGH	—	—	—	—	—
	048	LOW	50/40	67/54	25-55	81	N/A
		MED	82/65	110/88	35-65	80	N/A
		HIGH	120/96	150/120	50-80	80	N/A
	060	LOW	50/40	67/54	20-55	81	N/A
		MED	82/65	110/88	30-65	80	N/A
		HIGH	120/96	150/120	40-80	80	N/A

HEAT RATING TABLE – LOW NOx

RGW UNIT		GAS HEAT	AL/SS HEAT EXCHANGER		TEMPERATURE RISE (°F)	THERMAL EFFICIENCY (%)	AFUE EFFICIENCY (%)
			INPUT/OUTPUT STAGE 1 (MBH)	INPUT/OUTPUT STAGE 2 (MBH)			
SINGLE PHASE	036	LOW	—	60 / 49	20 - 50	81%	81%
	048	LOW	—	60 / 49	20 - 50	81%	81%
	060	LOW	—	60 / 49	15 - 50	81%	81%
THREE PHASE	036	LOW	—	60 / 49	20 - 50	81%	—
	048	LOW	—	60 / 49	20 - 50	81%	—
	060	LOW	—	60 / 49	15 - 50	81%	—

Physical data

RGW/RAW 3 TO 5 TON PHYSICAL DATA

RGW/RAW UNIT	RGW/RAW036 **D/E/F	RGW/RAW036 **G	RGW/RAW048 **D/E/F	RGW/RAW048 **G	RGW/RAW060 **D/E/F	RGW/RAW060 **G
NOMINAL TONS	3		4		5	
BASE UNIT OPERATING WT (lb) RGW/RAW	513/468		555/510		600/555	
REFRIGERATION SYSTEM						
No. Circuits/No. Compressors/Type	1 / 1 / 2-Stage Scroll					
R-410A charge A/B (lbs-oz)	8-4	—	8-11	—	11-0	—
Hot Gas Re-Heat R-410A charge A/B (lbs-oz)	—	8-3	—	14-8	—	18-0
Metering device	TXV					
Hot Gas Re-Heat metering device	—	TXV	—	TXV	—	TXV
High-Pressure Trip/Reset (psig)	630/505					
Low-Pressure Trip/Reset (psig)	54/117	27/44	54/117	27/44	54/117	27/44
EVAPORATOR COIL						
Material (Tube/Fin)	Cu/Al					
Coil Type	3/8-in. RTPF					
Rows/FPI	2/15		4/15			
Total Face Area (ft²)	5.5				7.3	
Condensate Drain Connection Size	3/4-in.					
CONDENSER COIL						
Material	Cu/Al					
Coil Type	5/16-in. RTPF					
Rows/FPI	2/18					
Total Face Area (ft²)	14.6		15.9		20.5	
HOT GAS RE-HEAT COIL						
Material	—	Cu/Al	—	Cu/Al	—	Cu/Al
Coil Type	—	3/8-in. RTPF	—	3/8-in. RTPF	—	3/8-in. RTPF
Rows/FPI	—	1/17	—	2/17	—	2/17
Total Face Area (ft²)	—	4.1	—	4.1	—	5.5
EVAPORATOR FAN AND MOTOR						
Standard Static 1 Phase						
Motor Qty/Drive Type	1/Direct	—	1/Direct	—	1/Direct	—
Max Cont BHP	0.44	—	0.72	—	1.06	—
RPM Range	189-1890	—	190-1900	—	215-2150	—
Fan Qty/Type	1/Vane Axial	—	1/Vane Axial	—	1/Vane Axial	—
Fan Diameter (in.)	16.6	—	16.6	—	16.6	—
Medium Static 1 Phase						
Motor Qty/Drive Type	1/Direct	—	1/Direct	—	1/Direct	—
Max Cont BHP	0.71	—	1.06	—	1.44	—
RPM Range	219-2190	—	217-2170	—	239-2390	—
Fan Qty/Type	1/Vane Axial	—	1/Vane Axial	—	1/Vane Axial	—
Fan Diameter (in.)	16.6	—	16.6	—	16.6	—
High Static 1 Phase						
Motor Qty/Drive Type	1/Direct	—	1/Direct	—	—	—
Max Cont BHP	1.07	—	1.53	—	—	—
RPM Range	249-2490	—	246-2460	—	—	—
Fan Qty/Type	1/Vane Axial	—	1/Vane Axial	—	—	—
Fan Diameter (in.)	16.6	—	16.6	—	—	—
Standard Static 3 Phase						
Motor Qty/Drive Type	1/Direct					
Max Cont BHP	0.44		0.72		1.06	
RPM Range	189-1890		190-1900		215-2150	
Fan Qty/Type	1/Vane Axial					
Fan Diameter (in.)	16.6					
Medium Static 3 Phase						
Motor Qty/Drive Type	1/Direct					
Max Cont BHP	0.71		1.06		1.44	
RPM Range	219-2190		217-2170		239-2390	
Fan Qty/Type	1/Vane Axial					
Fan Diameter (in.)	16.6					
High Static 3 Phase						
Motor Qty/Drive Type	1/Direct					
Max Cont BHP	1.07		1.96		2.43	
RPM Range	249-2490		266-2660		284-2836	
Fan Qty/Type	1/Vane Axial					
Fan Diameter (in.)	16.6					

Physical data (cont)

RGW/RAW 3 TO 5 TON PHYSICAL DATA (cont)

RGW/RAW UNIT	RGW/RAW036 **D/E/F	RGW/RAW036 **G	RGW/RAW048 **D/E/F	RGW/RAW048 **G	RGW/RAW060 **D/E/F	RGW/RAW060 **G
CONDENSER FAN AND MOTOR						
Qty / Motor Drive Type	1 / Direct					
Motor HP/RPM	1/5 / 825/675	1/4 / 1100/900				
Fan Diameter (in.)	23					
FILTERS						
RA Filter Qty / Size (in.)	2 / 16x25x2				4 / 16x16x2	
OA Inlet Screen Qty / Size (in.)	1 / 20x24x1					

LEGEND

BHP — Break Horsepower
FPI — Fins Per Inch
OA — Outdoor Air
RA — Return Air

* Base unit operating weight does not include weight of options.

Physical data (cont)

RGW 3 TO 5 TON GAS HEAT DATA — 1 PHASE UNITS

RGW UNIT	RGW036	RGW048	RGW060
GAS CONNECTION			
No. of Gas Valves		1	
Natural Gas Supply Line Pressure (in. wg)/(psig)		4-13 / 0.18-0.47	
Liquid Propane Supply Line Pressure (in. wg)/(psig)		11-13 / 0.40-0.47	
HEAT ANTICIPATOR SETTING (AMPS)			
First Stage		0.14	
Second Stage		0.14	
NATURAL GAS HEAT			
LOW			
No. of Stages / No. of Burners (total)		1 / 2	
Connection Size		1/2-in. NPT	
Rollout Switch Opens / Closes (°F)		195 / 115	
Temperature Rise (°F)	25-55	20-55	15-55
MEDIUM			
No. of Stages / No. of Burners (total)		1 / 3	
Connection Size		1/2-in. NPT	
Rollout Switch Opens / Closes (°F)		195 / 115	
Temperature Rise (°F)	45-85	30-65	25-65
HIGH			
No. of Stages / No. of Burners (total)	—	1 / 3	
Connection Size	—	1/2-in. NPT	
Rollout Switch Opens / Closes (°F)	—	195 / 115	
Temperature Rise (°F)	—	45-80	35-80
LIQUID PROPANE HEAT			
LOW			
No. of Stages / No. of Burners (total)		1 / 2	
Connection Size		1/2-in. NPT	
Rollout Switch Opens / Closes (°F)		195 / 115	
Temperature Rise (°F)	25-55	20-55	15-55
MEDIUM			
No. of Stages / No. of Burners (total)		1 / 3	
Connection Size		1/2-in. NPT	
Rollout Switch Opens / Closes (°F)		195 / 115	
Temperature Rise (°F)	45-85	30-65	25-65
HIGH			
No. of Stages / No. of Burners (total)	—	1 / 3	
Connection Size	—	1/2-in. NPT	
Rollout Switch Opens / Closes (°F)	—	195 / 115	
Temperature Rise (°F)	—	45-80	35-80
LOW NOx HEAT			
LOW			
No. of Stages / No. of Burners (total)		1 / 2	
Connection Size		1/2-in. NPT	
Rollout Switch Opens / Closes (°F)		195 / 115	
Temperature Rise (°F)	20-50		15-50

Physical data (cont)

RGW 3 TO 6 TON GAS HEAT DATA — 3 PHASE UNITS

RGW UNIT	RGW036	RGW048	RGW060
GAS CONNECTION			
No. of Gas Valves		1	
Natural Gas Supply Line Pressure (in. wg)/(psig)		4-13 / 0.18-0.47	
Liquid Propane Supply Line Pressure (in. wg)/(psig)		11-13 / 0.40-0.47	
HEAT ANTICIPATOR SETTING (AMPS)			
First Stage		0.14	
Second Stage		0.14	
NATURAL GAS HEAT			
LOW			
No. of Stages / No. of Burners (total)		2 / 2	
Connection Size		1/2-in. NPT	
Rollout Switch Opens / Closes (°F)		195 / 115	
Temperature Rise (°F)	25-55		20-55
MEDIUM			
No. of Stages / No. of Burners (total)		2 / 3	
Connection Size		1/2-in. NPT	
Rollout Switch Opens / Closes (°F)		195 / 115	
Temperature Rise (°F)	50-85	35-65	30-65
HIGH			
No. of Stages / No. of Burners (total)	—	2 / 3	
Connection Size	—	1/2-in. NPT	
Rollout Switch Opens / Closes (°F)	—	195 / 115	
Temperature Rise (°F)	—	50-80	40-80
LIQUID PROPANE HEAT			
LOW			
No. of Stages / No. of Burners (total)		2 / 2	
Connection Size		1/2-in. NPT	
Rollout Switch Opens / Closes (°F)		195 / 115	
Temperature Rise (°F)	25-55		20-55
MEDIUM			
No. of Stages / No. of Burners (total)		2 / 3	
Connection Size		1/2-in. NPT	
Rollout Switch Opens / Closes (°F)		195 / 115	
Temperature Rise (°F)	50-85	35-65	30-65
HIGH			
No. of Stages / No. of Burners (total)	—	2 / 3	
Connection Size	—	1/2-in. NPT	
Rollout Switch Opens / Closes (°F)	—	195 / 115	
Temperature Rise (°F)	—	50-80	40-80
LOW NOx HEAT			
LOW			
No. of Stages / No. of Burners (total)		1 / 2	
Connection Size		1/2-in. NPT	
Rollout Switch Opens / Closes (°F)		195 / 115	
Temperature Rise (°F)	20-50		15-50

Options and accessories

ITEM	OPTION*	ACCESSORY†
GAS HEAT (RGW units only)		
Low, Medium or High Gas Heat — Aluminized Heat Exchanger	X	
Low, Medium or High Gas Heat — Stainless Steel Heat Exchanger	X	
Low NOx, Low Heat — Stainless Steel Heat Exchanger	X	
Propane Conversion Kit		X
High Altitude Conversion Kit		X
Flue Discharge Deflector		X
Flue Shield		X
ELECTRIC HEAT (RAW units only)		
Electric Resistance Heaters		X
Single Point Kits		X
CABINET		
Thru-the-Base electrical or gas-line connections		X
Hinged Access Panels	X	
COIL OPTIONS		
Cu/Cu indoor and/or outdoor coils[1]	X	
Pre-coated outdoor coils[1]	X	
Premium, E-coated outdoor coils[1]	X	
HUMIDITY CONTROL		
Hot Gas Re-Heat Dehumidification System[1]	X	
CONDENSER PROTECTION		
Condenser coil hail guard (louvered design)[1]	X	X
CONTROLS		
Thermostats, temperature sensors, and subbases		X
Smoke detector (supply and/or return air)	X	
Horn Strobe Annunciator[2]		X
Time Guard II compressor delay control circuit		X
Phase Monitor		X
Condensate Overflow switch	X	X

ITEM	OPTION*	ACCESSORY†
ECOMOMIZERS AND OUTDOOR AIR DAMPERS		
EconoMi$er® IV for electro-mechanical controls - Non FDD (Standard air leak damper models)[1, 3]		X
EconoMi$er X for electro-mechanical controls, complies with FDD (Standard and Ultra Low Leak damper models)[1, 3]	X	X
Motorized 2-position outdoor-air damper[1]		X
Manual outdoor-air damper (25% and 50%)		X
Barometric relief[4]	X	X
Power exhaust - prop design		X
ECOMOMIZER SENSORS AND IAQ DEVICES		
Single dry bulb temperature sensors[5]	X	X
Differential dry bulb temperature sensors[5]		X
Single enthalpy sensors[5]	X	X
Differential enthalpy sensors[5]		X
CO_2 sensor (wall, duct, or unit mounted)[5]	X	X
INDOOR MOTOR AND DRIVE		
Multiple motor and drive packages	X	
LOW AMBIENT CONTROL		
Winter start kit[6]		X
Low Ambient controller to –20°F (–29°C)[6]	X	X
POWER OPTIONS		
Convenience outlet (powered)[1]	X	
Convenience outlet (unpowered)	X	
Non-fused disconnect[7]	X	
ROOF CURBS		
Roof curb 14-in. (356 mm)		X
Roof curb 24-in. (610 mm)		X

* Factory-installed option.

† Field-installed accessory.

NOTES:

1. Not available as a factory-installed option on single phase (-K voltage code) models. Use field-installed accessory where available.
2. Requires a field-supplied 24v transformer for each application. See price pages for details.
3. FDD (Fault Detection and Diagnostic) capability per California Title 24 section 120.2.
4. Included with economizer.
5. Sensors used to optimize economizer performance.
6. See application data for assistance.
7. Non-fused disconnect switch cannot be used when unit electrical rating exceeds:
   208-230/1/60 and 208-230/3/60 = 80 amps (FLA).
   480/3/60 and 575/3/60 = 80 amps (FLA).

Options and accessories (cont)

Factory-installed options

Economizer (dry-bulb or enthalpy)

Economizers save money. They bring in fresh, outside air for ventilation and provide cool, outside air to cool your building. This is the preferred method of low-ambient cooling. When coupled to CO_2 sensors, economizers can provide even more savings by coupling the ventilation air to only that amount required.

Economizers are available, installed and tested by the factory, with either enthalpy or dry-bulb temperature inputs. Additional sensors are available as accessories to optimize the economizers. Economizers include a powered exhaust system to help equalize building pressures.

Economizers include gravity-controlled barometric relief that helps equalize building pressure and ambient air pressures. This can be a cost effective solution to prevent building pressurization. Economizers are available in Ultra Low Leak and standard low leak versions. Economizers can be factory-installed or easily field-installed.

Unit mounted CO_2 sensor

The CO_2 sensor works with the economizer to intake only the correct amount of outside air for ventilation. As occupants fill your building, the CO_2 sensor detects their presence through increasing CO_2 levels, and opens the economizer appropriately. When the occupants leave, the CO_2 levels decrease, and the sensor appropriately closes the economizer. This intelligent control of the ventilation air, called demand controlled ventilation (DCV), reduces the overall load on the rooftop, saving money. Also available as a field-installed accessory.

Smoke detector (supply and/or return air)

Trust the experts. Smoke detectors make your application safer and your job easier. ICP smoke detectors immediately shut down the rooftop unit when smoke is detected. They are available, installed by the factory, for supply air, return air, or both.

Optional Hot Gas Re-Heat dehumidification system

ICP's Hot Gas Re-Heat dehumidification system is an all-inclusive factory-installed option that can be ordered with any RGW/RAW036-060 rooftop unit, with the exception of single phase voltage (208-230/1/60) units.

This system expands the envelope of operation of ICP's rooftop products to provide unprecedented flexibility to meet year round comfort conditions.

The Hot Gas Re-Heat dehumidification system has a unique dual operational mode setting. The Hot Gas Re-Heat system provides greater dehumidification of the occupied space by two modes of dehumidification operations in addition to its normal design cooling mode.

The RGW/RAW036-060 rooftop coupled with the Hot Gas Re-Heat system is capable of operating in normal design cooling mode, sub-cooling mode, and hot gas reheat mode. Normal design cooling mode is when the unit will operate under its normal sequence of operation by cycling compressors to maintain comfort conditions.

Sub-cooling mode will operate to satisfy part load type conditions when the space requires combined sensible and a higher proportion of latent load control. Hot Gas Reheat mode will operate when outdoor temperatures diminish and the need for latent capacity is required for sole humidity control Hot Gas Reheat mode will provide neutral air for maximum dehumidification operation.

NOTE: Hot Gas Re-Heat system includes Low Ambient controller.

Thru-the-base connection

Thru-the-base connections, available as a factory option, are necessary to ensure proper connection and seal when routing wire and piping through the rooftop's basepan and curb. These couplings eliminate roof penetration and should be considered for gas lines, main power lines, as well as control power.

Hinged access panels

Allows access to unit's major components with specifically designed hinged access panels. Panels are filter, control box access indoor fan motor access.

Cu/Cu (indoor) coils

Copper fins and copper tubes are mechanically bonded to copper tubes and copper tube sheets. A polymer strip prevents coil assembly from contacting the sheet metal coil pan to minimize potential for galvanic corrosion between coil and pan.

E-coated (outdoor and indoor) coils

A flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins. Coating process shall ensure complete coil encapsulation of tubes, fins and headers.

Pre-coated outdoor coils

A durable epoxy-phenolic coating to provide protection in mildly corrosive coastal environments. The coating minimizes galvanic action between dissimilar metals. Coating is applied to the aluminum fin stock prior to the fin stamping process to create an inert barrier between the aluminum fin and copper tube.

Condenser coil hail guard

Sleek, louvered panels protect the condenser coil from hail damage, foreign objects, and incidental contact.

Single enthalpy sensor

Prevents the wheel from rotating if the outside air conditions are acceptable for free cooling. Both exhaust and supply blowers will remain on.

Stainless steel heat exchanger (RGW units only)

The stainless steel heat exchanger option provides the tubular heat exchanger be made out of a minimum 20 gage type 409 stainless steel for applications where the mixed air to the heat exchanger is expected to drop below 45°F (7°C). Stainless steel may be specified on applications where the presence of airborne contaminants require its use (applications such as paper mills) or in area with very high outdoor humidity that may result in severe condensation in the heat exchanger during cooling operation.

Options and accessories (cont)

Convenience outlet (powered or un-powered)

Reduce service and/or installation costs by including a convenience outlet in your specification. ICP will install this service feature at our factory. Provides a convenient, 15 amp, 115v GFCI receptacle with “Wet in Use” cover. The “powered” option allows the installer to power the outlet from the line side of the disconnect or load side as required by code. The “unpowered” option is to be powered from a separate 115/120v power source.

The unpowered convenience outlet is available as a 15 amp factory-installed option or a 20 amp field-installed accessory.

Non-fused disconnect

This OSHA-compliant, factory-installed, safety switch allows a service technician to locally secure power to the rooftop. When selecting a factory-installed non-fused disconnect, note they are sized for the unit as ordered from the factory. The sizing of these do not accommodate field-installed items such as power exhaust devices, etc. If field installing electric heat with factory-installed non-fused disconnect switch, a single point kit may or may not be required.

Condensate overflow switch

This sensor and related controller monitors the condensate level in the drain pan and shuts down compression operation when overflow conditions occur. It includes:

- Indicator light – solid red (more than 10 seconds on water contact – compressors disabled), blinking red (sensor disconnected)
- 10 second delay to break – eliminates nuisance trips from splashing or waves in pan (sensor needs 10 seconds of constant water contact before tripping)
- Disables the compressor(s) operation when condensate plug is detected, but still allows fans to run for economizer.

Low ambient controller

The low ambient controller is a head pressure controller kit that is designed to maintain the unit’s condenser head pressure during periods of low ambient cooling operation. This device should be used as an alternative to economizer free cooling when economizer usage is either not appropriate or desired. The low ambient controller will either cycle the outdoor fan motors or operate them at reduced speed to maintain the unit operation, depending on the model. This controller allows cooling operation down to –20°F (–29°C) ambient conditions.

Options and accessories (cont)

Field-installed accessories

Filter maintenance indicator

When the optional factory-installed filter maintenance indicator is used, a factory-installed differential pressure switch measures pressure drop across the outside air filter and activates a field-supplied dry contact indicator when the pressure differential exceeds the adjustable switch setpoint.

Condenser coil hail guard

Sleek, louvered panels protect the condenser coil from hail damage, foreign objects, and incidental contact. This can be purchased as a factory-installed option or as a field-installed accessory.

Differential enthalpy sensor

The differential enthalpy sensor is comprised of an outdoor and return air enthalpy sensors to provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.

Wall or duct mounted CO_2 sensor

The IAQ sensor shall be available in duct or wall mount. The sensor provides demand ventilation indoor air quality (IAQ) control.

Propane conversion kit (RGW units only)

Convert your gas heat rooftop from standard natural gas operation to propane using this field-installed kit.

High altitude conversion kit (RGW units only)

High altitudes have less oxygen, which affects the fuel/air mixture in heat exchangers. In order to maintain a proper fuel/air mixture, heat exchangers operating in altitudes above 2000 ft (610 m) require different orifices. To select the correct burner orifices or determine the heat capacity for a high altitude application, use either the selection software, or the unit's service manual. High altitudes have less oxygen, which means heat exchangers need less fuel. The new gas orifices in this field-installed kit make the necessary adjustment for high altitude applications. They restore the optimal fuel to air mixture and maintain healthy combustion on altitudes above 2000 ft (610 m).

NOTE: Typical natural gas heating value ranges from 975 to 1050 Btu/ft^3 at sea level nationally. The heating value goes down approximately 1.7% per every thousand feet elevation. Standard factory orifices can typically be used up to 2000 ft (610 m) elevation without any operational issues.

Flue discharge deflector (RGW units only)

The flue discharge deflector is a useful accessory when flue gas recirculation is a concern. By venting the flue discharge upwards, the deflector minimizes the chance for a neighboring unit to intake the flue exhaust.

Winter start kit

The winter start kit by ICP extends the low ambient limit of your rooftop to 25°F (–4°C). The kit bypasses the low pressure switch, preventing nuisance tripping of the low pressure switch. Other low ambient precautions may still be prudent.

Low Ambient controller

The Low Ambient controller is a head pressure controller kit that is designed to maintain the unit's condenser head pressure during periods of low ambient cooling operation. This device should be used as an alternative to economizer free cooling not when economizer usage is either not appropriate or desired. The low ambient controller will either cycle the outdoor-fan motors or operate them at reduced speed to maintain the unit operation, depending on the model. This controller allows cooling operation down to –20°F (–29°C) ambient conditions.

Roof curb (14-in./356 mm or 24-in./610 mm)

Full perimeter roof curb with exhaust capability provides separate air streams for energy recovery from the exhaust air without supply air contamination.

Filter status indicator accessory

Monitors static pressure across supply and exhaust filters and provides indication when filters become clogged.

Manual OA Damper

Manual outdoor air dampers are an economical way to bring in ventilation air. The dampers are available in 25% and 50% versions.

Motorized 2-Position Damper

The ICP 2-position, motorized outdoor air damper admits up to 100% outside air. Using reliable, gear-driven technology, the 2-position damper opens to allow ventilation air and closes when the rooftop stops, stopping unwanted infiltration.

Time Guard II control circuit

This accessory protects your compressor by preventing short-cycling in the event of some other failure, prevents the compressor from restarting for 30 seconds after stopping. Not required with authorized commercial thermostats.

Power exhaust

Superior internal building pressure control. This field-installed accessory may eliminate the need for costly, external pressure control fans.

Phase monitor protection

The Phase Monitor Control will monitor the sequence of three phase electrical system to provide a phase reversal protection; and monitor the three phase voltage inputs to provide a phase loss protection for the three phase device. It will work on either a Delta or Wye power connection.

Electric Heaters (RAW units only)

ICP offers a full-line of field-installed accessory heaters. The heaters are very easy to use, install and are all pre-engineered and certified.

Options and accessories (cont)

OPTIONS AND ACCESSORY WEIGHTS

OPTION / ACCESSORY NAME	RGW/RAW UNIT WEIGHT					
	036		048		060	
	lb	kg	lb	kg	lb	kg
Hot Gas Re-Heat System*	15	7	15	7	24	11
Power Exhaust - vertical	51	23	51	23	51	23
Power Exhaust - horizontal	39	18	39	18	39	18
EconoMi$er® (X or IV)	35	16	35	16	35	16
2-Position Damper	39	18	39	18	39	18
Manual Damper	12	5	12	5	12	5
Medium Gas Heat (RGW units only)	9	4	9	4	9	4
High Gas Heat (RGW units only)	—	—	63	29	63	29
Hail Guard (louvered)	13	6	13	6	17	8
Cu/Cu Condenser Coil	37	17	74	34	90	41
Cu/Cu Condenser and Evaporator Coils	75	34	112	51	160	73
Roof Curb (14-in. curb)	95	43	95	43	95	43
Roof Curb (24-in. curb)	150	68	150	68	150	68
CO_2 sensor	2	1	2	1	2	1
Flue Discharge Deflector	7	3	7	3	7	3
Optional Indoor Motor/Drive	10	5	10	5	10	5
Low Ambient Controller	9	4	9	4	9	4
Winter Start Kit	5	2	5	2	5	2
Return Air Smoke Detector	7	3	7	3	7	3
Supply Air Smoke Detector	7	3	7	3	7	3
Fan Filter Switch	2	1	2	1	2	1
Non-Fused Disconnect	15	7	15	7	15	7
Powered Convenience Outlet	36	16	36	16	36	16
Unpowered Convenience Outlet	4	2	4	2	4	2
Enthalpy Sensor	2	1	2	1	2	1
Differential Enthalpy Sensor	3	1	3	1	3	1

LEGEND

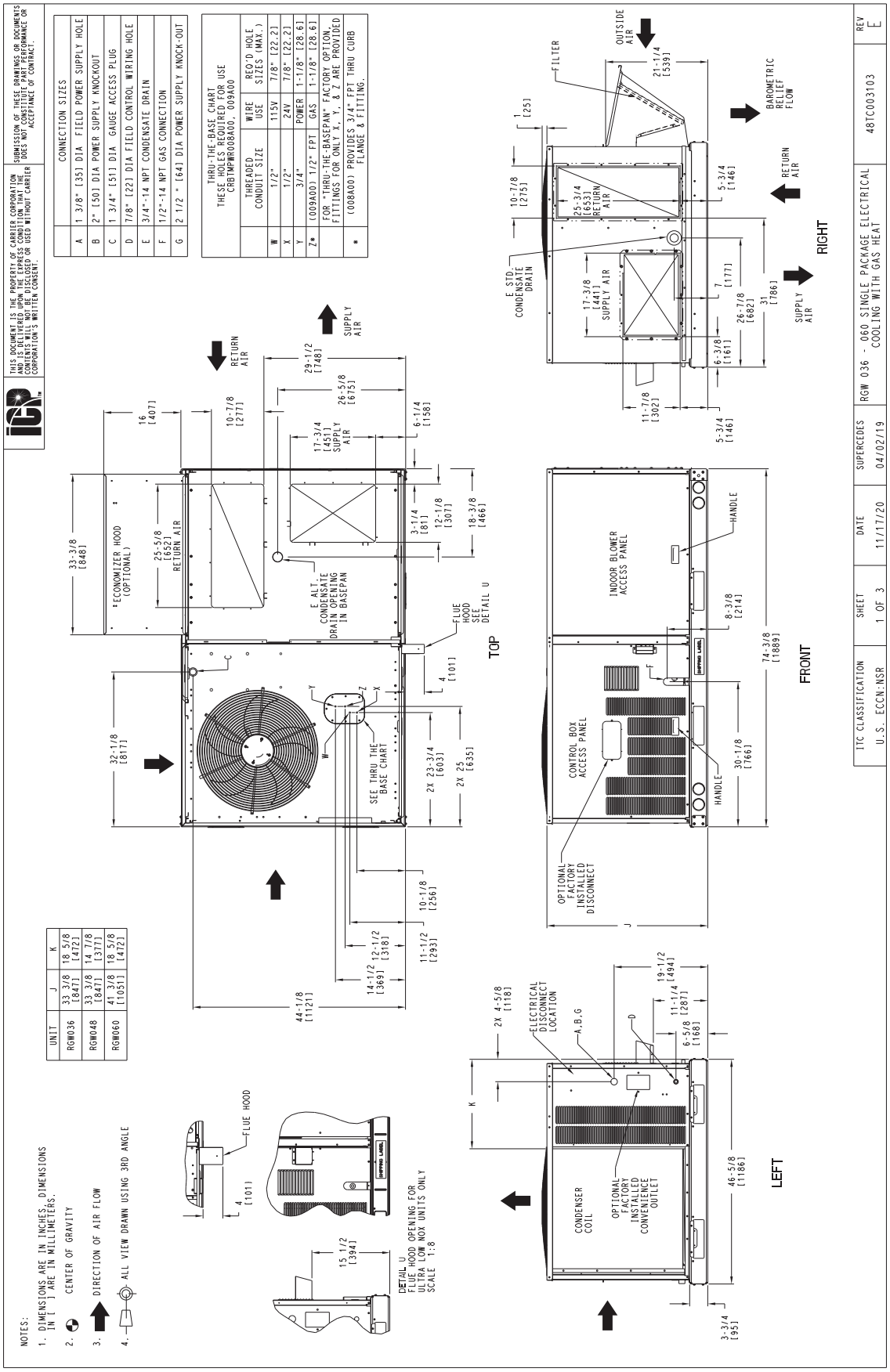
—Not Available

*For Hot Gas Re-Heat system, add Low Ambient controller weight.

NOTE: Where multiple variations are available, the heaviest combination is listed.

Base unit dimensions

RGW036-060 BASE UNIT DIMENSIONS



Base unit dimensions (cont)

RGW036-060 BASE UNIT DIMENSIONS (cont)

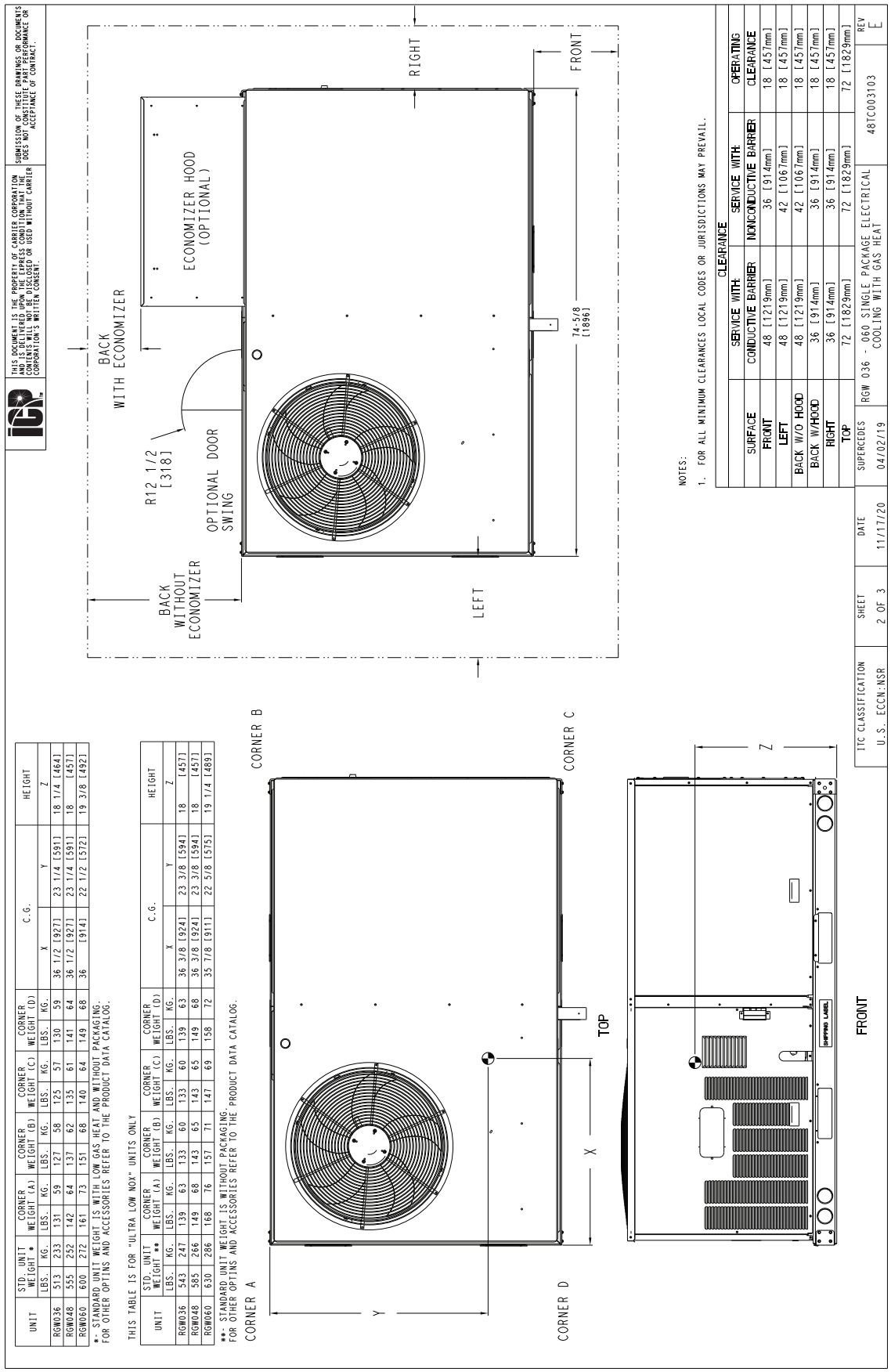
UNIT	STD. UNIT WEIGHT *		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		HEIGHT
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
RGW036	513	233	131	59	127	58	125	57	130	59	36 1/2 [927]	23 1/4 [591]	18 1/4 [464]
RGW048	555	252	142	64	137	62	135	61	141	64	36 1/2 [927]	23 1/4 [591]	18 [457]
RGW060	600	272	161	73	151	68	140	64	149	68	36 [914]	22 1/2 [572]	19 3/8 [492]

*- STANDARD UNIT WEIGHT IS WITH LOW GAS HEAT AND WITHOUT PACKAGING.
FOR OTHER OPTINS AND ACCESSORIES REFER TO THE PRODUCT DATA CATALOG.

THIS TABLE IS FOR "ULTRA LOW NOX" UNITS ONLY

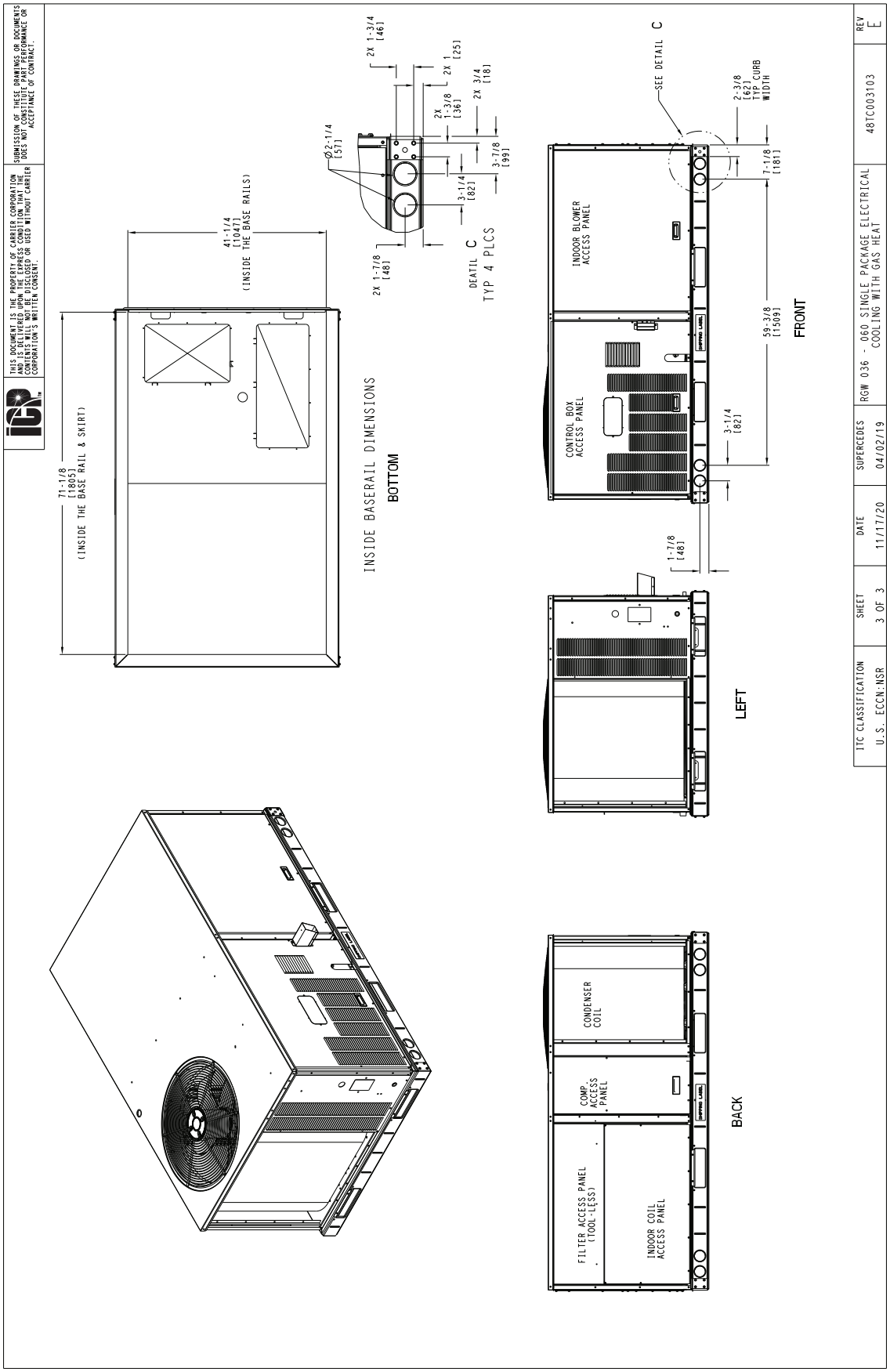
UNIT	STD. UNIT WEIGHT **		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		HEIGHT
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
RGW036	543	247	139	63	133	60	133	60	139	63	36 3/8 [924]	23 3/8 [594]	18 [457]
RGW048	585	266	149	68	143	65	143	65	149	68	36 3/8 [924]	23 3/8 [594]	18 [457]
RGW060	630	286	168	76	157	71	147	69	158	72	35 7/8 [911]	22 5/8 [575]	19 1/4 [489]

**- STANDARD UNIT WEIGHT IS WITHOUT PACKAGING.
FOR OTHER OPTINS AND ACCESSORIES REFER TO THE PRODUCT DATA CATALOG.

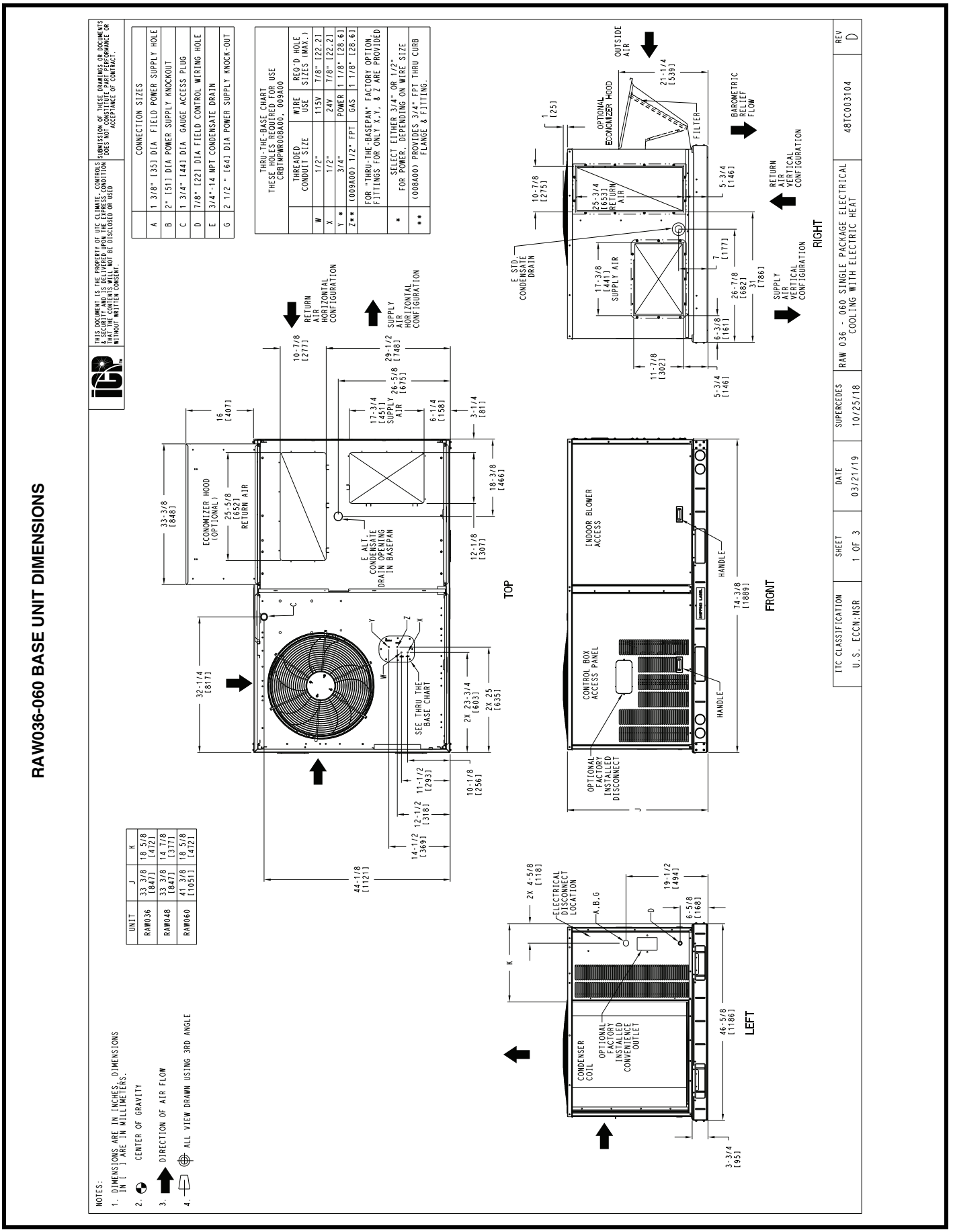


Base unit dimensions (cont)

RGW036-060 BASE UNIT DIMENSIONS (cont)



Base unit dimensions (cont)

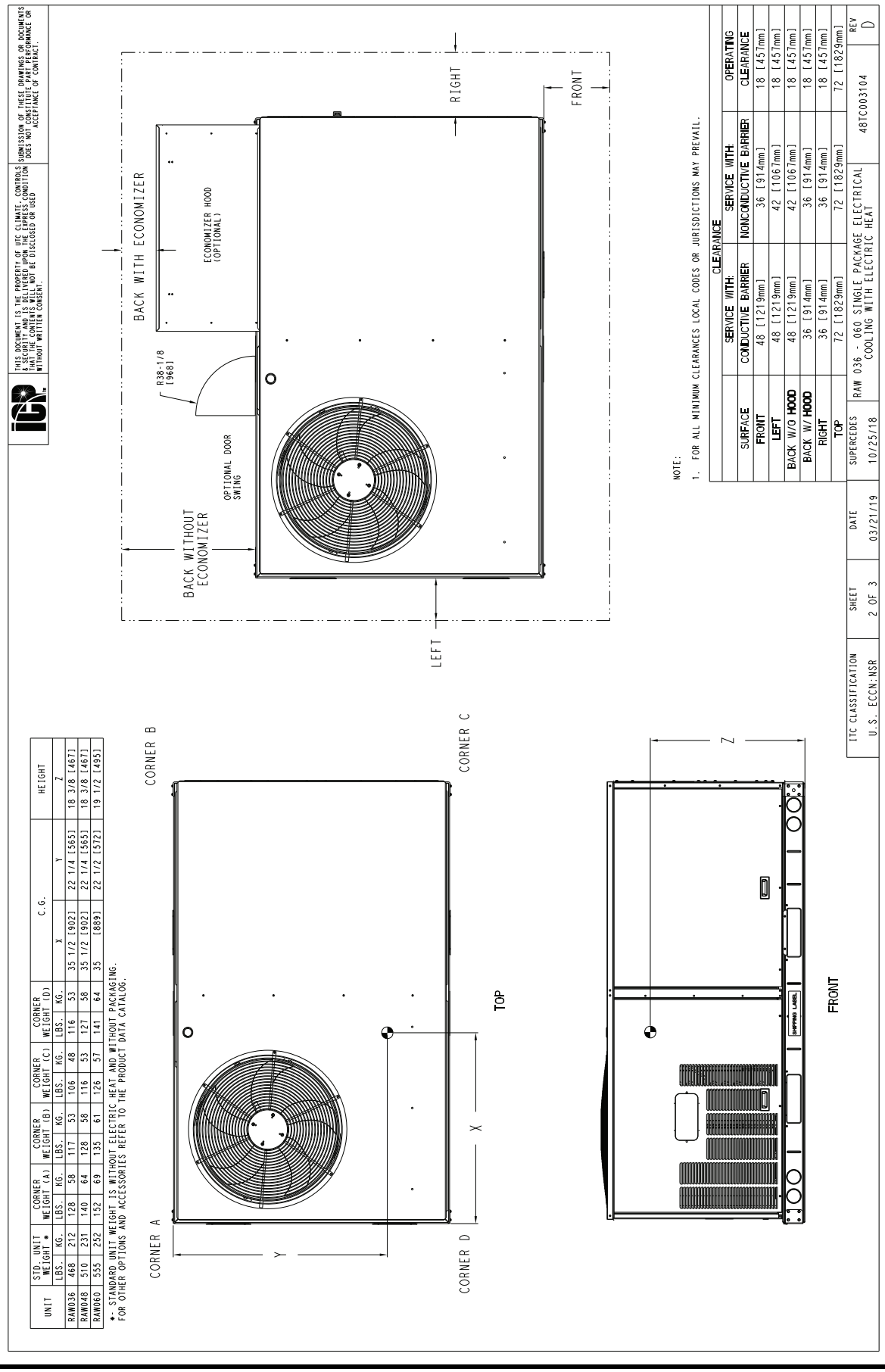


Base unit dimensions (cont)

RAW036-060 BASE UNIT DIMENSIONS (cont)

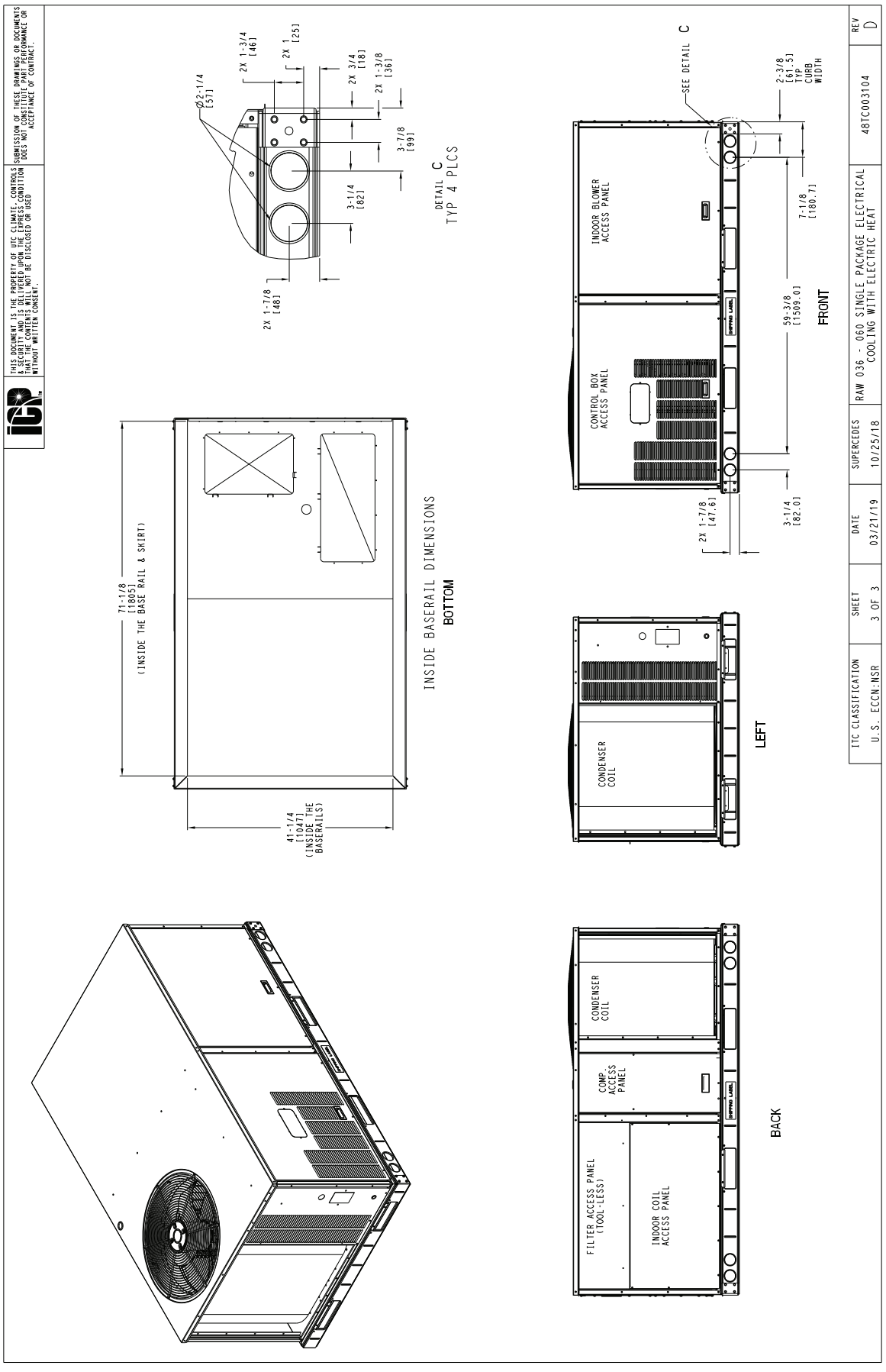
UNIT	STD. UNIT WEIGHT *		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		HEIGHT
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
RAW036	468	212	128	58	117	53	106	48	116	53	35 1/2 [902]	22 1/4 [565]	18 3/8 [467]
RAW048	510	231	140	64	128	58	116	53	127	58	35 1/2 [902]	22 1/4 [565]	18 3/8 [467]
RAW060	555	252	152	69	135	61	126	57	141	64	35 [889]	22 1/2 [572]	19 1/2 [495]

*- STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT AND WITHOUT PACKAGING.
FOR OTHER OPTIONS AND ACCESSORIES REFER TO THE PRODUCT DATA CATALOG.

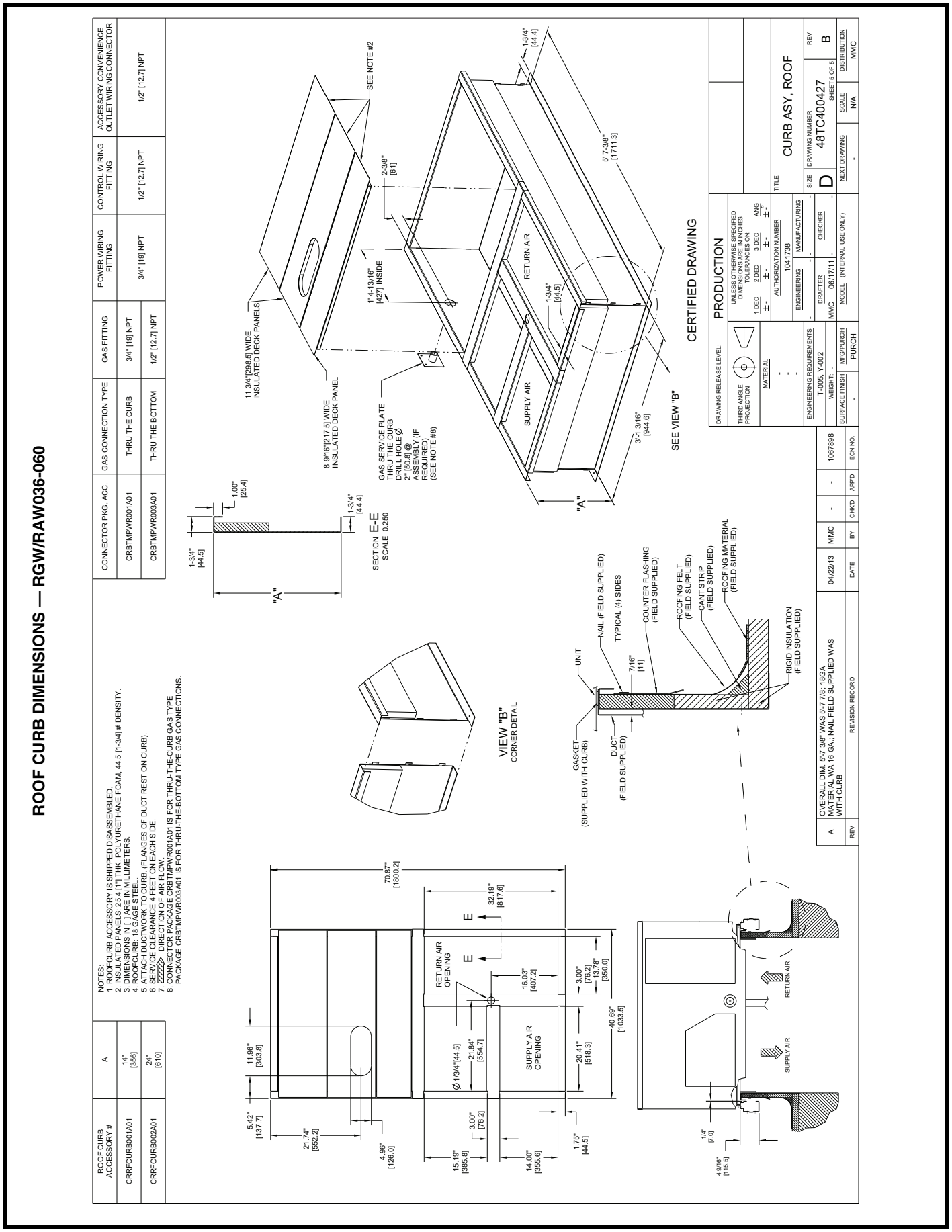


Base unit dimensions (cont)

RAW036-060 BASE UNIT DIMENSIONS (cont)



Accessory dimensions



Performance data

RGW/RAW036 HIGH STAGE COOLING CAPACITIES

RGW/RAW036				AMBIENT TEMPERATURE (F)												
				85			95			105			115			
				EAT (db)			EAT (db)			EAT (db)			EAT (db)			
				75	80	85	75	80	85	75	80	85	75	80	85	
900 Cfm	EAT (wb)	58	TC	29.3	29.3	33.4	27.3	27.3	31.3	25.2	25.2	29.1	23.0	23.0	26.6	
			SHC	25.1	29.3	33.4	23.3	27.3	31.3	21.4	25.2	29.1	19.3	23.0	26.6	
		62	TC	31.6	31.6	31.6	29.2	29.2	30.0	26.7	26.7	28.3	23.9	23.9	26.5	
			SHC	22.6	27.1	31.6	21.0	25.5	30.0	19.4	23.8	28.3	17.6	22.1	26.5	
		67	TC	35.5	35.5	35.5	33.0	33.0	33.0	30.3	30.3	30.3	27.3	27.3	27.3	
			SHC	18.7	23.2	27.7	17.1	21.6	26.1	15.5	20.0	24.4	13.8	18.2	22.7	
		72	TC	39.6	39.6	39.6	36.9	36.9	36.9	34.0	34.0	34.0	30.9	30.9	30.9	
			SHC	14.7	19.2	23.8	13.1	17.6	22.2	11.5	16.0	20.5	9.8	14.3	18.8	
		76	TC	—	43.1	43.1	—	40.2	40.2	—	37.2	37.2	—	33.9	33.9	
			SHC	—	16.0	20.9	—	14.4	19.3	—	12.8	17.6	—	11.1	15.8	
1050 Cfm	EAT (wb)	58	TC	31.4	31.4	35.7	29.3	29.3	33.5	27.1	27.1	31.1	24.7	24.7	28.5	
			SHC	27.0	31.4	35.7	25.1	29.3	33.5	23.0	27.1	31.1	20.8	24.7	28.5	
		62	TC	32.9	32.9	34.9	30.4	30.4	33.3	27.8	27.8	31.5	25.2	25.2	28.8	
			SHC	24.7	29.8	34.9	23.0	28.2	33.3	21.3	26.4	31.5	19.1	24.0	28.8	
		67	TC	36.9	36.9	36.9	34.2	34.2	34.2	31.3	31.3	31.3	28.3	28.3	28.3	
			SHC	20.1	25.3	30.4	18.5	23.7	28.8	16.8	22.0	27.1	15.1	20.2	25.3	
		72	TC	41.0	41.0	41.0	38.2	38.2	38.2	35.2	35.2	35.2	31.9	31.9	31.9	
			SHC	15.4	20.6	25.8	13.8	19.0	24.2	12.1	17.3	22.5	10.4	15.6	20.7	
		76	TC	—	44.5	44.5	—	41.5	41.5	—	38.3	38.3	—	34.9	34.9	
			SHC	—	16.8	22.3	—	15.2	20.7	—	13.6	19.0	—	11.8	17.2	
1200 Cfm	EAT (wb)	58	TC	33.1	33.1	37.7	30.9	30.9	35.3	28.6	28.6	32.8	26.1	26.1	30.1	
			SHC	28.5	33.1	37.7	26.5	30.9	35.3	24.4	28.6	32.8	22.1	26.1	30.1	
		62	TC	34.0	34.0	38.0	31.4	31.4	36.2	29.4	29.4	31.6	26.8	26.8	29.2	
			SHC	26.6	32.3	38.0	24.8	30.5	36.2	21.8	26.7	31.6	19.8	24.5	29.2	
		67	TC	37.9	37.9	37.9	35.1	35.1	35.1	32.2	32.2	32.2	29.0	29.0	29.0	
			SHC	21.5	27.2	33.0	19.8	25.6	31.4	18.1	23.9	29.6	16.3	22.1	27.8	
		72	TC	42.1	42.1	42.1	39.1	39.1	39.1	36.0	36.0	36.0	32.7	32.7	32.7	
			SHC	16.1	21.9	27.8	14.4	20.3	26.1	12.7	18.6	24.4	11.0	16.8	22.6	
		76	TC	—	45.5	45.5	—	42.5	42.5	—	39.2	39.2	—	35.6	35.6	
			SHC	—	17.6	23.7	—	16.0	22.0	—	14.3	20.3	—	12.5	18.5	
1350 Cfm	EAT (wb)	58	TC	34.6	34.6	39.3	32.3	32.3	36.9	29.9	29.9	34.2	27.3	27.3	31.4	
			SHC	29.9	34.6	39.3	27.8	32.3	36.9	25.5	29.9	34.2	23.1	27.3	31.4	
		62	TC	35.3	35.3	38.8	33.0	33.0	36.2	30.5	30.5	33.4	27.3	27.3	32.8	
			SHC	27.4	33.1	38.8	25.2	30.7	36.2	23.0	28.2	33.4	21.8	27.3	32.8	
		67	TC	38.7	38.7	38.7	35.9	35.9	35.9	32.9	32.9	32.9	29.6	29.6	30.2	
			SHC	22.7	29.1	35.5	21.0	27.4	33.8	19.3	25.7	32.1	17.4	23.8	30.2	
		72	TC	42.9	42.9	42.9	39.9	39.9	39.9	36.7	36.7	36.7	33.2	33.2	33.2	
			SHC	16.7	23.1	29.6	15.0	21.4	27.9	13.3	19.7	26.1	11.5	17.9	24.3	
		76	TC	—	46.4	46.4	—	43.2	43.2	—	39.8	39.8	—	36.2	36.2	
			SHC	—	18.3	25.0	—	16.6	23.3	—	14.9	21.5	—	13.1	19.7	
1500 Cfm	EAT (wb)	58	TC	29.3	29.3	33.4	27.3	27.3	31.3	25.2	25.2	29.1	23.0	23.0	26.6	
			SHC	25.1	29.3	33.4	23.3	27.3	31.3	21.4	25.2	29.1	19.3	23.0	26.6	
		62	TC	31.6	31.6	31.6	29.2	29.2	30.0	26.7	26.7	28.3	23.9	23.9	26.5	
			SHC	22.6	27.1	31.6	21.0	25.5	30.0	19.4	23.8	28.3	17.6	22.1	26.5	
		67	TC	35.5	35.5	35.5	33.0	33.0	33.0	30.3	30.3	30.3	27.3	27.3	27.3	
			SHC	18.7	23.2	27.7	17.1	21.6	26.1	15.5	20.0	24.4	13.8	18.2	22.7	
		72	TC	39.6	39.6	39.6	36.9	36.9	36.9	34.0	34.0	34.0	30.9	30.9	30.9	
			SHC	14.7	19.2	23.8	13.1	17.6	22.2	11.5	16.0	20.5	9.8	14.3	18.8	
		76	TC	—	43.1	43.1	—	40.2	40.2	—	37.2	37.2	—	33.9	33.9	
			SHC	—	16.0	20.9	—	14.4	19.3	—	12.8	17.6	—	11.1	15.8	

LEGEND

— — Do Not Operate
CFM — Cubic Feet Per Minute (Supply Air)
EAT (db) — Entering Air Temperature (dry bulb)
EAT (wb) — Entering Air Temperature (wet bulb)
SHC — Sensible Heat Capacity (1000 Btuh) Gross
TC — Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 6.

Performance data (cont)

RGW/RAW036 LOW STAGE COOLING CAPACITIES

RGW/RAW036				AMBIENT TEMPERATURE (F)											
				85			95			105			115		
				EAT (db)			EAT (db)			EAT (db)			EAT (db)		
				75	80	85	75	80	85	75	80	85	75	80	85
600 Cfm	EAT (wb)	58	TC	20.8	20.8	23.6	19.7	19.7	22.4	18.5	18.5	21.1	17.3	17.3	19.7
			SHC	18.1	20.8	23.6	17.1	19.7	22.4	16.0	18.5	21.1	14.9	17.3	19.7
		62	TC	22.3	22.3	22.5	20.9	20.9	21.7	19.4	19.4	20.8	17.7	17.7	19.9
			SHC	16.4	19.4	22.5	15.6	18.6	21.7	14.8	17.8	20.8	13.9	16.9	19.9
		67	TC	25.0	25.0	25.0	23.5	23.5	23.5	21.9	21.9	21.9	20.1	20.1	20.1
			SHC	13.7	16.7	19.8	12.9	16.0	19.0	12.1	15.1	18.2	11.2	14.3	17.3
		72	TC	27.9	27.9	27.9	26.3	26.3	26.3	24.6	24.6	24.6	22.7	22.7	22.7
			SHC	10.9	14.0	17.1	10.1	13.2	16.3	9.3	12.4	15.5	8.5	11.5	14.6
		76	TC	—	30.4	30.4	—	28.8	28.8	—	26.9	26.9	—	24.9	24.9
			SHC	—	11.7	15.0	—	11.0	14.2	—	10.2	13.4	—	9.3	12.5
700 Cfm	EAT (wb)	58	TC	22.2	22.2	25.2	21.0	21.0	23.9	19.8	19.8	22.5	18.4	18.4	21.0
			SHC	19.3	22.2	25.2	18.2	21.0	23.9	17.1	19.8	22.5	15.9	18.4	21.0
		62	TC	23.2	23.2	24.8	21.7	21.7	23.9	20.1	20.1	23.0	18.9	18.9	20.4
			SHC	17.8	21.3	24.8	17.0	20.4	23.9	16.1	19.5	23.0	14.4	17.4	20.4
		67	TC	25.9	25.9	25.9	24.3	24.3	24.3	22.7	22.7	22.7	20.8	20.8	20.8
			SHC	14.7	18.1	21.6	13.8	17.3	20.8	13.0	16.5	20.0	12.1	15.6	19.1
		72	TC	28.9	28.9	28.9	27.2	27.2	27.2	25.4	25.4	25.4	23.4	23.4	23.4
			SHC	11.4	14.9	18.5	10.6	14.1	17.7	9.8	13.3	16.8	8.9	12.4	15.9
		76	TC	—	31.5	31.5	—	29.7	29.7	—	27.8	27.8	—	25.7	25.7
			SHC	—	12.3	16.0	—	11.5	15.2	—	10.7	14.3	—	9.8	13.4
800 Cfm	EAT (wb)	58	TC	23.4	23.4	26.5	22.2	22.2	25.1	20.8	20.8	23.6	19.4	19.4	22.1
			SHC	20.3	23.4	26.5	19.2	22.2	25.1	18.0	20.8	23.6	16.8	19.4	22.1
		62	TC	23.9	23.9	26.8	22.7	22.7	24.6	21.3	21.3	23.2	19.4	19.4	23.0
			SHC	19.1	22.9	26.8	17.6	21.1	24.6	16.4	19.8	23.2	15.9	19.4	23.0
		67	TC	26.7	26.7	26.7	25.0	25.0	25.0	23.3	23.3	23.3	21.3	21.3	21.3
			SHC	15.5	19.5	23.4	14.7	18.6	22.6	13.8	17.8	21.7	12.9	16.9	20.8
		72	TC	29.7	29.7	29.7	28.0	28.0	28.0	26.1	26.1	26.1	24.0	24.0	24.0
			SHC	11.8	15.8	19.8	11.0	15.0	19.0	10.2	14.1	18.1	9.3	13.2	17.2
		76	TC	—	32.3	32.3	—	30.5	30.5	—	28.4	28.4	—	26.3	26.3
			SHC	—	12.8	16.9	—	12.0	16.1	—	11.2	15.2	—	10.3	14.3
900 Cfm	EAT (wb)	58	TC	24.4	24.4	27.6	23.1	23.1	26.2	21.7	21.7	24.7	20.2	20.2	23.0
			SHC	21.2	24.4	27.6	20.1	23.1	26.2	18.8	21.7	24.7	17.5	20.2	23.0
		62	TC	25.0	25.0	26.8	23.6	23.6	25.4	21.8	21.8	25.7	20.2	20.2	23.9
			SHC	19.3	23.1	26.8	18.2	21.8	25.4	17.9	21.8	25.7	16.6	20.2	23.9
		67	TC	27.3	27.3	27.3	25.6	25.6	25.6	23.7	23.7	23.7	21.8	21.8	22.5
			SHC	16.3	20.7	25.1	15.5	19.9	24.3	14.6	19.0	23.4	13.7	18.1	22.5
		72	TC	30.3	30.3	30.3	28.5	28.5	28.5	26.6	26.6	26.6	24.5	24.5	24.5
			SHC	12.2	16.6	21.0	11.4	15.8	20.2	10.5	14.9	19.3	9.6	14.0	18.4
		76	TC	—	33.0	33.0	—	31.1	31.1	—	29.0	29.0	—	26.7	26.7
			SHC	—	13.3	17.8	—	12.5	17.0	—	11.6	16.1	—	10.7	15.2
1000 Cfm	EAT (wb)	58	TC	25.3	25.3	28.6	24.0	24.0	27.1	22.5	22.5	25.5	20.9	20.9	23.8
			SHC	22.0	25.3	28.6	20.8	24.0	27.1	19.5	22.5	25.5	18.1	20.9	23.8
		62	TC	25.8	25.8	27.8	24.0	24.0	28.2	22.5	22.5	26.6	21.0	21.0	24.7
			SHC	20.0	23.9	27.8	19.8	24.0	28.2	18.5	22.5	26.6	17.2	21.0	24.7
		67	TC	27.7	27.7	27.7	26.0	26.0	26.0	24.1	24.1	25.0	22.1	22.1	24.0
			SHC	17.1	21.9	26.7	16.3	21.1	25.9	15.4	20.2	25.0	14.4	19.2	24.0
		72	TC	30.8	30.8	30.8	29.0	29.0	29.0	27.0	27.0	27.0	24.8	24.8	24.8
			SHC	12.6	17.4	22.2	11.7	16.6	21.4	10.9	15.7	20.5	10.0	14.8	19.6
		76	TC	—	33.5	33.5	—	31.5	31.5	—	29.4	29.4	—	27.1	27.1
			SHC	—	13.7	18.7	—	12.9	17.8	—	12.0.	16.9	—	11.1	16.0

LEGEND

— — Do Not Operate
CFM — Cubic Feet Per Minute (Supply Air)
EAT (db) — Entering Air Temperature (dry bulb)
EAT (wb) — Entering Air Temperature (wet bulb)
SHC — Sensible Heat Capacity (1000 Btuh) Gross
TC — Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 6.

Performance data (cont)

RGW/RAW036**G — UNIT WITH HOT GAS RE-HEAT SYSTEM IN SUBCOOLING MODE — COOLING CAPACITIES

TEMP (F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR — SCFM/BF								
		900 / 0.01			1200 / 0.02			1500 / 0.04		
		Air Entering Evaporator — Ewb (F)								
		72	67	62	72	67	62	72	67	62
75	TC	44.4	40.1	36.3	46.8	42.7	38.9	48.6	44.1	40.6
	SHC	19.7	24.4	29.1	22.5	28.9	35.1	25.3	32.8	40.2
	kW	2.02	1.97	1.93	1.96	2.00	2.05	2.08	2.02	1.98
85	TC	41.9	37.9	34.2	44.4	40.3	36.7	45.8	41.7	38.4
	SHC	17.5	22.3	27.2	20.3	26.6	33.0	22.8	30.6	38.0
	kW	2.28	2.23	2.19	2.22	2.26	2.31	2.33	2.28	2.24
95	TC	39.4	35.6	32.1	41.6	37.8	34.3	43.0	39.1	36.0
	SHC	15.1	20.2	25.3	17.7	24.4	30.9	20.1	28.2	35.7
	kW	2.56	2.51	2.47	2.50	2.54	2.60	2.62	2.56	2.52
105	TC	36.6	33.1	29.9	38.7	35.1	31.9	40.0	36.3	33.4
	SHC	12.6	18.0	23.3	15.1	21.9	28.7	17.4	25.7	33.4
	kW	2.88	2.83	2.79	2.82	2.86	2.91	2.93	2.88	2.84
115	TC	33.7	30.4	27.4	35.6	32.3	29.2	36.8	33.3	30.7
	SHC	10.0	15.6	21.1	12.3	19.4	26.3	14.5	23.0	30.7
	kW	3.23	3.19	3.15	3.17	3.21	3.26	3.28	3.23	3.19
125	TC	30.6	27.5	24.8	32.3	29.2	26.4	33.3	30.2	27.8
	SHC	7.3	13.1	18.8	9.3	16.7	23.8	11.4	20.2	27.8
	kW	3.62	3.59	3.56	3.57	3.60	3.65	3.66	3.62	3.59

RGW/RAW036**G — UNIT WITH HOT GAS RE-HEAT SYSTEM IN HOT GAS REHEAT MODE — COOLING CAPACITIES

TEMP (F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR — Ewb (F)								
		75 Dry Bulb 62.5 Wet Bulb (50% Relative)			75 Dry Bulb 64 Wet Bulb (56% Relative)			75 Dry Bulb 65.3 Wet Bulb (60% Relative)		
		Air Entering Evaporator — Cfm								
		900	1200	1500	900	1200	1500	900	1200	1500
80	TC	13.33	13.89	14.37	13.49	13.96	14.41	13.65	14.37	14.82
	SHC	4.13	5.35	6.60	2.60	3.51	4.55	1.28	2.23	3.10
	kW	1.94	2.01	2.02	2.04	2.13	2.15	2.12	2.14	2.16
75	TC	13.45	14.19	14.65	13.91	14.65	15.12	14.33	15.08	15.55
	SHC	4.25	5.64	6.87	3.01	4.17	5.22	1.94	2.91	3.80
	kW	1.98	2.00	2.01	1.99	2.01	2.02	2.00	2.02	2.03
70	TC	13.77	14.63	15.09	14.22	14.95	15.72	14.91	15.67	16.29
	SHC	4.55	6.05	7.29	3.30	4.45	5.80	2.51	3.49	4.52
	kW	1.96	1.94	1.96	1.97	2.00	1.94	1.91	1.94	1.92
60	TC	14.28	14.98	15.69	14.72	15.70	16.16	15.11	15.81	16.57
	SHC	5.03	6.39	7.87	3.77	5.18	6.22	2.68	3.61	4.78
	kW	1.93	1.96	1.92	1.95	1.92	1.94	1.97	2.00	1.96
50	TC	14.43	15.06	15.98	14.83	15.98	16.41	15.19	16.37	16.79
	SHC	5.18	6.47	8.14	3.88	5.44	6.46	2.75	4.14	4.99
	kW	1.98	2.03	1.94	2.01	1.94	1.97	2.03	1.96	1.99
40	TC	14.34	15.70	16.08	15.47	16.44	16.48	15.82	16.81	17.22
	SHC	5.10	7.08	8.24	4.49	5.88	6.52	3.35	4.57	5.40
	kW	2.07	1.95	1.99	1.93	1.91	2.02	1.96	1.94	1.97

LEGEND

EDB — Entering Dry Bulb
EWB — Entering Wet Bulb
KW — Compressor Power Input
SCFM/BF — Standard Cubic Feet per Minute/Bypass Factor
SHC — Sensible Heat Capacity (1000 Btuh) Gross
TC — Total Capacity (1000 Btuh) Gross

Performance data (cont)

RGW/RAW048 HIGH STAGE COOLING CAPACITIES

RGW/RAW048				AMBIENT TEMPERATURE (F)											
				85			95			105			115		
				EAT (db)			EAT (db)			EAT (db)			EAT (db)		
				75	80	85	75	80	85	75	80	85	75	80	85
1200 Cfm	EAT (wb)	58	TC	42.6	42.6	48.4	40.2	40.2	45.8	37.6	37.6	43.0	35.0	35.0	40.1
			SHC	36.8	42.6	48.4	34.6	40.2	45.8	32.3	37.6	43.0	30.0	35.0	40.1
		62	TC	45.7	45.7	45.7	42.6	42.6	43.6	39.5	39.5	41.7	36.3	36.3	39.8
			SHC	33.0	39.2	45.4	31.2	37.4	43.6	29.3	35.5	41.7	27.5	33.6	39.8
		67	TC	50.5	50.5	50.5	47.3	47.3	47.3	44.0	44.0	44.0	40.6	40.6	40.6
			SHC	27.3	33.5	39.7	25.5	31.7	37.9	23.7	29.9	36.1	21.8	28.0	34.2
		72	TC	55.7	55.7	55.7	52.3	52.3	52.3	48.7	48.7	48.7	45.1	45.1	45.1
			SHC	21.3	27.6	33.9	19.6	25.8	32.1	17.8	24.0	30.3	16.0	22.2	28.4
		76	TC	—	60.0	60.0	—	56.4	56.4	—	52.6	52.6	—	48.8	48.8
			SHC	—	22.8	29.4	—	21.1	27.7	—	19.3	25.8	—	17.5	24.0
1400 Cfm	EAT (wb)	58	TC	45.3	45.3	51.4	42.7	42.7	48.6	40.0	40.0	45.6	37.2	37.2	42.6
			SHC	39.2	45.3	51.4	36.9	42.7	48.6	34.4	40.0	45.6	31.9	37.2	42.6
		62	TC	47.3	47.3	50.1	44.1	44.1	48.1	40.9	40.9	46.1	37.6	37.6	43.9
			SHC	35.8	43.0	50.1	33.9	41.0	48.1	32.0	39.0	46.1	29.9	36.9	43.9
		67	TC	52.2	52.2	52.2	48.8	48.8	48.8	45.3	45.3	45.3	41.8	41.8	41.8
			SHC	29.2	36.3	43.5	27.3	34.5	41.6	25.4	32.6	39.7	23.6	30.7	37.8
		72	TC	57.4	57.4	57.4	53.8	53.8	53.8	50.1	50.1	50.1	46.3	46.3	46.3
			SHC	22.2	29.4	36.7	20.4	27.6	34.8	18.6	25.8	33.0	16.7	23.9	31.1
		76	TC	—	61.6	61.6	—	57.9	57.9	—	54.0	54.0	—	50.0	50.0
			SHC	—	23.9	31.4	—	22.1	29.6	—	20.3	27.7	—	18.4	25.8
1600 Cfm	EAT (wb)	58	TC	47.6	47.6	54.0	44.8	44.8	50.9	42.0	42.0	47.8	39.0	39.0	44.6
			SHC	41.2	47.6	54.0	38.7	44.8	50.9	36.1	42.0	47.8	33.5	39.0	44.6
		62	TC	48.6	48.6	54.3	45.4	45.4	52.2	42.4	42.4	48.5	39.8	39.8	43.7
			SHC	38.4	46.3	54.3	36.4	44.3	52.2	33.6	41.1	48.5	30.4	37.1	43.7
		67	TC	53.5	53.5	53.5	50.0	50.0	50.0	46.3	46.3	46.3	42.7	42.7	42.7
			SHC	30.9	38.9	47.0	29.0	37.1	45.1	27.1	35.1	43.2	25.2	33.2	41.3
		72	TC	58.6	58.6	58.6	54.9	54.9	54.9	51.1	51.1	51.1	47.2	47.2	47.2
			SHC	23.0	31.1	39.2	21.2	29.3	37.4	19.3	27.4	35.5	17.4	25.5	33.6
		76	TC	—	62.9	62.9	—	59.0	59.0	—	55.0	55.0	—	51.0	51.0
			SHC	—	24.8	33.2	—	23.0	31.3	—	21.1	29.4	—	19.3	27.5
1800 Cfm	EAT (wb)	58	TC	49.5	49.5	56.1	46.6	46.6	52.9	43.6	43.6	49.6	40.5	40.5	46.3
			SHC	42.9	49.5	56.1	40.3	46.6	52.9	37.6	43.6	49.6	34.8	40.5	46.3
		62	TC	50.1	50.1	56.5	47.5	47.5	51.7	43.7	43.7	51.7	40.6	40.6	48.2
			SHC	39.9	48.2	56.5	36.7	44.2	51.7	35.6	43.7	51.7	32.9	40.6	48.2
		67	TC	54.4	54.4	54.4	50.8	50.8	50.8	47.1	47.1	47.1	43.4	43.4	44.6
			SHC	32.5	41.4	50.4	30.6	39.5	48.5	28.7	37.6	46.5	26.7	35.6	44.6
		72	TC	59.6	59.6	59.6	55.8	55.8	55.8	51.9	51.9	51.9	47.9	47.9	47.9
			SHC	23.7	32.7	41.7	21.9	30.8	39.8	20.0	28.9	37.9	18.1	27.0	36.0
		76	TC	—	63.9	63.9	—	59.9	59.9	—	55.8	55.8	—	51.7	51.7
			SHC	—	25.7	34.9	—	23.8	33.0	—	22.0	31.1	—	20.1	29.2
2000 Cfm	EAT (wb)	58	TC	51.1	51.1	57.9	48.1	48.1	54.6	45.0	45.0	51.2	41.8	41.8	47.7
			SHC	44.3	51.1	57.9	41.6	48.1	54.6	38.8	45.0	51.2	36.0	41.8	47.7
		62	TC	52.0	52.0	56.4	48.1	48.1	56.8	45.0	45.0	53.3	41.9	41.9	49.7
			SHC	40.3	48.3	56.4	39.5	48.1	56.8	36.8	45.0	53.3	34.0	41.9	49.7
		67	TC	55.2	55.2	55.2	51.5	51.5	51.7	47.8	47.8	49.7	43.9	43.9	47.7
			SHC	34.0	43.8	53.7	32.1	41.9	51.7	30.1	39.9	49.7	28.1	37.9	47.7
		72	TC	60.4	60.4	60.4	56.5	56.5	56.5	52.5	52.5	52.5	48.5	48.5	48.5
			SHC	24.3	34.2	44.1	22.5	32.3	42.2	20.6	30.4	40.2	18.7	28.5	38.3
		76	TC	—	64.7	64.7	—	60.6	60.6	—	56.5	56.5	—	52.3	52.3
			SHC	—	26.5	36.5	—	24.6	34.6	—	22.7	32.7	—	20.8	30.7

LEGEND

— — Do Not Operate
CFM — Cubic Feet Per Minute (Supply Air)
EAT (db) — Entering Air Temperature (dry bulb)
EAT (wb) — Entering Air Temperature (wet bulb)
SHC — Sensible Heat Capacity (1000 Btuh) Gross
TC — Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 6.

Performance data (cont)

RGW/RAW048 LOW STAGE COOLING CAPACITIES

RGW/RAW048				AMBIENT TEMPERATURE (F)												
				85			95			105			115			
				EAT (db)			EAT (db)			EAT (db)			EAT (db)			
				75	80	85	75	80	85	75	80	85	75	80	85	
900 Cfm	EAT (wb)	58	TC	30.3	30.3	34.3	28.5	28.5	32.4	26.6	26.6	30.2	24.5	24.5	27.9	
			SHC	26.2	30.3	34.3	24.6	28.5	32.4	22.9	26.6	30.2	21.0	24.5	27.9	
		62	TC	31.9	31.9	33.1	29.7	29.7	31.8	27.3	27.3	30.4	24.7	24.7	28.8	
			SHC	23.9	28.5	33.1	22.6	27.2	31.8	21.3	25.8	30.4	19.8	24.3	28.8	
		67	TC	35.6	35.6	35.6	33.2	33.2	33.2	30.7	30.7	30.7	28.0	28.0	28.0	
			SHC	19.7	24.3	28.9	18.5	23.1	27.7	17.2	21.8	26.4	15.8	20.4	25.0	
		72	TC	39.5	39.5	39.5	37.1	37.1	37.1	34.4	34.4	34.4	31.5	31.5	31.5	
			SHC	15.4	20.0	24.7	14.2	18.8	23.5	12.9	17.6	22.2	11.6	16.2	20.9	
		76	TC	—	42.9	42.9	—	40.4	40.4	—	37.6	37.6	—	34.6	34.6	
			SHC	—	16.6	21.5	—	15.4	20.3	—	14.2	19.0	—	12.9	17.6	
1050 Cfm	EAT (wb)	58	TC	32.2	32.2	36.4	30.3	30.3	34.4	28.2	28.2	32.1	26.0	26.0	29.7	
			SHC	27.9	32.2	36.4	26.2	30.3	34.4	24.4	28.2	32.1	22.4	26.0	29.7	
		62	TC	33.1	33.1	36.4	30.8	30.8	35.0	28.9	28.9	31.6	26.1	26.1	30.9	
			SHC	25.9	31.2	36.4	24.6	29.8	35.0	22.3	27.0	31.6	21.2	26.1	30.9	
		67	TC	36.8	36.8	36.8	34.3	34.3	34.3	31.7	31.7	31.7	28.8	28.8	28.8	
			SHC	21.1	26.4	31.7	19.8	25.1	30.4	18.5	23.8	29.1	17.1	22.4	27.7	
		72	TC	40.8	40.8	40.8	38.2	38.2	38.2	35.4	35.4	35.4	32.4	32.4	32.4	
			SHC	16.0	21.4	26.7	14.8	20.2	25.5	13.6	18.9	24.2	12.2	17.5	22.8	
		76	TC	—	44.2	44.2	—	41.6	41.6	—	38.6	38.6	—	35.5	35.5	
			SHC	—	17.4	23.0	—	16.2	21.7	—	14.9	20.4	—	13.6	19.0	
1200 Cfm	EAT (wb)	58	TC	33.7	33.7	38.2	31.8	31.8	36.0	29.6	29.6	33.7	27.3	27.3	31.1	
			SHC	29.3	33.7	38.2	27.5	31.8	36.0	25.6	29.6	33.7	23.5	27.3	31.1	
		62	TC	34.5	34.5	37.7	32.3	32.3	36.0	29.7	29.7	35.1	27.4	27.4	32.4	
			SHC	26.9	32.3	37.7	25.4	30.7	36.0	24.3	29.7	35.1	22.3	27.4	32.4	
		67	TC	37.7	37.7	37.7	35.2	35.2	35.2	32.4	32.4	32.4	29.5	29.5	30.2	
			SHC	22.3	28.3	34.3	21.1	27.0	33.0	19.7	25.7	31.7	18.3	24.3	30.2	
		72	TC	41.8	41.8	41.8	39.1	39.1	39.1	36.2	36.2	36.2	33.2	33.2	33.2	
			SHC	16.6	22.7	28.7	15.4	21.4	27.4	14.1	20.1	26.1	12.7	18.7	24.7	
		76	TC	—	45.2	45.2	—	42.5	42.5	—	39.5	39.5	—	36.2	36.2	
			SHC	—	18.1	24.3	—	16.9	23.0	—	15.6	21.7	—	14.2	20.3	
1350 Cfm	EAT (wb)	58	TC	35.1	35.1	39.7	33.0	33.0	37.5	30.8	30.8	35.0	28.4	28.4	32.3	
			SHC	30.5	35.1	39.7	28.6	33.0	37.5	26.6	30.8	35.0	24.5	28.4	32.3	
		62	TC	35.7	35.7	39.3	33.1	33.1	39.0	30.8	30.8	36.4	28.4	28.4	33.7	
			SHC	28.0	33.6	39.3	27.2	33.1	39.0	25.3	30.8	36.4	23.2	28.4	33.7	
		67	TC	38.4	38.4	38.4	35.8	35.8	35.8	33.0	33.0	34.1	30.0	30.0	32.6	
			SHC	23.5	30.2	36.8	22.3	28.9	35.5	20.9	27.5	34.1	19.4	26.0	32.6	
		72	TC	42.5	42.5	42.5	39.8	39.8	39.8	36.9	36.9	36.9	33.7	33.7	33.7	
			SHC	17.2	23.8	30.5	15.9	22.6	29.2	14.6	21.3	27.9	13.2	19.8	26.5	
		76	TC	—	46.0	46.0	—	43.2	43.2	—	40.1	40.1	—	36.8	36.8	
			SHC	—	18.7	25.6	—	17.5	24.3	—	16.2	22.9	—	14.8	21.5	
1500 Cfm	EAT (wb)	58	TC	36.3	36.3	41.0	34.1	34.1	38.7	31.8	31.8	36.1	29.4	29.4	33.4	
			SHC	31.5	36.3	41.0	29.6	34.1	38.7	27.5	31.8	36.1	25.3	29.4	33.4	
		62	TC	36.3	36.3	42.7	34.2	34.2	40.2	31.9	31.9	37.6	29.4	29.4	34.8	
			SHC	29.9	36.3	42.7	28.1	34.2	40.2	26.1	31.9	37.6	24.0	29.4	34.8	
		67	TC	39.0	39.0	39.3	36.3	36.3	37.9	33.5	33.5	36.5	30.4	30.4	34.9	
			SHC	24.7	32.0	39.3	23.4	30.6	37.9	22.0	29.2	36.5	20.5	27.7	34.9	
		72	TC	43.1	43.1	43.1	40.4	40.4	40.4	37.4	37.4	37.4	34.2	34.2	34.2	
			SHC	17.7	25.0	32.3	16.4	23.7	31.0	15.1	22.4	29.6	13.7	20.9	28.2	
		76	TC	—	46.7	46.7	—	43.8	43.8	—	40.7	40.7	—	37.3	37.3	
			SHC	—	19.4	26.8	—	18.1	25.5	—	16.8	24.1	—	15.4	22.6	

LEGEND

— — Do Not Operate
CFM — Cubic Feet Per Minute (Supply Air)
EAT (db) — Entering Air Temperature (dry bulb)
EAT (wb) — Entering Air Temperature (wet bulb)
SHC — Sensible Heat Capacity (1000 Btuh) Gross
TC — Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 6.

Performance data (cont)

RGW/RAW048**G — UNIT WITH HOT GAS RE-HEAT SYSTEM IN SUBCOOLING MODE — COOLING CAPACITIES

TEMP (F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR — SCFM/BF								
		1200 / 0.04			1600 / 0.07			2000 / 0.10		
		Air Entering Evaporator — Ewb (F)								
		72	67	62	72	67	62	72	67	62
75	TC	35.1	36.7	40.7	40.2	42.8	40.6	43.9	41.8	35.3
	SHC	16.2	21.3	31.2	31.0	24.0	16.7	15.9	22.1	26.6
	kW	3.06	3.07	3.06	3.44	3.43	3.41	3.84	3.82	3.72
85	TC	43.0	36.4	29.3	22.6	29.8	37.5	30.7	22.9	15.5
	SHC	12.9	17.4	21.3	15.4	11.6	7.7	2.0	5.7	9.1
	kW	4.28	4.20	4.05	4.77	4.57	4.42	5.17	4.99	4.81
95	TC	34.2	34.6	35.3	42.4	40.0	37.4	42.0	43.4	38.9
	SHC	16.1	20.7	27.4	36.3	23.6	16.1	16.2	25.8	33.9
	kW	3.25	3.25	3.24	3.63	3.63	3.61	4.04	4.02	4.00
105	TC	43.6	39.9	33.0	26.0	33.3	40.6	33.9	25.9	18.4
	SHC	14.9	22.7	28.6	22.4	17.0	11.0	5.0	10.5	15.7
	kW	4.49	4.47	4.32	4.99	4.87	4.69	5.50	5.28	5.09
115	TC	32.9	33.2	37.9	39.4	36.9	35.1	39.9	41.6	40.9
	SHC	15.4	20.1	30.9	34.4	22.1	15.1	15.7	25.9	39.2
	kW	3.53	3.51	3.46	3.89	3.89	3.88	4.31	4.30	4.26
125	TC	42.2	41.3	35.3	28.2	35.0	41.1	35.3	27.3	20.7
	SHC	15.2	26.5	34.3	27.8	21.3	12.8	7.3	14.6	20.7
	kW	4.78	4.75	4.65	5.28	5.24	5.00	5.83	5.63	5.41

RGW/RAW048**G — UNIT WITH HOT GAS RE-HEAT SYSTEM IN HOT GAS REHEAT MODE — COOLING CAPACITIES

TEMP (F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR — Ewb (F)								
		75 Dry Bulb 62.5 Wet Bulb (50% Relative)			75 Dry Bulb 64 Wet Bulb (56% Relative)			75 Dry Bulb 65.3 Wet Bulb (60% Relative)		
		Air Entering Evaporator — Cfm								
		1200	1600	2000	1200	1600	2000	1200	1600	2000
80	TC	14.91	15.96	16.62	15.48	16.57	17.21	16.00	17.09	17.86
	SHC	0.62	3.49	6.59	-1.56	0.81	3.43	-3.47	-1.53	0.79
	kW	2.66	2.68	2.69	2.67	2.69	2.69	2.68	2.69	2.68
75	TC	15.50	16.97	17.72	16.37	17.57	18.34	16.92	18.22	18.92
	SHC	1.19	4.42	7.59	-0.73	1.74	4.45	-2.61	-0.48	1.76
	kW	2.62	2.54	2.54	2.56	2.55	2.55	2.56	2.55	2.56
70	TC	15.94	17.30	18.11	16.61	18.01	18.89	17.36	18.71	19.41
	SHC	1.61	4.75	7.98	-0.49	2.16	4.98	-2.18	-0.02	2.22
	kW	2.60	2.56	2.54	2.58	2.54	2.53	2.54	2.52	2.54
60	TC	16.09	17.02	17.79	16.60	18.52	18.74	17.99	19.02	19.64
	SHC	1.79	4.56	7.76	-0.45	2.68	4.92	-1.56	0.32	2.50
	kW	2.69	2.74	2.73	2.72	2.58	2.68	2.56	2.60	2.63
50	TC	17.25	18.16	18.69	17.75	18.67	19.21	18.20	19.12	20.32
	SHC	2.88	5.62	8.61	0.63	2.86	5.38	-1.34	0.45	3.16
	kW	2.57	2.63	2.66	2.60	2.66	2.69	2.63	2.69	2.62
40	TC	17.33	18.59	19.23	18.21	19.06	20.45	18.62	19.47	20.91
	SHC	2.99	6.05	7.91	1.08	3.25	6.54	-0.92	0.81	3.74
	kW	2.64	2.64	2.69	2.61	2.67	2.58	2.64	2.70	2.61

LEGEND

EDB — Entering Dry Bulb
EWB — Entering Wet Bulb
KW — Compressor Power Input
SCFM/BF — Standard Cubic Feet per Minute/Bypass Factor
SHC — Sensible Heat Capacity (1000 Btuh) Gross
TC — Total Capacity (1000 Btuh) Gross

Performance data (cont)

RGW/RAW060 HIGH STAGE COOLING CAPACITIES

RGW/RAW060				AMBIENT TEMPERATURE (F)											
				85			95			105			115		
				EAT (db)			EAT (db)			EAT (db)			EAT (db)		
				75	80	85	75	80	85	75	80	85	75	80	85
1500 Cfm	EAT (wb)	58	TC	54.4	54.4	61.6	51.9	51.9	58.8	49.1	49.1	55.8	46.1	46.1	52.4
			SHC	47.2	54.4	61.6	44.9	51.9	58.8	42.4	49.1	55.8	39.8	46.1	52.4
		62	TC	57.4	57.4	58.6	54.2	54.2	56.8	50.8	50.8	54.8	49.0	49.0	49.0
			SHC	42.6	50.6	58.6	40.8	48.8	56.8	38.9	46.9	54.8	34.0	40.0	46.0
		67	TC	63.3	63.3	63.3	59.9	59.9	59.9	56.2	56.2	56.2	52.1	52.1	52.1
			SHC	35.1	43.1	51.1	33.3	41.3	49.3	31.5	39.4	47.4	29.5	37.5	45.4
		72	TC	69.6	69.6	69.6	66.0	66.0	66.0	62.0	62.0	62.0	57.7	57.7	57.7
			SHC	27.4	35.4	43.5	25.6	33.6	41.7	23.8	31.8	39.8	21.8	29.8	37.9
		76	TC	—	75.1	75.1	—	71.2	71.2	—	67.0	67.0	—	62.4	62.4
			SHC	—	29.1	37.4	—	27.4	35.7	—	25.6	33.8	—	23.7	31.9
1750 Cfm	EAT (wb)	58	TC	57.6	57.6	65.2	54.9	54.9	62.2	52.0	52.0	59.0	48.7	48.7	55.4
			SHC	50.0	57.6	65.2	47.6	54.9	62.2	45.0	52.0	59.0	42.1	48.7	55.4
		62	TC	59.3	59.3	64.6	58.1	58.1	58.1	54.9	54.9	54.9	49.7	49.7	54.7
			SHC	46.2	55.4	64.6	40.6	47.4	54.2	38.3	44.9	51.4	38.6	46.7	54.7
		67	TC	65.2	65.2	65.2	61.6	61.6	61.6	57.8	57.8	57.8	53.6	53.6	53.6
			SHC	37.5	46.7	56.0	35.7	44.9	54.2	33.7	43.0	52.2	31.7	41.0	50.2
		72	TC	71.7	71.7	71.7	67.8	67.8	67.8	63.7	63.7	63.7	59.1	59.1	59.1
			SHC	28.5	37.8	47.1	26.7	36.0	45.3	24.8	34.1	43.4	22.8	32.1	41.4
		76	TC	—	77.2	77.2	—	73.1	73.1	—	68.7	68.7	—	63.9	63.9
			SHC	—	30.5	40.1	—	28.7	38.3	—	26.9	36.3	—	24.9	34.3
2000 Cfm	EAT (wb)	58	TC	60.4	60.4	68.3	57.5	57.5	65.1	54.3	54.3	61.6	50.9	50.9	57.8
			SHC	52.4	60.4	68.3	49.8	57.5	65.1	47.1	54.3	61.6	44.0	50.9	57.8
		62	TC	63.4	63.4	63.4	59.9	59.9	59.9	54.4	54.4	64.1	51.0	51.0	60.2
			SHC	44.8	52.2	59.6	43.4	51.2	59.0	44.7	54.4	64.1	41.7	51.0	60.2
		67	TC	66.7	66.7	66.7	63.0	63.0	63.0	59.0	59.0	59.0	54.6	54.6	54.7
			SHC	39.7	50.2	60.7	37.8	48.3	58.8	35.9	46.4	56.8	33.8	44.3	54.7
		72	TC	73.3	73.3	73.3	69.3	69.3	69.3	64.9	64.9	64.9	60.3	60.3	60.3
			SHC	29.4	40.0	50.5	27.6	38.2	48.7	25.7	36.2	46.7	23.7	34.2	44.7
		76	TC	—	78.8	78.8	—	74.6	74.6	—	70.0	70.0	—	65.0	65.0
			SHC	—	31.8	42.5	—	29.9	40.6	—	28.0	38.7	—	26.0	36.6
2250 Cfm	EAT (wb)	58	TC	62.7	62.7	70.9	59.6	59.6	67.5	56.3	56.3	63.9	52.7	52.7	59.9
			SHC	54.5	62.7	70.9	51.7	59.6	67.5	48.8	56.3	63.9	45.6	52.7	59.9
		62	TC	63.8	63.8	69.8	59.7	59.7	70.2	56.4	56.4	66.4	52.8	52.8	62.3
			SHC	50.0	59.9	69.8	49.2	59.7	70.2	46.3	56.4	66.4	43.3	52.8	62.3
		67	TC	67.9	67.9	67.9	64.1	64.1	64.1	59.9	59.9	61.3	55.5	55.5	59.1
			SHC	41.8	53.5	65.2	39.9	51.6	63.3	37.9	49.6	61.3	35.8	47.5	59.1
		72	TC	74.5	74.5	74.5	70.4	70.4	70.4	65.9	65.9	65.9	61.2	61.2	61.2
			SHC	30.4	42.1	53.8	28.5	40.2	51.9	26.6	38.3	50.0	24.6	36.2	47.9
		76	TC	—	80.1	80.1	—	75.8	75.8	—	71.0	71.0	—	65.9	65.9
			SHC	—	32.9	44.8	—	31.1	42.9	—	29.1	40.9	—	27.0	38.7
2500 Cfm	EAT (wb)	58	TC	64.6	64.6	73.1	61.5	61.5	69.6	58.0	58.0	65.7	54.3	54.3	61.6
			SHC	56.2	64.6	73.1	53.4	61.5	69.6	50.3	58.0	65.7	47.0	54.3	61.6
		62	TC	64.7	64.7	75.9	61.5	61.5	72.3	58.1	58.1	68.4	54.3	54.3	64.1
			SHC	53.4	64.7	75.9	50.7	61.5	72.3	47.8	58.1	68.4	44.6	54.3	64.1
		67	TC	68.8	68.8	69.5	64.9	64.9	67.6	60.7	60.7	65.5	56.2	56.2	63.3
			SHC	43.8	56.7	69.5	41.9	54.7	67.6	39.9	52.7	65.5	37.8	50.5	63.3
		72	TC	75.5	75.5	75.5	71.3	71.3	71.3	66.7	66.7	66.7	61.9	61.9	61.9
			SHC	31.2	44.1	57.0	29.4	42.2	55.1	27.4	40.3	53.1	25.4	38.2	51.0
		76	TC	—	81.2	81.2	—	76.7	76.7	—	71.8	71.8	—	66.6	66.6
			SHC	—	34.0	47.0	—	32.1	45.0	—	30.1	42.9	—	28.0	40.7

LEGEND

— — Do Not Operate
CFM — Cubic Feet Per Minute (Supply Air)
EAT (DB) — Entering Air Temperature (dry bulb)
EAT (WB) — Entering Air Temperature (wet bulb)
SHC — Sensible Heat Capacity (1000 Btuh) Gross
TC — Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 6.

Performance data (cont)

RGW/RAW060 LOW STAGE COOLING CAPACITIES

RGW/RAW060				AMBIENT TEMPERATURE (F)											
				85			95			105			115		
				EAT (db)			EAT (db)			EAT (db)			EAT (db)		
				75	80	85	75	80	85	75	80	85	75	80	85
1000 Cfm	EAT (wb)	58	TC	35.3	35.3	40.2	32.8	32.8	37.5	30.1	30.1	34.5	27.3	27.3	31.4
			SHC	30.4	35.3	40.2	28.2	32.8	37.5	25.7	30.1	34.5	23.2	27.3	31.4
		62	TC	37.6	37.6	38.3	34.5	34.5	36.4	31.1	31.1	34.5	28.9	28.9	29.5
			SHC	27.4	32.8	38.3	25.6	31.0	36.4	23.7	29.1	34.5	20.5	25.0	29.5
		67	TC	42.2	42.2	42.2	38.9	38.9	38.9	35.4	35.4	35.4	31.7	31.7	31.7
			SHC	22.6	28.1	33.5	20.8	26.2	31.7	18.9	24.4	29.8	17.0	22.4	27.8
		72	TC	47.1	47.1	47.1	43.7	43.7	43.7	40.0	40.0	40.0	36.0	36.0	36.0
			SHC	17.7	23.1	28.6	15.9	21.3	26.8	14.1	19.5	24.9	12.1	17.6	23.0
		76	TC	—	51.2	51.2	—	47.7	47.7	—	43.8	43.8	—	39.7	39.7
			SHC	—	19.0	24.5	—	17.3	22.8	—	15.5	21.0	—	13.6	19.1
1150 Cfm	EAT (wb)	58	TC	37.6	37.6	42.7	34.9	34.9	39.8	32.1	32.1	36.7	29.1	29.1	33.4
			SHC	32.4	37.6	42.7	30.0	34.9	39.8	27.4	32.1	36.7	24.7	29.1	33.4
		62	TC	38.9	38.9	42.1	35.7	35.7	40.2	32.3	32.3	38.1	29.1	29.1	34.9
			SHC	29.7	35.9	42.1	27.9	34.0	40.2	25.8	31.9	38.1	23.3	29.1	34.9
		67	TC	43.6	43.6	43.6	40.1	40.1	40.1	36.5	36.5	36.5	32.6	32.6	32.6
			SHC	24.2	30.3	36.5	22.3	28.5	34.7	20.4	26.6	32.8	18.4	24.6	30.8
		72	TC	48.5	48.5	48.5	44.9	44.9	44.9	41.1	41.1	41.1	37.0	37.0	37.0
			SHC	18.4	24.6	30.8	16.6	22.8	29.0	14.7	20.9	27.1	12.7	19.0	25.2
		76	TC	—	52.6	52.6	—	49.1	49.1	—	45.0	45.0	—	40.7	40.7
			SHC	—	19.9	26.2	—	17.8	23.4	—	16.3	22.6	—	14.4	20.7
1350 Cfm	EAT (wb)	58	TC	40.0	40.0	45.4	37.2	37.2	42.4	34.2	34.2	39.1	31.0	31.0	35.5
			SHC	34.5	40.0	45.4	32.0	37.2	42.4	29.3	34.2	39.1	26.4	31.0	35.5
		62	TC	41.8	41.8	42.1	37.2	37.2	44.2	34.2	34.2	40.8	31.0	31.0	37.1
			SHC	30.5	36.3	42.1	30.3	37.2	44.2	27.7	34.2	40.8	24.9	31.0	37.1
		67	TC	44.8	44.8	44.8	41.3	41.3	41.3	37.5	37.5	37.5	33.4	33.4	34.5
			SHC	26.0	33.2	40.4	24.1	31.3	38.6	22.1	29.4	36.6	20.1	27.3	34.5
		72	TC	49.8	49.8	49.8	46.1	46.1	46.1	42.1	42.1	42.1	37.9	37.9	37.9
			SHC	19.1	26.4	33.7	17.3	24.6	31.8	15.4	22.6	29.9	13.4	20.7	27.9
		76	TC	—	54.0	54.0	—	50.1	50.1	—	46.0	46.0	—	41.6	41.6
			SHC	—	20.8	28.2	—	19.1	26.5	—	17.2	24.5	—	15.2	22.6
1500 Cfm	EAT (wb)	58	TC	41.5	41.5	47.1	38.6	38.6	43.9	35.4	35.4	40.5	32.1	32.1	36.8
			SHC	35.8	41.5	47.1	33.2	38.6	43.9	30.4	35.4	40.5	27.4	32.1	36.8
		62	TC	41.5	41.5	49.1	38.6	38.6	45.8	35.5	35.5	42.2	32.2	32.2	38.5
			SHC	34.0	41.5	49.1	31.5	38.6	45.8	28.7	35.5	42.2	25.8	32.2	38.5
		67	TC	45.5	45.5	45.5	41.9	41.9	41.9	38.0	38.0	39.3	33.9	33.9	37.2
			SHC	27.2	35.2	43.2	25.3	33.3	41.3	23.3	31.3	39.3	21.3	29.3	37.2
		72	TC	50.5	50.5	50.5	46.7	46.7	46.7	42.6	42.6	42.6	38.3	38.3	38.3
			SHC	19.6	27.6	35.7	17.8	25.8	33.8	15.8	23.9	31.9	13.8	21.9	29.9
		76	TC	—	54.7	54.7	—	50.8	50.8	—	46.6	46.6	—	42.1	42.1
			SHC	—	21.4	29.6	—	19.7	27.8	—	17.8	25.9	—	15.8	23.9
1650 Cfm	EAT (wb)	58	TC	42.7	42.7	48.5	39.7	39.7	45.2	36.5	36.5	41.7	33.0	33.0	37.9
			SHC	36.9	42.7	48.5	34.2	39.7	45.2	31.3	36.5	41.7	28.2	33.0	37.9
		62	TC	42.8	42.8	50.5	39.8	39.8	47.1	36.5	36.5	43.4	33.1	33.1	39.5
			SHC	35.0	42.8	50.5	32.4	39.8	47.1	29.6	36.5	43.4	26.6	33.1	39.5
		67	TC	46.0	46.0	46.0	42.3	42.3	44.0	38.3	38.3	41.9	34.2	34.2	39.8
			SHC	28.4	37.1	45.9	26.5	35.2	44.0	24.5	33.2	41.9	22.4	31.1	39.8
		72	TC	51.0	51.0	51.0	47.1	47.1	47.1	42.9	42.9	42.9	38.6	38.6	38.6
			SHC	20.0	28.8	37.6	18.1	26.9	35.7	16.2	25.0	33.8	14.2	23.0	31.7
		76	TC	—	55.2	55.2	—	51.2	51.2	—	47.0	47.0	—	42.4	42.4
			SHC	—	22.0	30.9	—	20.2	29.1	—	18.3	27.2	—	16.3	25.2

LEGEND

— — Do Not Operate
CFM — Cubic Feet Per Minute (Supply Air)
EAT (DB) — Entering Air Temperature (dry bulb)
EAT (WB) — Entering Air Temperature (wet bulb)
SHC — Sensible Heat Capacity (1000 Btuh) Gross
TC — Total Capacity (1000 Btuh) Gross

NOTE: See minimum-maximum airflow ratings on page 6.

Performance data (cont)

RGW/RAW060**G — UNIT WITH HOT GAS RE-HEAT SYSTEM IN SUBCOOLING MODE — COOLING CAPACITIES

TEMP (F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR — SCFM/BF								
		1500 / 0.01			2000 / 0.02			2500 / 0.03		
		Air Entering Evaporator — Ewb (F)								
		72	67	62	72	67	62	72	67	62
75	TC	67.6	60.9	55.4	71.7	65.0	59.2	74.2	67.6	62.2
	SHC	26.1	34.5	43.4	30.9	42.1	53.2	35.3	49.1	61.8
	kW	3.11	3.06	3.03	3.05	3.09	3.16	3.16	3.11	3.07
85	TC	63.0	57.1	51.7	67.0	60.7	55.3	68.8	62.9	58.1
	SHC	21.7	30.9	40.0	26.4	38.0	49.5	30.2	44.7	57.8
	kW	3.47	3.43	3.39	3.42	3.46	3.51	3.52	3.48	3.44
95	TC	58.4	52.8	47.8	61.9	56.1	51.1	64.1	58.2	53.7
	SHC	17.4	26.9	36.3	21.7	33.7	45.5	25.8	40.3	53.7
	kW	3.89	3.85	3.80	3.83	3.88	3.93	3.95	3.90	3.86
105	TC	53.4	48.0	43.3	55.9	50.5	45.8	58.6	52.7	48.4
	SHC	12.7	22.3	32.0	16.0	28.4	40.5	20.6	35.1	48.4
	kW	4.36	4.31	4.26	4.29	4.33	4.38	4.42	4.36	4.32
115	TC	47.9	43.2	39.0	50.6	45.6	41.5	52.4	47.6	43.8
	SHC	7.5	17.9	28.0	11.1	23.9	36.5	14.8	30.3	43.8
	kW	4.88	4.83	4.78	4.81	4.86	4.91	4.93	4.88	4.84
125	TC	42.0	37.9	34.1	44.5	40.1	36.1	46.3	41.7	38.4
	SHC	2.1	12.9	23.5	5.3	18.7	31.5	9.2	24.9	38.4
	kW	5.44	5.39	5.35	5.37	5.42	5.47	5.49	5.44	5.40

RGW/RAW060**G — UNIT WITH HOT GAS RE-HEAT SYSTEM IN HOT GAS REHEAT MODE — COOLING CAPACITIES

TEMP (F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR — Ewb (F)								
		75 Dry Bulb 62.5 Wet Bulb (50% Relative)			75 Dry Bulb 64 Wet Bulb (56% Relative)			75 Dry Bulb 65.3 Wet Bulb (60% Relative)		
		Air Entering Evaporator — Cfm								
		1500	2000	2500	1500	2000	2500	1500	2000	2500
80	TC	18.64	19.95	20.78	19.35	20.71	21.51	20.00	21.37	22.33
	SHC	0.78	4.36	8.24	-1.95	1.01	4.29	-4.33	-1.91	0.99
	kW	2.66	2.68	2.69	2.67	2.69	2.69	2.68	2.69	2.68
75	TC	19.37	21.21	22.15	20.47	21.97	22.92	21.15	22.78	23.65
	SHC	1.48	5.52	9.49	-0.91	2.18	5.57	-3.26	-0.61	2.20
	kW	2.62	2.54	2.54	2.56	2.55	2.55	2.56	2.55	2.56
70	TC	19.92	21.63	22.64	20.77	22.52	23.61	21.70	23.39	24.26
	SHC	2.01	5.94	9.98	-0.61	2.70	6.23	-2.72	-0.02	2.78
	kW	2.60	2.56	2.54	2.58	2.54	2.53	2.54	2.52	2.54
60	TC	20.11	21.27	22.23	20.75	23.15	23.43	22.49	23.78	24.55
	SHC	2.24	5.70	9.70	-0.57	3.35	6.15	-1.95	0.40	3.13
	kW	2.69	2.74	2.73	2.72	2.58	2.68	2.56	2.60	2.63
50	TC	21.56	22.70	23.37	22.18	23.33	24.01	22.75	23.90	25.40
	SHC	3.61	7.03	10.76	0.78	3.57	6.73	-1.67	0.57	3.96
	kW	2.57	2.63	2.66	2.60	2.66	2.69	2.63	2.69	2.62
40	TC	21.67	23.23	24.04	22.76	23.82	25.57	23.28	24.34	26.13
	SHC	3.74	7.56	9.89	1.35	4.06	8.17	-1.15	1.01	4.67
	kW	2.64	2.64	2.69	2.61	2.67	2.58	2.64	2.70	2.61

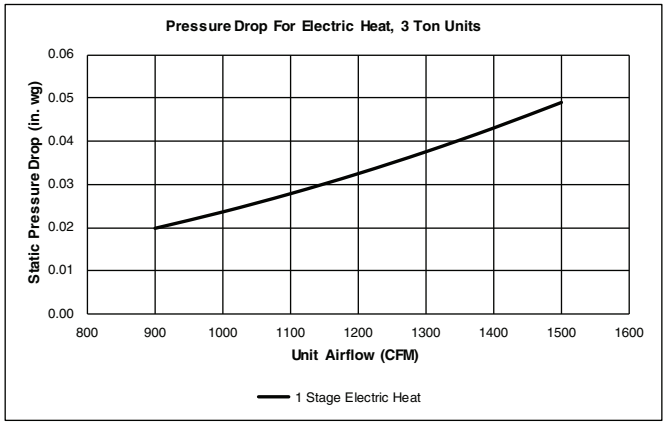
LEGEND

EDB — Entering Dry Bulb
EWB — Entering Wet Bulb
KW — Compressor Power Input
SCFM/BF — Standard Cubic Feet per Minute/Bypass Factor
SHC — Sensible Heat Capacity (1000 Btuh) Gross
TC — Total Capacity (1000 Btuh) Gross

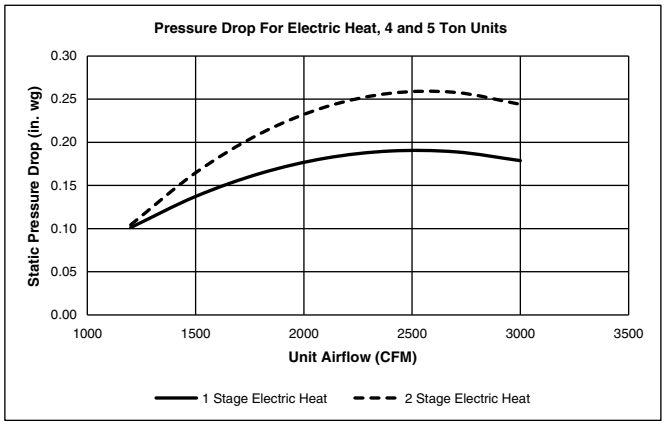
Performance data (cont)

ECONOMIZER BAROMETRIC RELIEF AND STATIC PRESSURE

PRESSURE DROP FOR ELECTRIC HEAT 3 TON UNITS - 1 STAGE HEAT



PRESSURE DROP FOR ELECTRIC HEAT 4 AND 5 TON UNITS - 1 AND 2 STAGE HEAT



SINGLE PHASE GAS HEAT STAGES

UNIT SIZE	HEAT SIZE		
1 Phase	Low	Med	High
036	1	1	—
048	1	1	1
060	1	1	1

THREE PHASE GAS HEAT STAGES

UNIT SIZE	HEAT SIZE		
3 Phase	Low	Med	High
036	2	2	—
048	2	2	2
060	2	2	2

GAS HEAT STATIC PRESSURE DEDUCTIONS – 3 TON UNITS

CFM	900	1000	1100	1200	1300	1400	1500
Low Gas Heat	0.01	0.01	0.02	0.03	0.03	0.04	0.04

GAS HEAT STATIC PRESSURE DEDUCTIONS – 4 TO 5 TON UNITS

CFM	1200	1500	1800	2100	2400	2700	3000
Medium Gas Heat	0.01	0.05	0.08	0.12	0.15	0.18	0.20
Low Gas Heat	0.03	0.10	0.17	0.23	0.29	0.36	0.42

Performance data (cont)

FIELD-INSTALLED ACCESSORY ELECTRIC HEATER DATA

RAW UNIT SIZE	VOLTAGE	HEATER MODEL NUMBER*	NUMBER OF STAGES
036	208/230	CRHEATER323A00	1
		CRHEATER324A00	1
		CRHEATER325A00	1
		CRHEATER326A00	1
		CRHEATER327A00	2
		CRHEATER328A00	1
	460	CRHEATER333A00	1
		CRHEATER334A00	1
		CRHEATER335A00	1
		CRHEATER336A00	1
	575	CRHEATER339A00	1
		CRHEATER340A00	1
048	208/230	CRHEATER323A00	1
		CRHEATER324A00	1
		CRHEATER325A00	1
		CRHEATER326A00	1
		CRHEATER327A00	2
		CRHEATER328A00	1
		CRHEATER329A00	2
		CRHEATER330A00†	2
		CRHEATER331A00**	2
	460	CRHEATER333A00	1
		CRHEATER335A00	1
		CRHEATER336A00	1
		CRHEATER337A00	2
	575	CRHEATER339A00	1
		CRHEATER340A00	1
060	208/230	CRHEATER324A00	1
		CRHEATER325A00	1
		CRHEATER326A00	1
		CRHEATER327A00	2
		CRHEATER328A00	1
		CRHEATER329A00	2
		CRHEATER331A00	2
		CRHEATER332A00	2
	460	CRHEATER333A00	1
		CRHEATER335A00	1
		CRHEATER336A00	1
		CRHEATER337A00	2
		CRHEATER338A00	2
	575	CRHEATER340A00	1
		CRHEATER341A00	2

*Check heater nameplate for model number.

**Do not use with size 048 vertical supply duct configuration units.

†Do not use with size 048 horizontal supply duct configuration units.

USE OF CRHEATER330A00 FOR RAW UNITS (WITH OR WITHOUT NON-FUSED DISCONNECT)

DUCT CONFIGURATION	RAW UNIT SIZE		
	036	048	060
Vertical Supply	Not available	Available	Not available
Horizontal Supply	Not available	Not available	Not available

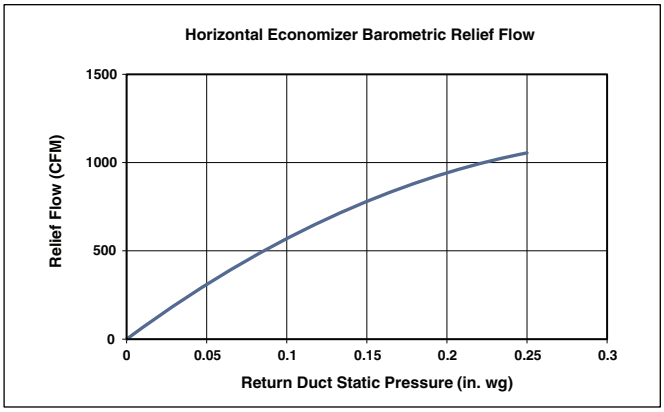
USE OF CRHEATER331A00 FOR RAW UNITS (WITH OR WITHOUT NON-FUSED DISCONNECT)

DUCT CONFIGURATION	RAW UNIT SIZE		
	036	048	060
Vertical Supply	Not available	Not available	Available
Horizontal Supply	Not available	Available	Available

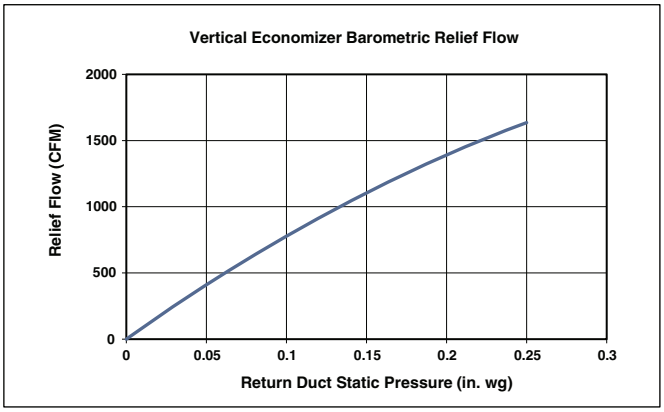
Performance data (cont)

ECONOMIZER BAROMETRIC RELIEF AND STATIC PRESSURE

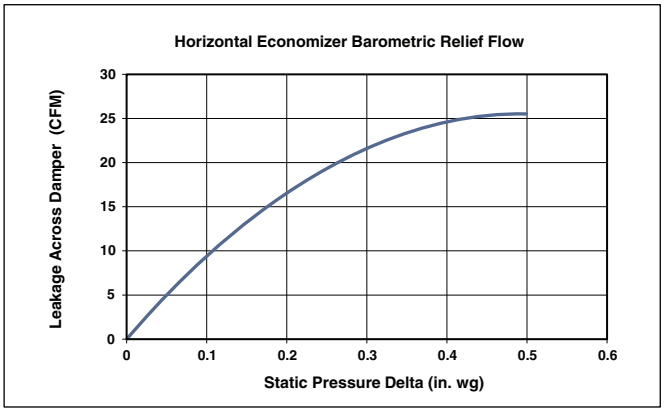
HORIZONTAL ECONOMIZER BAROMETRIC RELIEF



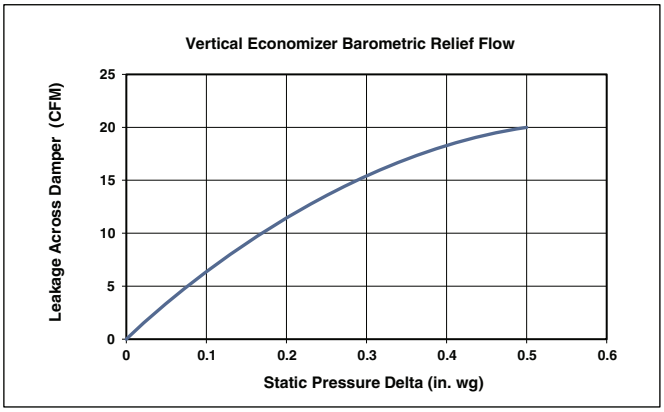
VERTICAL ECONOMIZER BAROMETRIC RELIEF



HORIZONTAL ECONOMIZER DAMPER LEAKAGE

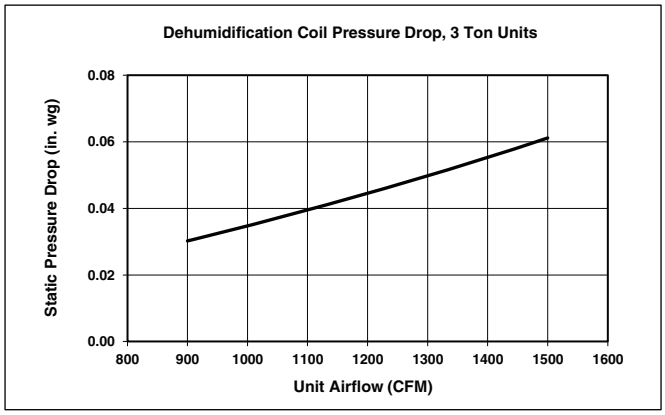


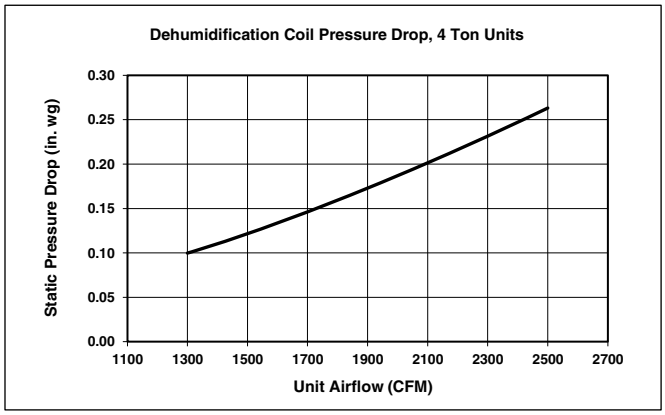
VERTICAL ECONOMIZER DAMPER LEAKAGE

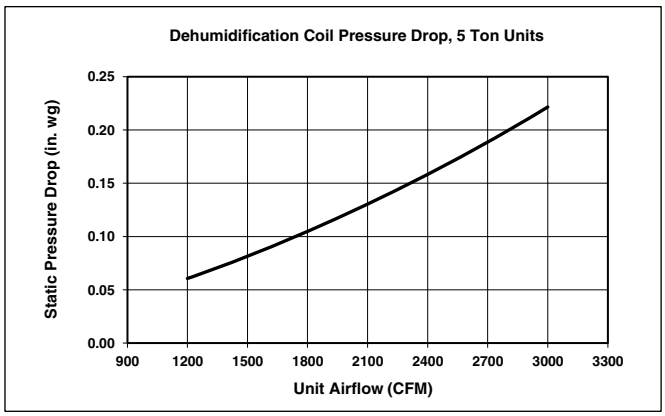


Performance data (cont)

HOT GAS RE-HEAT COIL PRESSURE DROPS







Fan data

RGW036 SINGLE PHASE — 3 TON VERTICAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1129	0.10	1356	0.17	1544	0.26	1708	0.35	1857	0.45
975	1182	0.11	1402	0.19	1586	0.28	1748	0.37	1894	0.47
1050	1236	0.13	1449	0.21	1630	0.30	1789	0.40	1933	0.50
1125	1290	0.15	1498	0.23	1675	0.33	1831	0.43	1973	0.53
1200	1346	0.17	1547	0.26	1721	0.35	1874	0.46	2014	0.57
1275	1403	0.19	1598	0.28	1768	0.38	1919	0.49	2057	0.61
1350	1460	0.22	1651	0.31	1816	0.42	1965	0.53	2100	0.64
1425	1519	0.24	1703	0.34	1865	0.45	2012	0.57	2145	0.69
1500	1579	0.27	1757	0.38	1916	0.49	2059	0.61	2191	0.73

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1994	0.55	2121	0.66	2241	0.78	2354	0.91	2461	1.04
975	2029	0.58	2155	0.70	2274	0.82	2386	0.95	—	—
1050	2066	0.61	2190	0.73	2307	0.86	2419	0.99	—	—
1125	2104	0.65	2227	0.77	2343	0.90	2453	1.03	—	—
1200	2144	0.69	2265	0.81	2379	0.94	2488	1.07	—	—
1275	2184	0.73	2304	0.85	2417	0.98	—	—	—	—
1350	2226	0.77	2345	0.90	2456	1.03	—	—	—	—
1425	2269	0.81	2386	0.95	—	—	—	—	—	—
1500	2313	0.86	2429	1.00	—	—	—	—	—	—

Standard Static 1129-1890 RPM, 0.44 Max BHP

Medium Static 1129-2190 RPM, 0.71 Max BHP

High Static 1129-2490 RPM, 1.07 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW036 SINGLE PHASE – STANDARD STATIC — 3 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1129	6.0	1356	7.2	1544	8.2	1708	9.0	—	—
975	1182	6.3	1402	7.4	1586	8.4	1748	9.2	—	—
1050	1236	6.5	1449	7.7	1630	8.6	1789	9.5	—	—
1125	1290	6.8	1498	7.9	1675	8.9	1831	9.7	—	—
1200	1346	7.1	1547	8.2	1721	9.1	—	—	—	—
1275	1403	7.4	1598	8.5	1768	9.4	—	—	—	—
1350	1460	7.7	1651	8.7	1816	9.6	—	—	—	—
1425	1519	8.0	1703	9.0	—	—	—	—	—	—
1500	1579	8.4	1757	9.3	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	—	—	—	—	—	—	—	—	—	—
975	—	—	—	—	—	—	—	—	—	—
1050	—	—	—	—	—	—	—	—	—	—
1125	—	—	—	—	—	—	—	—	—	—
1200	—	—	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Standard Static 1129-1890 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW036 SINGLE PHASE – MEDIUM STATIC — 3 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1129	5.2	1356	6.2	1544	7.1	1708	7.8	1857	8.5
975	1182	5.4	1402	6.4	1586	7.2	1748	8.0	1894	8.6
1050	1236	5.6	1449	6.6	1630	7.4	1789	8.2	1933	8.8
1125	1290	5.9	1498	6.8	1675	7.6	1831	8.4	1973	9.0
1200	1346	6.1	1547	7.1	1721	7.9	1874	8.6	2014	9.2
1275	1403	6.4	1598	7.3	1768	8.1	1919	8.8	2057	9.4
1350	1460	6.7	1651	7.5	1816	8.3	1965	9.0	2100	9.6
1425	1519	6.9	1703	7.8	1865	8.5	2012	9.2	2145	9.8
1500	1579	7.2	1757	8.0	1916	8.7	2059	9.4	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1994	9.1	2121	9.7	—	—	—	—	—	—
975	2029	9.3	2155	9.8	—	—	—	—	—	—
1050	2066	9.4	—	—	—	—	—	—	—	—
1125	2104	9.6	—	—	—	—	—	—	—	—
1200	2144	9.8	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Medium Static 1129-2190 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW036 SINGLE PHASE – HIGH STATIC — 3 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1129	4.5	1356	5.4	1544	6.2	1708	6.9	1857	7.5
975	1182	4.7	1402	5.6	1586	6.4	1748	7.0	1894	7.6
1050	1236	5.0	1449	5.8	1630	6.5	1789	7.2	1933	7.8
1125	1290	5.2	1498	6.0	1675	6.7	1831	7.4	1973	7.9
1200	1346	5.4	1547	6.2	1721	6.9	1874	7.5	2014	8.1
1275	1403	5.6	1598	6.4	1768	7.1	1919	7.7	2057	8.3
1350	1460	5.9	1651	6.6	1816	7.3	1965	7.9	2100	8.4
1425	1519	6.1	1703	6.8	1865	7.5	2012	8.1	2145	8.6
1500	1579	6.3	1757	7.1	1916	7.7	2059	8.3	2191	8.8

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1994	8.0	2121	8.5	2241	9.0	2354	9.5	2461	9.9
975	2029	8.1	2155	8.7	2274	9.1	2386	9.6	—	—
1050	2066	8.3	2190	8.8	2307	9.3	2419	9.7	—	—
1125	2104	8.4	2227	8.9	2343	9.4	2453	9.9	—	—
1200	2144	8.6	2265	9.1	2379	9.6	2488	10.0	—	—
1275	2184	8.8	2304	9.3	2417	9.7	—	—	—	—
1350	2226	8.9	2345	9.4	2456	9.9	—	—	—	—
1425	2269	9.1	2386	9.6	—	—	—	—	—	—
1500	2313	9.3	2429	9.8	—	—	—	—	—	—

High Static 1129-2490 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW036 THREE PHASE — 3 TON VERTICAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1129	0.10	1356	0.17	1544	0.26	1708	0.35	1857	0.45
975	1182	0.11	1402	0.19	1586	0.28	1748	0.37	1894	0.47
1050	1236	0.13	1449	0.21	1630	0.30	1789	0.40	1933	0.50
1125	1290	0.15	1498	0.23	1675	0.33	1831	0.43	1973	0.53
1200	1346	0.17	1547	0.26	1721	0.35	1874	0.46	2014	0.57
1275	1403	0.19	1598	0.28	1768	0.38	1919	0.49	2057	0.61
1350	1460	0.22	1651	0.31	1816	0.42	1965	0.53	2100	0.64
1425	1519	0.24	1703	0.34	1865	0.45	2012	0.57	2145	0.69
1500	1579	0.27	1757	0.38	1916	0.49	2059	0.61	2191	0.73

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1994	0.55	2121	0.66	2241	0.78	2354	0.91	2461	1.04
975	2029	0.58	2155	0.70	2274	0.82	2386	0.95	—	—
1050	2066	0.61	2190	0.73	2307	0.86	2419	0.99	—	—
1125	2104	0.65	2227	0.77	2343	0.90	2453	1.03	—	—
1200	2144	0.69	2265	0.81	2379	0.94	2488	1.07	—	—
1275	2184	0.73	2304	0.85	2417	0.98	—	—	—	—
1350	2226	0.77	2345	0.90	2456	1.03	—	—	—	—
1425	2269	0.81	2386	0.95	—	—	—	—	—	—
1500	2313	0.86	2429	1.00	—	—	—	—	—	—

Standard Static 1129-1890 RPM, 0.44 Max BHP

Medium Static 1129-2190 RPM, 0.71 Max BHP

High Static 1129-2490 RPM, 1.07 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW036 THREE PHASE – STANDARD STATIC — 3 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1129	6.0	1356	7.2	1544	8.2	1708	9.0	—	—
975	1182	6.3	1402	7.4	1586	8.4	1748	9.2	—	—
1050	1236	6.5	1449	7.7	1630	8.6	1789	9.5	—	—
1125	1290	6.8	1498	7.9	1675	8.9	1831	9.7	—	—
1200	1346	7.1	1547	8.2	1721	9.1	—	—	—	—
1275	1403	7.4	1598	8.5	1768	9.4	—	—	—	—
1350	1460	7.7	1651	8.7	1816	9.6	—	—	—	—
1425	1519	8.0	1703	9.0	—	—	—	—	—	—
1500	1579	8.4	1757	9.3	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	—	—	—	—	—	—	—	—	—	—
975	—	—	—	—	—	—	—	—	—	—
1050	—	—	—	—	—	—	—	—	—	—
1125	—	—	—	—	—	—	—	—	—	—
1200	—	—	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Standard Static 1129-1890 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW036 THREE PHASE – MEDIUM STATIC — 3 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1129	5.2	1356	6.2	1544	7.1	1708	7.8	1857	8.5
975	1182	5.4	1402	6.4	1586	7.2	1748	8.0	1894	8.6
1050	1236	5.6	1449	6.6	1630	7.4	1789	8.2	1933	8.8
1125	1290	5.9	1498	6.8	1675	7.6	1831	8.4	1973	9.0
1200	1346	6.1	1547	7.1	1721	7.9	1874	8.6	2014	9.2
1275	1403	6.4	1598	7.3	1768	8.1	1919	8.8	2057	9.4
1350	1460	6.7	1651	7.5	1816	8.3	1965	9.0	2100	9.6
1425	1519	6.9	1703	7.8	1865	8.5	2012	9.2	2145	9.8
1500	1579	7.2	1757	8.0	1916	8.7	2059	9.4	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1994	9.1	2121	9.7	—	—	—	—	—	—
975	2029	9.3	2155	9.8	—	—	—	—	—	—
1050	2066	9.4	—	—	—	—	—	—	—	—
1125	2104	9.6	—	—	—	—	—	—	—	—
1200	2144	9.8	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Medium Static 1129-2190 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW036 THREE PHASE – HIGH STATIC — 3 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1129	4.5	1356	5.4	1544	6.2	1708	6.9	1857	7.5
975	1182	4.7	1402	5.6	1586	6.4	1748	7.0	1894	7.6
1050	1236	5.0	1449	5.8	1630	6.5	1789	7.2	1933	7.8
1125	1290	5.2	1498	6.0	1675	6.7	1831	7.4	1973	7.9
1200	1346	5.4	1547	6.2	1721	6.9	1874	7.5	2014	8.1
1275	1403	5.6	1598	6.4	1768	7.1	1919	7.7	2057	8.3
1350	1460	5.9	1651	6.6	1816	7.3	1965	7.9	2100	8.4
1425	1519	6.1	1703	6.8	1865	7.5	2012	8.1	2145	8.6
1500	1579	6.3	1757	7.1	1916	7.7	2059	8.3	2191	8.8

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1994	8.0	2121	8.5	2241	9.0	2354	9.5	2461	9.9
975	2029	8.1	2155	8.7	2274	9.1	2386	9.6	—	—
1050	2066	8.3	2190	8.8	2307	9.3	2419	9.7	—	—
1125	2104	8.4	2227	8.9	2343	9.4	2453	9.9	—	—
1200	2144	8.6	2265	9.1	2379	9.6	2488	10.0	—	—
1275	2184	8.8	2304	9.3	2417	9.7	—	—	—	—
1350	2226	8.9	2345	9.4	2456	9.9	—	—	—	—
1425	2269	9.1	2386	9.6	—	—	—	—	—	—
1500	2313	9.3	2429	9.8	—	—	—	—	—	—

High Static 1129-2490 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW048 SINGLE PHASE — 4 TON VERTICAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1262	0.21	1453	0.33	1614	0.45	1757	0.58	1888	0.72
1300	1333	0.25	1517	0.37	1674	0.50	1813	0.63	1942	0.78
1400	1405	0.29	1583	0.42	1735	0.55	1872	0.70	1997	0.84
1500	1478	0.34	1650	0.48	1799	0.62	1932	0.76	2055	0.92
1600	1552	0.40	1718	0.54	1863	0.68	1994	0.84	2114	1.00
1700	1627	0.46	1787	0.60	1929	0.76	2057	0.92	2174	1.09
1800	1704	0.52	1857	0.68	1995	0.84	2121	1.01	2236	1.18
1900	1781	0.60	1929	0.76	2063	0.93	2186	1.10	2299	1.28
2000	1859	0.68	2001	0.85	2132	1.02	2252	1.21	2363	1.39

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	2011	0.87	2126	1.02	2236	1.19	2341	1.37	2442	1.56
1300	2061	0.93	2174	1.09	2281	1.26	2383	1.44	—	—
1400	2114	1.00	2224	1.17	2329	1.34	2429	1.52	—	—
1500	2169	1.08	2277	1.25	2379	1.43	—	—	—	—
1600	2226	1.17	2331	1.34	2432	1.52	—	—	—	—
1700	2284	1.26	2388	1.44	—	—	—	—	—	—
1800	2344	1.36	2446	1.55	—	—	—	—	—	—
1900	2405	1.47	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Standard Static 1262-1900 RPM, 0.72 Max BHP

Medium Static 1262-2170 RPM, 1.06 Max BHP

High Static 1262-2460 RPM, 1.53 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW048 SINGLE PHASE – STANDARD STATIC — 4 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1262	6.6	1453	7.6	1614	8.5	1757	9.2	1888	9.9
1300	1333	7.0	1517	8.0	1674	8.8	1813	9.5	—	—
1400	1405	7.4	1583	8.3	1735	9.1	1872	9.9	—	—
1500	1478	7.8	1650	8.7	1799	9.5	—	—	—	—
1600	1552	8.2	1718	9.0	1863	9.8	—	—	—	—
1700	1627	8.6	1787	9.4	—	—	—	—	—	—
1800	1704	9.0	1857	9.8	—	—	—	—	—	—
1900	1781	9.4	—	—	—	—	—	—	—	—
2000	1859	9.8	—	—	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	—	—	—	—	—	—	—	—	—	—
1300	—	—	—	—	—	—	—	—	—	—
1400	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Standard Static 1262-1900 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW048 SINGLE PHASE – MEDIUM STATIC — 4 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1262	5.8	1453	6.7	1614	7.4	1757	8.1	1888	8.7
1300	1333	6.1	1517	7.0	1674	7.7	1813	8.4	1942	8.9
1400	1405	6.5	1583	7.3	1735	8.0	1872	8.6	1997	9.2
1500	1478	6.8	1650	7.6	1799	8.3	1932	8.9	2055	9.5
1600	1552	7.2	1718	7.9	1863	8.6	1994	9.2	2114	9.7
1700	1627	7.5	1787	8.2	1929	8.9	2057	9.5	—	—
1800	1704	7.9	1857	8.6	1995	9.2	2121	9.8	—	—
1900	1781	8.2	1929	8.9	2063	9.5	—	—	—	—
2000	1859	8.6	2001	9.2	2132	9.8	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	2011	9.3	2126	9.8	—	—	—	—	—	—
1300	2061	9.5	—	—	—	—	—	—	—	—
1400	2114	9.7	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Medium Static 1262-2170 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW048 SINGLE PHASE – HIGH STATIC — 4 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1262	5.1	1453	5.9	1614	6.6	1757	7.1	1888	7.7
1300	1333	5.4	1517	6.2	1674	6.8	1813	7.4	1942	7.9
1400	1405	5.7	1583	6.4	1735	7.1	1872	7.6	1997	8.1
1500	1478	6.0	1650	6.7	1799	7.3	1932	7.9	2055	8.4
1600	1552	6.3	1718	7.0	1863	7.6	1994	8.1	2114	8.6
1700	1627	6.6	1787	7.3	1929	7.8	2057	8.4	2174	8.8
1800	1704	6.9	1857	7.5	1995	8.1	2121	8.6	2236	9.1
1900	1781	7.2	1929	7.8	2063	8.4	2186	8.9	2299	9.3
2000	1859	7.6	2001	8.1	2132	8.7	2252	9.2	2363	9.6

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	2011	8.2	2126	8.6	2236	9.1	2341	9.5	2442	9.9
1300	2061	8.4	2174	8.8	2281	9.3	2383	9.7	—	—
1400	2114	8.6	2224	9.0	2329	9.5	2429	9.9	—	—
1500	2169	8.8	2277	9.3	2379	9.7	—	—	—	—
1600	2226	9.0	2331	9.5	2432	9.9	—	—	—	—
1700	2284	9.3	2388	9.7	—	—	—	—	—	—
1800	2344	9.5	2446	9.9	—	—	—	—	—	—
1900	2405	9.8	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

High Static 1262-2460 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW048 THREE PHASE — 4 TON VERTICAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1262	0.21	1452	0.33	1614	0.45	1757	0.58	1888	0.72
1300	1333	0.25	1516	0.37	1674	0.50	1813	0.63	1942	0.78
1400	1405	0.29	1583	0.42	1735	0.55	1872	0.70	1997	0.84
1500	1478	0.34	1650	0.48	1798	0.62	1932	0.76	2054	0.92
1600	1552	0.40	1718	0.54	1863	0.68	1993	0.84	2114	1.00
1700	1627	0.46	1787	0.60	1928	0.76	2057	0.92	2174	1.09
1800	1704	0.52	1857	0.68	1995	0.84	2121	1.01	2236	1.18
1900	1781	0.60	1929	0.76	2063	0.93	2185	1.10	2299	1.28
2000	1859	0.68	2001	0.85	2132	1.02	2252	1.21	2363	1.39

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	2011	0.87	2126	1.02	2236	1.19	2341	1.37	2442	1.55
1300	2061	0.93	2174	1.09	2281	1.26	2384	1.44	2482	1.62
1400	2114	1.00	2224	1.17	2329	1.34	2429	1.52	2526	1.71
1500	2169	1.08	2277	1.25	2379	1.43	2477	1.61	2572	1.80
1600	2226	1.17	2331	1.34	2432	1.52	2528	1.71	2621	1.91
1700	2284	1.26	2388	1.44	2486	1.63	2581	1.82	—	—
1800	2344	1.36	2446	1.55	2543	1.74	2636	1.94	—	—
1900	2405	1.47	2505	1.66	2600	1.86	—	—	—	—
2000	2467	1.59	2565	1.78	2659	1.99	—	—	—	—

Standard Static 1262-1900 RPM, 0.72 Max BHP

Medium Static 1262-2170 RPM, 1.06 Max BHP

High Static 1262-2660 RPM, 1.96 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW048 THREE PHASE – STANDARD STATIC — 4 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1262	6.6	1453	7.6	1614	8.5	1757	9.2	1888	9.9
1300	1333	7.0	1517	8.0	1674	8.8	1813	9.5	—	—
1400	1405	7.4	1583	8.3	1735	9.1	1872	9.9	—	—
1500	1478	7.8	1650	8.7	1799	9.5	—	—	—	—
1600	1552	8.2	1718	9.0	1863	9.8	—	—	—	—
1700	1627	8.6	1787	9.4	—	—	—	—	—	—
1800	1704	9.0	1857	9.8	—	—	—	—	—	—
1900	1781	9.4	—	—	—	—	—	—	—	—
2000	1859	9.8	—	—	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	—	—	—	—	—	—	—	—	—	—
1300	—	—	—	—	—	—	—	—	—	—
1400	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Standard Static 1262-1900 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW048 THREE PHASE – MEDIUM STATIC — 4 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1262	5.8	1453	6.7	1614	7.4	1757	8.1	1888	8.7
1300	1333	6.1	1517	7.0	1674	7.7	1813	8.4	1942	8.9
1400	1405	6.5	1583	7.3	1735	8.0	1872	8.6	1997	9.2
1500	1478	6.8	1650	7.6	1799	8.3	1932	8.9	2055	9.5
1600	1552	7.2	1718	7.9	1863	8.6	1994	9.2	2114	9.7
1700	1627	7.5	1787	8.2	1929	8.9	2057	9.5	—	—
1800	1704	7.9	1857	8.6	1995	9.2	2121	9.8	—	—
1900	1781	8.2	1929	8.9	2063	9.5	—	—	—	—
2000	1859	8.6	2001	9.2	2132	9.8	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	2011	9.3	2126	9.8	—	—	—	—	—	—
1300	2061	9.5	—	—	—	—	—	—	—	—
1400	2114	9.7	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Medium Static 1262-2170 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW048 THREE PHASE – HIGH STATIC — 4 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1262	4.7	1452	5.5	1614	6.1	1757	6.6	1888	71
1300	1333	5.0	1516	5.7	1674	6.3	1813	6.8	1942	7.3
1400	1405	5.3	1583	6.0	1735	6.5	1872	7.0	1997	7.5
1500	1478	5.6	1650	6.2	1798	6.8	1932	7.3	2054	7.7
1600	1552	5.8	1718	6.5	1863	7.0	1993	7.5	2114	7.9
1700	1627	6.1	1787	6.7	1928	7.2	2057	7.7	2174	8.2
1800	1704	6.4	1857	7.0	1995	7.5	2121	8.0	2236	8.4
1900	1781	6.7	1929	7.3	2063	7.8	2185	8.2	2299	8.6
2000	1859	7.0	2001	7.5	2132	8.0	2252	8.5	2363	8.9

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	2011	7.6	2126	8.0	2236	8.4	2341	8.8	2442	9.2
1300	2061	7.7	2174	8.2	2281	8.6	2384	9.0	2482	9.3
1400	2114	7.9	2224	8.4	2329	8.8	2429	9.1	2526	9.5
1500	2169	8.2	2277	8.6	2379	8.9	2477	9.3	2572	9.7
1600	2226	8.4	2331	8.8	2432	9.1	2528	9.5	2621	9.9
1700	2284	8.6	2388	9.0	2486	9.3	2581	9.7	—	—
1800	2344	8.8	2446	9.2	2543	9.6	2623	9.9	—	—
1900	2405	9.0	2505	9.4	2600	9.8	—	—	—	—
2000	2467	9.3	2565	9.6	2659	10.0	—	—	—	—

High Static 1262-2660 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW060 SINGLE PHASE — 5 TON VERTICAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1387	0.28	1561	0.40	1711	0.53	1845	0.66	1966	0.80
1625	1473	0.34	1638	0.46	1784	0.60	1914	0.74	2034	0.89
1750	1560	0.40	1717	0.53	1859	0.68	1986	0.83	2103	0.98
1875	1650	0.47	1798	0.61	1935	0.77	2059	0.92	2174	1.08
2000	1741	0.56	1881	0.70	2012	0.86	2134	1.03	2246	1.20
2125	1832	0.65	1965	0.80	2091	0.97	2209	1.14	2320	1.32
2250	1925	0.75	2050	0.91	2172	1.08	2286	1.26	—	—
2375	2018	0.87	2137	1.03	2254	1.21	2365	1.40	—	—
2500	2113	1.00	2225	1.16	2337	1.35	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	2079	0.95	2185	1.10	2285	1.26	2381	1.43	—	—
1625	2144	1.04	2248	1.20	2346	1.36	—	—	—	—
1750	2211	1.14	2313	1.31	—	—	—	—	—	—
1875	2281	1.25	2380	1.42	—	—	—	—	—	—
2000	2351	1.37	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Standard Static 1387-2150 RPM, 1.06 Max BHP

Medium Static 1387-2390 RPM, 1.44 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW060 SINGLE PHASE – STANDARD STATIC — 5 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1387	6.5	1561	7.3	1711	8.0	1845	8.6	1966	9.1
1625	1473	6.9	1638	7.6	1784	8.3	1914	8.9	2034	9.5
1750	1560	7.3	1717	8.0	1859	8.6	1986	9.2	2103	9.8
1875	1650	7.7	1798	8.4	1935	9.0	2059	9.6	—	—
2000	1741	8.1	1881	8.7	2012	9.4	2134	9.9	—	—
2125	1832	8.5	1965	9.1	2091	9.7	—	—	—	—
2250	1925	9.0	2050	9.5	—	—	—	—	—	—
2375	2018	9.4	2137	9.9	—	—	—	—	—	—
2500	2113	9.8	—	—	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	2079	9.7	—	—	—	—	—	—	—	—
1625	2144	10.0	—	—	—	—	—	—	—	—
1750	—	—	—	—	—	—	—	—	—	—
1875	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Standard Static 1387-2150 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW060 SINGLE PHASE – MEDIUM STATIC — 5 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1387	5.8	1561	6.5	1711	7.2	1845	7.7	1966	8.2
1625	1473	6.2	1638	6.9	1784	7.5	1914	8.0	2034	8.5
1750	1560	6.5	1717	7.2	1859	7.8	1986	8.3	2103	8.8
1875	1650	6.9	1798	7.5	1935	8.1	2059	8.6	2174	9.1
2000	1741	7.3	1881	7.9	2012	8.4	2134	8.9	2246	9.4
2125	1832	7.7	1965	8.2	2091	8.7	2209	9.2	2320	9.7
2250	1925	8.1	2050	8.6	2172	9.1	2286	9.6	—	—
2375	2018	8.4	2137	8.9	2254	9.4	2365	9.9	—	—
2500	2113	8.8	2225	9.3	2337	9.8	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	2079	8.7	2185	9.1	2285	9.6	2381	10.0	—	—
1625	2144	9.0	2248	9.4	2346	9.8	—	—	—	—
1750	2211	9.3	2313	9.7	—	—	—	—	—	—
1875	2281	9.5	2380	10.0	—	—	—	—	—	—
2000	2351	9.8	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Medium Static 1387-2390 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW060 THREE PHASE — 5 TON VERTICAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1387	0.28	1560	0.40	1711	0.53	1845	0.66	1966	0.80
1625	1473	0.34	1638	0.46	1784	0.60	1915	0.74	2034	0.89
1750	1561	0.40	1717	0.53	1858	0.68	1986	0.83	2103	0.98
1875	1650	0.47	1798	0.61	1934	0.76	2059	0.92	2174	1.08
2000	1741	0.56	1881	0.70	2012	0.86	2133	1.02	2246	1.20
2125	1832	0.65	1965	0.80	2091	0.97	2209	1.14	2319	1.32
2250	1925	0.75	2050	0.91	2172	1.08	2286	1.26	2394	1.45
2375	2018	0.87	2137	1.03	2254	1.21	2364	1.40	2469	1.59
2500	2113	1.00	2225	1.16	2337	1.35	2444	1.54	2547	1.75

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	2079	0.95	2185	1.10	2285	1.26	2381	1.43	2473	1.60
1625	2144	1.04	2248	1.20	2346	1.36	2440	1.53	2530	1.71
1750	2212	1.14	2313	1.31	2410	1.48	2502	1.65	2590	1.83
1875	2281	1.25	2381	1.43	2475	1.60	2566	1.78	2653	1.97
2000	2351	1.37	2449	1.55	2543	1.74	2632	1.93	2717	2.12
2125	2422	1.50	2519	1.69	2611	1.88	2699	2.08	2783	2.28
2250	2495	1.64	2590	1.84	2681	2.04	2767	2.24	—	—
2375	2569	1.79	2663	2.00	2752	2.20	—	—	—	—
2500	2643	1.95	2736	2.17	2824	2.38	—	—	—	—

Standard Static 1387-2150 RPM, 1.06 Max BHP

Medium Static 1387-2390 RPM, 1.44 Max BHP

High Static 1387-2836 RPM, 2.43 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW060 THREE PHASE — STANDARD STATIC — 5 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1387	6.5	1560	7.3	1711	8.0	1845	8.6	1966	9.1
1625	1473	6.9	1638	7.6	1784	8.3	1915	8.9	2034	9.5
1750	1561	7.3	1717	8.0	1858	8.6	1986	9.2	2103	9.8
1875	1650	7.7	1798	8.4	1934	9.0	2059	9.6	—	—
2000	1741	8.1	1881	8.7	2012	9.4	2133	9.9	—	—
2125	1832	8.5	1965	9.1	2091	9.7	—	—	—	—
2250	1925	9.0	2050	9.5	—	—	—	—	—	—
2375	2018	9.4	2137	9.9	—	—	—	—	—	—
2500	2113	9.8	—	—	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	2079	9.7	—	—	—	—	—	—	—	—
1625	2144	10.0	—	—	—	—	—	—	—	—
1750	—	—	—	—	—	—	—	—	—	—
1875	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Standard Static 1387-2150 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW060 THREE PHASE – MEDIUM STATIC — 5 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1387	5.8	1560	6.5	1711	7.2	1845	7.7	1966	8.2
1625	1473	6.2	1638	6.9	1784	7.5	1915	8.0	2034	8.5
1750	1561	6.5	1717	7.2	1858	7.8	1986	8.3	2103	8.8
1875	1650	6.9	1798	7.5	1934	8.1	2059	8.6	2174	9.1
2000	1741	7.3	1881	7.9	2012	8.4	2133	8.9	2246	9.4
2125	1832	7.7	1965	8.2	2091	8.7	2209	9.2	2319	9.7
2250	1925	8.1	2050	8.6	2172	9.1	2286	9.6	—	—
2375	2018	8.4	2137	8.9	2254	9.4	2364	9.9	—	—
2500	2113	8.8	2225	9.3	2337	9.8	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	2079	8.7	2185	9.1	2285	9.6	2381	10.0	—	—
1625	2144	9.0	2248	9.4	2346	9.8	—	—	—	—
1750	2212	9.3	2313	9.7	—	—	—	—	—	—
1875	2281	9.5	2381	10.0	—	—	—	—	—	—
2000	2351	9.8	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Medium Static 1387-2390 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW060 THREE PHASE – HIGH STATIC — 5 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1387	4.9	1560	5.5	1711	6.0	1845	6.5	1966	6.9
1625	1473	5.2	1638	5.8	1784	6.3	1915	6.8	2034	7.2
1750	1561	5.5	1717	6.1	1858	6.6	1986	7.0	2103	7.4
1875	1650	5.8	1798	6.3	1934	6.8	2059	7.3	2174	7.7
2000	1741	6.1	1881	6.6	2012	7.1	2133	7.5	2246	7.9
2125	1832	6.5	1965	6.9	2091	7.4	2209	7.8	2319	8.2
2250	1925	6.8	2050	7.2	2172	7.7	2286	8.1	2394	8.4
2375	2018	7.1	2137	7.5	2254	7.9	2364	8.3	2469	8.7
2500	2113	7.5	2225	7.8	2337	8.2	2444	8.6	2547	9.0

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	2079	7.3	2185	7.7	2285	8.1	2381	8.4	2473	8.7
1625	2144	7.6	2248	7.9	2346	8.3	2440	8.6	2530	8.9
1750	2212	7.8	2313	8.2	2410	8.5	2502	8.8	2590	9.1
1875	2281	8.0	2381	8.4	2475	8.7	2566	9.0	2653	9.4
2000	2351	8.3	2449	8.6	2543	9.0	2632	9.3	2717	9.6
2125	2422	8.5	2519	8.9	2611	9.2	2699	9.5	2783	9.8
2250	2495	8.8	2590	9.1	2681	9.5	2767	9.8	—	—
2375	2569	9.1	2663	9.4	2752	9.7	—	—	—	—
2500	2643	9.3	2736	9.6	2824	10.0	—	—	—	—

High Static 1387-2836 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW036 SINGLE PHASE — 3 TON HORIZONTAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1097	0.09	1331	0.16	1524	0.25	1692	0.34	1842	0.44
975	1146	0.10	1373	0.18	1562	0.27	1728	0.36	1877	0.46
1050	1197	0.12	1416	0.20	1601	0.29	1765	0.38	1912	0.49
1125	1249	0.14	1460	0.22	1642	0.31	1803	0.41	1949	0.52
1200	1303	0.15	1506	0.24	1684	0.33	1842	0.44	1986	0.55
1275	1359	0.17	1553	0.26	1727	0.36	1883	0.46	2025	0.58
1350	1415	0.20	1602	0.29	1771	0.39	1925	0.50	2064	0.61
1425	1472	0.22	1652	0.31	1817	0.42	1967	0.53	2105	0.65
1500	1530	0.25	1703	0.34	1863	0.45	2010	0.57	2147	0.69

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1980	0.54	2107	0.65	2225	0.77	2337	0.89	2443	1.02
975	2013	0.57	2139	0.68	2258	0.80	2369	0.93	2475	1.06
1050	2048	0.60	2173	0.71	2291	0.84	2401	0.96	—	—
1125	2083	0.63	2207	0.75	2324	0.87	2435	1.01	—	—
1200	2119	0.66	2242	0.78	2359	0.91	2468	1.05	—	—
1275	2156	0.70	2278	0.82	2394	0.96	—	—	—	—
1350	2194	0.74	2315	0.86	2429	1.00	—	—	—	—
1425	2233	0.78	2353	0.91	2466	1.04	—	—	—	—
1500	2273	0.82	2391	0.95	—	—	—	—	—	—

Standard Static 1097-1890 RPM, 0.44 Max BHP

Medium Static 1097-2190 RPM, 0.71 Max BHP

High Static 1097-2490 RPM, 1.07 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW036 SINGLE PHASE – STANDARD STATIC — 3 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1097	5.8	1331	7.0	1524	8.1	1692	9.0	1842	9.7
975	1146	6.1	1373	7.3	1562	8.3	1728	9.1	—	—
1050	1197	6.3	1416	7.5	1601	8.5	1765	9.3	—	—
1125	1249	6.6	1460	7.7	1642	8.7	1803	9.5	—	—
1200	1303	6.9	1506	8.0	1684	8.9	1842	9.7	—	—
1275	1359	7.2	1553	8.2	1727	9.1	—	—	—	—
1350	1415	7.5	1602	8.5	1771	9.4	—	—	—	—
1425	1472	7.8	1652	8.7	1817	9.6	—	—	—	—
1500	1530	8.1	1703	9.0	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	—	—	—	—	—	—	—	—	—	—
975	—	—	—	—	—	—	—	—	—	—
1050	—	—	—	—	—	—	—	—	—	—
1125	—	—	—	—	—	—	—	—	—	—
1200	—	—	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Standard Static 1097-1890 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW036 SINGLE PHASE – MEDIUM STATIC — 3 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1097	5.0	1331	6.1	1524	7.0	1692	7.7	1842	8.4
975	1146	5.2	1373	6.3	1562	7.1	1728	7.9	1877	8.6
1050	1197	5.5	1416	6.5	1601	7.3	1765	8.1	1912	8.7
1125	1249	5.7	1460	6.7	1642	7.5	1803	8.2	1949	8.9
1200	1303	5.9	1506	6.9	1684	7.7	1842	8.4	1986	9.1
1275	1359	6.2	1553	7.1	1727	7.9	1883	8.6	2025	9.2
1350	1415	6.5	1602	7.3	1771	8.1	1925	8.8	2064	9.4
1425	1472	6.7	1652	7.5	1817	8.3	1967	9.0	2105	9.6
1500	1530	7.0	1703	7.8	1863	8.5	2010	9.2	2147	9.8

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1980	9.0	2107	9.6	—	—	—	—	—	—
975	2013	9.2	2139	9.8	—	—	—	—	—	—
1050	2048	9.4	2173	9.9	—	—	—	—	—	—
1125	2083	9.5	—	—	—	—	—	—	—	—
1200	2119	9.7	—	—	—	—	—	—	—	—
1275	2156	9.8	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Medium Static 1097-2190 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW036 SINGLE PHASE – HIGH STATIC — 3 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1097	4.4	1331	5.3	1524	6.1	1692	6.8	1842	7.4
975	1146	4.6	1373	5.5	1562	6.3	1728	6.9	1877	7.5
1050	1197	4.8	1416	5.7	1601	6.4	1765	7.1	1912	7.7
1125	1249	5.0	1460	5.9	1642	6.6	1803	7.2	1949	7.8
1200	1303	5.2	1506	6.0	1684	6.8	1842	7.4	1986	8.0
1275	1359	5.5	1553	6.2	1727	6.9	1883	7.6	2025	8.1
1350	1415	5.7	1602	6.4	1771	7.1	1925	7.7	2064	8.3
1425	1472	5.9	1652	6.6	1817	7.3	1967	7.9	2105	8.5
1500	1530	6.1	1703	6.8	1863	7.5	2010	8.1	2147	8.6

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1980	8.0	2107	8.5	2225	8.9	2337	9.4	2443	9.8
975	2013	8.1	2139	8.6	2258	9.1	2369	9.5	2475	9.9
1050	2048	8.2	2173	8.7	2291	9.2	2401	9.6	—	—
1125	2083	8.4	2207	8.9	2324	9.3	2435	9.8	—	—
1200	2119	8.5	2242	9.0	2359	9.5	2468	9.9	—	—
1275	2156	8.7	2278	9.1	2394	9.6	—	—	—	—
1350	2194	8.8	2315	9.3	2429	9.8	—	—	—	—
1425	2233	9.0	2353	9.4	2466	9.9	—	—	—	—
1500	2273	9.1	2391	9.6	—	—	—	—	—	—

High Static 1097-2490 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW036 THREE PHASE — 3 TON HORIZONTAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1097	0.09	1331	0.16	1524	0.25	1692	0.34	1842	0.44
975	1146	0.10	1373	0.18	1562	0.27	1728	0.36	1877	0.46
1050	1197	0.12	1416	0.20	1601	0.29	1765	0.38	1912	0.49
1125	1249	0.14	1460	0.22	1642	0.31	1803	0.41	1949	0.52
1200	1303	0.15	1506	0.24	1684	0.33	1842	0.44	1986	0.55
1275	1359	0.17	1553	0.26	1727	0.36	1883	0.46	2025	0.58
1350	1415	0.20	1602	0.29	1771	0.39	1925	0.50	2064	0.61
1425	1472	0.22	1652	0.31	1817	0.42	1967	0.53	2105	0.65
1500	1530	0.25	1703	0.34	1863	0.45	2010	0.57	2147	0.69

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1980	0.54	2107	0.65	2225	0.77	2337	0.89	2443	1.02
975	2013	0.57	2139	0.68	2258	0.80	2369	0.93	2475	1.06
1050	2048	0.60	2173	0.71	2291	0.84	2401	0.96	—	—
1125	2083	0.63	2207	0.75	2324	0.87	2435	1.01	—	—
1200	2119	0.66	2242	0.78	2359	0.91	2468	1.05	—	—
1275	2156	0.70	2278	0.82	2394	0.96	—	—	—	—
1350	2194	0.74	2315	0.86	2429	1.00	—	—	—	—
1425	2233	0.78	2353	0.91	2466	1.04	—	—	—	—
1500	2273	0.82	2391	0.95	—	—	—	—	—	—

Standard Static 1097-1890 RPM, 0.44 Max BHP

Medium Static 1097-2190 RPM, 0.71 Max BHP

High Static 1097-2490 RPM, 1.07 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW036 THREE PHASE – STANDARD STATIC — 3 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1097	5.8	1331	7.0	1524	8.1	1692	9.0	1842	9.7
975	1146	6.1	1373	7.3	1562	8.3	1728	9.1	—	—
1050	1197	6.3	1416	7.5	1601	8.5	1765	9.3	—	—
1125	1249	6.6	1460	7.7	1642	8.7	1803	9.5	—	—
1200	1303	6.9	1506	8.0	1684	8.9	1842	9.7	—	—
1275	1359	7.2	1553	8.2	1727	9.1	—	—	—	—
1350	1415	7.5	1602	8.5	1771	9.4	—	—	—	—
1425	1472	7.8	1652	8.7	1817	9.6	—	—	—	—
1500	1530	8.1	1703	9.0	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	—	—	—	—	—	—	—	—	—	—
975	—	—	—	—	—	—	—	—	—	—
1050	—	—	—	—	—	—	—	—	—	—
1125	—	—	—	—	—	—	—	—	—	—
1200	—	—	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Standard Static 1097-1890 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW036 THREE PHASE – MEDIUM STATIC — 3 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1097	5.0	1331	6.1	1524	7.0	1692	7.7	1842	8.4
975	1146	5.2	1373	6.3	1562	7.1	1728	7.9	1877	8.6
1050	1197	5.5	1416	6.5	1601	7.3	1765	8.1	1912	8.7
1125	1249	5.7	1460	6.7	1642	7.5	1803	8.2	1949	8.9
1200	1303	5.9	1506	6.9	1684	7.7	1842	8.4	1986	9.1
1275	1359	6.2	1553	7.1	1727	7.9	1883	8.6	2025	9.2
1350	1415	6.5	1602	7.3	1771	8.1	1925	8.8	2064	9.4
1425	1472	6.7	1652	7.5	1817	8.3	1967	9.0	2105	9.6
1500	1530	7.0	1703	7.8	1863	8.5	2010	9.2	2147	9.8

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1980	9.0	2107	9.6	—	—	—	—	—	—
975	2013	9.2	2139	9.8	—	—	—	—	—	—
1050	2048	9.4	2173	9.9	—	—	—	—	—	—
1125	2083	9.5	—	—	—	—	—	—	—	—
1200	2119	9.7	—	—	—	—	—	—	—	—
1275	2156	9.8	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Medium Static 1097-2190 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW036 THREE PHASE – HIGH STATIC — 3 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1097	4.4	1331	5.3	1524	6.1	1692	6.8	1842	7.4
975	1146	4.6	1373	5.5	1562	6.3	1728	6.9	1877	7.5
1050	1197	4.8	1416	5.7	1601	6.4	1765	7.1	1912	7.7
1125	1249	5.0	1460	5.9	1642	6.6	1803	7.2	1949	7.8
1200	1303	5.2	1506	6.0	1684	6.8	1842	7.4	1986	8.0
1275	1359	5.5	1553	6.2	1727	6.9	1883	7.6	2025	8.1
1350	1415	5.7	1602	6.4	1771	7.1	1925	7.7	2064	8.3
1425	1472	5.9	1652	6.6	1817	7.3	1967	7.9	2105	8.5
1500	1530	6.1	1703	6.8	1863	7.5	2010	8.1	2147	8.6

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1980	8.0	2107	8.5	2225	8.9	2337	9.4	2443	9.8
975	2013	8.1	2139	8.6	2258	9.1	2369	9.5	2475	9.9
1050	2048	8.2	2173	8.7	2291	9.2	2401	9.6	—	—
1125	2083	8.4	2207	8.9	2324	9.3	2435	9.8	—	—
1200	2119	8.5	2242	9.0	2359	9.5	2468	9.9	—	—
1275	2156	8.7	2278	9.1	2394	9.6	—	—	—	—
1350	2194	8.8	2315	9.3	2429	9.8	—	—	—	—
1425	2233	9.0	2353	9.4	2466	9.9	—	—	—	—
1500	2273	9.1	2391	9.6	—	—	—	—	—	—

High Static 1097-2490 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW048 SINGLE PHASE — 4 TON HORIZONTAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1217	0.19	1411	0.30	1576	0.42	1722	0.55	1855	0.68
1300	1283	0.23	1470	0.34	1631	0.46	1774	0.60	1904	0.74
1400	1351	0.26	1531	0.38	1688	0.51	1827	0.65	1955	0.80
1500	1420	0.31	1593	0.43	1746	0.57	1883	0.71	2008	0.86
1600	1491	0.35	1657	0.48	1805	0.63	1939	0.78	2062	0.93
1700	1563	0.41	1722	0.54	1866	0.69	1997	0.85	2118	1.01
1800	1635	0.46	1789	0.61	1928	0.76	2056	0.92	2174	1.09
1900	1709	0.53	1856	0.68	1991	0.84	2116	1.01	2232	1.18
2000	1784	0.60	1925	0.76	2056	0.92	2178	1.10	2291	1.28

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1978	0.83	2094	0.98	2204	1.15	2308	1.32	2409	1.50
1300	2025	0.89	2138	1.05	2246	1.21	2349	1.39	2447	1.57
1400	2074	0.95	2185	1.11	2291	1.28	2391	1.46	—	—
1500	2124	1.02	2234	1.19	2338	1.36	2436	1.54	—	—
1600	2176	1.10	2284	1.27	2386	1.45	—	—	—	—
1700	2230	1.18	2336	1.36	2436	1.54	—	—	—	—
1800	2285	1.27	2389	1.45	—	—	—	—	—	—
1900	2341	1.36	2444	1.55	—	—	—	—	—	—
2000	2398	1.46	—	—	—	—	—	—	—	—

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Standard Static 1217-1900 RPM, 0.72 Max BHP

Medium Static 1217-2170 RPM, 1.06 Max BHP

High Static 1217-2460 RPM, 1.53, Max BHP

RGW048 SINGLE PHASE – STANDARD STATIC — 4 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1217	6.4	1411	7.4	1576	8.3	1722	9.1	1855	9.8
1300	1283	6.8	1470	7.7	1631	8.6	1774	9.3	—	—
1400	1351	7.1	1531	8.1	1688	8.9	1827	9.6	—	—
1500	1420	7.5	1593	8.4	1746	9.2	1883	9.9	—	—
1600	1491	7.8	1657	8.7	1805	9.5	—	—	—	—
1700	1563	8.2	1722	9.1	1866	9.8	—	—	—	—
1800	1635	8.6	1789	9.4	—	—	—	—	—	—
1900	1709	9.0	1856	9.8	—	—	—	—	—	—
2000	1784	9.4	—	—	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	—	—	—	—	—	—	—	—	—	—
1300	—	—	—	—	—	—	—	—	—	—
1400	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Standard Static 1217-1990 RPM

Fan data (cont)

RGW048 SINGLE PHASE – MEDIUM STATIC — 4 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1217	5.6	1411	6.5	1576	7.3	1722	7.9	1855	8.5
1300	1283	5.9	1470	6.8	1631	7.5	1774	8.2	1904	8.8
1400	1351	6.2	1531	7.1	1688	7.8	1827	8.4	1955	9.0
1500	1420	6.5	1593	7.3	1746	8.0	1883	8.7	2008	9.3
1600	1491	6.9	1657	7.6	1805	8.3	1939	8.9	2062	9.5
1700	1563	7.2	1722	7.9	1866	8.6	1997	9.2	2118	9.8
1800	1635	7.5	1789	8.2	1928	8.9	2056	9.5	—	—
1900	1709	7.9	1856	8.6	1991	9.2	2116	9.8	—	—
2000	1784	8.2	1925	8.9	2056	9.5	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1978	9.1	2094	9.6	—	—	—	—	—	—
1300	2025	9.3	2138	9.9	—	—	—	—	—	—
1400	2074	9.6	—	—	—	—	—	—	—	—
1500	2124	9.8	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Medium Static 1217-2170 RPM, 1.06 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW048 SINGLE PHASE – HIGH STATIC — 4 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1217	4.9	1411	5.7	1576	6.4	1722	7.0	1855	7.5
1300	1283	5.2	1470	6.0	1631	6.6	1774	7.2	1904	7.7
1400	1351	5.5	1531	6.2	1688	6.9	1827	7.4	1955	7.9
1500	1420	5.8	1593	6.5	1746	7.1	1883	7.7	2008	8.2
1600	1491	6.1	1657	6.7	1805	7.3	1939	7.9	2062	8.4
1700	1563	6.4	1722	7.0	1866	7.6	1997	8.1	2118	8.6
1800	1635	6.6	1789	7.3	1928	7.8	2056	8.4	2174	8.8
1900	1709	6.9	1856	7.5	1991	8.1	2116	8.6	2232	9.1
2000	1784	7.3	1925	7.8	2056	8.4	2178	8.9	2291	9.3

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1978	8.0	2094	8.5	2204	9.0	2308	9.4	2409	9.8
1300	2025	8.2	2138	8.7	2246	9.1	2349	9.5	2447	9.9
1400	2074	8.4	2185	8.9	2291	9.3	2391	9.7	—	—
1500	2124	8.6	2234	9.1	2338	9.5	2436	9.9	—	—
1600	2176	8.8	2284	9.3	2386	9.7	—	—	—	—
1700	2230	9.1	2336	9.5	2436	9.9	—	—	—	—
1800	2285	9.3	2389	9.7	—	—	—	—	—	—
1900	2341	9.5	2444	9.9	—	—	—	—	—	—
2000	2398	9.7	—	—	—	—	—	—	—	—

High Static 1217-2460 RPM1.53, Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW048 THREE PHASE — 4 TON HORIZONTAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1216	0.19	1411	0.30	1576	0.42	1722	0.55	1855	0.68
1300	1283	0.23	1470	0.34	1631	0.46	1774	0.60	1904	0.74
1400	1351	0.26	1531	0.38	1687	0.51	1827	0.65	1955	0.80
1500	1420	0.31	1593	0.43	1746	0.57	1882	0.71	2008	0.86
1600	1491	0.35	1657	0.48	1806	0.63	1939	0.78	2062	0.93
1700	1562	0.41	1722	0.54	1866	0.69	1998	0.85	2117	1.01
1800	1636	0.47	1788	0.61	1928	0.76	2056	0.92	2175	1.09
1900	1710	0.53	1856	0.68	1991	0.84	2117	1.01	2233	1.18
2000	1784	0.60	1924	0.76	2055	0.92	2178	1.10	2292	1.28

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1978	0.83	2094	0.98	2204	1.15	2308	1.32	2409	1.50
1300	2025	0.89	2138	1.05	2246	1.21	2349	1.39	2447	1.57
1400	2073	0.95	2185	1.11	2291	1.28	2392	1.46	2488	1.64
1500	2124	1.02	2233	1.19	2338	1.36	2437	1.54	2532	1.73
1600	2176	1.10	2284	1.27	2386	1.45	2483	1.63	2577	1.82
1700	2230	1.18	2336	1.36	2436	1.54	2532	1.73	2624	1.92
1800	2285	1.27	2389	1.45	2488	1.64	2582	1.83	—	—
1900	2341	1.36	2443	1.55	2541	1.74	2634	1.94	—	—
2000	2399	1.46	2499	1.66	2595	1.85	—	—	—	—

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Standard Static 1216-1900 RPM, 0.72 Max BHP

Medium Static 1216-2170 RPM, 1.06 Max BHP

High Static 1216-2660 RPM, 1.96 Max BHP

RGW048 THREE PHASE – STANDARD STATIC — 4 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1216	6.4	1411	7.4	1576	8.3	1722	9.1	1855	9.8
1300	1283	6.8	1470	7.7	1631	8.6	1774	9.3	—	—
1400	1351	7.1	1531	8.1	1687	8.9	1827	9.6	—	—
1500	1420	7.5	1593	8.4	1746	9.2	1882	9.9	—	—
1600	1491	7.8	1657	8.7	1806	9.5	—	—	—	—
1700	1562	8.2	1722	9.1	1866	9.8	—	—	—	—
1800	1636	8.6	1788	9.4	—	—	—	—	—	—
1900	1710	9.0	1856	9.8	—	—	—	—	—	—
2000	1784	9.4	—	—	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	—	—	—	—	—	—	—	—	—	—
1300	—	—	—	—	—	—	—	—	—	—
1400	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Standard Static 1216-1900 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW048 THREE PHASE – MEDIUM STATIC — 4 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1216	5.6	1411	6.5	1576	7.3	1722	7.9	1855	8.5
1300	1283	5.9	1470	6.8	1631	7.5	1774	8.2	1904	8.8
1400	1351	6.2	1531	7.1	1687	7.8	1827	8.4	1955	9.0
1500	1420	6.5	1593	7.3	1746	8.0	1882	8.7	2008	9.3
1600	1491	6.9	1657	7.6	1806	8.3	1939	8.9	2062	9.5
1700	1562	7.2	1722	7.9	1866	8.6	1998	9.2	2117	9.8
1800	1636	7.5	1788	8.2	1928	8.9	2056	9.5	—	—
1900	1710	7.9	1856	8.6	1991	9.2	2117	9.8	—	—
2000	1784	8.2	1924	8.9	2055	9.5	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1978	9.1	2094	9.6	—	—	—	—	—	—
1300	2025	9.3	2138	9.9	—	—	—	—	—	—
1400	2073	9.6	—	—	—	—	—	—	—	—
1500	2124	9.8	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Medium Static 1216-2170 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW048 THREE PHASE – HIGH STATIC — 4 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1216	4.6	1411	5.3	1576	5.9	1722	6.5	1855	7.0
1300	1283	4.8	1470	5.5	1631	6.1	1774	6.7	1904	7.2
1400	1351	5.1	1531	5.8	1687	6.3	1827	6.9	1955	7.3
1500	1420	5.3	1593	6.0	1746	6.6	1882	7.1	2008	7.5
1600	1491	5.6	1657	6.2	1806	6.8	1939	7.3	2062	7.8
1700	1562	5.9	1722	6.5	1866	7.0	1998	7.5	2117	8.0
1800	1636	6.2	1788	6.7	1928	7.2	2056	7.7	2175	8.2
1900	1710	6.4	1856	7.0	1991	7.5	2117	8.0	2233	8.4
2000	1784	6.7	1924	7.2	2055	7.7	2178	8.2	2292	8.6

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1978	7.4	2094	7.9	2204	8.3	2308	8.7	2409	9.1
1300	2025	7.6	2138	8.0	2246	8.4	2349	8.8	2447	9.2
1400	2073	7.8	2185	8.2	2291	8.6	2392	9.0	2488	9.4
1500	2124	8.0	2233	8.4	2338	8.8	2437	9.2	2532	9.5
1600	2176	8.2	2284	8.6	2386	9.0	2483	9.3	2577	9.7
1700	2230	8.4	2336	8.8	2436	9.2	2532	9.5	2624	9.9
1800	2285	8.6	2389	9.0	2488	9.4	2582	9.7	—	—
1900	2341	8.8	2443	9.2	2541	9.6	2634	9.9	—	—
2000	2399	9.0	2499	9.4	2595	9.8	—	—	—	—

High Static 1216-2660 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW060 SINGLE PHASE — 5 TON HORIZONTAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1335	0.25	1507	0.36	1660	0.49	1796	0.61	1921	0.75
1625	1417	0.30	1580	0.42	1727	0.55	1860	0.68	1982	0.82
1750	1502	0.36	1654	0.48	1796	0.61	1926	0.76	2046	0.91
1875	1589	0.42	1731	0.55	1867	0.69	1993	0.84	2110	0.99
2000	1677	0.50	1810	0.63	1940	0.77	2062	0.92	2177	1.09
2125	1765	0.58	1890	0.71	2015	0.86	2133	1.02	2244	1.19
2250	1855	0.67	1972	0.81	2091	0.96	2206	1.13	2314	1.31
2375	1946	0.78	2057	0.92	2169	1.07	2279	1.25	2385	1.43
2500	2038	0.89	2142	1.03	2249	1.20	2355	1.37	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	2036	0.89	2143	1.04	2245	1.20	2342	1.36	—	—
1625	2095	0.97	2201	1.13	2301	1.29	—	—	—	—
1750	2157	1.06	2261	1.22	2359	1.39	—	—	—	—
1875	2219	1.15	2322	1.32	—	—	—	—	—	—
2000	2284	1.26	2384	1.43	—	—	—	—	—	—
2125	2349	1.37	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Standard Static 1335-2150 RPM, 1.06 Max BHP

Medium Static 1335-2390 RPM, 1.44 Max BHP

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW060 SINGLE PHASE – STANDARD STATIC — 5 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1335	6.2	1507	7.0	1660	7.7	1796	8.4	1921	8.9
1625	1417	6.6	1580	7.3	1727	8.0	1860	8.7	1982	9.2
1750	1502	7.0	1654	7.7	1796	8.4	1926	9.0	2046	9.5
1875	1589	7.4	1731	8.1	1867	8.7	1993	9.3	2110	9.8
2000	1677	7.8	1810	8.4	1940	9.0	2062	9.6	—	—
2125	1765	8.2	1890	8.8	2015	9.4	2133	9.9	—	—
2250	1855	8.6	1972	9.2	2091	9.7	—	—	—	—
2375	1946	9.1	2057	9.6	—	—	—	—	—	—
2500	2038	9.5	2142	10.0	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	2036	9.5	2143	10.0	—	—	—	—	—	—
1625	2095	9.7	—	—	—	—	—	—	—	—
1750	—	—	—	—	—	—	—	—	—	—
1875	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Standard Static 1335-2150 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW060 SINGLE PHASE – MEDIUM STATIC — 5 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1335	5.6	1507	6.3	1660	6.9	1796	7.5	1921	8.0
1625	1417	5.9	1580	6.6	1727	7.2	1860	7.8	1982	8.3
1750	1502	6.3	1654	6.9	1796	7.5	1926	8.1	2046	8.6
1875	1589	6.6	1731	7.2	1867	7.8	1993	8.3	2110	8.8
2000	1677	7.0	1810	7.6	1940	8.1	2062	8.6	2177	9.1
2125	1765	7.4	1890	7.9	2015	8.4	2133	8.9	2244	9.4
2250	1855	7.8	1972	8.3	2091	8.7	2206	9.2	2314	9.7
2375	1946	8.1	2057	8.6	2169	9.1	2279	9.5	2385	10.0
2500	2038	8.5	2142	9.0	2249	9.4	2355	9.9	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	2036	8.5	2143	9.0	2245	9.4	2342	9.8	—	—
1625	2095	8.8	2201	9.2	2301	9.6	—	—	—	—
1750	2157	9.0	2261	9.5	2359	9.9	—	—	—	—
1875	2219	9.3	2322	9.7	—	—	—	—	—	—
2000	2284	9.6	2384	10.0	—	—	—	—	—	—
2125	2349	9.8	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Medium Static 1335-2390 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RGW060 THREE PHASE — 5 TON HORIZONTAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1335	0.25	1507	0.36	1660	0.49	1796	0.61	1921	0.75
1625	1418	0.30	1579	0.42	1727	0.55	1860	0.68	1982	0.82
1750	1502	0.36	1654	0.48	1797	0.61	1927	0.76	2046	0.91
1875	1589	0.42	1731	0.55	1867	0.69	1994	0.84	2111	0.99
2000	1676	0.50	1810	0.63	1940	0.77	2063	0.93	2177	1.09
2125	1765	0.58	1890	0.71	2015	0.86	2133	1.02	2245	1.19
2250	1855	0.67	1973	0.81	2091	0.96	2206	1.13	2314	1.31
2375	1946	0.78	2057	0.92	2169	1.07	2279	1.25	2385	1.43
2500	2038	0.89	2142	1.03	2249	1.20	2355	1.37	2457	1.56

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	2036	0.89	2144	1.05	2245	1.20	2342	1.36	2435	1.53
1625	2095	0.97	2201	1.13	2301	1.29	2396	1.46	2487	1.63
1750	2157	1.06	2261	1.22	2359	1.39	2453	1.56	2543	1.74
1875	2219	1.15	2322	1.32	2419	1.49	2511	1.67	2599	1.85
2000	2284	1.26	2384	1.43	2480	1.61	2571	1.79	2658	1.98
2125	2350	1.37	2449	1.55	2542	1.73	2632	1.92	2718	2.12
2250	2417	1.49	2514	1.67	2607	1.87	2695	2.06	2779	2.26
2375	2485	1.62	2581	1.81	2672	2.01	2759	2.21	—	—
2500	2555	1.76	2648	1.95	2738	2.16	2824	2.37	—	—

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Standard Static 1335-2150 RPM, 1.06 Max BHP

Medium Static 1335-2390 RPM, 1.44 Max BHP

High Static 1335-2836 RPM, 2.43 Max BHP

RGW060 THREE PHASE – STANDARD STATIC — 5 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1335	6.2	1507	7.0	1660	7.7	1796	8.4	1921	8.9
1625	1418	6.6	1579	7.3	1727	8.0	1860	8.7	1982	9.2
1750	1502	7.0	1654	7.7	1797	8.4	1927	9.0	2046	9.5
1875	1589	7.4	1731	8.1	1867	8.7	1994	9.3	2111	9.8
2000	1676	7.8	1810	8.4	1940	9.0	2063	9.6	—	—
2125	1765	8.2	1890	8.8	2015	9.4	2133	9.9	—	—
2250	1855	8.6	1973	9.2	2091	9.7	—	—	—	—
2375	1946	9.1	2057	9.6	—	—	—	—	—	—
2500	2038	9.5	2142	10.0	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	2036	9.5	2144	10.0	—	—	—	—	—	—
1625	2095	9.7	—	—	—	—	—	—	—	—
1750	—	—	—	—	—	—	—	—	—	—
1875	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Standard Static 1335-2150 RPM

Fan data (cont)

RGW060 THREE PHASE – MEDIUM STATIC — 5 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1335	5.6	1507	6.3	1660	6.9	1796	7.5	1921	8.0
1625	1418	5.9	1579	6.6	1727	7.2	1860	7.8	1982	8.3
1750	1502	6.3	1654	6.9	1797	7.5	1927	8.1	2046	8.6
1875	1589	6.6	1731	7.2	1867	7.8	1994	8.3	2111	8.8
2000	1676	7.0	1810	7.6	1940	8.1	2063	8.6	2177	9.1
2125	1765	7.4	1890	7.9	2015	8.4	2133	8.9	2245	9.4
2250	1855	7.8	1973	8.3	2091	8.7	2206	9.2	2314	9.7
2375	1946	8.1	2057	8.6	2169	9.1	2279	9.5	2385	10.0
2500	2038	8.5	2142	9.0	2249	9.4	2355	9.9	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	2036	8.5	2144	9.0	2245	9.4	2342	9.8	—	—
1625	2095	8.8	2201	9.2	2301	9.6	—	—	—	—
1750	2157	9.0	2261	9.5	2359	9.9	—	—	—	—
1875	2219	9.3	2322	9.7	—	—	—	—	—	—
2000	2284	9.6	2384	10.0	—	—	—	—	—	—
2125	2350	9.8	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Medium Static 1335-2390 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

RGW060 THREE PHASE – HIGH STATIC — 5 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1335	4.7	1507	5.3	1660	5.9	1796	6.3	1921	6.8
1625	1418	5.0	1579	5.6	1727	6.1	1860	6.6	1982	7.0
1750	1502	5.3	1654	5.8	1797	6.3	1927	6.8	2046	7.2
1875	1589	5.6	1731	6.1	1867	6.6	1994	7.0	2111	7.4
2000	1676	5.9	1810	6.4	1940	6.8	2063	7.3	2177	7.7
2125	1765	6.2	1890	6.7	2015	7.1	2133	7.5	2245	7.9
2250	1855	6.5	1973	7.0	2091	7.4	2206	7.8	2314	8.2
2375	1946	6.9	2057	7.3	2169	7.6	2279	8.0	2385	8.4
2500	2038	7.2	2142	7.6	2249	7.9	2355	8.3	2457	8.7

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	2036	7.2	2144	7.6	2245	7.9	2342	8.3	2435	8.6
1625	2095	7.4	2201	7.8	2301	8.1	2396	8.4	2487	8.8
1750	2157	7.6	2261	8.0	2359	8.3	2453	8.6	2543	9.0
1875	2219	7.8	2322	8.2	2419	8.5	2511	8.9	2599	9.2
2000	2284	8.1	2384	8.4	2480	8.7	2571	9.1	2658	9.4
2125	2350	8.3	2449	8.6	2542	9.0	2632	9.3	2718	9.6
2250	2417	8.5	2514	8.9	2607	9.2	2695	9.5	2779	9.8
2375	2485	8.8	2581	9.1	2672	9.4	2759	9.7	—	—
2500	2555	9.0	2648	9.3	2738	9.7	2824	10.0	—	—

High Static 1335-2836 RPM

NOTE: Fan tables include highest gas heat. Utilize static pressure gain tables for lower gas heat capacities.

Fan data (cont)

RAW036 SINGLE PHASE — 3 TON VERTICAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1060	0.08	1325	0.16	1541	0.25	1718	0.35	1870	0.46
975	1103	0.09	1356	0.17	1572	0.27	1752	0.37	1906	0.48
1050	1149	0.11	1388	0.19	1602	0.29	1784	0.40	1941	0.51
1125	1198	0.12	1423	0.20	1632	0.30	1815	0.42	1973	0.53
1200	1249	0.14	1460	0.22	1663	0.32	1845	0.44	2005	0.56
1275	1302	0.15	1500	0.24	1694	0.34	1875	0.46	2036	0.59
1350	1356	0.17	1542	0.26	1728	0.36	1905	0.48	2066	0.61
1425	1412	0.20	1587	0.28	1764	0.38	1936	0.51	2096	0.64
1500	1469	0.22	1634	0.30	1803	0.41	1968	0.53	2126	0.67

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	2006	0.56	2130	0.67	2244	0.79	2352	0.91	2453	1.03
975	2044	0.59	2168	0.71	2283	0.83	2391	0.95	—	—
1050	2080	0.63	2206	0.75	2322	0.87	2430	1.00	—	—
1125	2115	0.66	2242	0.78	2359	0.91	2468	1.05	—	—
1200	2148	0.69	2277	0.82	2396	0.96	—	—	—	—
1275	2180	0.72	2311	0.86	2431	1.00	—	—	—	—
1350	2211	0.75	2343	0.90	2465	1.04	—	—	—	—
1425	2241	0.78	2375	0.93	—	—	—	—	—	—
1500	2271	0.82	2405	0.97	—	—	—	—	—	—

Standard Static 1060-1890 RPM, 0.44 Max BHP

Medium Static 1060-2190 RPM, 0.71 Max BHP

High Static 1060-2490 RPM, 1.07 Max BHP

RAW036 SINGLE PHASE – STANDARD STATIC — 3 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1060	5.6	1325	7.0	1541	8.2	1718	9.1	—	—
975	1103	5.8	1356	7.2	1572	8.3	1752	9.3	—	—
1050	1149	6.1	1388	7.3	1602	8.5	1784	9.4	—	—
1125	1198	6.3	1423	7.5	1632	8.6	1815	9.6	—	—
1200	1249	6.6	1460	7.7	1663	8.8	1845	9.8	—	—
1275	1302	6.9	1500	7.9	1694	9.0	—	—	—	—
1350	1356	7.2	1542	8.2	1728	9.1	—	—	—	—
1425	1412	7.5	1587	8.4	1764	9.3	—	—	—	—
1500	1469	7.8	1634	8.6	1803	9.5	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	—	—	—	—	—	—	—	—	—	—
975	—	—	—	—	—	—	—	—	—	—
1050	—	—	—	—	—	—	—	—	—	—
1125	—	—	—	—	—	—	—	—	—	—
1200	—	—	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Standard Static 1060-1890 RPM

Fan data (cont)

RAW036 SINGLE PHASE – MEDIUM STATIC — 3 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1060	4.8	1325	6.1	1541	7.0	1718	7.8	1870	8.5
975	1103	5.0	1356	6.2	1572	7.2	1752	8.0	1906	8.7
1050	1149	5.2	1388	6.3	1602	7.3	1784	8.1	1941	8.9
1125	1198	5.5	1423	6.5	1632	7.5	1815	8.3	1973	9.0
1200	1249	5.7	1460	6.7	1663	7.6	1845	8.4	2005	9.2
1275	1302	5.9	1500	6.8	1694	7.7	1875	8.6	2036	9.3
1350	1356	6.2	1542	7.0	1728	7.9	1905	8.7	2066	9.4
1425	1412	6.4	1587	7.2	1764	8.1	1936	8.8	2096	9.6
1500	1469	6.7	1634	7.5	1803	8.2	1968	9.0	2126	9.7

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	2006	9.2	2130	9.7	—	—	—	—	—	—
975	2044	9.3	2168	9.9	—	—	—	—	—	—
1050	2080	9.5	—	—	—	—	—	—	—	—
1125	2115	9.7	—	—	—	—	—	—	—	—
1200	2148	9.8	—	—	—	—	—	—	—	—
1275	2180	10.0	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Medium Static 1060-2190 RPM

RAW036 SINGLE PHASE – HIGH STATIC — 3 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1060	4.3	1325	5.3	1541	6.2	1718	6.9	1870	7.5
975	1103	4.4	1356	5.4	1572	6.3	1752	7.0	1906	7.7
1050	1149	4.6	1388	5.6	1602	6.4	1784	7.2	1941	7.8
1125	1198	4.8	1423	5.7	1632	6.6	1815	7.3	1973	7.9
1200	1249	5.0	1460	5.9	1663	6.7	1845	7.4	2005	8.1
1275	1302	5.2	1500	6.0	1694	6.8	1875	7.5	2036	8.2
1350	1356	5.4	1542	6.2	1728	6.9	1905	7.7	2066	8.3
1425	1412	5.7	1587	6.4	1764	7.1	1936	7.8	2096	8.4
1500	1469	5.9	1634	6.6	1803	7.2	1968	7.9	2126	8.5

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	2006	8.1	2130	8.6	2244	9.0	2352	9.4	2453	9.9
975	2044	8.2	2168	8.7	2283	9.2	2391	9.6	—	—
1050	2080	8.4	2206	8.9	2322	9.3	2430	9.8	—	—
1125	2115	8.5	2242	9.0	2359	9.5	2468	9.9	—	—
1200	2148	8.6	2277	9.1	2396	9.6	—	—	—	—
1275	2180	8.8	2311	9.3	2431	9.8	—	—	—	—
1350	2211	8.9	2343	9.4	2465	9.9	—	—	—	—
1425	2241	9.0	2375	9.5	—	—	—	—	—	—
1500	2271	9.1	2405	9.7	—	—	—	—	—	—

High Static 1060-2490 RPM

Fan data (cont)

RAW036 THREE PHASE — 3 TON VERTICAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1060	0.08	1325	0.16	1541	0.25	1718	0.35	1870	0.46
975	1103	0.09	1356	0.17	1572	0.27	1752	0.37	1906	0.48
1050	1149	0.11	1388	0.19	1602	0.29	1784	0.40	1941	0.51
1125	1198	0.12	1423	0.20	1632	0.30	1815	0.42	1973	0.53
1200	1249	0.14	1460	0.22	1663	0.32	1845	0.44	2005	0.56
1275	1302	0.15	1500	0.24	1694	0.34	1875	0.46	2036	0.59
1350	1356	0.17	1542	0.26	1728	0.36	1905	0.48	2066	0.61
1425	1412	0.20	1587	0.28	1764	0.38	1936	0.51	2096	0.64
1500	1469	0.22	1634	0.30	1803	0.41	1968	0.53	2126	0.67

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	2006	0.56	2130	0.67	2244	0.79	2352	0.91	2453	1.03
975	2044	0.59	2168	0.71	2283	0.83	2391	0.95	—	—
1050	2080	0.63	2206	0.75	2322	0.87	2430	1.00	—	—
1125	2115	0.66	2242	0.78	2359	0.91	2468	1.05	—	—
1200	2148	0.69	2277	0.82	2396	0.96	—	—	—	—
1275	2180	0.72	2311	0.86	2431	1.00	—	—	—	—
1350	2211	0.75	2343	0.90	2465	1.04	—	—	—	—
1425	2241	0.78	2375	0.93	—	—	—	—	—	—
1500	2271	0.82	2405	0.97	—	—	—	—	—	—

Standard Static 1060-1890 RPM, 0.44 Max BHP

Medium Static 1060-2190 RPM, 0.71 Max BHP

High Static 1060-2490 RPM, 1.07 Max BHP

RAW036 THREE PHASE – STANDARD STATIC — 3 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1060	5.6	1325	7.0	1541	8.2	1718	9.1	—	—
975	1103	5.8	1356	7.2	1572	8.3	1752	9.3	—	—
1050	1149	6.1	1388	7.3	1602	8.5	1784	9.4	—	—
1125	1198	6.3	1423	7.5	1632	8.6	1815	9.6	—	—
1200	1249	6.6	1460	7.7	1663	8.8	1845	9.8	—	—
1275	1302	6.9	1500	7.9	1694	9.0	—	—	—	—
1350	1356	7.2	1542	8.2	1728	9.1	—	—	—	—
1425	1412	7.5	1587	8.4	1764	9.3	—	—	—	—
1500	1469	7.8	1634	8.6	1803	9.5	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	—	—	—	—	—	—	—	—	—	—
975	—	—	—	—	—	—	—	—	—	—
1050	—	—	—	—	—	—	—	—	—	—
1125	—	—	—	—	—	—	—	—	—	—
1200	—	—	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Standard Static 1060-1890 RPM

Fan data (cont)

RAW036 THREE PHASE – MEDIUM STATIC — 3 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1060	4.8	1325	6.1	1541	7.0	1718	7.8	1870	8.5
975	1103	5.0	1356	6.2	1572	7.2	1752	8.0	1906	8.7
1050	1149	5.2	1388	6.3	1602	7.3	1784	8.1	1941	8.9
1125	1198	5.5	1423	6.5	1632	7.5	1815	8.3	1973	9.0
1200	1249	5.7	1460	6.7	1663	7.6	1845	8.4	2005	9.2
1275	1302	5.9	1500	6.8	1694	7.7	1875	8.6	2036	9.3
1350	1356	6.2	1542	7.0	1728	7.9	1905	8.7	2066	9.4
1425	1412	6.4	1587	7.2	1764	8.1	1936	8.8	2096	9.6
1500	1469	6.7	1634	7.5	1803	8.2	1968	9.0	2126	9.7

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	2006	9.2	2130	9.7	—	—	—	—	—	—
975	2044	9.3	2168	9.9	—	—	—	—	—	—
1050	2080	9.5	—	—	—	—	—	—	—	—
1125	2115	9.7	—	—	—	—	—	—	—	—
1200	2148	9.8	—	—	—	—	—	—	—	—
1275	2180	10.0	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Medium Static 1060-2190 RPM

RAW036 THREE PHASE – HIGH STATIC — 3 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1060	4.3	1325	5.3	1541	6.2	1718	6.9	1870	7.5
975	1103	4.4	1356	5.4	1572	6.3	1752	7.0	1906	7.7
1050	1149	4.6	1388	5.6	1602	6.4	1784	7.2	1941	7.8
1125	1198	4.8	1423	5.7	1632	6.6	1815	7.3	1973	7.9
1200	1249	5.0	1460	5.9	1663	6.7	1845	7.4	2005	8.1
1275	1302	5.2	1500	6.0	1694	6.8	1875	7.5	2036	8.2
1350	1356	5.4	1542	6.2	1728	6.9	1905	7.7	2066	8.3
1425	1412	5.7	1587	6.4	1764	7.1	1936	7.8	2096	8.4
1500	1469	5.9	1634	6.6	1803	7.2	1968	7.9	2126	8.5

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	2006	8.1	2130	8.6	2244	9.0	2352	9.4	2453	9.9
975	2044	8.2	2168	8.7	2283	9.2	2391	9.6	—	—
1050	2080	8.4	2206	8.9	2322	9.3	2430	9.8	—	—
1125	2115	8.5	2242	9.0	2359	9.5	2468	9.9	—	—
1200	2148	8.6	2277	9.1	2396	9.6	—	—	—	—
1275	2180	8.8	2311	9.3	2431	9.8	—	—	—	—
1350	2211	8.9	2343	9.4	2465	9.9	—	—	—	—
1425	2241	9.0	2375	9.5	—	—	—	—	—	—
1500	2271	9.1	2405	9.7	—	—	—	—	—	—

High Static 1060-2490 RPM

Fan data (cont)

RAW048 SINGLE PHASE — 4 TON VERTICAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1121	0.15	1327	0.25	1507	0.37	1667	0.50	1814	0.65
1300	1179	0.18	1375	0.28	1549	0.40	1705	0.54	1849	0.69
1400	1239	0.21	1425	0.31	1593	0.44	1746	0.58	1886	0.73
1500	1301	0.24	1477	0.35	1639	0.47	1788	0.62	1925	0.77
1600	1365	0.27	1531	0.39	1688	0.52	1832	0.66	1966	0.82
1700	1430	0.31	1587	0.43	1738	0.56	1878	0.71	2009	0.87
1800	1496	0.36	1644	0.48	1789	0.61	1926	0.76	2053	0.93
1900	1565	0.41	1703	0.53	1842	0.67	1975	0.82	2099	0.99
2000	1633	0.46	1764	0.59	1897	0.73	2025	0.89	2147	1.06

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1950	0.81	2077	0.97	2195	1.15	2306	1.33	2411	1.52
1300	1983	0.85	2108	1.02	2226	1.20	2337	1.38	—	—
1400	2017	0.89	2140	1.06	2257	1.24	2367	1.43	—	—
1500	2053	0.93	2174	1.11	2289	1.29	2398	1.49	—	—
1600	2092	0.98	2210	1.16	2323	1.35	—	—	—	—
1700	2132	1.04	2248	1.22	2359	1.41	—	—	—	—
1800	2174	1.10	2288	1.28	2397	1.47	—	—	—	—
1900	2217	1.16	2329	1.35	—	—	—	—	—	—
2000	2262	1.23	2372	1.42	—	—	—	—	—	—

Standard Static 1121-1900 RPM, 0.72 Max BHP

Medium Static 1121-2170 RPM, 1.06 Max BHP

High Static 1121-2460 RPM, 1.53 Max BHP

RAW048 SINGLE PHASE – STANDARD STATIC — 4 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1121	5.9	1327	7.0	1507	7.9	1667	8.8	1814	9.5
1300	1179	6.2	1375	7.2	1549	8.2	1705	9.0	1849	9.7
1400	1239	6.5	1425	7.5	1593	8.4	1746	9.2	1886	9.9
1500	1301	6.8	1477	7.8	1639	8.6	1788	9.4	—	—
1600	1365	7.2	1531	8.1	1688	8.9	1832	9.6	—	—
1700	1430	7.5	1587	8.4	1738	9.1	1878	9.9	—	—
1800	1496	7.9	1644	8.7	1789	9.4	—	—	—	—
1900	1565	8.2	1703	9.0	1842	9.7	—	—	—	—
2000	1633	8.6	1764	9.3	1897	10.0	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	—	—	—	—	—	—	—	—	—	—
1300	—	—	—	—	—	—	—	—	—	—
1400	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Standard Static 1121-1900 RPM

Fan data (cont)

RAW048 SINGLE PHASE – MEDIUM STATIC — 4 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1121	5.2	1327	6.1	1507	6.9	1667	7.7	1814	8.4
1300	1179	5.4	1375	6.3	1549	7.1	1705	7.9	1849	8.5
1400	1239	5.7	1425	6.6	1593	7.3	1746	8.0	1886	8.7
1500	1301	6.0	1477	6.8	1639	7.6	1788	8.2	1925	8.9
1600	1365	6.3	1531	7.1	1688	7.8	1832	8.4	1966	9.1
1700	1430	6.6	1587	7.3	1738	8.0	1878	8.7	2009	9.3
1800	1496	6.9	1644	7.6	1789	8.2	1926	8.9	2053	9.5
1900	1565	7.2	1703	7.8	1842	8.5	1975	9.1	2099	9.7
2000	1633	7.5	1764	8.1	1897	8.7	2025	9.3	2147	9.9

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1950	9.0	2077	9.6	—	—	—	—	—	—
1300	1983	9.1	2108	9.7	—	—	—	—	—	—
1400	2017	9.3	2140	9.9	—	—	—	—	—	—
1500	2053	9.5	—	—	—	—	—	—	—	—
1600	2092	9.6	—	—	—	—	—	—	—	—
1700	2132	9.8	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Medium Static 1121-2170 RPM

RAW048 SINGLE PHASE – HIGH STATIC — 4 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1121	4.6	1327	5.4	1507	6.1	1667	6.8	1814	7.4
1300	1179	4.8	1375	5.6	1549	6.3	1705	6.9	1849	7.5
1400	1239	5.0	1425	5.8	1593	6.5	1746	7.1	1886	7.7
1500	1301	5.3	1477	6.0	1639	6.7	1788	7.3	1925	7.8
1600	1365	5.5	1531	6.2	1688	6.9	1832	7.4	1966	8.0
1700	1430	5.8	1587	6.5	1738	7.1	1878	7.6	2009	8.2
1800	1496	6.1	1644	6.7	1789	7.3	1926	7.8	2053	8.3
1900	1565	6.4	1703	6.9	1842	7.5	1975	8.0	2099	8.5
2000	1633	6.6	1764	7.2	1897	7.7	2025	8.2	2147	8.7

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1950	7.9	2077	8.4	2195	8.9	2306	9.4	2411	9.8
1300	1983	8.1	2108	8.6	2226	9.0	2337	9.5	—	—
1400	2017	8.2	2140	8.7	2257	9.2	2367	9.6	—	—
1500	2053	8.3	2174	8.8	2289	9.3	2398	9.7	—	—
1600	2092	8.5	2210	9.0	2323	9.4	—	—	—	—
1700	2132	8.7	2248	9.1	2359	9.6	—	—	—	—
1800	2174	8.8	2288	9.3	2397	9.7	—	—	—	—
1900	2217	9.0	2329	9.5	—	—	—	—	—	—
2000	2262	9.2	2372	9.6	—	—	—	—	—	—

High Static 1121-2460 RPM

Fan data (cont)

RAW048 THREE PHASE — 4 TON VERTICAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1120	0.15	1327	0.25	1506	0.37	1667	0.50	1814	0.65
1300	1178	0.18	1375	0.28	1549	0.40	1705	0.54	1849	0.69
1400	1238	0.21	1424	0.31	1593	0.44	1745	0.57	1886	0.73
1500	1300	0.24	1476	0.35	1639	0.47	1788	0.62	1925	0.77
1600	1365	0.27	1530	0.39	1687	0.52	1832	0.66	1966	0.82
1700	1430	0.31	1586	0.43	1737	0.56	1878	0.71	2009	0.87
1800	1497	0.36	1644	0.48	1789	0.61	1925	0.76	2053	0.93
1900	1565	0.41	1703	0.53	1842	0.67	1974	0.82	2099	0.99
2000	1633	0.46	1764	0.59	1897	0.73	2025	0.89	2146	1.05

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1950	0.81	2077	0.97	2195	1.15	2306	1.33	2411	1.52
1300	1983	0.85	2108	1.02	2225	1.19	2336	1.38	2442	1.58
1400	2017	0.89	2140	1.06	2257	1.24	2367	1.43	2472	1.63
1500	2053	0.93	2174	1.11	2289	1.29	2398	1.49	2502	1.69
1600	2091	0.98	2210	1.16	2323	1.35	2431	1.55	2534	1.75
1700	2132	1.04	2248	1.22	2359	1.41	2465	1.61	2567	1.82
1800	2174	1.10	2288	1.28	2397	1.47	2501	1.67	2601	1.88
1900	2217	1.16	2329	1.35	2436	1.54	2539	1.75	2637	1.96
2000	2262	1.23	2372	1.42	2477	1.62	2578	1.83	—	—

Standard Static 1120-1900 RPM, 0.72 Max BHP

Medium Static 1120-2170 RPM, 1.06 Max BHP

High Static 1120-2660 RPM, 1.96 Max BHP

RAW048 THREE PHASE – STANDARD STATIC — 4 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1120	5.9	1327	7.0	1506	7.9	1667	8.8	1814	9.5
1300	1178	6.2	1375	7.2	1549	8.2	1705	9.0	1849	9.7
1400	1238	6.5	1424	7.5	1593	8.4	1745	9.2	1886	9.9
1500	1300	6.8	1476	7.8	1639	8.6	1788	9.4	—	—
1600	1365	7.2	1530	8.1	1687	8.9	1832	9.6	—	—
1700	1430	7.5	1586	8.3	1737	9.1	1878	9.9	—	—
1800	1497	7.9	1644	8.7	1789	9.4	—	—	—	—
1900	1565	8.2	1703	9.0	1842	9.7	—	—	—	—
2000	1633	8.6	1764	9.3	1897	10.0	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	—	—	—	—	—	—	—	—	—	—
1300	—	—	—	—	—	—	—	—	—	—
1400	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Standard Static 1120-1900 RPM

Fan data (cont)

RAW048 THREE PHASE – MEDIUM STATIC — 4 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1120	5.2	1327	6.1	1506	6.9	1667	7.7	1814	8.4
1300	1178	5.4	1375	6.3	1549	7.1	1705	7.9	1849	8.5
1400	1238	5.7	1424	6.6	1593	7.3	1745	8.0	1886	8.7
1500	1300	6.0	1476	6.8	1639	7.6	1788	8.2	1925	8.9
1600	1365	6.3	1530	7.1	1687	7.8	1832	8.4	1966	9.1
1700	1430	6.6	1586	7.3	1737	8.0	1878	8.7	2009	9.3
1800	1497	6.9	1644	7.6	1789	8.2	1925	8.9	2053	9.5
1900	1565	7.2	1703	7.8	1842	8.5	1974	9.1	2099	9.7
2000	1633	7.5	1764	8.1	1897	8.7	2025	9.3	2146	9.9

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1950	9.0	2077	9.6	—	—	—	—	—	—
1300	1983	9.1	2108	9.7	—	—	—	—	—	—
1400	2017	9.3	2140	9.9	—	—	—	—	—	—
1500	2053	9.5	—	—	—	—	—	—	—	—
1600	2091	9.6	—	—	—	—	—	—	—	—
1700	2132	9.8	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Medium Static 1120-2170 RPM

RAW048 THREE PHASE – HIGH STATIC — 4 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1120	4.2	1327	5.0	1506	5.7	1667	6.3	1814	6.8
1300	1178	4.4	1375	5.2	1549	5.8	1705	6.4	1849	7.0
1400	1238	4.7	1424	5.4	1593	6.0	1745	6.6	1886	7.1
1500	1300	4.9	1476	5.5	1639	6.2	1788	6.7	1925	7.2
1600	1365	5.1	1530	5.8	1687	6.3	1832	6.9	1966	7.4
1700	1430	5.4	1586	6.0	1737	6.5	1878	7.1	2009	7.6
1800	1497	5.6	1644	6.2	1789	6.7	1925	7.2	2053	7.7
1900	1565	5.9	1703	6.4	1842	6.9	1974	7.4	2099	7.9
2000	1633	6.1	1764	6.6	1897	7.1	2025	7.6	2146	8.1

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1950	7.3	2077	7.8	2195	8.3	2306	8.7	2411	9.1
1300	1983	7.5	2108	7.9	2225	8.4	2336	8.8	2442	9.2
1400	2017	7.6	2140	8.0	2257	8.5	2367	8.9	2472	9.3
1500	2053	7.7	2174	8.2	2289	8.6	2398	9.0	2502	9.4
1600	2091	7.9	2210	8.3	2323	8.7	2431	9.1	2534	9.5
1700	2132	8.0	2248	8.5	2359	8.9	2465	9.3	2567	9.7
1800	2174	8.2	2288	8.6	2397	9.0	2501	9.4	2601	9.8
1900	2217	8.3	2329	8.8	2436	9.2	2539	9.5	2637	9.9
2000	2262	8.5	2372	8.9	2477	9.3	2578	9.7	—	—

High Static 1120-2660 RPM

Fan data (cont)

RAW060 SINGLE PHASE — 5 TON VERTICAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1228	0.20	1394	0.29	1555	0.40	1701	0.53	1836	0.66
1625	1305	0.24	1457	0.33	1609	0.44	1751	0.57	1882	0.71
1750	1384	0.28	1523	0.37	1666	0.49	1803	0.62	1930	0.76
1875	1466	0.33	1592	0.43	1726	0.54	1857	0.67	1981	0.82
2000	1549	0.39	1664	0.48	1789	0.60	1914	0.74	2034	0.88
2125	1633	0.46	1738	0.55	1855	0.67	1974	0.81	2089	0.95
2250	1718	0.53	1815	0.62	1924	0.74	2036	0.88	2147	1.03
2375	1803	0.61	1894	0.71	1995	0.83	2100	0.97	2206	1.12
2500	1890	0.70	1974	0.80	2068	0.92	2167	1.06	2268	1.21

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1961	0.80	2079	0.96	2191	1.12	2297	1.29	—	—
1625	2004	0.85	2120	1.01	2230	1.18	2334	1.35	—	—
1750	2050	0.91	2163	1.07	2270	1.24	2373	1.41	—	—
1875	2098	0.97	2208	1.13	2314	1.31	—	—	—	—
2000	2148	1.04	2256	1.21	2359	1.38	—	—	—	—
2125	2200	1.11	2306	1.28	—	—	—	—	—	—
2250	2254	1.20	2357	1.37	—	—	—	—	—	—
2375	2310	1.28	—	—	—	—	—	—	—	—
2500	2368	1.38	—	—	—	—	—	—	—	—

Standard Static 1228-2150 RPM, 1.06 Max BHP

Medium Static 1228-2390 RPM, 1.44 Max BHP

RAW060 SINGLE PHASE – STANDARD STATIC — 5 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1228	5.7	1394	6.5	1555	7.2	1701	7.9	1836	8.5
1625	1305	6.1	1457	6.8	1609	7.5	1751	8.1	1882	8.8
1750	1384	6.4	1523	7.1	1666	7.7	1803	8.4	1930	9.0
1875	1466	6.8	1592	7.4	1726	8.0	1857	8.6	1981	9.2
2000	1549	7.2	1664	7.7	1789	8.3	1914	8.9	2034	9.5
2125	1633	7.6	1738	8.1	1855	8.6	1974	9.2	2089	9.7
2250	1718	8.0	1815	8.4	1924	8.9	2036	9.5	2147	10.0
2375	1803	8.4	1894	8.8	1995	9.3	2100	9.8	—	—
2500	1890	8.8	1974	9.2	2068	9.6	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1961	9.1	2079	9.7	—	—	—	—	—	—
1625	2004	9.3	2120	9.9	—	—	—	—	—	—
1750	2050	9.5	—	—	—	—	—	—	—	—
1875	2098	9.8	—	—	—	—	—	—	—	—
2000	2148	10.0	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Standard Static 1228-2150 RPM

Fan data (cont)

RAW060 SINGLE PHASE – MEDIUM STATIC — 3 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1228	5.1	1394	5.8	1555	6.5	1701	7.1	1836	7.7
1625	1305	5.5	1457	6.1	1609	6.7	1751	7.3	1882	7.9
1750	1384	5.8	1523	6.4	1666	7.0	1803	7.5	1930	8.1
1875	1466	6.1	1592	6.7	1726	7.2	1857	7.8	1981	8.3
2000	1549	6.5	1664	7.0	1789	7.5	1914	8.0	2034	8.5
2125	1633	6.8	1738	7.3	1855	7.8	1974	8.3	2089	8.7
2250	1718	7.2	1815	7.6	1924	8.1	2036	8.5	2147	9.0
2375	1803	7.5	1894	7.9	1995	8.3	2100	8.8	2206	9.2
2500	1890	7.9	1974	8.3	2068	8.7	2167	9.1	2268	9.5

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1961	8.2	2079	8.7	2191	9.2	2297	9.6	—	—
1625	2004	8.4	2120	8.9	2230	9.3	2334	9.8	—	—
1750	2050	8.6	2163	9.1	2270	9.5	2373	9.9	—	—
1875	2098	8.8	2208	9.2	2314	9.7	—	—	—	—
2000	2148	9.0	2256	9.4	2359	9.9	—	—	—	—
2125	2200	9.2	2306	9.6	—	—	—	—	—	—
2250	2254	9.4	2357	9.9	—	—	—	—	—	—
2375	2310	9.7	—	—	—	—	—	—	—	—
2500	2368	9.9	—	—	—	—	—	—	—	—

Medium Static 1228-2390 RPM

Fan data (cont)

RAW060 THREE PHASE — 5 TON VERTICAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1228	0.20	1394	0.29	1555	0.40	1701	0.53	1836	0.66
1625	1305	0.24	1457	0.33	1609	0.44	1751	0.57	1882	0.71
1750	1384	0.28	1523	0.37	1666	0.49	1803	0.62	1930	0.76
1875	1466	0.33	1592	0.43	1726	0.54	1857	0.67	1981	0.82
2000	1549	0.39	1664	0.48	1789	0.60	1914	0.74	2034	0.88
2125	1633	0.46	1738	0.55	1855	0.67	1974	0.81	2089	0.95
2250	1718	0.53	1815	0.62	1924	0.74	2036	0.88	2147	1.03
2375	1803	0.61	1894	0.71	1995	0.83	2100	0.97	2206	1.12
2500	1890	0.70	1974	0.80	2068	0.92	2167	1.06	2268	1.21

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1961	0.80	2079	0.96	2191	1.12	2297	1.29	2399	1.47
1625	2004	0.85	2120	1.01	2230	1.18	2334	1.35	2434	1.53
1750	2050	0.91	2163	1.07	2270	1.24	2373	1.41	2472	1.60
1875	2098	0.97	2208	1.13	2314	1.31	2415	1.48	2511	1.67
2000	2148	1.04	2256	1.21	2359	1.38	2458	1.56	2553	1.75
2125	2200	1.11	2306	1.28	2407	1.46	2504	1.64	2597	1.83
2250	2254	1.20	2357	1.37	2456	1.55	2551	1.73	2643	1.93
2375	2310	1.28	2411	1.46	2507	1.64	2601	1.83	2691	2.03
2500	2368	1.38	2465	1.56	2560	1.75	2651	1.94	2740	2.14

Standard Static 1228-2150 RPM, 1.06 Max BHP

Medium Static 1228-2390 RPM, 1.44 Max BHP

High Static 1228-2836 RPM, 2.43 Max BHP

RAW060 THREE PHASE – STANDARD STATIC — 5 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1228	5.7	1394	6.5	1555	7.2	1701	7.9	1836	8.5
1625	1305	6.1	1457	6.8	1609	7.5	1751	8.1	1882	8.8
1750	1384	6.4	1523	7.1	1666	7.7	1803	8.4	1930	9.0
1875	1466	6.8	1592	7.4	1726	8.0	1857	8.6	1981	9.2
2000	1549	7.2	1664	7.7	1789	8.3	1914	8.9	2034	9.5
2125	1633	7.6	1738	8.1	1855	8.6	1974	9.2	2089	9.7
2250	1718	8.0	1815	8.4	1924	8.9	2036	9.5	2147	10.0
2375	1803	8.4	1894	8.8	1995	9.3	2100	9.8	—	—
2500	1890	8.8	1974	9.2	2068	9.6	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1961	9.1	2079	9.7	—	—	—	—	—	—
1625	2004	9.3	2120	9.9	—	—	—	—	—	—
1750	2050	9.5	—	—	—	—	—	—	—	—
1875	2098	9.8	—	—	—	—	—	—	—	—
2000	2148	10.0	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Standard Static 1228-2150 RPM

Fan data (cont)

RAW060 THREE PHASE – MEDIUM STATIC — 5 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1228	5.1	1394	5.8	1555	6.5	1701	7.1	1836	7.7
1625	1305	5.5	1457	6.1	1609	6.7	1751	7.3	1882	7.9
1750	1384	5.8	1523	6.4	1666	7.0	1803	7.5	1930	8.1
1875	1466	6.1	1592	6.7	1726	7.2	1857	7.8	1981	8.3
2000	1549	6.5	1664	7.0	1789	7.5	1914	8.0	2034	8.5
2125	1633	6.8	1738	7.3	1855	7.8	1974	8.3	2089	8.7
2250	1718	7.2	1815	7.6	1924	8.1	2036	8.5	2147	9.0
2375	1803	7.5	1894	7.9	1995	8.3	2100	8.8	2206	9.2
2500	1890	7.9	1974	8.3	2068	8.7	2167	9.1	2268	9.5

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1961	8.2	2079	8.7	2191	9.2	2297	9.6	—	—
1625	2004	8.4	2120	8.9	2230	9.3	2334	9.8	—	—
1750	2050	8.6	2163	9.1	2270	9.5	2373	9.9	—	—
1875	2098	8.8	2208	9.2	2314	9.7	—	—	—	—
2000	2148	9.0	2256	9.4	2359	9.9	—	—	—	—
2125	2200	9.2	2306	9.6	—	—	—	—	—	—
2250	2254	9.4	2357	9.9	—	—	—	—	—	—
2375	2310	9.7	—	—	—	—	—	—	—	—
2500	2368	9.9	—	—	—	—	—	—	—	—

Medium Static 1228-2390 RPM

RAW060 THREE PHASE – HIGH STATIC — 5 TON VERTICAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1228	4.3	1394	4.9	1555	5.5	1701	6.0	1836	6.5
1625	1305	4.6	1457	5.1	1609	5.7	1751	6.2	1882	6.6
1750	1384	4.9	1523	5.4	1666	5.9	1803	6.4	1930	6.8
1875	1466	5.2	1592	5.6	1726	6.1	1857	6.5	1981	7.0
2000	1549	5.5	1664	5.9	1789	6.3	1914	6.7	2034	7.2
2125	1633	5.8	1738	6.1	1855	6.5	1974	7.0	2089	7.4
2250	1718	6.1	1815	6.4	1924	6.8	2036	7.2	2147	7.6
2375	1803	6.4	1894	6.7	1995	7.0	2100	7.4	2206	7.8
2500	1890	6.7	1974	7.0	2068	7.3	2167	7.6	2268	8.0

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1961	6.9	2079	7.3	2191	7.7	2297	8.1	2399	8.5
1625	2004	7.1	2120	7.5	2230	7.9	2334	8.2	2434	8.6
1750	2050	7.2	2163	7.6	2270	8.0	2373	8.4	2472	8.7
1875	2098	7.4	2208	7.8	2314	8.2	2415	8.5	2511	8.9
2000	2148	7.6	2256	8.0	2359	8.3	2458	8.7	2553	9.0
2125	2200	7.8	2306	8.1	2407	8.5	2504	8.8	2597	9.2
2250	2254	7.9	2357	8.3	2456	8.7	2551	9.0	2643	9.3
2375	2310	8.1	2411	8.5	2507	8.8	2601	9.2	2691	9.5
2500	2368	8.3	2465	8.7	2560	9.0	2651	9.3	2740	9.7

High Static 1228-2836 RPM

Fan data (cont)

RAW036 SINGLE PHASE — 3 TON HORIZONTAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1037	0.08	1301	0.15	1517	0.24	1697	0.34	1855	0.44
975	1076	0.09	1331	0.16	1545	0.26	1727	0.36	1885	0.47
1050	1119	0.10	1362	0.18	1573	0.27	1755	0.38	1915	0.49
1125	1164	0.11	1395	0.19	1602	0.29	1783	0.39	1944	0.51
1200	1211	0.12	1429	0.20	1632	0.30	1812	0.41	1972	0.53
1275	1261	0.14	1466	0.22	1663	0.32	1841	0.43	2000	0.56
1350	1313	0.16	1506	0.24	1695	0.34	1870	0.46	2029	0.58
1425	1366	0.18	1548	0.26	1729	0.36	1900	0.48	2058	0.61
1500	1420	0.20	1591	0.28	1765	0.38	1932	0.50	2087	0.63

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1995	0.55	2123	0.67	2241	0.78	2352	0.91	2455	1.03
975	2027	0.58	2157	0.70	2276	0.82	2387	0.95	—	—
1050	2058	0.61	2189	0.73	2309	0.86	2421	0.99	—	—
1125	2088	0.63	2219	0.76	2341	0.89	2454	1.03	—	—
1200	2117	0.66	2249	0.79	2371	0.93	2485	1.07	—	—
1275	2146	0.69	2278	0.82	2401	0.96	—	—	—	—
1350	2174	0.72	2307	0.86	2431	1.00	—	—	—	—
1425	2202	0.74	2335	0.89	2459	1.04	—	—	—	—
1500	2231	0.77	2364	0.92	2488	1.07	—	—	—	—

Standard Static 1037-1890 RPM, 0.44 Max BHP

Medium Static 1037-2190 RPM, 0.71 Max BHP

High Static 1037-2490 RPM, 1.07 Max BHP

RAW036 SINGLE PHASE – STANDARD STATIC — 3 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1037	5.5	1301	6.9	1517	8.0	1697	9.0	1855	9.8
975	1076	5.7	1331	7.0	1545	8.2	1727	9.1	—	—
1050	1119	5.9	1362	7.2	1573	8.3	1755	9.3	—	—
1125	1164	6.2	1395	7.4	1602	8.5	1783	9.4	—	—
1200	1211	6.4	1429	7.6	1632	8.6	1812	9.6	—	—
1275	1261	6.7	1466	7.8	1663	8.8	1841	9.7	—	—
1350	1313	6.9	1506	8.0	1695	9.0	—	—	—	—
1425	1366	7.2	1548	8.2	1729	9.1	—	—	—	—
1500	1420	7.5	1591	8.4	1765	9.3	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	—	—	—	—	—	—	—	—	—	—
975	—	—	—	—	—	—	—	—	—	—
1050	—	—	—	—	—	—	—	—	—	—
1125	—	—	—	—	—	—	—	—	—	—
1200	—	—	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Standard Static 1037-1890 RPM

Fan data (cont)

RAW036 SINGLE PHASE – MEDIUM STATIC — 3 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1037	4.7	1301	5.9	1517	6.9	1697	7.7	1855	8.5
975	1076	4.9	1331	6.1	1545	7.1	1727	7.9	1885	8.6
1050	1119	5.1	1362	6.2	1573	7.2	1755	8.0	1915	8.7
1125	1164	5.3	1395	6.4	1602	7.3	1783	8.1	1944	8.9
1200	1211	5.5	1429	6.5	1632	7.5	1812	8.3	1972	9.0
1275	1261	5.8	1466	6.7	1663	7.6	1841	8.4	2000	9.1
1350	1313	6.0	1506	6.9	1695	7.7	1870	8.5	2029	9.3
1425	1366	6.2	1548	7.1	1729	7.9	1900	8.7	2058	9.4
1500	1420	6.5	1591	7.3	1765	8.1	1932	8.8	2087	9.5

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1995	9.1	2123	9.7	—	—	—	—	—	—
975	2027	9.3	2157	9.8	—	—	—	—	—	—
1050	2058	9.4	—	—	—	—	—	—	—	—
1125	2088	9.5	—	—	—	—	—	—	—	—
1200	2117	9.7	—	—	—	—	—	—	—	—
1275	2146	9.8	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Medium Static 1037-2190 RPM

RAW036 SINGLE PHASE – HIGH STATIC — 3 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1037	4.2	1301	5.2	1517	6.1	1697	6.8	1855	7.4
975	1076	4.3	1331	5.3	1545	6.2	1727	6.9	1885	7.6
1050	1119	4.5	1362	5.5	1573	6.3	1755	7.0	1915	7.7
1125	1164	4.7	1395	5.6	1602	6.4	1783	7.2	1944	7.8
1200	1211	4.9	1429	5.7	1632	6.6	1812	7.3	1972	7.9
1275	1261	5.1	1466	5.9	1663	6.7	1841	7.4	2000	8.0
1350	1313	5.3	1506	6.0	1695	6.8	1870	7.5	2029	8.1
1425	1366	5.5	1548	6.2	1729	6.9	1900	7.6	2058	8.3
1500	1420	5.7	1591	6.4	1765	7.1	1932	7.8	2087	8.4

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1995	8.0	2123	8.5	2241	9.0	2352	9.4	2455	9.9
975	2027	8.1	2157	8.7	2276	9.1	2387	9.6	—	—
1050	2058	8.3	2189	8.8	2309	9.3	2421	9.7	—	—
1125	2088	8.4	2219	8.9	2341	9.4	2454	9.9	—	—
1200	2117	8.5	2249	9.0	2371	9.5	2485	10.0	—	—
1275	2146	8.6	2278	9.1	2401	9.6	—	—	—	—
1350	2174	8.7	2307	9.3	2431	9.8	—	—	—	—
1425	2202	8.8	2335	9.4	2459	9.9	—	—	—	—
1500	2231	9.0	2364	9.5	2488	10.0	—	—	—	—

High Static 1037-2490 RPM

Fan data (cont)

RAW036 THREE PHASE — 3 TON HORIZONTAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1037	0.08	1301	0.15	1517	0.24	1697	0.34	1855	0.44
975	1076	0.09	1331	0.16	1545	0.26	1727	0.36	1885	0.47
1050	1119	0.10	1362	0.18	1573	0.27	1755	0.38	1915	0.49
1125	1164	0.11	1395	0.19	1602	0.29	1783	0.39	1944	0.51
1200	1211	0.12	1429	0.20	1632	0.30	1812	0.41	1972	0.53
1275	1261	0.14	1466	0.22	1663	0.32	1841	0.43	2000	0.56
1350	1313	0.16	1506	0.24	1695	0.34	1870	0.46	2029	0.58
1425	1366	0.18	1548	0.26	1729	0.36	1900	0.48	2058	0.61
1500	1420	0.20	1591	0.28	1765	0.38	1932	0.50	2087	0.63

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1995	0.55	2123	0.67	2241	0.78	2352	0.91	2455	1.03
975	2027	0.58	2157	0.70	2276	0.82	2387	0.95	—	—
1050	2058	0.61	2189	0.73	2309	0.86	2421	0.99	—	—
1125	2088	0.63	2219	0.76	2341	0.89	2454	1.03	—	—
1200	2117	0.66	2249	0.79	2371	0.93	2485	1.07	—	—
1275	2146	0.69	2278	0.82	2401	0.96	—	—	—	—
1350	2174	0.72	2307	0.86	2431	1.00	—	—	—	—
1425	2202	0.74	2335	0.89	2459	1.04	—	—	—	—
1500	2231	0.77	2364	0.92	2488	1.07	—	—	—	—

Standard Static 1037-1890 RPM, 0.44 Max BHP

Medium Static 1037-2190 RPM, 0.71 Max BHP

High Static 1037-2490 RPM, 1.07 Max BHP

RAW036 THREE PHASE – STANDARD STATIC — 3 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1037	5.5	1301	6.9	1517	8.0	1697	9.0	1855	9.8
975	1076	5.7	1331	7.0	1545	8.2	1727	9.1	—	—
1050	1119	5.9	1362	7.2	1573	8.3	1755	9.3	—	—
1125	1164	6.2	1395	7.4	1602	8.5	1783	9.4	—	—
1200	1211	6.4	1429	7.6	1632	8.6	1812	9.6	—	—
1275	1261	6.7	1466	7.8	1663	8.8	1841	9.7	—	—
1350	1313	6.9	1506	8.0	1695	9.0	—	—	—	—
1425	1366	7.2	1548	8.2	1729	9.1	—	—	—	—
1500	1420	7.5	1591	8.4	1765	9.3	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	—	—	—	—	—	—	—	—	—	—
975	—	—	—	—	—	—	—	—	—	—
1050	—	—	—	—	—	—	—	—	—	—
1125	—	—	—	—	—	—	—	—	—	—
1200	—	—	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Standard Static 1037-1890 RPM

Fan data (cont)

RAW036 SINGLE PHASE – MEDIUM STATIC — 3 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1037	4.7	1301	5.9	1517	6.9	1697	7.7	1855	8.5
975	1076	4.9	1331	6.1	1545	7.1	1727	7.9	1885	8.6
1050	1119	5.1	1362	6.2	1573	7.2	1755	8.0	1915	8.7
1125	1164	5.3	1395	6.4	1602	7.3	1783	8.1	1944	8.9
1200	1211	5.5	1429	6.5	1632	7.5	1812	8.3	1972	9.0
1275	1261	5.8	1466	6.7	1663	7.6	1841	8.4	2000	9.1
1350	1313	6.0	1506	6.9	1695	7.7	1870	8.5	2029	9.3
1425	1366	6.2	1548	7.1	1729	7.9	1900	8.7	2058	9.4
1500	1420	6.5	1591	7.3	1765	8.1	1932	8.8	2087	9.5

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1995	9.1	2123	9.7	—	—	—	—	—	—
975	2027	9.3	2157	9.8	—	—	—	—	—	—
1050	2058	9.4	—	—	—	—	—	—	—	—
1125	2088	9.5	—	—	—	—	—	—	—	—
1200	2117	9.7	—	—	—	—	—	—	—	—
1275	2146	9.8	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Medium Static 1037-2190 RPM

RAW036 SINGLE PHASE – HIGH STATIC — 3 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1037	4.2	1301	5.2	1517	6.1	1697	6.8	1855	7.4
975	1076	4.3	1331	5.3	1545	6.2	1727	6.9	1885	7.6
1050	1119	4.5	1362	5.5	1573	6.3	1755	7.0	1915	7.7
1125	1164	4.7	1395	5.6	1602	6.4	1783	7.2	1944	7.8
1200	1211	4.9	1429	5.7	1632	6.6	1812	7.3	1972	7.9
1275	1261	5.1	1466	5.9	1663	6.7	1841	7.4	2000	8.0
1350	1313	5.3	1506	6.0	1695	6.8	1870	7.5	2029	8.1
1425	1366	5.5	1548	6.2	1729	6.9	1900	7.6	2058	8.3
1500	1420	5.7	1591	6.4	1765	7.1	1932	7.8	2087	8.4

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
900	1995	8.0	2123	8.5	2241	9.0	2352	9.4	2455	9.9
975	2027	8.1	2157	8.7	2276	9.1	2387	9.6	—	—
1050	2058	8.3	2189	8.8	2309	9.3	2421	9.7	—	—
1125	2088	8.4	2219	8.9	2341	9.4	2454	9.9	—	—
1200	2117	8.5	2249	9.0	2371	9.5	2485	10.0	—	—
1275	2146	8.6	2278	9.1	2401	9.6	—	—	—	—
1350	2174	8.7	2307	9.3	2431	9.8	—	—	—	—
1425	2202	8.8	2335	9.4	2459	9.9	—	—	—	—
1500	2231	9.0	2364	9.5	2488	10.0	—	—	—	—

High Static 1037-2490 RPM

Fan data (cont)

RAW048 SINGLE PHASE — 4 TON HORIZONTAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1092	0.14	1306	0.24	1497	0.35	1667	0.49	1819	0.64
1300	1148	0.16	1348	0.26	1533	0.38	1700	0.52	1851	0.67
1400	1207	0.18	1394	0.28	1571	0.41	1734	0.55	1882	0.70
1500	1267	0.21	1442	0.31	1612	0.44	1770	0.58	1916	0.73
1600	1329	0.24	1493	0.35	1655	0.47	1808	0.61	1951	0.77
1700	1393	0.28	1546	0.38	1700	0.51	1848	0.65	1988	0.81
1800	1458	0.32	1602	0.42	1748	0.55	1890	0.70	2026	0.86
1900	1523	0.36	1659	0.47	1797	0.60	1934	0.75	2066	0.91
2000	1590	0.41	1719	0.52	1849	0.65	1980	0.80	2108	0.96

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1958	0.79	2089	0.96	2211	1.14	2327	1.33	2438	1.53
1300	1988	0.83	2117	1.00	2238	1.18	2352	1.37	—	—
1400	2020	0.86	2146	1.03	2266	1.22	2379	1.41	—	—
1500	2051	0.90	2177	1.08	2296	1.26	2408	1.46	—	—
1600	2084	0.94	2209	1.12	2327	1.31	2438	1.51	—	—
1700	2119	0.99	2242	1.17	2358	1.36	—	—	—	—
1800	2154	1.03	2276	1.22	2391	1.41	—	—	—	—
1900	2191	1.08	2311	1.27	2424	1.47	—	—	—	—
2000	2230	1.14	2347	1.33	2459	1.53	—	—	—	—

Standard Static 1092-1900 RPM, 0.72 Max BHP

Medium Static 1092-2170 RPM, 1.06 Max BHP

High Static 1092-2460 RPM, 1.53 Max BHP

RAW048 SINGLE PHASE – STANDARD STATIC — 4 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1092	5.7	1306	6.9	1497	7.9	1667	8.8	1819	9.6
1300	1148	6.0	1348	7.1	1533	8.1	1700	8.9	1851	9.7
1400	1207	6.4	1394	7.3	1571	8.3	1734	9.1	1882	9.9
1500	1267	6.7	1442	7.6	1612	8.5	1770	9.3	—	—
1600	1329	7.0	1493	7.9	1655	8.7	1808	9.5	—	—
1700	1393	7.3	1546	8.1	1700	8.9	1848	9.7	—	—
1800	1458	7.7	1602	8.4	1748	9.2	1890	9.9	—	—
1900	1523	8.0	1659	8.7	1797	9.5	—	—	—	—
2000	1590	8.4	1719	9.0	1849	9.7	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	—	—	—	—	—	—	—	—	—	—
1300	—	—	—	—	—	—	—	—	—	—
1400	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Standard Static 1092-1900 RPM

Fan data (cont)

RAW048 SINGLE PHASE – MEDIUM STATIC — 4 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1092	5.0	1306	6.0	1497	6.9	1667	7.7	1819	8.4
1300	1148	5.3	1348	6.2	1533	7.1	1700	7.8	1851	8.5
1400	1207	5.6	1394	6.4	1571	7.2	1734	8.0	1882	8.7
1500	1267	5.8	1442	6.6	1612	7.4	1770	8.2	1916	8.8
1600	1329	6.1	1493	6.9	1655	7.6	1808	8.3	1951	9.0
1700	1393	6.4	1546	7.1	1700	7.8	1848	8.5	1988	9.2
1800	1458	6.7	1602	7.4	1748	8.1	1890	8.7	2026	9.3
1900	1523	7.0	1659	7.6	1797	8.3	1934	8.9	2066	9.5
2000	1590	7.3	1719	7.9	1849	8.5	1980	9.1	2108	9.7

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1958	9.0	2089	9.6	—	—	—	—	—	—
1300	1988	9.2	2117	9.8	—	—	—	—	—	—
1400	2020	9.3	2146	9.9	—	—	—	—	—	—
1500	2051	9.5	—	—	—	—	—	—	—	—
1600	2084	9.6	—	—	—	—	—	—	—	—
1700	2119	9.8	—	—	—	—	—	—	—	—
1800	2154	9.9	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Medium Static 1092-2170 RPM

RAW048 SINGLE PHASE – HIGH STATIC — 4 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1092	4.4	1306	5.3	1497	6.1	1667	6.8	1819	7.4
1300	1148	4.7	1348	5.5	1533	6.2	1700	6.9	1851	7.5
1400	1207	4.9	1394	5.7	1571	6.4	1734	7.0	1882	7.7
1500	1267	5.2	1442	5.9	1612	6.6	1770	7.2	1916	7.8
1600	1329	5.4	1493	6.1	1655	6.7	1808	7.3	1951	7.9
1700	1393	5.7	1546	6.3	1700	6.9	1848	7.5	1988	8.1
1800	1458	5.9	1602	6.5	1748	7.1	1890	7.7	2026	8.2
1900	1523	6.2	1659	6.7	1797	7.3	1934	7.9	2066	8.4
2000	1590	6.5	1719	7.0	1849	7.5	1980	8.0	2108	8.6

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1958	8.0	2089	8.5	2211	9.0	2327	9.5	2438	9.9
1300	1988	8.1	2117	8.6	2238	9.1	2352	9.6	—	—
1400	2020	8.2	2146	8.7	2266	9.2	2379	9.7	—	—
1500	2051	8.3	2177	8.8	2296	9.3	2408	9.8	—	—
1600	2084	8.5	2209	9.0	2327	9.5	2438	9.9	—	—
1700	2119	8.6	2242	9.1	2358	9.6	—	—	—	—
1800	2154	8.8	2276	9.3	2391	9.7	—	—	—	—
1900	2191	8.9	2311	9.4	2424	9.9	—	—	—	—
2000	2230	9.1	2347	9.5	2459	10.0	—	—	—	—

High Static 1092-2460 RPM

Fan data (cont)

RAW048 THREE PHASE — 4 TON HORIZONTAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1092	0.14	1306	0.24	1497	0.35	1667	0.49	1819	0.64
1300	1148	0.16	1348	0.26	1533	0.38	1700	0.52	1851	0.67
1400	1207	0.18	1394	0.28	1571	0.41	1734	0.55	1882	0.70
1500	1267	0.21	1442	0.31	1612	0.44	1770	0.58	1916	0.73
1600	1329	0.24	1493	0.35	1655	0.47	1808	0.61	1951	0.77
1700	1393	0.28	1546	0.38	1700	0.51	1848	0.65	1988	0.81
1800	1458	0.32	1602	0.42	1748	0.55	1890	0.70	2026	0.86
1900	1523	0.36	1659	0.47	1797	0.60	1934	0.75	2066	0.91
2000	1590	0.41	1719	0.52	1849	0.65	1980	0.80	2108	0.96

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1958	0.79	2089	0.96	2211	1.14	2327	1.33	2438	1.53
1300	1988	0.83	2117	1.00	2238	1.18	2352	1.37	2462	1.57
1400	2020	0.86	2146	1.03	2266	1.22	2379	1.41	2487	1.61
1500	2051	0.90	2177	1.08	2296	1.26	2408	1.46	2515	1.66
1600	2084	0.94	2209	1.12	2327	1.31	2438	1.51	2544	1.71
1700	2119	0.99	2242	1.17	2358	1.36	2469	1.56	2574	1.77
1800	2154	1.03	2276	1.22	2391	1.41	2500	1.61	2604	1.82
1900	2191	1.08	2311	1.27	2424	1.47	2533	1.68	2636	1.89
2000	2230	1.14	2347	1.33	2459	1.53	2566	1.74	—	—

Standard Static 1092-1900 RPM, 0.72 Max BHP

Medium Static 1092-2170 RPM, 1.06 Max BHP

High Static 1092-2660 RPM, 1.96 Max BHP

RAW048 THREE PHASE – STANDARD STATIC — 4 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1092	5.7	1306	6.9	1497	7.9	1667	8.8	1819	9.6
1300	1148	6.0	1348	7.1	1533	8.1	1700	8.9	1851	9.7
1400	1207	6.4	1394	7.3	1571	8.3	1734	9.1	1882	9.9
1500	1267	6.7	1442	7.6	1612	8.5	1770	9.3	—	—
1600	1329	7.0	1493	7.9	1655	8.7	1808	9.5	—	—
1700	1393	7.3	1546	8.1	1700	8.9	1848	9.7	—	—
1800	1458	7.7	1602	8.4	1748	9.2	1890	9.9	—	—
1900	1523	8.0	1659	8.7	1797	9.5	—	—	—	—
2000	1590	8.4	1719	9.0	1849	9.7	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	—	—	—	—	—	—	—	—	—	—
1300	—	—	—	—	—	—	—	—	—	—
1400	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Standard Static 1092-1900 RPM

Fan data (cont)

RAW048 THREE PHASE – MEDIUM STATIC — 4 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1092	5.0	1306	6.0	1497	6.9	1667	7.7	1819	8.4
1300	1148	5.3	1348	6.2	1533	7.1	1700	7.8	1851	8.5
1400	1207	5.6	1394	6.4	1571	7.2	1734	8.0	1882	8.7
1500	1267	5.8	1442	6.6	1612	7.4	1770	8.2	1916	8.8
1600	1329	6.1	1493	6.9	1655	7.6	1808	8.3	1951	9.0
1700	1393	6.4	1546	7.1	1700	7.8	1848	8.5	1988	9.2
1800	1458	6.7	1602	7.4	1748	8.1	1890	8.7	2026	9.3
1900	1523	7.0	1659	7.6	1797	8.3	1934	8.9	2066	9.5
2000	1590	7.3	1719	7.9	1849	8.5	1980	9.1	2108	9.7

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1958	9.0	2089	9.6	—	—	—	—	—	—
1300	1988	9.2	2117	9.8	—	—	—	—	—	—
1400	2020	9.3	2146	9.9	—	—	—	—	—	—
1500	2051	9.5	—	—	—	—	—	—	—	—
1600	2084	9.6	—	—	—	—	—	—	—	—
1700	2119	9.8	—	—	—	—	—	—	—	—
1800	2154	9.9	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Medium Static 1092-2170 RPM

RAW048 THREE PHASE – HIGH STATIC — 4 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1092	4.1	1306	4.9	1497	5.6	1667	6.3	1819	6.8
1300	1148	4.3	1348	5.1	1533	5.8	1700	6.4	1851	7.0
1400	1207	4.5	1394	5.2	1571	5.9	1734	6.5	1882	7.1
1500	1267	4.8	1442	5.4	1612	6.1	1770	6.7	1916	7.2
1600	1329	5.0	1493	5.6	1655	6.2	1808	6.8	1951	7.3
1700	1393	5.2	1546	5.8	1700	6.4	1848	6.9	1988	7.5
1800	1458	5.5	1602	6.0	1748	6.6	1890	7.1	2026	7.6
1900	1523	5.7	1659	6.2	1797	6.8	1934	7.3	2066	7.8
2000	1590	6.0	1719	6.5	1849	7.0	1980	7.4	2108	7.9

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1200	1958	7.4	2089	7.9	2211	8.3	2327	8.7	2438	9.2
1300	1988	7.5	2117	8.0	2238	8.4	2352	8.8	2462	9.3
1400	2020	7.6	2146	8.1	2266	8.5	2379	8.9	2487	9.3
1500	2051	7.7	2177	8.2	2296	8.6	2408	9.1	2515	9.5
1600	2084	7.8	2209	8.3	2327	8.7	2438	9.2	2544	9.6
1700	2119	8.0	2242	8.4	2358	8.9	2469	9.3	2574	9.7
1800	2154	8.1	2276	8.6	2391	9.0	2500	9.4	2604	9.8
1900	2191	8.2	2311	8.7	2424	9.1	2533	9.5	2636	9.9
2000	2230	8.4	2347	8.8	2459	9.2	2566	9.6	—	—

High Static 1092-2660 RPM

Fan data (cont)

RAW060 SINGLE PHASE — 5 TON HORIZONTAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1197	0.18	1361	0.26	1524	0.36	1679	0.49	1822	0.62
1625	1271	0.21	1421	0.29	1574	0.40	1721	0.52	1860	0.66
1750	1348	0.25	1486	0.34	1627	0.44	1767	0.56	1901	0.70
1875	1426	0.30	1552	0.38	1684	0.49	1816	0.61	1945	0.75
2000	1505	0.35	1623	0.43	1745	0.54	1870	0.66	1992	0.80
2125	1585	0.40	1695	0.49	1809	0.60	1926	0.72	2043	0.86
2250	1666	0.47	1769	0.56	1876	0.67	1986	0.79	2096	0.93
2375	1748	0.54	1845	0.63	1945	0.74	2049	0.87	2153	1.01
2500	1830	0.62	1921	0.71	2016	0.82	2114	0.95	2213	1.09

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1955	0.77	2078	0.92	2194	1.09	2304	1.26	—	—
1625	1990	0.81	2112	0.97	2227	1.13	2336	1.31	—	—
1750	2028	0.85	2148	1.01	2262	1.18	2370	1.36	—	—
1875	2069	0.90	2186	1.06	2298	1.23	—	—	—	—
2000	2111	0.95	2226	1.12	2336	1.29	—	—	—	—
2125	2157	1.02	2268	1.18	2375	1.36	—	—	—	—
2250	2206	1.08	2313	1.25	—	—	—	—	—	—
2375	2258	1.16	2361	1.33	—	—	—	—	—	—
2500	2312	1.24	—	—	—	—	—	—	—	—

Standard Static 1197-2150 RPM, 1.06 Max BHP

Medium Static 1197-2390 RPM, 1.44 Max BHP

RAW060 SINGLE PHASE – STANDARD STATIC — 5 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1197	5.6	1361	6.3	1524	7.1	1679	7.8	1822	8.5
1625	1271	5.9	1421	6.6	1574	7.3	1721	8.0	1860	8.7
1750	1348	6.3	1486	6.9	1627	7.6	1767	8.2	1901	8.8
1875	1426	6.6	1552	7.2	1684	7.8	1816	8.4	1945	9.0
2000	1505	7.0	1623	7.5	1745	8.1	1870	8.7	1992	9.3
2125	1585	7.4	1695	7.9	1809	8.4	1926	9.0	2043	9.5
2250	1666	7.7	1769	8.2	1876	8.7	1986	9.2	2096	9.7
2375	1748	8.1	1845	8.6	1945	9.0	2049	9.5	—	—
2500	1830	8.5	1921	8.9	2016	9.4	2114	9.8	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1955	9.1	2078	9.7	—	—	—	—	—	—
1625	1990	9.3	2112	9.8	—	—	—	—	—	—
1750	2028	9.4	2148	10.0	—	—	—	—	—	—
1875	2069	9.6	—	—	—	—	—	—	—	—
2000	2111	9.8	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Standard Static 1197-2150 RPM

Fan data (cont)

RAW060 SINGLE PHASE – MEDIUM STATIC — 5 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1197	5.0	1361	5.7	1524	6.4	1679	7.0	1822	7.6
1625	1271	5.3	1421	5.9	1574	6.6	1721	7.2	1860	7.8
1750	1348	5.6	1486	6.2	1627	6.8	1767	7.4	1901	8.0
1875	1426	6.0	1552	6.5	1684	7.0	1816	7.6	1945	8.1
2000	1505	6.3	1623	6.8	1745	7.3	1870	7.8	1992	8.3
2125	1585	6.6	1695	7.1	1809	7.6	1926	8.1	2043	8.5
2250	1666	7.0	1769	7.4	1876	7.8	1986	8.3	2096	8.8
2375	1748	7.3	1845	7.7	1945	8.1	2049	8.6	2153	9.0
2500	1830	7.7	1921	8.0	2016	8.4	2114	8.8	2213	9.3

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1955	8.2	2078	8.7	2194	9.2	2304	9.6	—	—
1625	1990	8.3	2112	8.8	2227	9.3	2336	9.8	—	—
1750	2028	8.5	2148	9.0	2262	9.5	2370	9.9	—	—
1875	2069	8.7	2186	9.1	2298	9.6	—	—	—	—
2000	2111	8.8	2226	9.3	2336	9.8	—	—	—	—
2125	2157	9.0	2268	9.5	2375	9.9	—	—	—	—
2250	2206	9.2	2313	9.7	—	—	—	—	—	—
2375	2258	9.4	2361	9.9	—	—	—	—	—	—
2500	2312	9.7	—	—	—	—	—	—	—	—

Medium Static 1197-2390 RPM

Fan data (cont)

RAW060 THREE PHASE — 5 TON HORIZONTAL SUPPLY (RPM - BHP)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1197	0.18	1361	0.26	1524	0.36	1679	0.49	1822	0.62
1625	1271	0.21	1421	0.29	1574	0.40	1721	0.52	1860	0.66
1750	1348	0.25	1486	0.34	1627	0.44	1767	0.56	1901	0.70
1875	1426	0.30	1552	0.38	1684	0.49	1816	0.61	1945	0.75
2000	1505	0.35	1623	0.43	1745	0.54	1870	0.66	1992	0.80
2125	1585	0.40	1695	0.49	1809	0.60	1926	0.72	2043	0.86
2250	1666	0.47	1769	0.56	1876	0.67	1986	0.79	2096	0.93
2375	1748	0.54	1845	0.63	1945	0.74	2049	0.87	2153	1.01
2500	1830	0.62	1921	0.71	2016	0.82	2114	0.95	2213	1.09

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1955	0.77	2078	0.92	2194	1.09	2304	1.26	2408	1.44
1625	1990	0.81	2112	0.97	2227	1.13	2336	1.31	2440	1.49
1750	2028	0.85	2148	1.01	2262	1.18	2370	1.36	2472	1.54
1875	2069	0.90	2186	1.06	2298	1.23	2404	1.41	2506	1.60
2000	2111	0.95	2226	1.12	2336	1.29	2441	1.48	2541	1.66
2125	2157	1.02	2268	1.18	2375	1.36	2479	1.54	2578	1.73
2250	2206	1.08	2313	1.25	2417	1.43	2518	1.61	2616	1.81
2375	2258	1.16	2361	1.33	2462	1.50	2560	1.69	2656	1.89
2500	2312	1.24	2411	1.41	2509	1.59	2604	1.78	2697	1.97

Standard Static 1197-2150 RPM, 1.06 Max BHP

Medium Static 1197-2390 RPM, 1.44 Max BHP

High Static 1197-2836 RPM, 2.43 Max BHP

RAW060 THREE PHASE – STANDARD STATIC — 5 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1197	5.6	1361	6.3	1524	7.1	1679	7.8	1822	8.5
1625	1271	5.9	1421	6.6	1574	7.3	1721	8.0	1860	8.7
1750	1348	6.3	1486	6.9	1627	7.6	1767	8.2	1901	8.8
1875	1426	6.6	1552	7.2	1684	7.8	1816	8.4	1945	9.0
2000	1505	7.0	1623	7.5	1745	8.1	1870	8.7	1992	9.3
2125	1585	7.4	1695	7.9	1809	8.4	1926	9.0	2043	9.5
2250	1666	7.7	1769	8.2	1876	8.7	1986	9.2	2096	9.7
2375	1748	8.1	1845	8.6	1945	9.0	2049	9.5	—	—
2500	1830	8.5	1921	8.9	2016	9.4	2114	9.8	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1955	9.1	2078	9.7	—	—	—	—	—	—
1625	1990	9.3	2112	9.8	—	—	—	—	—	—
1750	2028	9.4	2148	10.0	—	—	—	—	—	—
1875	2069	9.6	—	—	—	—	—	—	—	—
2000	2111	9.8	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Standard Static 1197-2150 RPM

Fan data (cont)

RAW060 THREE PHASE – MEDIUM STATIC — 5 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1197	5.0	1361	5.7	1524	6.4	1679	7.0	1822	7.6
1625	1271	5.3	1421	5.9	1574	6.6	1721	7.2	1860	7.8
1750	1348	5.6	1486	6.2	1627	6.8	1767	7.4	1901	8.0
1875	1426	6.0	1552	6.5	1684	7.0	1816	7.6	1945	8.1
2000	1505	6.3	1623	6.8	1745	7.3	1870	7.8	1992	8.3
2125	1585	6.6	1695	7.1	1809	7.6	1926	8.1	2043	8.5
2250	1666	7.0	1769	7.4	1876	7.8	1986	8.3	2096	8.8
2375	1748	7.3	1845	7.7	1945	8.1	2049	8.6	2153	9.0
2500	1830	7.7	1921	8.0	2016	8.4	2114	8.8	2213	9.3

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1955	8.2	2078	8.7	2194	9.2	2304	9.6	—	—
1625	1990	8.3	2112	8.8	2227	9.3	2336	9.8	—	—
1750	2028	8.5	2148	9.0	2262	9.5	2370	9.9	—	—
1875	2069	8.7	2186	9.1	2298	9.6	—	—	—	—
2000	2111	8.8	2226	9.3	2336	9.8	—	—	—	—
2125	2157	9.0	2268	9.5	2375	9.9	—	—	—	—
2250	2206	9.2	2313	9.7	—	—	—	—	—	—
2375	2258	9.4	2361	9.9	—	—	—	—	—	—
2500	2312	9.7	—	—	—	—	—	—	—	—

Medium Static 1197-2390 RPM

RAW060 THREE PHASE – HIGH STATIC — 5 TON HORIZONTAL SUPPLY (RPM - VDC)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1197	4.2	1361	4.8	1524	5.4	1679	5.9	1822	6.4
1625	1271	4.5	1421	5.0	1574	5.6	1721	6.1	1860	6.6
1750	1348	4.8	1486	5.2	1627	5.7	1767	6.2	1901	6.7
1875	1426	5.0	1552	5.5	1684	5.9	1816	6.4	1945	6.9
2000	1505	5.3	1623	5.7	1745	6.2	1870	6.6	1992	7.0
2125	1585	5.6	1695	6.0	1809	6.4	1926	6.8	2043	7.2
2250	1666	5.9	1769	6.2	1876	6.6	1986	7.0	2096	7.4
2375	1748	6.2	1845	6.5	1945	6.9	2049	7.2	2153	7.6
2500	1830	6.5	1921	6.8	2016	7.1	2114	7.5	2213	7.8

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc	RPM	Vdc
1500	1955	6.9	2078	7.3	2194	7.7	2304	8.1	2408	8.5
1625	1990	7.0	2112	7.4	2227	7.9	2336	8.2	2440	8.6
1750	2028	7.2	2148	7.6	2262	8.0	2370	8.4	2472	8.7
1875	2069	7.3	2186	7.7	2298	8.1	2404	8.5	2506	8.8
2000	2111	7.4	2226	7.8	2336	8.2	2441	8.6	2541	9.0
2125	2157	7.6	2268	8.0	2375	8.4	2479	8.7	2578	9.1
2250	2206	7.8	2313	8.2	2417	8.5	2518	8.9	2616	9.2
2375	2258	8.0	2361	8.3	2462	8.7	2560	9.0	2656	9.4
2500	2312	8.2	2411	8.5	2509	8.8	2604	9.2	2697	9.5

High Static 1197-2836 RPM

Fan data (cont)

GENERAL FAN PERFORMANCE NOTES

1. Interpolation is permissible. Do not extrapolate.
2. External static pressure is the static pressure difference between the return duct and the supply duct plus the static pressure caused by any FIOPs or accessories.
3. Tabular data accounts for pressure loss due to clean filters, unit casing, wet coils, and highest gas heat exchanger (when gas heat unit).
4. Factory options and accessories may effect static pressure losses. Gas heat unit fan tables assume highest gas heat models; for fan selections with low or medium heat models, the user must deduct low and medium heat static pressures. Selection software is available, through your salesperson, to help you select the best motor/drive combination for your application.
5. The fan performance tables offer motor/drive recommendations. In cases when two motor/drive combinations would work, ICP recommends the lower horsepower option.
6. For information on the electrical properties of ICP motors, please see the Electrical information section of this book.
7. For more information on the performance limits of ICP motors, see the application data section of this book.
8. The EPACT (Energy Policy Act of 1992) regulates energy requirements for specific types of indoor fan motors. Motors regulated by EPACT include any general purpose, T-frame (three-digit, 143 and larger), single-speed, foot mounted, polyphase, squirrel cage induction motors of NEMA (National Electrical Manufacturers Association) design A and B, manufactured for use in the United States. Ranging from 1 to 200 Hp, these continuous-duty motors operate on 230 and 460 volt, 60 Hz power. If a motor does not fit into these specifications, the motor does not have to be replaced by an EPACT compliant energy-efficient motor. Variable-speed motors are exempt from EPACT compliance requirements.

Electrical data

Legend and Notes

Applicable for Electrical Data Tables on pages 87 to 111

LEGEND

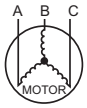
BRKR	— Circuit Breaker
C.O.	— Convenience Outlet
FLA	— Full Load Amps
IFM	— Indoor Fan Motor
LRA	— Locked Rotor Amps
MCA	— Minimum Circuit Amps
P.E.	— Power Exhaust
PWRD FR/ UNIT	— Powered From Unit
PWRD C.O.	— Powered Convenience Outlet
RLA	— Rated Load Amps
UNPWR C.O.	— Unpowered Convenience Outlet

NOTES:

1. In compliance with NEC requirements for multi-motor and combination load equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be fuse or HACR breaker. Canadian units may be fuse or circuit breaker.
2. For 208/230 v units, where one value is shown, it is the same for either 208 or 230 volts.
3. **Unbalanced 3-Phase Supply Voltage**
   Never operate a motor where a phase imbalance in supply voltage is greater than 2%. Use the following formula to determine the percentage of voltage imbalance.

$$\text{\% Voltage Imbalance} = 100 \times \frac{\text{max voltage deviation from average voltage}}{\text{average voltage}}$$

Example: Supply voltage is 230-3-60



AB = 224 v
BC = 231 v
AC = 226 v

$$\text{Average Voltage} = \frac{(224 + 231 + 226)}{3} = \frac{681}{3} = 227$$

Determine maximum deviation from average voltage.

(AB) 227-224 = 3 v

(BC) 231-227 = 4 v

(AC) 227-226 = 1 v

Maximum deviation is 4 v.

Determine percent of voltage imbalance.

$$\text{\% Voltage Imbalance} = 100x \frac{4}{227} = 1.78\%$$

This amount of phase imbalance is satisfactory as it is below the maximum allowable 2%.

IMPORTANT: If the supply voltage phase imbalance is more than 2%, contact your local electric utility company immediately.

Electrical data (cont)

RGW/RAW036-060 COOLING ELECTRICAL DATA

RGW/ RAW UNIT	V-PH-Hz	UNIT VOLTAGE RANGE		COMPRESSOR		OFM (EA)		IFM			COMBUSTION FAN MOTOR (RGW ONLY)	POWER EXHAUST	
		MIN	MAX	RLA	LRA	WATTS	FLA	TYPE	EFFCY AT FULL LOAD	FLA	FLA	KIT QTY	FLA (EA KIT)
036	208-1-60	187	253	14.1	84	275	1.5	STD	84%	4.3	0.48	1	1.9
								MED	84%	5.1			
								HIGH	85%	7.3			
	230-1-60	187	253	14.1	84	275	1.5	STD	84%	4.3	0.48	1	1.9
								MED	84%	5.1			
								HIGH	85%	7.3			
	208-3-60	187	253	11.6	73	275	1.5	STD	84%	4.3	0.48	1	1.9
								MED	84%	5.1			
								HIGH	85%	7.3			
	230-3-60	187	253	11.6	73	275	1.5	STD	84%	4.3	0.48	1	1.9
								MED	84%	5.1			
								HIGH	85%	7.3			
	460-3-60	414	506	5.7	38	275	0.8	STD	85%	1.2	0.25	1	1.0
								MED	85%	1.2			
								HIGH	84%	1.7			
	575-3-60	518	633	4.0	26	275	0.6	STD	84%	1.1	0.24	1	1.9
								MED	84%	1.1			
								HIGH	85%	1.5			
048	208-1-60	187	253	20.4	122	275	1.5	STD	87%	5.0	0.48	1	1.9
								MED	86%	7.1			
								HIGH	84%	9.2			
	230-1-60	187	253	20.4	122	275	1.5	STD	87%	5.0	0.48	1	1.9
								MED	86%	7.1			
								HIGH	84%	9.2			
	208-3-60	187	253	14.0	83	275	1.5	STD	87%	5.0	0.48	1	1.9
								MED	86%	7.1			
								HIGH	85%	5.5			
	230-3-60	187	253	14.0	83	275	1.5	STD	87%	5.0	0.48	1	1.9
								MED	86%	7.1			
								HIGH	85%	5.5			
	460-3-60	414	506	6.4	41	275	0.8	STD	85%	1.2	0.25	1	1.0
								MED	86%	1.7			
								HIGH	88%	2.6			
	575-3-60	518	633	4.6	33	275	0.6	STD	84%	1.1	0.24	1	1.9
								MED	85%	1.5			
								HIGH	88%	2.3			
060	208-1-60	187	253	22.9	147	275	1.5	STD	86%	7.2	0.48	1	1.9
								MED	84%	9.2			
	230-1-60	187	253	22.9	147	275	1.5	STD	86%	7.2	0.48	1	1.9
								MED	84%	9.2			
	208-3-60	187	253	16.2	110	275	1.5	STD	86%	7.2	0.48	1	1.9
								MED	84%	9.2			
								HIGH	84%	6.5			
	230-3-60	187	253	16.2	110	275	1.5	STD	86%	7.2	0.48	1	1.9
								MED	84%	9.2			
								HIGH	84%	6.5			
	460-3-60	414	506	7.6	52	275	0.8	STD	86%	1.7	0.25	1	1.0
								MED	86%	2.1			
								HIGH	88%	3.1			
	575-3-60	518	633	5.3	39	275	0.6	STD	84%	1.5	0.24	1	1.9
								MED	85%	2.0			
								HIGH	87%	2.7			

Electrical data (cont)

RGW036-060 MCA MOCP ELECTRICAL DATA

RGW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET							
			NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			MCA	FUSE OR HACR BREAKER	DISCONNECT SIZE		MCA	FUSE OR HACR BREAKER	DISCONNECT SIZE	
					FLA	LRA			FLA	LRA
036	208/230-1-60	STD	24	30	23	94	26	30	25	96
		MED	25	30	24	95	27	30	26	97
		HIGH	27	30	26	98	29	40	29	100
	208/230-3-60	STD	21	30	20	83	23	30	22	85
		MED	22	30	21	84	23	30	23	86
		HIGH	24	30	23	87	26	30	26	89
	460-3-60	STD	10	15	9	42	11	15	10	43
		MED	10	15	9	42	11	15	10	43
		HIGH	10	15	9	42	11	15	11	43
	575-3-60	STD	7	15	7	30	9	15	9	32
		MED	7	15	7	30	9	15	9	32
		HIGH	8	15	7	30	9	15	9	32
048	208/230-1-60	STD	32	50	31	133	34	50	33	135
		MED	35	50	33	136	36	50	36	138
		HIGH	37	50	36	139	39	50	38	141
	208/230-3-60	STD	24	30	24	94	26	30	26	96
		MED	27	30	26	97	28	40	28	99
		HIGH	25	30	24	95	27	30	26	97
	460-3-60	STD	10	15	10	45	11	15	11	46
		MED	11	15	10	45	12	15	11	46
		HIGH	12	15	11	47	13	15	12	48
	575-3-60	STD	8	15	7	37	10	15	9	39
		MED	8	15	8	37	10	15	10	39
		HIGH	9	15	9	38	11	15	11	40
060	208/230-1-60	STD	38	60	36	161	40	60	39	163
		MED	40	60	39	164	42	60	41	166
	208/230-3-60	STD	29	45	29	124	31	45	31	126
		MED	31	45	31	127	33	45	33	129
		HIGH	29	40	28	123	31	45	30	125
	460-3-60	STD	12	15	12	56	13	20	13	57
		MED	13	20	12	57	14	20	13	58
		HIGH	14	20	13	58	15	20	14	59
	575-3-60	STD	9	15	9	43	11	15	11	45
		MED	10	15	9	44	12	15	11	46
		HIGH	10	15	10	45	12	15	12	47

Electrical data (cont)

RGW036-060 MCA MOCP ELECTRICAL DATA (cont)

RGW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	w/ POWERED CONVENIENCE OUTLET							
			NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			MCA	FUSE OR HACR BREAKER	DISCONNECT SIZE		MCA	FUSE OR HACR BREAKER	DISCONNECT SIZE	
					FLA	LRA			FLA	LRA
036	208/230-3-60	STD	26	30	26	88	27	30	28	90
		MED	26	30	26	89	28	35	29	91
		HIGH	29	35	29	92	30	40	31	94
	460-3-60	STD	12	15	11	44	13	15	13	45
		MED	12	15	11	44	13	15	13	45
		HIGH	12	15	12	44	13	15	13	45
	575-3-60	STD	9	15	9	32	11	15	11	34
		MED	9	15	9	32	11	15	11	34
		HIGH	9	15	9	32	11	15	11	34
048	208/230-3-60	STD	29	40	29	99	31	40	31	101
		MED	31	40	32	102	33	45	34	104
		HIGH	30	40	30	100	32	45	32	102
	460-3-60	STD	13	15	12	47	14	15	13	48
		MED	13	15	13	47	14	20	14	48
		HIGH	14	20	14	49	15	20	15	50
	575-3-60	STD	10	15	9	39	12	15	11	41
		MED	10	15	10	39	12	15	12	41
		HIGH	11	15	11	40	13	15	13	42
060	208/230-3-60	STD	34	45	34	129	36	50	36	131
		MED	36	50	36	132	38	50	39	134
		HIGH	34	45	33	128	35	50	36	130
	460-3-60	STD	15	20	14	58	16	20	15	59
		MED	15	20	15	59	16	20	16	60
		HIGH	16	20	16	60	17	20	17	61
	575-3-60	STD	11	15	10	45	13	15	13	47
		MED	11	15	11	46	13	15	13	48
		HIGH	12	15	12	47	14	15	14	49

Electrical data (cont)

RGW036-060 MCA MOCP ELECTRICAL DATA WITH FACTORY-INSTALLED HACR BREAKER

RGW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET							
			NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			MCA	HACR BREAKER	DISCONNECT SIZE		MCA	HACR BREAKER	DISCONNECT SIZE	
					FLA	LRA			FLA	LRA
036	208/230-1-60	STD	24	30	23	94	26	30	25	96
		MED	25	30	24	95	27	30	26	97
		HIGH	27	30	26	98	29	40	29	100
	208/230-3-60	STD	21	30	20	83	23	30	22	85
		MED	22	30	21	84	23	30	23	86
		HIGH	24	30	23	87	26	30	26	89
	460-3-60	STD	10	15	9	42	11	15	10	43
		MED	10	15	9	42	11	15	10	43
		HIGH	10	15	9	42	11	15	11	43
	575-3-60	STD	7	15	7	30	9	15	9	32
		MED	7	15	7	30	9	15	9	32
		HIGH	8	15	7	30	9	15	9	32
048	208/230-1-60	STD	32	50	31	133	34	50	33	135
		MED	35	50	33	136	36	50	36	138
		HIGH	37	50	36	139	39	50	38	141
	208/230-3-60	STD	24	30	24	94	26	30	26	96
		MED	27	30	26	97	28	40	28	99
		HIGH	25	30	24	95	27	30	26	97
	460-3-60	STD	10	15	10	45	11	15	11	46
		MED	11	15	10	45	12	15	11	46
		HIGH	12	15	11	47	13	15	12	48
	575-3-60	STD	8	15	7	37	10	15	9	39
		MED	8	15	8	37	10	15	10	39
		HIGH	9	15	9	38	11	15	11	40
060	208/230-1-60	STD	38	60	36	161	40	60	39	163
		MED	40	60	39	164	42	60	41	166
	208/230-3-60	STD	29	45	29	124	31	45	31	126
		MED	31	45	31	127	33	45	33	129
		HIGH	29	40	28	123	31	45	30	125
	460-3-60	STD	12	15	12	56	13	20	13	57
		MED	13	20	12	57	14	20	13	58
		HIGH	14	20	13	58	15	20	14	59
	575-3-60	STD	9	15	9	43	11	15	11	45
		MED	10	15	9	44	12	15	11	46
		HIGH	10	15	10	45	12	15	12	47

Electrical data (cont)

RGW036-060 MCA MOCP ELECTRICAL DATA WITH FACTORY-INSTALLED HACR BREAKER (cont)

RGW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	w/ POWERED CONVENIENCE OUTLET							
			NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			MCA	HACR BREAKER	DISCONNECT SIZE		MCA	HACR BREAKER	DISCONNECT SIZE	
					FLA	LRA			FLA	LRA
036	208/230-3-60	STD	26	30	26	88	27	30	28	90
		MED	26	30	26	89	28	35	29	91
		HIGH	29	35	29	92	30	40	31	94
	460-3-60	STD	12	15	11	44	13	15	13	45
		MED	12	15	11	44	13	15	13	45
		HIGH	12	15	12	44	13	15	13	45
	575-3-60	STD	9	15	9	32	11	15	11	34
		MED	9	15	9	32	11	15	11	34
		HIGH	9	15	9	32	11	15	11	34
048	208/230-3-60	STD	29	40	29	99	31	40	31	101
		MED	31	40	32	102	33	45	34	104
		HIGH	30	40	30	100	32	45	32	102
	460-3-60	STD	13	15	12	47	14	15	13	48
		MED	13	15	13	47	14	20	14	48
		HIGH	14	20	14	49	15	20	15	50
	575-3-60	STD	10	15	9	39	12	15	11	41
		MED	10	15	10	39	12	15	12	41
		HIGH	11	15	11	40	13	15	13	42
060	208/230-3-60	STD	34	45	34	129	36	50	36	131
		MED	36	50	36	132	38	50	39	134
		HIGH	34	45	33	128	35	50	36	130
	460-3-60	STD	15	20	14	58	16	20	15	59
		MED	15	20	15	59	16	20	16	60
		HIGH	16	20	16	60	17	20	17	61
	575-3-60	STD	11	15	10	45	13	15	13	47
		MED	11	15	11	46	13	15	13	48
		HIGH	12	15	12	47	14	15	14	49

Electrical data (cont)

RAW036 MCA MOCP ELECTRICAL DATA

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET							
						NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			CRHEATER ***A00	NOM (KW)	FLA	MCA	FUSE OR HACR BRKR	DISCONNECT SIZE		MCA	FUSE OR HACR BRKR	DISCONNECT SIZE	
								FLA	LRA			FLA	LRA
036	208/230-1-60	STD	NONE	—	—	24	30	23	94	26	30	25	96
			323A	3.3/4.4	15.9/18.3	26/29	30/30	23/26	94/94	28/31	30/35	25/28	96/96
			324A	4.9/6.5	23.5/27.1	35/40	35/40	32/36	94/94	38/42	40/45	34/38	96/96
			325A	6.5/8.7	31.4/36.3	45/51	45/60	41/47	94/94	47/54	50/60	43/49	96/96
			326A	7.9/10.5	37.9/43.8	53/61	60/70	49/55	94/94	56/63	60/70	51/58	96/96
			327A	9.8/13.0	46.9/54.2	64/74	70/80	59/67	94/94	67/76	70/80	61/69	96/96
		MED	NONE	—	—	25	30	24	95	27	30	26	97
			323A	3.3/4.4	15.9/18.3	27/30	30/30	24/27	95/95	29/32	30/40	26/29	97/97
			324A	4.9/6.5	23.5/27.1	36/41	40/45	33/37	95/95	39/43	40/45	35/39	97/97
			325A	6.5/8.7	31.4/36.3	46/52	50/60	42/48	95/95	48/55	50/60	44/50	97/97
			326A	7.9/10.5	37.9/43.8	54/62	60/70	49/56	95/95	57/64	60/70	52/58	97/97
			327A	9.8/13.0	46.9/54.2	65/75	70/80	60/68	95/95	68/77	70/80	62/70	97/97
		HIGH	NONE	—	—	27	30	26	98	29	40	29	100
			323A	3.3/4.4	15.9/18.3	29/32	30/40	27/29	98/98	32/35	40/40	29/32	100/100
			324A	4.9/6.5	23.5/27.1	39/43	40/45	35/40	98/98	41/46	45/50	38/42	100/100
			325A	6.5/8.7	31.4/36.3	49/55	50/60	45/50	98/98	51/57	60/60	47/52	100/100
			326A	7.9/10.5	37.9/43.8	57/64	60/70	52/59	98/98	59/67	60/70	54/61	100/100
			327A	9.8/13.0	46.9/54.2	68/77	70/80	62/71	98/98	71/80	80/80	65/73	100/100
	208/230-3-60	STD	NONE	—	—	21	30	20	83	23	30	22	85
			323A	3.3/4.4	9.2/10.6	21/21	30/30	20/20	83/83	23/23	30/30	22/22	85/85
			324A	4.9/6.5	13.6/15.6	23/25	30/30	21/23	83/83	25/28	30/30	23/25	85/85
			325A	6.5/8.7	18.1/20.9	28/32	30/35	26/29	83/83	31/34	35/35	28/31	85/85
			326A	7.9/10.5	21.9/25.3	33/37	35/40	30/34	83/83	36/40	40/40	32/36	85/85
			328A	12.0/16.0	33.4/38.5	48/54	50/60	43/49	83/83	50/56	50/60	46/51	85/85
		MED	NONE	—	—	22	30	21	84	23	30	23	86
			323A	3.3/4.4	9.2/10.6	22/22	30/30	21/21	84/84	23/23	30/30	23/23	86/86
			324A	4.9/6.5	13.6/15.6	24/26	30/30	22/24	84/84	26/29	30/30	24/26	86/86
			325A	6.5/8.7	18.1/20.9	29/33	30/35	27/30	84/84	32/35	35/35	29/32	86/86
			326A	7.9/10.5	21.9/25.3	34/38	35/40	31/35	84/84	37/41	40/45	33/37	86/86
			328A	12.0/16.0	33.4/38.5	49/55	50/60	44/50	84/84	51/57	60/60	46/52	86/86
		HIGH	NONE	—	—	24	30	23	87	26	30	26	89
			323A	3.3/4.4	9.2/10.6	24/24	30/30	23/23	87/87	26/26	30/30	26/26	89/89
			324A	4.9/6.5	13.6/15.6	27/29	30/30	24/26	87/87	29/31	30/35	26/29	89/89
			325A	6.5/8.7	18.1/20.9	32/36	35/40	29/32	87/87	35/38	35/40	31/35	89/89
			326A	7.9/10.5	21.9/25.3	37/41	40/45	34/37	87/87	39/44	40/45	36/40	89/89
			328A	12.0/16.0	33.4/38.5	51/58	60/60	47/53	87/87	54/60	60/60	49/55	89/89
	460-3-60	STD	NONE	—	—	10	15	9	42	11	15	10	43
			333A	6.0	7.2	11	15	10	42	12	15	11	43
			334A	8.8	10.6	15	15	14	42	16	20	15	43
			335A	11.5	13.8	19	20	17	42	20	25	18	43
			336A	14.0	16.8	23	25	21	42	24	25	22	43
		MED	NONE	—	—	10	15	9	42	11	15	10	43
			333A	6.0	7.2	11	15	10	42	12	15	11	43
			334A	8.8	10.6	15	15	14	42	16	20	15	43
			335A	11.5	13.8	19	20	17	42	20	25	18	43
			336A	14.0	16.8	23	25	21	42	24	25	22	43
		HIGH	NONE	—	—	10	15	9	42	11	15	11	43
			333A	6.0	7.2	12	15	10	42	13	15	11	43
			334A	8.8	10.6	16	20	14	42	17	20	15	43
			335A	11.5	13.8	20	20	18	42	21	25	19	43
			336A	14.0	16.8	24	25	21	42	25	25	22	43
	575-3-60	STD	NONE	—	—	7	15	7	30	9	15	9	32
			339A	10.0	9.6	14	15	12	30	16	20	14	32
			340A	15.0	14.4	20	20	18	30	22	25	20	32
		MED	NONE	—	—	7	15	7	30	9	15	9	32
			339A	10.0	9.6	14	15	12	30	16	20	14	32
			340A	15.0	14.4	20	20	18	30	22	25	20	32
		HIGH	NONE	—	—	8	15	7	30	9	15	9	32
			339A	10.0	9.6	14	15	13	30	17	20	15	32
			340A	15.0	14.4	20	20	18	30	23	25	20	32

Electrical data (cont)

RAW036 MCA MOCP ELECTRICAL DATA (cont)

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			W/ POWERED CONVENIENCE OUTLET							
						NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			CRHEATER ***A00	NOM (KW)	FLA	MCA	FUSE OR HACR BRKR	DISCONNECT SIZE		MCA	FUSE OR HACR BRKR	DISCONNECT SIZE	
								FLA	LRA			FLA	LRA
036	208/230-3-60	STD	NONE	—	—	26	30	26	88	27	30	28	90
			323A	3.3/4.4	9.2/10.6	26/26	30/30	26/26	88/88	27/27	30/30	28/28	90/90
			324A	4.9/6.5	13.6/15.6	29/31	30/35	26/28	88/88	31/34	35/35	28/31	90/90
			325A	6.5/8.7	18.1/20.9	34/38	35/40	31/35	88/88	37/40	40/40	33/37	90/90
			326A	7.9/10.5	21.9/25.3	39/43	40/45	36/40	88/88	42/46	45/50	38/42	90/90
			328A	12.0/16.0	33.4/38.5	54/60	60/60	49/55	88/88	56/62	60/70	51/57	90/90
		MED	NONE	—	—	26	30	26	89	28	35	29	91
			323A	3.3/4.4	9.2/10.6	26/26	30/30	26/26	89/89	28/28	35/35	29/29	91/91
			324A	4.9/6.5	13.6/15.6	30/32	30/35	27/29	89/89	32/35	35/35	29/32	91/91
			325A	6.5/8.7	18.1/20.9	35/39	40/40	32/35	89/89	38/41	40/45	34/38	91/91
			326A	7.9/10.5	21.9/25.3	40/44	40/45	37/40	89/89	43/47	45/50	39/43	91/91
			328A	12.0/16.0	33.4/38.5	55/61	60/70	50/56	89/89	57/63	60/70	52/58	91/91
		HIGH	NONE	—	—	29	35	29	92	30	40	31	94
			323A	3.3/4.4	9.2/10.6	29/29	35/35	29/29	92/92	30/31	40/40	31/31	94/94
			324A	4.9/6.5	13.6/15.6	33/35	35/35	30/32	92/92	35/37	40/40	32/34	94/94
			325A	6.5/8.7	18.1/20.9	38/42	40/45	35/38	92/92	41/44	45/45	37/40	94/94
			326A	7.9/10.5	21.9/25.3	43/47	45/50	39/43	92/92	45/50	45/50	41/45	94/94
			328A	12.0/16.0	33.4/38.5	57/64	60/70	52/58	92/92	60/66	60/70	55/60	94/94
	460-3-60	STD	NONE	—	—	12	15	11	44	13	15	13	45
			333A	6.0	7.2	14	15	12	44	15	15	13	45
			334A	8.8	10.6	18	20	16	44	19	20	17	45
			335A	11.5	13.8	22	25	20	44	23	25	21	45
			336A	14.0	16.8	26	30	23	44	27	30	24	45
		MED	NONE	—	—	12	15	11	44	13	15	13	45
			333A	6.0	7.2	14	15	12	44	15	15	13	45
			334A	8.8	10.6	18	20	16	44	19	20	17	45
			335A	11.5	13.8	22	25	20	44	23	25	21	45
			336A	14.0	16.8	26	30	23	44	27	30	24	45
		HIGH	NONE	—	—	12	15	12	44	13	15	13	45
			333A	6.0	7.2	14	15	13	44	16	20	14	45
			334A	8.8	10.6	19	20	17	44	20	20	18	45
			335A	11.5	13.8	23	25	20	44	24	25	22	45
			336A	14.0	16.8	26	30	24	44	28	30	25	45
	575-3-60	STD	NONE	—	—	9	15	9	32	11	15	11	34
			339A	10.0	9.6	16	20	14	32	18	20	16	34
			340A	15.0	14.4	22	25	20	32	24	25	22	34
		MED	NONE	—	—	9	15	9	32	11	15	11	34
			339A	10.0	9.6	16	20	14	32	18	20	16	34
			340A	15.0	14.4	22	25	20	32	24	25	22	34
		HIGH	NONE	—	—	9	15	9	32	11	15	11	34
			339A	10.0	9.6	16	20	15	32	19	20	17	34
			340A	15.0	14.4	22	25	20	32	25	25	22	34

Electrical data (cont)

RAW036 MCA MOCP ELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET							
						NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			CRHEATER ***A00	NOM (KW)	FLA	MCA	HACR BRKR	DISCONNECT SIZE		MCA	HACR BRKR	DISCONNECT SIZE	
								FLA	LRA			FLA	LRA
036	208/230-1-60	STD	NONE	—	—	24	30	23	94	26	30	25	96
			323A	3.3/4.4	15.9/18.3	29/29	30/30	23/26	94/94	31/31	35/35	25/28	96/96
			324A	4.9/6.5	23.5/27.1	40/40	40/40	32/36	94/94	42/42	45/45	34/38	96/96
			325A	6.5/8.7	31.4/36.3	51/51	60/60	41/47	94/94	54/54	60/60	43/49	96/96
			326A	7.9/10.5	37.9/43.8	61/61	70/70	49/55	94/94	63/63	70/70	51/58	96/96
			327A	9.8/13.0	46.9/54.2	74/74	80/80	59/67	94/94	76/76	80/80	61/69	96/96
		MED	NONE	—	—	25	30	24	95	27	30	26	97
			323A	3.3/4.4	15.9/18.3	30/30	30/30	24/27	95/95	32/32	40/40	26/29	97/97
			324A	4.9/6.5	23.5/27.1	41/41	45/45	33/37	95/95	43/43	45/45	35/39	97/97
			325A	6.5/8.7	31.4/36.3	52/52	60/60	42/48	95/95	55/55	60/60	44/50	97/97
			326A	7.9/10.5	37.9/43.8	62/62	70/70	49/56	95/95	64/64	70/70	52/58	97/97
			327A	9.8/13.0	46.9/54.2	75/75	80/80	60/68	95/95	77/77	80/80	62/70	97/97
		HIGH	NONE	—	—	27	30	26	98	29	40	29	100
			323A	3.3/4.4	15.9/18.3	32/32	40/40	27/29	98/98	35/35	40/40	29/32	100/100
			324A	4.9/6.5	23.5/27.1	43/43	45/45	35/40	98/98	46/46	50/50	38/42	100/100
			325A	6.5/8.7	31.4/36.3	55/55	60/60	45/50	98/98	57/57	60/60	47/52	100/100
			326A	7.9/10.5	37.9/43.8	64/64	70/70	52/59	98/98	67/67	70/70	54/61	100/100
			327A	9.8/13.0	46.9/54.2	77/77	80/80	62/71	98/98	80/80	80/80	65/73	100/100
	208/230-3-60	STD	NONE	—	—	21	30	20	83	23	30	22	85
			323A	3.3/4.4	9.2/10.6	21/21	30/30	20/20	83/83	23/23	30/30	22/22	85/85
			324A	4.9/6.5	13.6/15.6	25/25	30/30	21/23	83/83	28/28	30/30	23/25	85/85
			325A	6.5/8.7	18.1/20.9	32/32	35/35	26/29	83/83	34/34	35/35	28/31	85/85
			326A	7.9/10.5	21.9/25.3	37/37	40/40	30/34	83/83	40/40	40/40	32/36	85/85
			328A	12.0/16.0	33.4/38.5	54/54	60/60	43/49	83/83	56/56	60/60	46/51	85/85
		MED	NONE	—	—	22	30	21	84	23	30	23	86
			323A	3.3/4.4	9.2/10.6	22/22	30/30	21/21	84/84	23/23	30/30	23/23	86/86
			324A	4.9/6.5	13.6/15.6	26/26	30/30	22/24	84/84	29/29	30/30	24/26	86/86
			325A	6.5/8.7	18.1/20.9	33/33	35/35	27/30	84/84	35/35	35/35	29/32	86/86
			326A	7.9/10.5	21.9/25.3	38/38	40/40	31/35	84/84	41/41	45/45	33/37	86/86
			328A	12.0/16.0	33.4/38.5	55/55	60/60	44/50	84/84	57/57	60/60	46/52	86/86
		HIGH	NONE	—	—	24	30	23	87	26	30	26	89
			323A	3.3/4.4	9.2/10.6	24/24	30/30	23/23	87/87	26/26	30/30	26/26	89/89
			324A	4.9/6.5	13.6/15.6	29/29	30/30	24/26	87/87	31/31	35/35	26/29	89/89
			325A	6.5/8.7	18.1/20.9	36/36	40/40	29/32	87/87	38/38	40/40	31/35	89/89
			326A	7.9/10.5	21.9/25.3	41/41	45/45	34/37	87/87	44/44	45/45	36/40	89/89
			328A	12.0/16.0	33.4/38.5	58/58	60/60	47/53	87/87	60/60	60/60	49/55	89/89
	460-3-60	STD	NONE	—	—	10	15	9	42	11	15	10	43
			333A	6.0	7.2	11	15	10	42	12	15	11	43
			334A	8.8	10.6	15	15	14	42	16	20	15	43
			335A	11.5	13.8	19	20	17	42	20	25	18	43
			336A	14.0	16.8	23	25	21	42	24	25	22	43
		MED	NONE	—	—	10	15	9	42	11	15	10	43
			333A	6.0	7.2	11	15	10	42	12	15	11	43
			334A	8.8	10.6	15	15	14	42	16	20	15	43
			335A	11.5	13.8	19	20	17	42	20	25	18	43
			336A	14.0	16.8	23	25	21	42	24	25	22	43
		HIGH	NONE	—	—	10	15	9	42	11	15	11	43
			333A	6.0	7.2	12	15	10	42	13	15	11	43
			334A	8.8	10.6	16	20	14	42	17	20	15	43
			335A	11.5	13.8	20	20	18	42	21	25	19	43
			336A	14.0	16.8	24	25	21	42	25	25	22	43
	575-3-60	STD	NONE	—	—	7	15	7	30	9	15	9	32
			339A	10.0	9.6	14	15	12	30	16	20	14	32
			340A	15.0	14.4	20	20	18	30	22	25	20	32
		MED	NONE	—	—	7	15	7	30	9	15	9	32
			339A	10.0	9.6	14	15	12	30	16	20	14	32
			340A	15.0	14.4	20	20	18	30	22	25	20	32
		HIGH	NONE	—	—	8	15	7	30	9	15	9	32
			339A	10.0	9.6	14	15	13	30	17	20	15	32
			340A	15.0	14.4	20	20	18	30	23	25	20	32

Electrical data (cont)

RAW036 MCA MOCP ELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER (cont)

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			W/ POWERED CONVENIENCE OUTLET							
			CRHEATER ***A00	NOM (KW)	FLA	NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
						MCA	HACR BRKR	DISCONNECT SIZE		MCA	HACR BRKR	DISCONNECT SIZE	
								FLA	LRA			FLA	LRA
036	208/230-3-60	STD	NONE	—	—	26	30	26	88	27	30	28	90
			323A	3.3/4.4	9.2/10.6	26/26	30/30	26/26	88/88	27/27	30/30	28/28	90/90
			324A	4.9/6.5	13.6/15.6	31/31	35/35	26/28	88/88	34/34	35/35	28/31	90/90
			325A	6.5/8.7	18.1/20.9	38/38	40/40	31/35	88/88	40/40	40/40	33/37	90/90
			326A	7.9/10.5	21.9/25.3	43/43	45/45	36/40	88/88	46/46	50/50	38/42	90/90
			328A	12.0/16.0	33.4/38.5	60/60	60/60	49/55	88/88	62/62	70/70	51/57	90/90
		MED	NONE	—	—	26	30	26	89	28	35	29	91
			323A	3.3/4.4	9.2/10.6	26/26	30/30	26/26	89/89	28/28	35/35	29/29	91/91
			324A	4.9/6.5	13.6/15.6	32/32	35/35	27/29	89/89	35/35	35/35	29/32	91/91
			325A	6.5/8.7	18.1/20.9	39/39	40/40	32/35	89/89	41/41	45/45	34/38	91/91
			326A	7.9/10.5	21.9/25.3	44/44	45/45	37/40	89/89	47/47	50/50	39/43	91/91
			328A	12.0/16.0	33.4/38.5	61/61	70/70	50/56	89/89	63/63	70/70	52/58	91/91
		HIGH	NONE	—	—	29	35	29	92	30	40	31	94
			323A	3.3/4.4	9.2/10.6	29/29	35/35	29/29	92/92	31/31	40/40	31/31	94/94
			324A	4.9/6.5	13.6/15.6	35/35	35/35	30/32	92/92	37/37	40/40	32/34	94/94
			325A	6.5/8.7	18.1/20.9	42/42	45/45	35/38	92/92	44/44	45/45	37/40	94/94
			326A	7.9/10.5	21.9/25.3	47/47	50/50	39/43	92/92	50/50	50/50	41/45	94/94
			328A	12.0/16.0	33.4/38.5	64/64	70/70	52/58	92/92	66/66	70/70	55/60	94/94
	460-3-60	STD	NONE	—	—	12	15	11	44	13	15	13	45
			333A	6.0	7.2	14	15	12	44	15	15	13	45
			334A	8.8	10.6	18	20	16	44	19	20	17	45
			335A	11.5	13.8	22	25	20	44	23	25	21	45
			336A	14.0	16.8	26	30	23	44	27	30	24	45
		MED	NONE	—	—	12	15	11	44	13	15	13	45
			333A	6.0	7.2	14	15	12	44	15	15	13	45
			334A	8.8	10.6	18	20	16	44	19	20	17	45
			335A	11.5	13.8	22	25	20	44	23	25	21	45
			336A	14.0	16.8	26	30	23	44	27	30	24	45
		HIGH	NONE	—	—	12	15	12	44	13	15	13	45
			333A	6.0	7.2	14	15	13	44	16	20	14	45
			334A	8.8	10.6	19	20	17	44	20	20	18	45
			335A	11.5	13.8	23	25	20	44	24	25	22	45
			336A	14.0	16.8	26	30	24	44	28	30	25	45
	575-3-60	STD	NONE	—	—	9	15	9	32	11	15	11	34
			339A	10.0	9.6	16	20	14	32	18	20	16	34
			340A	15.0	14.4	22	25	20	32	24	25	22	34
		MED	NONE	—	—	9	15	9	32	11	15	11	34
			339A	10.0	9.6	16	20	14	32	18	20	16	34
			340A	15.0	14.4	22	25	20	32	24	25	22	34
		HIGH	NONE	—	—	9	15	9	32	11	15	11	34
			339A	10.0	9.6	16	20	15	32	19	20	17	34
			340A	15.0	14.4	22	25	20	32	25	25	22	34

Electrical data (cont)

RAW048 MCA MOCP ELECTRICAL DATA

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET							
						NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			CRHEATER ***A00	NOM (KW)	FLA	MCA	FUSE OR HACR BRKR	DISCONNECT SIZE		MCA	FUSE OR HACR BRKR	DISCONNECT SIZE	
								FLA	LRA			FLA	LRA
048	208/230-1-60	STD	NONE	—	—	32	50	31	133	34	50	33	135
			323A	3.3/4.4	15.9/18.3	32/32	50/50	31/31	133/133	34/34	50/50	33/33	135/135
			325A	6.5/8.7	31.4/36.3	46/52	50/60	42/47	133/133	48/54	50/60	44/50	135/135
			327A	9.8/13.0	46.9/54.2	65/74	70/80	60/68	133/133	68/77	70/80	62/70	135/135
			329A	13.1/17.4	62.8/72.5	85/97	90/100	78/89	133/133	88/100	90/100	80/91	135/135
			330A	14.4/19.2	69.3/80.0	93/107	100/110	85/98	133/133	96/109	100/110	88/100	135/135
			331A	15.8/21.0	75.8/87.5	101/116	110/125	93/106	133/133	104/118	110/125	95/109	135/135
		MED	NONE	—	—	35	50	33	136	36	50	36	138
			323A	3.3/4.4	15.9/18.3	35/35	50/50	33/33	136/136	36/36	50/50	36/36	138/138
			325A	6.5/8.7	31.4/36.3	49/55	50/60	44/50	136/136	51/57	60/60	46/52	138/138
			327A	9.8/13.0	46.9/54.2	68/77	70/80	62/70	136/136	70/79	70/80	64/73	138/138
			329A	13.1/17.4	62.8/72.5	88/100	90/100	80/92	136/136	90/102	90/110	83/94	138/138
			330A	14.4/19.2	69.3/80.0	96/109	100/110	88/100	136/136	98/112	100/125	90/102	138/138
			331A	15.8/21.0	75.8/87.5	104/119	110/125	95/109	136/136	106/121	110/125	98/111	138/138
		HIGH	NONE	—	—	37	50	36	139	39	50	38	141
			323A	3.3/4.4	15.9/18.3	37/37	50/50	36/36	139/139	39/39	50/50	38/38	141/141
			325A	6.5/8.7	31.4/36.3	51/57	60/60	47/52	139/139	54/60	60/60	49/55	141/141
			327A	9.8/13.0	46.9/54.2	71/80	80/80	65/73	139/139	73/82	80/90	67/75	141/141
			329A	13.1/17.4	62.8/72.5	90/103	100/110	83/94	139/139	93/105	100/110	85/96	141/141
			330A	14.4/19.2	69.3/80.0	99/112	100/125	90/103	139/139	101/114	110/125	92/105	141/141
			331A	15.8/21.0	75.8/87.5	107/121	110/125	98/111	139/139	109/124	110/125	100/113	141/141
	208/230-3-60	STD	NONE	—	—	24	30	24	94	26	30	26	96
			323A	3.3/4.4	9.2/10.6	24/24	30/30	24/24	94/94	26/26	30/30	26/26	96/96
			324A	4.9/6.5	13.6/15.6	24/26	30/30	24/24	94/94	26/29	30/30	26/26	96/96
			325A	6.5/8.7	18.1/20.9	29/33	30/35	27/30	94/94	32/35	35/35	29/32	96/96
			328A	12.0/16.0	33.4/38.5	48/55	50/60	44/50	94/94	51/57	60/60	46/52	96/96
			330A	14.4/19.2	40.0/46.2	57/64	60/70	52/59	94/94	59/67	60/70	54/61	96/96
			331A	15.8/21.0	43.8/50.5	61/70	70/70	56/64	94/94	64/72	70/80	58/66	96/96
		MED	NONE	—	—	27	30	26	97	28	40	28	99
			323A	3.3/4.4	9.2/10.6	27/27	30/30	26/26	97/97	28/28	40/40	28/28	99/99
			324A	4.9/6.5	13.6/15.6	27/29	30/30	26/26	97/97	29/31	40/40	28/28	99/99
			325A	6.5/8.7	18.1/20.9	32/35	40/40	29/32	97/97	34/38	40/40	31/34	99/99
			328A	12.0/16.0	33.4/38.5	51/57	60/60	47/52	97/97	53/60	60/60	49/55	99/99
			330A	14.4/19.2	40.0/46.2	59/67	60/70	54/61	97/97	62/69	70/70	56/63	99/99
			331A	15.8/21.0	43.8/50.5	64/72	70/80	59/66	97/97	66/75	70/80	61/68	99/99
		HIGH	NONE	—	—	25	30	24	95	27	30	26	97
			323A	3.3/4.4	9.2/10.6	25/25	30/30	24/24	95/95	27/27	30/30	26/26	97/97
			324A	4.9/6.5	13.6/15.6	25/27	30/30	24/24	95/95	27/29	30/30	26/26	97/97
			325A	6.5/8.7	18.1/20.9	30/33	30/35	27/30	95/95	32/36	40/40	29/33	97/97
			328A	12.0/16.0	33.4/38.5	49/55	50/60	45/51	95/95	51/58	60/60	47/53	97/97
			330A	14.4/19.2	40.0/46.2	57/65	60/70	52/59	95/95	60/67	60/70	55/62	97/97
			331A	15.8/21.0	43.8/50.5	62/70	70/80	57/64	95/95	64/73	70/80	59/67	97/97
	460-3-60	STD	NONE	—	—	10	15	10	45	11	15	11	46
			333A	6.0	7.2	11	15	10	45	12	15	11	46
			335A	11.5	13.8	19	20	17	45	20	25	18	46
			336A	14.0	16.8	23	25	21	45	24	25	22	46
			337A	21.5	25.9	34	35	31	45	36	40	32	46
		MED	NONE	—	-—	11	15	10	45	12	15	11	46
			333A	6.0	7.2	12	15	10	45	13	15	11	46
			335A	11.5	13.8	20	20	18	45	21	25	19	46
			336A	14.0	16.8	24	25	21	45	25	25	22	46
			337A	21.5	25.9	35	35	32	45	36	40	33	46
		HIGH	NONE	—	—	12	15	11	47	13	15	12	48
			333A	6.0	7.2	13	15	11	47	14	15	12	48
			335A	11.5	13.8	21	25	19	47	22	25	20	48
			336A	14.0	16.8	25	25	22	47	26	30	23	48
			337A	21.5	25.9	36	40	33	47	37	40	34	48

Electrical data (cont)

RAW048 MCA MOCP ELECTRICAL DATA (cont)

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET							
						NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			CRHEATER ***A00	NOM (KW)	FLA	MCA	FUSE OR HACR BRKR	DISCONNECT SIZE		MCA	FUSE OR HACR BRKR	DISCONNECT SIZE	
								FLA	LRA			FLA	LRA
048 (cont)	575-3-60	STD	NONE	—	—	8	15	7	37	10	15	9	39
			339A	10.0	9.6	14	15	12	37	16	20	14	39
			340A	15.0	14.4	20	20	18	37	22	25	20	39
		MED	NONE	—	—	8	15	8	37	10	15	10	39
			339A	10.0	9.6	14	15	13	37	17	20	15	39
			340A	15.0	14.4	20	20	18	37	23	25	20	39
		HIGH	NONE	—	—	9	15	9	38	11	15	11	40
			339A	10.0	9.6	15	15	14	38	18	20	16	40
			340A	15.0	14.4	21	25	19	38	24	25	21	40

Electrical data (cont)

RAW048 MCA MOCP ELECTRICAL DATA (cont)

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			W/ POWERED CONVENIENCE OUTLET							
						NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			CRHEATER ***A00	NOM (KW)	FLA	MCA	FUSE OR HACR BRKR	DISCONNECT SIZE		MCA	FUSE OR HACR BRKR	DISCONNECT SIZE	
								FLA	LRA			FLA	LRA
048	208/230-3-60	STD	NONE	—	—	29	40	29	99	31	40	31	101
			323A	3.3/4.4	9.2/10.6	29/29	40/40	29/29	99/99	31/31	40/40	31/31	101/101
			324A	4.9/6.5	13.6/15.6	30/32	40/40	29/29	99/99	32/35	40/40	31/31	101/101
			325A	6.5/8.7	18.1/20.9	35/39	40/40	32/35	99/99	38/41	40/45	34/37	101/101
			328A	12.0/16.0	33.4/38.5	54/61	60/70	50/56	99/99	57/63	60/70	52/58	101/101
			330A	14.4/19.2	40.0/46.2	63/70	70/80	57/64	99/99	65/73	70/80	59/67	101/101
			331A	15.8/21.0	43.8/50.5	67/76	70/80	62/69	99/99	70/78	70/80	64/72	101/101
		MED	NONE	—	—	31	40	32	102	33	45	34	104
			323A	3.3/4.4	9.2/10.6	31/31	40/40	32/32	102/102	33/33	45/45	34/34	104/104
			324A	4.9/6.5	13.6/15.6	32/35	40/40	32/32	102/102	35/37	45/45	34/34	104/104
			325A	6.5/8.7	18.1/20.9	38/41	40/45	35/38	102/102	40/44	45/45	37/40	104/104
			328A	12.0/16.0	33.4/38.5	57/63	60/70	52/58	102/102	59/66	60/70	54/60	104/104
			330A	14.4/19.2	40.0/46.2	65/73	70/80	60/67	102/102	68/75	70/80	62/69	104/104
			331A	15.8/21.0	43.8/50.5	70/78	70/80	64/72	102/102	72/81	80/90	66/74	104/104
		HIGH	NONE	—	—	30	40	30	100	32	45	32	102
			323A	3.3/4.4	9.2/10.6	30/30	40/40	30/30	100/100	32/32	45/45	32/32	102/102
			324A	4.9/6.5	13.6/15.6	30/33	40/40	30/30	100/100	33/35	45/45	32/32	102/102
			325A	6.5/8.7	18.1/20.9	36/39	40/40	33/36	100/100	38/42	45/45	35/38	102/102
			328A	12.0/16.0	33.4/38.5	55/61	60/70	50/56	100/100	57/64	60/70	52/58	102/102
			330A	14.4/19.2	40.0/46.2	63/71	70/80	58/65	100/100	66/73	70/80	60/67	102/102
			331A	15.8/21.0	43.8/50.5	68/76	70/80	62/70	100/100	70/79	80/80	64/72	102/102
	460-3-60	STD	NONE	—	—	13	15	12	47	14	15	13	48
			333A	6.0	7.2	14	15	12	47	15	15	13	48
			335A	11.5	13.8	22	25	20	47	23	25	21	48
			336A	14.0	16.8	26	30	23	47	27	30	24	48
			337A	21.5	25.9	37	40	34	47	38	40	35	48
		MED	NONE	—	—	13	15	13	47	14	20	14	48
			333A	6.0	7.2	14	15	13	47	16	20	14	48
			335A	11.5	13.8	23	25	20	47	24	25	22	48
			336A	14.0	16.8	26	30	24	47	28	30	25	48
			337A	21.5	25.9	38	40	34	47	39	40	35	48
		HIGH	NONE	—	—	14	20	14	49	15	20	15	50
			333A	6.0	7.2	15	20	14	49	17	20	15	50
			335A	11.5	13.8	24	25	21	49	25	25	23	50
			336A	14.0	16.8	27	30	25	49	29	30	26	50
			337A	21.5	25.9	39	40	35	49	40	40	36	50
	575-3-60	STD	NONE	—	—	10	15	9	39	12	15	11	41
			339A	10.0	9.6	16	20	14	39	18	20	16	41
			340A	15.0	14.4	22	25	20	39	24	25	22	41
		MED	NONE	—	—	10	15	10	39	12	15	12	41
			339A	10.0	9.6	16	20	15	39	19	20	17	41
			340A	15.0	14.4	22	25	20	39	25	25	22	41
		HIGH	NONE	—	—	11	15	11	40	13	15	13	42
			339A	10.0	9.6	17	20	16	40	20	20	18	42
			340A	15.0	14.4	23	25	21	40	26	30	23	42

Electrical data (cont)

RAW048 MCA MOCP ELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET							
						NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			CRHEATER ***A00	NOM (KW)	FLA	MCA	HACR BRKR	DISCONNECT SIZE		MCA	HACR BRKR	DISCONNECT SIZE	
								FLA	LRA			FLA	LRA
048	208/230-1-60	STD	NONE	—	—	32	50	31	133	34	50	33	135
			323A	3.3/4.4	15.9/18.3	32/32	50/50	31/31	133/133	34/34	50/50	33/33	135/135
			325A	6.5/8.7	31.4/36.3	52/52	60/60	42/47	133/133	54/54	60/60	44/50	135/135
			327A	9.8/13.0	46.9/54.2	74/74	80/80	60/68	133/133	77/77	80/80	62/70	135/135
			329A	13.1/17.4	62.8/72.5	97/97	100/100	78/89	133/133	100/100	100/100	80/91	135/135
			330A	14.4/19.2	69.3/80.0	107/107	110/110	85/98	133/133	109/109	110/110	88/100	135/135
			331A	15.8/21.0	75.8/87.5	116/116	125/125	93/106	133/133	118/118	125/125	95/109	135/135
		MED	NONE	—	—	35	50	33	136	36	50	36	138
			323A	3.3/4.4	15.9/18.3	35/35	50/50	33/33	136/136	36/36	50/50	36/36	138/138
			325A	6.5/8.7	31.4/36.3	55/55	60/60	44/50	136/136	57/57	60/60	46/52	138/138
			327A	9.8/13.0	46.9/54.2	77/77	80/80	62/70	136/136	79/79	80/80	64/73	138/138
			329A	13.1/17.4	62.8/72.5	100/100	100/100	80/92	136/136	102/102	110/110	83/94	138/138
			330A	14.4/19.2	69.3/80.0	109/109	110/110	88/100	136/136	112/112	125/125	90/102	138/138
			331A	15.8/21.0	75.8/87.5	119/119	125/125	95/109	136/136	121/121	125/125	98/111	138/138
		HIGH	NONE	—	—	37	50	36	139	39	50	38	141
			323A	3.3/4.4	15.9/18.3	37/37	50/50	36/36	139/139	39/39	50/50	38/38	141/141
			325A	6.5/8.7	31.4/36.3	57/57	60/60	47/52	139/139	60/60	60/60	49/55	141/141
			327A	9.8/13.0	46.9/54.2	80/80	80/80	65/73	139/139	82/82	90/90	67/75	141/141
			329A	13.1/17.4	62.8/72.5	103/103	110/110	83/94	139/139	105/105	110/110	85/96	141/141
			330A	14.4/19.2	69.3/80.0	112/112	125/125	90/103	139/139	114/114	125/125	92/105	141/141
			331A	15.8/21.0	75.8/87.5	121/121	125/125	98/111	139/139	124/124	125/125	100/113	141/141
	208/230-3-60	STD	NONE	—	—	24	30	24	94	26	30	26	96
			323A	3.3/4.4	9.2/10.6	24/24	30/30	24/24	94/94	26/26	30/30	26/26	96/96
			324A	4.9/6.5	13.6/15.6	26/26	30/30	24/24	94/94	29/29	30/30	26/26	96/96
			325A	6.5/8.7	18.1/20.9	33/33	35/35	27/30	94/94	35/35	35/35	29/32	96/96
			328A	12.0/16.0	33.4/38.5	55/55	60/60	44/50	94/94	57/57	60/60	46/52	96/96
			330A	14.4/19.2	40.0/46.2	64/64	70/70	52/59	94/94	67/67	70/70	54/61	96/96
			331A	15.8/21.0	43.8/50.5	70/70	70/70	56/64	94/94	72/72	80/80	58/66	96/96
		MED	NONE	—	—	27	30	26	97	28	40	28	99
			323A	3.3/4.4	9.2/10.6	27/27	30/30	26/26	97/97	28/28	40/40	28/28	99/99
			324A	4.9/6.5	13.6/15.6	29/29	30/30	26/26	97/97	31/31	40/40	28/28	99/99
			325A	6.5/8.7	18.1/20.9	35/35	40/40	29/32	97/97	38/38	40/40	31/34	99/99
			328A	12.0/16.0	33.4/38.5	57/57	60/60	47/52	97/97	60/60	60/60	49/55	99/99
			330A	14.4/19.2	40.0/46.2	67/67	70/70	54/61	97/97	69/69	70/70	56/63	99/99
			331A	15.8/21.0	43.8/50.5	72/72	80/80	59/66	97/97	75/75	80/80	61/68	99/99
		HIGH	NONE	—	—	25	30	24	95	27	30	26	97
			323A	3.3/4.4	9.2/10.6	25/25	30/30	24/24	95/95	27/27	30/30	26/26	97/97
			324A	4.9/6.5	13.6/15.6	27/27	30/30	24/24	95/95	29/29	30/30	26/26	97/97
			325A	6.5/8.7	18.1/20.9	33/33	35/35	27/30	95/95	36/36	40/40	29/33	97/97
			328A	12.0/16.0	33.4/38.5	55/55	60/60	45/51	95/95	58/58	60/60	47/53	97/97
			330A	14.4/19.2	40.0/46.2	65/65	70/70	52/59	95/95	67/67	70/70	55/62	97/97
			331A	15.8/21.0	43.8/50.5	70/70	80/80	57/64	95/95	73/73	80/80	59/67	97/97
	460-3-60	STD	NONE	—	—	10	15	10	45	11	15	11	46
			333A	6.0	7.2	11	15	10	45	12	15	11	46
			335A	11.5	13.8	19	20	17	45	20	25	18	46
			336A	14.0	16.8	23	25	21	45	24	25	22	46
			337A	21.5	25.9	34	35	31	45	36	40	32	46
		MED	NONE	—	—	11	15	10	45	12	15	11	46
			333A	6.0	7.2	12	15	10	45	13	15	11	46
			335A	11.5	13.8	20	20	18	45	21	25	19	46
			336A	14.0	16.8	24	25	21	45	25	25	22	46
			337A	21.5	25.9	35	35	32	45	36	40	33	46
		HIGH	NONE	—	—	12	15	11	47	13	15	12	48
			333A	6.0	7.2	13	15	11	47	14	15	12	48
			335A	11.5	13.8	21	25	19	47	22	25	20	48
			336A	14.0	16.8	25	25	22	47	26	30	23	48
			337A	21.5	25.9	36	40	33	47	37	40	34	48

Electrical data (cont)

RAW048 MCA MOCP ELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER (cont)

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET							
						NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			CRHEATER ***A00	NOM (KW)	FLA	MCA	HACR BRKR	DISCONNECT SIZE		MCA	HACR BRKR	DISCONNECT SIZE	
								FLA	LRA			FLA	LRA
048 (cont)	575-3-60	STD	NONE	—	—	8	15	7	37	10	15	9	39
			339A	10.0	9.6	14	15	12	37	16	20	14	39
			340A	15.0	14.4	20	20	18	37	22	25	20	39
		MED	NONE	—	—	8	15	8	37	10	15	10	39
			339A	10.0	9.6	14	15	13	37	17	20	15	39
			340A	15.0	14.4	20	20	18	37	23	25	20	39
		HIGH	NONE	—	—	9	15	9	38	11	15	11	40
			339A	10.0	9.6	15	15	14	38	18	20	16	40
			340A	15.0	14.4	21	25	19	38	24	25	21	40

Electrical data (cont)

RAW048 MCA MOCP ELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER (cont)

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			W/ POWERED CONVENIENCE OUTLET							
						NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			CRHEATER ***A00	NOM (KW)	FLA	MCA	HACR BRKR	DISCONNECT SIZE		MCA	HACR BRKR	DISCONNECT SIZE	
								FLA	LRA			FLA	LRA
048	208/230-3-60	STD	NONE	—	—	29	40	29	99	31	40	31	101
			323A	3.3/4.4	9.2/10.6	29/29	40/40	29/29	99/99	31/31	40/40	31/31	101/101
			324A	4.9/6.5	13.6/15.6	32/32	40/40	29/29	99/99	35/35	40/40	31/31	101/101
			325A	6.5/8.7	18.1/20.9	39/39	40/40	32/35	99/99	41/41	45/45	34/37	101/101
			328A	12.0/16.0	33.4/38.5	61/61	70/70	50/56	99/99	63/63	70/70	52/58	101/101
			330A	14.4/19.2	40.0/46.2	70/70	80/80	57/64	99/99	73/73	80/80	59/67	101/101
			331A	15.8/21.0	43.8/50.5	76/76	80/80	62/69	99/99	78/78	80/80	64/72	101/101
		MED	NONE	—	—	31	40	32	102	33	45	34	104
			323A	3.3/4.4	9.2/10.6	31/31	40/40	32/32	102/102	33/33	45/45	34/34	104/104
			324A	4.9/6.5	13.6/15.6	35/35	40/40	32/32	102/102	37/37	45/45	34/34	104/104
			325A	6.5/8.7	18.1/20.9	41/41	45/45	35/38	102/102	44/44	45/45	37/40	104/104
			328A	12.0/16.0	33.4/38.5	63/63	70/70	52/58	102/102	66/66	70/70	54/60	104/104
			330A	14.4/19.2	40.0/46.2	73/73	80/80	60/67	102/102	75/75	80/80	62/69	104/104
			331A	15.8/21.0	43.8/50.5	78/78	80/80	64/72	102/102	81/81	90/90	66/74	104/104
		HIGH	NONE	—	—	30	40	30	100	32	45	32	102
			323A	3.3/4.4	9.2/10.6	30/30	40/40	30/30	100/100	32/32	45/45	32/32	102/102
			324A	4.9/6.5	13.6/15.6	33/33	40/40	30/30	100/100	35/35	45/45	32/32	102/102
			325A	6.5/8.7	18.1/20.9	39/39	40/40	33/36	100/100	42/42	45/45	35/38	102/102
			328A	12.0/16.0	33.4/38.5	61/61	70/70	50/56	100/100	64/64	70/70	52/58	102/102
			330A	14.4/19.2	40.0/46.2	71/71	80/80	58/65	100/100	73/73	80/80	60/67	102/102
			331A	15.8/21.0	43.8/50.5	76/76	80/80	62/70	100/100	79/79	80/80	64/72	102/102
	460-3-60	STD	NONE	—	—	13	15	12	47	14	15	13	48
			333A	6.0	7.2	14	15	12	47	15	15	13	48
			335A	11.5	13.8	22	25	20	47	23	25	21	48
			336A	14.0	16.8	26	30	23	47	27	30	24	48
			337A	21.5	25.9	37	40	34	47	38	40	35	48
		MED	NONE	—	—	13	15	13	47	14	20	14	48
			333A	6.0	7.2	14	15	13	47	16	20	14	48
			335A	11.5	13.8	23	25	20	47	24	25	22	48
			336A	14.0	16.8	26	30	24	47	28	30	25	48
			337A	21.5	25.9	38	40	34	47	39	40	35	48
		HIGH	NONE	—	—	14	20	14	49	15	20	15	50
			333A	6.0	7.2	15	20	14	49	17	20	15	50
			335A	11.5	13.8	24	25	21	49	25	25	23	50
			336A	14.0	16.8	27	30	25	49	29	30	26	50
			337A	21.5	25.9	39	40	35	49	40	40	36	50
	575-3-60	STD	NONE	—	—	10	15	9	39	12	15	11	41
			339A	10.0	9.6	16	20	14	39	18	20	16	41
			340A	15.0	14.4	22	25	20	39	24	25	22	41
		MED	NONE	—	—	10	15	10	39	12	15	12	41
			339A	10.0	9.6	16	20	15	39	19	20	17	41
			340A	15.0	14.4	22	25	20	39	25	25	22	41
		HIGH	NONE	—	—	11	15	11	40	13	15	13	42
			339A	10.0	9.6	17	20	16	40	20	20	18	42
			340A	15.0	14.4	23	25	21	40	26	30	23	42

Electrical data (cont)

RAW060 MCA MOCP ELECTRICAL DATA

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET							
						NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
								DISCONNECT SIZE				DISCONNECT SIZE	
			CRHEATER ***A00	NOM (KW)	FLA	MCA	FUSE OR HACR BRKR	FLA	LRA	MCA	FUSE OR HACR BRKR	FLA	LRA
060	208/230-1-60	STD	NONE	—	—	38	60	36	161	40	60	39	163
			324A	4.9/6.5	23.5/27.1	39/43	60/60	36/39	161/161	41/46	60/60	39/42	163/163
			325A	6.5/8.7	31.4/36.3	49/55	60/60	44/50	161/161	51/57	60/60	47/52	163/163
			327A	9.8/13.0	46.9/54.2	68/77	70/80	62/71	161/161	70/80	80/80	64/73	163/163
			329A	13.1/17.4	62.8/72.5	88/100	90/100	81/92	161/161	90/102	90/110	83/94	163/163
			331A	15.8/21.0	75.8/87.5	104/119	110/125	95/109	161/161	107/121	110/125	98/111	163/163
		MED	NONE	—	—	40	60	39	164	42	60	41	166
			324A	4.9/6.5	23.5/27.1	41/46	60/60	39/42	164/164	44/48	60/60	41/44	166/166
			325A	6.5/8.7	31.4/36.3	51/57	60/60	47/52	164/164	54/60	60/60	49/55	166/166
			327A	9.8/13.0	46.9/54.2	71/80	80/80	65/73	164/164	73/82	80/90	67/75	166/166
			329A	13.1/17.4	62.8/72.5	90/103	100/110	83/94	164/164	93/105	100/110	85/96	166/166
			331A	15.8/21.0	75.8/87.5	107/121	110/125	98/111	164/164	109/124	110/125	100/113	166/166
	208/230-3-60	STD	NONE	—	—	29	45	29	124	31	45	31	126
			324A	4.9/6.5	13.6/15.6	29/29	45/45	29/29	124/124	31/31	45/45	31/31	126/126
			326A	7.9/10.5	21.9/25.3	37/41	45/45	33/37	124/124	39/43	45/45	36/40	126/126
			328A	12.0/16.0	33.4/38.5	51/58	60/60	47/53	124/124	54/60	60/60	49/55	126/126
			331A	15.8/21.0	43.8/50.5	64/73	70/80	59/66	124/124	67/75	70/80	61/69	126/126
			332A	18.4/24.5	51.1/58.9	73/83	80/90	67/76	124/124	76/85	80/90	69/78	126/126
		MED	NONE	—	—	31	45	31	127	33	45	33	129
			324A	4.9/6.5	13.6/15.6	31/31	45/45	31/31	127/127	33/34	45/45	33/33	129/129
			326A	7.9/10.5	21.9/25.3	39/44	45/45	36/40	127/127	42/46	45/50	38/42	129/129
			328A	12.0/16.0	33.4/38.5	54/60	60/60	49/55	127/127	56/62	60/70	51/57	129/129
			331A	15.8/21.0	43.8/50.5	67/75	70/80	61/69	127/127	69/77	70/80	63/71	129/129
			332A	18.4/24.5	51.1/58.9	76/86	80/90	69/78	127/127	78/88	80/90	72/81	129/129
		HIGH	NONE	—	—	29	40	28	123	31	45	30	125
			324A	4.9/6.5	13.6/15.6	29/29	40/40	28/28	123/123	31/31	45/45	30/30	125/125
			326A	7.9/10.5	21.9/25.3	36/40	40/40	33/37	123/123	38/43	45/45	35/39	125/125
			328A	12.0/16.0	33.4/38.5	50/57	50/60	46/52	123/123	53/59	60/60	48/54	125/125
			331A	15.8/21.0	43.8/50.5	63/72	70/80	58/66	123/123	66/74	70/80	60/68	125/125
			332A	18.4/24.5	51.1/58.9	72/82	80/90	66/75	123/123	75/85	80/90	68/77	125/125
	460-3-60	STD	NONE	—	—	12	15	12	56	13	20	13	57
			333A	6.0	7.2	12	15	12	56	13	20	13	57
			335A	11.5	13.8	20	20	18	56	21	25	19	57
			336A	14.0	16.8	24	25	21	56	25	25	22	57
			337A	21.5	25.9	35	35	32	56	36	40	33	57
			338A	24.0	28.9	39	40	35	56	40	40	36	57
		MED	NONE	—	—	13	20	12	57	14	20	13	58
			333A	6.0	7.2	13	20	12	57	14	20	13	58
			335A	11.5	13.8	20	20	18	57	22	25	19	58
			336A	14.0	16.8	24	25	22	57	25	25	23	58
			337A	21.5	25.9	35	40	32	57	37	40	33	58
			338A	24.0	28.9	39	40	36	57	40	45	37	58
		HIGH	NONE	—	—	14	20	13	58	15	20	14	59
			333A	6.0	7.2	14	20	13	58	15	20	14	59
			335A	11.5	13.8	22	25	19	58	23	25	21	59
			336A	14.0	16.8	25	25	23	58	27	30	24	59
			337A	21.5	25.9	37	40	33	58	38	40	35	59
			338A	24.0	28.9	40	45	37	58	42	45	38	59
	575-3-60	STD	NONE	—	—	9	15	9	43	11	15	11	45
			340A	15.0	14.4	20	20	18	43	23	25	20	45
			341A	21.0	20.2	28	30	25	43	30	30	27	45
		MED	NONE	—	—	10	15	9	44	12	15	11	46
			340A	15.0	14.4	21	25	19	44	23	25	21	46
			341A	21.0	20.2	28	30	26	44	31	35	28	46
		HIGH	NONE	—	—	10	15	10	45	12	15	12	47
			340A	15.0	14.4	22	25	20	45	24	25	22	47
			341A	21.0	20.2	29	30	26	45	31	35	29	47

Electrical data (cont)

RAW060 MCA MOCP ELECTRICAL DATA (cont)

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			W/ POWERED CONVENIENCE OUTLET							
						NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
			CRHEATER ***A00	NOM (KW)	FLA	MCA	FUSE OR HACR BRKR	DISCONNECT SIZE		MCA	FUSE OR HACR BRKR	DISCONNECT SIZE	
								FLA	LRA			FLA	LRA
060	208/230-3-60	STD	NONE	—	—	34	45	34	129	36	50	36	131
			324A	4.9/6.5	13.6/15.6	34/35	45/45	34/34	129/129	36/37	50/50	36/36	131/131
			326A	7.9/10.5	21.9/25.3	43/47	45/50	39/43	129/129	45/49	50/50	41/45	131/131
			328A	12.0/16.0	33.4/38.5	57/64	60/70	52/58	129/129	60/66	60/70	54/60	131/131
			331A	15.8/21.0	43.8/50.5	70/79	70/80	64/72	129/129	73/81	80/90	66/74	131/131
			332A	18.4/24.5	51.1/58.9	79/89	80/90	73/82	129/129	82/91	90/100	75/84	131/131
		MED	NONE	—	—	36	50	36	132	38	50	39	134
			324A	4.9/6.5	13.6/15.6	36/37	50/50	36/36	132/132	38/40	50/50	39/39	134/134
			326A	7.9/10.5	21.9/25.3	45/50	50/50	41/45	132/132	48/52	50/60	43/47	134/134
			328A	12.0/16.0	33.4/38.5	60/66	60/70	55/60	132/132	62/68	70/70	57/63	134/134
			331A	15.8/21.0	43.8/50.5	73/81	80/90	66/74	132/132	75/83	80/90	69/76	134/134
			332A	18.4/24.5	51.1/58.9	82/92	90/100	75/84	132/132	84/94	90/100	77/86	134/134
		HIGH	NONE	—	—	34	45	33	128	35	50	36	130
			324A	4.9/6.5	13.6/15.6	34/34	45/45	33/33	128/128	35/36	50/50	36/36	130/130
			326A	7.9/10.5	21.9/25.3	42/46	45/50	38/42	128/128	44/49	50/50	40/44	130/130
			328A	12.0/16.0	33.4/38.5	56/63	60/70	51/57	128/128	59/65	60/70	54/59	130/130
			331A	15.8/21.0	43.8/50.5	69/78	70/80	63/71	128/128	72/80	80/80	66/73	130/130
			332A	18.4/24.5	51.1/58.9	78/88	80/90	72/81	128/128	81/91	90/100	74/83	130/130
	460-3-60	STD	NONE	—	—	15	20	14	58	16	20	15	59
			333A	6.0	7.2	15	20	14	58	16	20	15	59
			335A	11.5	13.8	23	25	20	58	24	25	22	59
			336A	14.0	16.8	26	30	24	58	28	30	25	59
			337A	21.5	25.9	38	40	34	58	39	40	35	59
			338A	24.0	28.9	41	45	38	58	43	45	39	59
		MED	NONE	—	—	15	20	15	59	16	20	16	60
			333A	6.0	7.2	15	20	15	59	16	20	16	60
			335A	11.5	13.8	23	25	21	59	24	25	22	60
			336A	14.0	16.8	27	30	24	59	28	30	25	60
			337A	21.5	25.9	38	40	35	59	39	40	36	60
			338A	24.0	28.9	42	45	38	59	43	45	39	60
		HIGH	NONE	—	—	16	20	16	60	17	20	17	61
			333A	6.0	7.2	16	20	16	60	17	20	17	61
			335A	11.5	13.8	24	25	22	60	26	30	23	61
			336A	14.0	16.8	28	30	25	60	29	30	27	61
			337A	21.5	25.9	39	40	36	60	41	45	37	61
			338A	24.0	28.9	43	45	39	60	44	45	40	61
	575-3-60	STD	NONE	—	—	11	15	10	45	13	15	13	47
			340A	15.0	14.4	22	25	20	45	25	25	22	47
			341A	21.0	20.2	30	30	27	45	32	35	29	47
		MED	NONE	—	—	11	15	11	46	13	15	13	48
			340A	15.0	14.4	23	25	21	46	25	30	23	48
			341A	21.0	20.2	30	30	27	46	33	35	30	48
		HIGH	NONE	—	—	12	15	12	47	14	15	14	49
			340A	15.0	14.4	24	25	22	47	26	30	24	49
			341A	21.0	20.2	31	35	28	47	34	35	30	49

Electrical data (cont)

RAW060 MCA MOCP ELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET							
			CRHEATER ***A00	NOM (KW)	FLA	NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
						MCA	HACR BRKR	DISCONNECT SIZE		MCA	HACR BRKR	DISCONNECT SIZE	
								FLA	LRA			FLA	LRA
060	208/230-1-60	STD	NONE	—	—	38	60	36	161	40	60	39	163
			324A	4.9/6.5	23.5/27.1	43/43	60/60	36/39	161/161	46/46	60/60	39/42	163/163
			325A	6.5/8.7	31.4/36.3	55/55	60/60	44/50	161/161	57/57	60/60	47/52	163/163
			327A	9.8/13.0	46.9/54.2	77/77	80/80	62/71	161/161	80/80	80/80	64/73	163/163
			329A	13.1/17.4	62.8/72.5	100/100	100/100	81/92	161/161	102/102	110/110	83/94	163/163
			331A	15.8/21.0	75.8/87.5	119/119	125/125	95/109	161/161	121/121	125/125	98/111	163/163
		MED	NONE	—	—	40	60	39	164	42	60	41	166
			324A	4.9/6.5	23.5/27.1	46/46	60/60	39/42	164/164	48/48	60/60	41/44	166/166
			325A	6.5/8.7	31.4/36.3	57/57	60/60	47/52	164/164	60/60	60/60	49/55	166/166
			327A	9.8/13.0	46.9/54.2	80/80	80/80	65/73	164/164	82/82	90/90	67/75	166/166
			329A	13.1/17.4	62.8/72.5	103/103	110/110	83/94	164/164	105/105	110/110	85/96	166/166
			331A	15.8/21.0	75.8/87.5	121/121	125/125	98/111	164/164	124/124	125/125	100/113	166/166
	208/230-3-60	STD	NONE	—	—	29	45	29	124	31	45	31	126
			324A	4.9/6.5	13.6/15.6	29/29	45/45	29/29	124/124	31/31	45/45	31/31	126/126
			326A	7.9/10.5	21.9/25.3	41/41	45/45	33/37	124/124	43/43	45/45	36/40	126/126
			328A	12.0/16.0	33.4/38.5	58/58	60/60	47/53	124/124	60/60	60/60	49/55	126/126
			331A	15.8/21.0	43.8/50.5	73/73	80/80	59/66	124/124	75/75	80/80	61/69	126/126
			332A	18.4/24.5	51.1/58.9	83/83	90/90	67/76	124/124	85/85	90/90	69/78	126/126
		MED	NONE	—	—	31	45	31	127	33	45	33	129
			324A	4.9/6.5	13.6/15.6	31/31	45/45	31/31	127/127	34/34	45/45	33/33	129/129
			326A	7.9/10.5	21.9/25.3	44/44	45/45	36/40	127/127	46/46	50/50	38/42	129/129
			328A	12.0/16.0	33.4/38.5	60/60	60/60	49/55	127/127	62/62	70/70	51/57	129/129
			331A	15.8/21.0	43.8/50.5	75/75	80/80	61/69	127/127	77/77	80/80	63/71	129/129
			332A	18.4/24.5	51.1/58.9	86/86	90/90	69/78	127/127	88/88	90/90	72/81	129/129
		HIGH	NONE	—	—	29	40	28	123	31	45	30	125
			324A	4.9/6.5	13.6/15.6	29/29	40/40	28/28	123/123	31/31	45/45	30/30	125/125
			326A	7.9/10.5	21.9/25.3	40/40	40/40	33/37	123/123	43/43	45/45	35/39	125/125
			328A	12.0/16.0	33.4/38.5	57/57	60/60	46/52	123/123	59/59	60/60	48/54	125/125
			331A	15.8/21.0	43.8/50.5	72/72	80/80	58/66	123/123	74/74	80/80	60/68	125/125
			332A	18.4/24.5	51.1/58.9	82/82	90/90	66/75	123/123	85/85	90/90	68/77	125/125
	460-3-60	STD	NONE	—	—	12	15	12	56	13	20	13	57
			333A	6.0	7.2	12	15	12	56	13	20	13	57
			335A	11.5	13.8	20	20	18	56	21	25	19	57
			336A	14.0	16.8	24	25	21	56	25	25	22	57
			337A	21.5	25.9	35	35	32	56	36	40	33	57
			338A	24.0	28.9	39	40	35	56	40	40	36	57
		MED	NONE	—	—	13	20	12	57	14	20	13	58
			333A	6.0	7.2	13	20	12	57	14	20	13	58
			335A	11.5	13.8	20	20	18	57	22	25	19	58
			336A	14.0	16.8	24	25	22	57	25	25	23	58
			337A	21.5	25.9	35	40	32	57	37	40	33	58
			338A	24.0	28.9	39	40	36	57	40	45	37	58
		HIGH	NONE	—	—	14	20	13	58	15	20	14	59
			333A	6.0	7.2	14	20	13	58	15	20	14	59
			335A	11.5	13.8	22	25	19	58	23	25	21	59
			336A	14.0	16.8	25	25	23	58	27	30	24	59
			337A	21.5	25.9	37	40	33	58	38	40	35	59
			338A	24.0	28.9	40	45	37	58	42	45	38	59
	575-3-60	STD	NONE	—	—	9	15	9	43	11	15	11	45
			340A	15.0	14.4	20	20	18	43	23	25	20	45
			341A	21.0	20.2	28	30	25	43	30	30	27	45
		MED	NONE	—	—	10	15	9	44	12	15	11	46
			340A	15.0	14.4	21	25	19	44	23	25	21	46
			341A	21.0	20.2	28	30	26	44	31	35	28	46
		HIGH	NONE	—	—	10	15	10	45	12	15	12	47
			340A	15.0	14.4	22	25	20	45	24	25	22	47
			341A	21.0	20.2	29	30	26	45	31	35	29	47

Electrical data (cont)

RAW060 MCA MOCP ELECTRICAL DATA — WITH FACTORY-INSTALLED HACR BREAKER (cont)

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER			W/ POWERED CONVENIENCE OUTLET							
			CRHEATER ***A00	NOM (KW)	FLA	NO POWER EXHAUST				W/ POWER EXHAUST (POWERED FROM UNIT)			
						MCA	HACR BRKR	DISCONNECT SIZE		MCA	HACR BRKR	DISCONNECT SIZE	
								FLA	LRA			FLA	LRA
060	208/230-3-60	STD	NONE	—	—	34	45	34	129	36	50	36	131
			324A	4.9/6.5	13.6/15.6	35/35	45/45	34/34	129/129	37/37	50/50	36/36	131/131
			326A	7.9/10.5	21.9/25.3	47/47	50/50	39/43	129/129	49/49	50/50	41/45	131/131
			328A	12.0/16.0	33.4/38.5	64/64	70/70	52/58	129/129	66/66	70/70	54/60	131/131
			331A	15.8/21.0	43.8/50.5	79/79	80/80	64/72	129/129	81/81	90/90	66/74	131/131
			332A	18.4/24.5	51.1/58.9	89/89	90/90	73/82	129/129	91/91	100/100	75/84	131/131
		MED	NONE	—	—	36	50	36	132	38	50	39	134
			324A	4.9/6.5	13.6/15.6	37/37	50/50	36/36	132/132	40/40	50/50	39/39	134/134
			326A	7.9/10.5	21.9/25.3	50/50	50/50	41/45	132/132	52/52	60/60	43/47	134/134
			328A	12.0/16.0	33.4/38.5	66/66	70/70	55/60	132/132	68/68	70/70	57/63	134/134
			331A	15.8/21.0	43.8/50.5	81/81	90/90	66/74	132/132	83/83	90/90	69/76	134/134
			332A	18.4/24.5	51.1/58.9	92/92	100/100	75/84	132/132	94/94	100/100	77/86	134/134
		HIGH	NONE	—	—	34	45	33	128	35	50	36	130
			324A	4.9/6.5	13.6/15.6	34/34	45/45	33/33	128/128	36/36	50/50	36/36	130/130
			326A	7.9/10.5	21.9/25.3	46/46	50/50	38/42	128/128	49/49	50/50	40/44	130/130
			328A	12.0/16.0	33.4/38.5	63/63	70/70	51/57	128/128	65/65	70/70	54/59	130/130
			331A	15.8/21.0	43.8/50.5	78/78	80/80	63/71	128/128	80/80	80/80	66/73	130/130
			332A	18.4/24.5	51.1/58.9	88/88	90/90	72/81	128/128	91/91	100/100	74/83	130/130
	460-3-60	STD	NONE	—	—	15	20	14	58	16	20	15	59
			333A	6.0	7.2	15	20	14	58	16	20	15	59
			335A	11.5	13.8	23	25	20	58	24	25	22	59
			336A	14.0	16.8	26	30	24	58	28	30	25	59
			337A	21.5	25.9	38	40	34	58	39	40	35	59
			338A	24.0	28.9	41	45	38	58	43	45	39	59
		MED	NONE	—	—	15	20	15	59	16	20	16	60
			333A	6.0	7.2	15	20	15	59	16	20	16	60
			335A	11.5	13.8	23	25	21	59	24	25	22	60
			336A	14.0	16.8	27	30	24	59	28	30	25	60
			337A	21.5	25.9	38	40	35	59	39	40	36	60
			338A	24.0	28.9	42	45	38	59	43	45	39	60
		HIGH	NONE	—	—	16	20	16	60	17	20	17	61
			333A	6.0	7.2	16	20	16	60	17	20	17	61
			335A	11.5	13.8	24	25	22	60	26	30	23	61
			336A	14.0	16.8	28	30	25	60	29	30	27	61
			337A	21.5	25.9	39	40	36	60	41	45	37	61
			338A	24.0	28.9	43	45	39	60	44	45	40	61
	575-3-60	STD	NONE	—	—	11	15	10	45	13	15	13	47
			340A	15.0	14.4	22	25	20	45	25	25	22	47
			341A	21.0	20.2	30	30	27	45	32	35	29	47
		MED	NONE	—	—	11	15	11	46	13	15	13	48
			340A	15.0	14.4	23	25	21	46	25	30	23	48
			341A	21.0	20.2	30	30	27	46	33	35	30	48
		HIGH	NONE	—	—	12	15	12	47	14	15	14	49
			340A	15.0	14.4	24	25	22	47	26	30	24	49
			341A	21.0	20.2	31	35	28	47	34	35	30	49

Electrical data (cont)

RAW036 ELECTRIC HEAT DATA — WITHOUT NON-FUSED DISCONNECT

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER PART NUMBER	NOM (KW)	APPLICATION (KW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION PART NUMBER CRSINGLEXXXA00			
							NO C.O. OR UNPOWERED C.O.		W/PWRD C.O.	
							NO P.E.	W/P.E. (PWRD FR/ UNIT)	NO P.E	W/P.E. (PWRD FR/ UNIT)
036	208/230-1-60	STD	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	—	—	—	—
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	—	037	—	—
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	037	040	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
		MED	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	—	—	—	—
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	040	040	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
		HIGH	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	—	—	—	—
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	040	040	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
	208/230-3-60	STD	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	—	—	—	—
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	—	—	—	—
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	—	—	—	—
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	037	038
		MED	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	—	—	—	—
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	—	—	—	—
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	—	—	—	—
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	037	038
		HIGH	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	—	—	—	—
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	—	—	—	—
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	—	—	—	—
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	038	038
	460-3-60	STD	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER334A00	8.8	8.1	27.6	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
		MED	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER334A00	8.8	8.1	27.6	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
		HIGH	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER334A00	8.8	8.1	27.6	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
	575-3-60	STD	CRHEATER339A00	10.0	9.2	31.3	—	—	—	—
			CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
		MED	CRHEATER339A00	10.0	9.2	31.3	—	—	—	—
			CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
		HIGH	CRHEATER339A00	10.0	9.2	31.3	—	—	—	—
			CRHEATER340A00	15.0	13.8	47.0	—	—	—	—

Electrical data (cont)

RAW036 ELECTRIC HEAT DATA — WITH NON-FUSED DISCONNECT

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER PART NUMBER	NOM (KW)	APPLICATION (KW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION PART NUMBER CRSINGLEXXXA00			
							NO C.O. OR UNPOWERED C.O.		W/PWRD C.O.	
							NO P.E.	W/P.E. (PWRD FR/ UNIT)	NO P.E	W/P.E. (PWRD FR/ UNIT)
036	208/230-1-60	STD	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	037	037	—	—
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	037	040	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
		MED	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	037	037	—	—
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	040	040	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
		HIGH	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	037	037	—	—
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	040	040	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
	208/230-3-60	STD	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	037	037	037	037
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	037	037
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	037	037
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	037	037	037	037
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	037	038
		MED	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	037	037	037	037
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	037	037
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	037	037
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	037	037	037	037
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	038	038
		HIGH	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	037	037	037	037
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	037	037
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	037	037
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	037	037	037	037
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	038	038
	460-3-60	STD	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER334A00	8.8	8.1	27.6	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
		MED	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER334A00	8.8	8.1	27.6	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
		HIGH	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER334A00	8.8	8.1	27.6	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
	575-3-60	STD	CRHEATER339A00	10.0	9.2	31.3	—	—	—	—
			CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
		MED	CRHEATER339A00	10.0	9.2	31.3	—	—	—	—
			CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
		HIGH	CRHEATER339A00	10.0	9.2	31.3	—	—	—	—
			CRHEATER340A00	15.0	13.8	47.0	—	—	—	—

Electrical data (cont)

RAW048 ELECTRIC HEAT DATA — WITHOUT NON-FUSED DISCONNECT

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER PART NUMBER	NOM (KW)	APPLICATION (KW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION PART NUMBER CRSINGLEXXXA00			
							NO C.O. OR UNPOWERED C.O.		W/PWRD C.O.	
							NO P.E.	W/P.E. (PWRD FR/ UNIT)	NO P.E	W/P.E. (PWRD FR/ UNIT)
048	208/230-1-60	STD	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
			CRHEATER329A00	17.4	13.1/16.0	44.6/54.5	040	040	—	—
			CRHEATER330A00*	19.2	14.4/17.6	49.2/60.2	040	040	—	—
			CRHEATER331A00†	21.0	15.8/19.3	53.8/65.8	040	040	—	—
		MED	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
			CRHEATER329A00	17.4	13.1/16.0	44.6/54.5	040	040	—	—
			CRHEATER330A00*	19.2	14.4/17.6	49.2/60.2	040	040	—	—
			CRHEATER331A00†	21.0	15.8/19.3	53.8/65.8	040	040	—	—
		HIGH	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
			CRHEATER329A00	17.4	13.1/16.0	44.6/54.5	040	040	—	—
			CRHEATER330A00*	19.2	14.4/17.6	49.2/60.2	040	040	—	—
			CRHEATER331A00†	21.0	15.8/19.3	53.8/65.8	040	040	—	—
	208/230-3-60	STD	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	—	—	—	—
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	—	—	—	—
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	038	038
			CRHEATER330A00*	19.2	14.4/17.6	49.2/60.2	038	038	038	038
			CRHEATER331A00†	21.0	15.8/19.3	53.8/65.8	038	038	038	038
		MED	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	—	—	—	—
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	—	—	—	—
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	038	038
			CRHEATER330A00*	19.2	14.4/17.6	49.2/60.2	038	038	038	038
			CRHEATER331A00†	21.0	15.8/19.3	53.8/65.8	038	038	038	038
		HIGH	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	—	—	—	—
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	—	—	—	—
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	038	038
			CRHEATER330A00*	19.2	14.4/17.6	49.2/60.2	038	038	038	038
			CRHEATER331A00†	21.0	15.8/19.3	53.8/65.8	038	038	038	038
	460-3-60	STD	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
			CRHEATER337A00	21.5	19.7	67.4	037	037	037	037
		MED	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
			CRHEATER337A00	21.5	19.7	67.4	037	037	037	037
		HIGH	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
			CRHEATER337A00	21.5	19.7	67.4	037	037	037	037
	575-3-60	STD	CRHEATER339A00	10.0	9.2	31.3	—	—	—	—
			CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
		MED	CRHEATER339A00	10.0	9.2	31.3	—	—	—	—
			CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
		HIGH	CRHEATER339A00	10.0	9.2	31.3	—	—	—	—
			CRHEATER340A00	15.0	13.8	47.0	—	—	—	—

*Do not use with size 05 horizontal duct configuration units.

†Do not use with size 05 vertical duct configuration units.

Electrical data (cont)

RAW048 ELECTRIC HEAT DATA — WITH NON-FUSED DISCONNECT

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER PART NUMBER	NOM (KW)	APPLICATION (KW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION PART NUMBER CRSINGLEXXXA00			
							NO C.O. OR UNPOWERED C.O.		W/PWRD C.O.	
							NO P.E.	W/P.E. (PWRD FR/ UNIT)	NO P.E	W/P.E. (PWRD FR/ UNIT)
048	208/230-1-60	STD	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	037	037	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
			CRHEATER329A00	17.4	13.1/16.0	44.6/54.5	040	040	—	—
			CRHEATER330A00*	19.2	14.4/17.6	49.2/60.2	040	040	—	—
			CRHEATER331A00†	21.0	15.8/19.3	53.8/65.8	040	040	—	—
		MED	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	037	037	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
			CRHEATER329A00	17.4	13.1/16.0	44.6/54.5	040	040	—	—
			CRHEATER330A00*	19.2	14.4/17.6	49.2/60.2	040	040	—	—
			CRHEATER331A00†	21.0	15.8/19.3	53.8/65.8	040	040	—	—
		HIGH	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	037	037	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
			CRHEATER329A00	17.4	13.1/16.0	44.6/54.5	040	040	—	—
			CRHEATER330A00*	19.2	14.4/17.6	49.2/60.2	040	040	—	—
			CRHEATER331A00†	21.0	15.8/19.3	53.8/65.8	040	040	—	—
	208/230-3-60	STD	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	037	037	037	037
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	037	037
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	037	037
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	038	038
			CRHEATER330A00*	19.2	14.4/17.6	49.2/60.2	038	038	038	038
			CRHEATER331A00†	21.0	15.8/19.3	53.8/65.8	038	038	038	038
		MED	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	037	037	037	037
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	037	037
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	037	037
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	038	038
			CRHEATER330A00*	19.2	14.4/17.6	49.2/60.2	038	038	038	038
			CRHEATER331A00†	21.0	15.8/19.3	53.8/65.8	038	038	038	038
		HIGH	CRHEATER323A00	4.4	3.3/4.0	11.3/13.8	037	037	037	037
			CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	037	037
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	037	037
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	038	038
			CRHEATER330A00*	19.2	14.4/17.6	49.2/60.2	038	038	038	038
			CRHEATER331A00†	21.0	15.8/19.3	53.8/65.8	038	038	038	038
	460-3-60	STD	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
			CRHEATER337A00	21.5	19.7	67.4	037	037	037	037
		MED	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
			CRHEATER337A00	21.5	19.7	67.4	037	037	037	037
		HIGH	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
			CRHEATER337A00	21.5	19.7	67.4	037	037	037	037
	575-3-60	STD	CRHEATER339A00	10.0	9.2	31.3	—	—	—	—
			CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
		MED	CRHEATER339A00	10.0	9.2	31.3	—	—	—	—
			CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
		HIGH	CRHEATER339A00	10.0	9.2	31.3	—	—	—	—
			CRHEATER340A00	15.0	13.8	47.0	—	—	—	—

*Do not use with size 05 horizontal duct configuration units.

†Do not use with size 05 vertical duct configuration units.

Electrical data (cont)

RAW060 ELECTRIC HEAT DATA — WITHOUT NON-FUSED DISCONNECT

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER PART NUMBER	NOM (KW)	APPLICATION (KW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION PART NUMBER CRSINGLEXXXA00			
							NO C.O. OR UNPOWERED C.O.		W/PWRD C.O.	
							NO P.E.	W/P.E. (PWRD FR/ UNIT)	NO P.E	W/P.E. (PWRD FR/ UNIT)
060	208/230-1-60	STD	CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
			CRHEATER329A00	17.4	13.1/16.0	44.6/54.5	040	040	—	—
			CRHEATER331A00	21.0	15.8/19.3	53.8/65.8	040	040	—	—
		MED	CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
			CRHEATER329A00	17.4	13.1/16.0	44.6/54.5	040	040	—	—
			CRHEATER331A00	21.0	15.8/19.3	53.8/65.8	040	040	—	—
	208/230-3-60	STD	CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	—	—	—	—
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	038	038
			CRHEATER331A00	21.0	15.8/19.3	53.8/65.8	038	038	038	038
			CRHEATER332A00	24.5	18.4/22.5	62.8/76.8	038	038	038	038
		MED	CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	—	—	—	037
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	038	038	038
			CRHEATER331A00	21.0	15.8/19.3	53.8/65.8	038	038	038	038
			CRHEATER332A00	24.5	18.4/22.5	62.8/76.8	038	038	038	038
		HIGH	CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	—	—	—	—
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	—	—	—	—
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	038	038
			CRHEATER331A00	21.0	15.8/19.3	53.8/65.8	038	038	038	038
			CRHEATER332A00	24.5	18.4/22.5	62.8/76.8	038	038	038	038
	460-3-60	STD	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
			CRHEATER337A00	21.5	19.7	67.4	037	037	037	037
			CRHEATER338A00	24.0	22.0	75.2	037	037	037	037
		MED	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
			CRHEATER337A00	21.5	19.7	67.4	037	037	037	037
			CRHEATER338A00	24.0	22.0	75.2	037	037	037	037
		HIGH	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
			CRHEATER337A00	21.5	19.7	67.4	037	037	037	037
			CRHEATER338A00	24.0	22.0	75.2	037	037	037	037
	575-3-60	STD	CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
			CRHEATER341A00	21.0	19.3	65.8	037	037	037	037
		MED	CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
			CRHEATER341A00	21.0	19.3	65.8	037	037	037	037
		HIGH	CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
			CRHEATER341A00	21.0	19.3	65.8	037	037	037	037

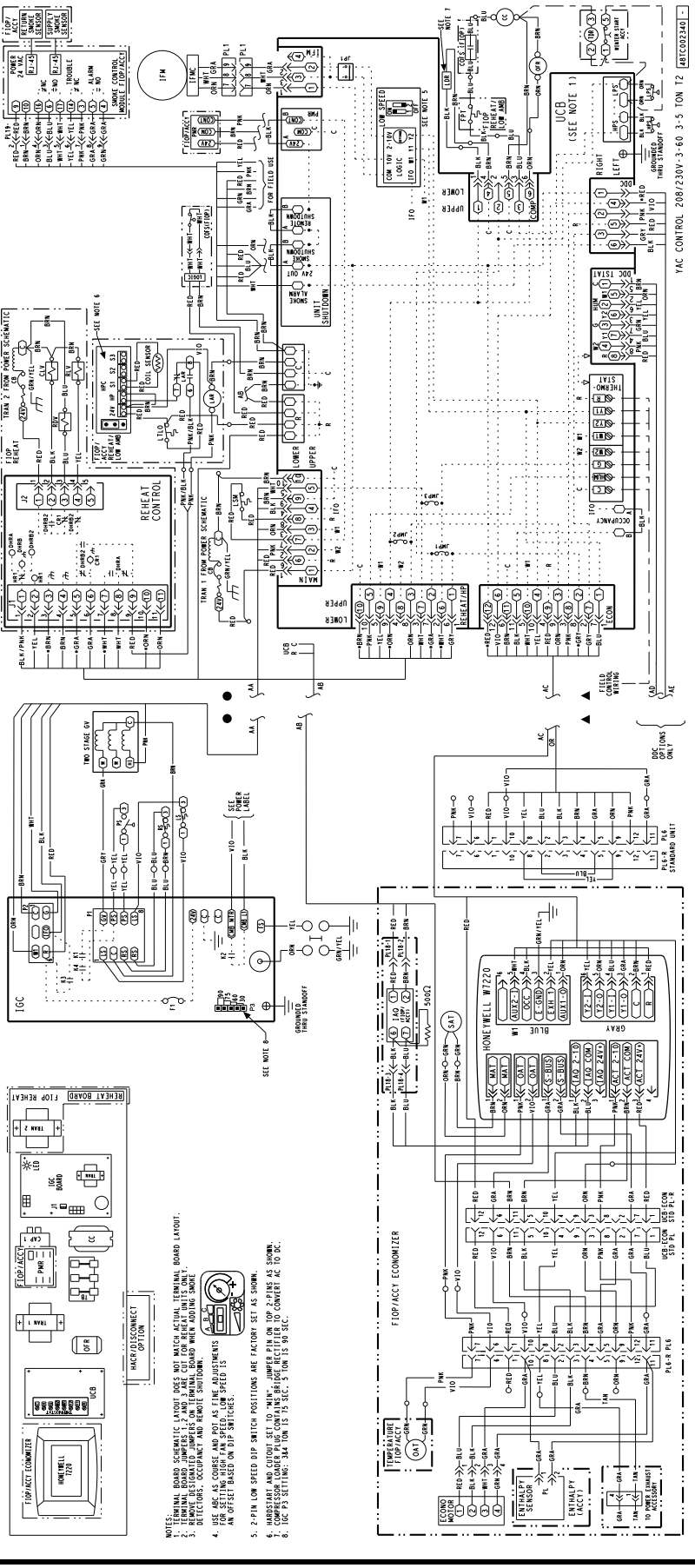
Electrical data (cont)

RAW060 ELECTRIC HEAT DATA — WITH NON-FUSED DISCONNECT

RAW UNIT SIZE	NOM. V-PH-Hz	IFM TYPE	ELECTRIC HEATER PART NUMBER	NOM (KW)	APPLICATION (KW)	APPLICATION OUTPUT (MBH)	SINGLE POINT OR JUNCTION PART NUMBER CRSINGLEXXXA00			
							NO C.O. OR UNPOWERED C.O.		W/PWRD C.O.	
							NO P.E.	W/P.E. (PWRD FR/ UNIT)	NO P.E	W/P.E. (PWRD FR/ UNIT)
060	208/230-1-60	STD	CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
			CRHEATER329A00	17.4	13.1/16.0	44.6/54.5	040	040	—	—
			CRHEATER331A00	21.0	15.8/19.3	53.8/65.8	040	040	—	—
		MED	CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	—	—
			CRHEATER325A00	8.7	6.5/8.0	22.3/27.3	037	037	—	—
			CRHEATER327A00	13.0	9.8/11.9	33.3/40.7	040	040	—	—
			CRHEATER329A00	17.4	13.1/16.0	44.6/54.5	040	040	—	—
			CRHEATER331A00	21.0	15.8/19.3	53.8/65.8	040	040	—	—
	208/230-3-60	STD	CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	037	037
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	037	037	037	037
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	038	038
			CRHEATER331A00	21.0	15.8/19.3	53.8/65.8	038	038	038	038
			CRHEATER332A00	24.5	18.4/22.5	62.8/76.8	038	038	038	038
		MED	CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	037	037
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	037	037	037	037
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	038	038	038
			CRHEATER331A00	21.0	15.8/19.3	53.8/65.8	038	038	038	038
			CRHEATER332A00	24.5	18.4/22.5	62.8/76.8	038	038	038	038
		HIGH	CRHEATER324A00	6.5	4.9/6.0	16.7/20.4	037	037	037	037
			CRHEATER326A00	10.5	7.9/9.6	26.9/32.9	037	037	037	037
			CRHEATER328A00	16.0	12.0/14.7	41.0/50.1	037	037	038	038
			CRHEATER331A00	21.0	15.8/19.3	53.8/65.8	038	038	038	038
			CRHEATER332A00	24.5	18.4/22.5	62.8/76.8	038	038	038	038
	460-3-60	STD	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
			CRHEATER337A00	21.5	19.7	67.4	037	037	037	037
			CRHEATER338A00	24.0	22.0	75.2	037	037	037	037
		MED	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
			CRHEATER337A00	21.5	19.7	67.4	037	037	037	037
			CRHEATER338A00	24.0	22.0	75.2	037	037	037	037
		HIGH	CRHEATER333A00	6.0	5.5	18.8	—	—	—	—
			CRHEATER335A00	11.5	10.6	36.0	—	—	—	—
			CRHEATER336A00	14.0	12.9	43.9	—	—	—	—
			CRHEATER337A00	21.5	19.7	67.4	037	037	037	037
			CRHEATER338A00	24.0	22.0	75.2	037	037	037	037
	575-3-60	STD	CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
			CRHEATER341A00	21.0	19.3	65.8	037	037	037	037
		MED	CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
			CRHEATER341A00	21.0	19.3	65.8	037	037	037	037
		HIGH	CRHEATER340A00	15.0	13.8	47.0	—	—	—	—
			CRHEATER341A00	21.0	19.3	65.8	037	037	037	037

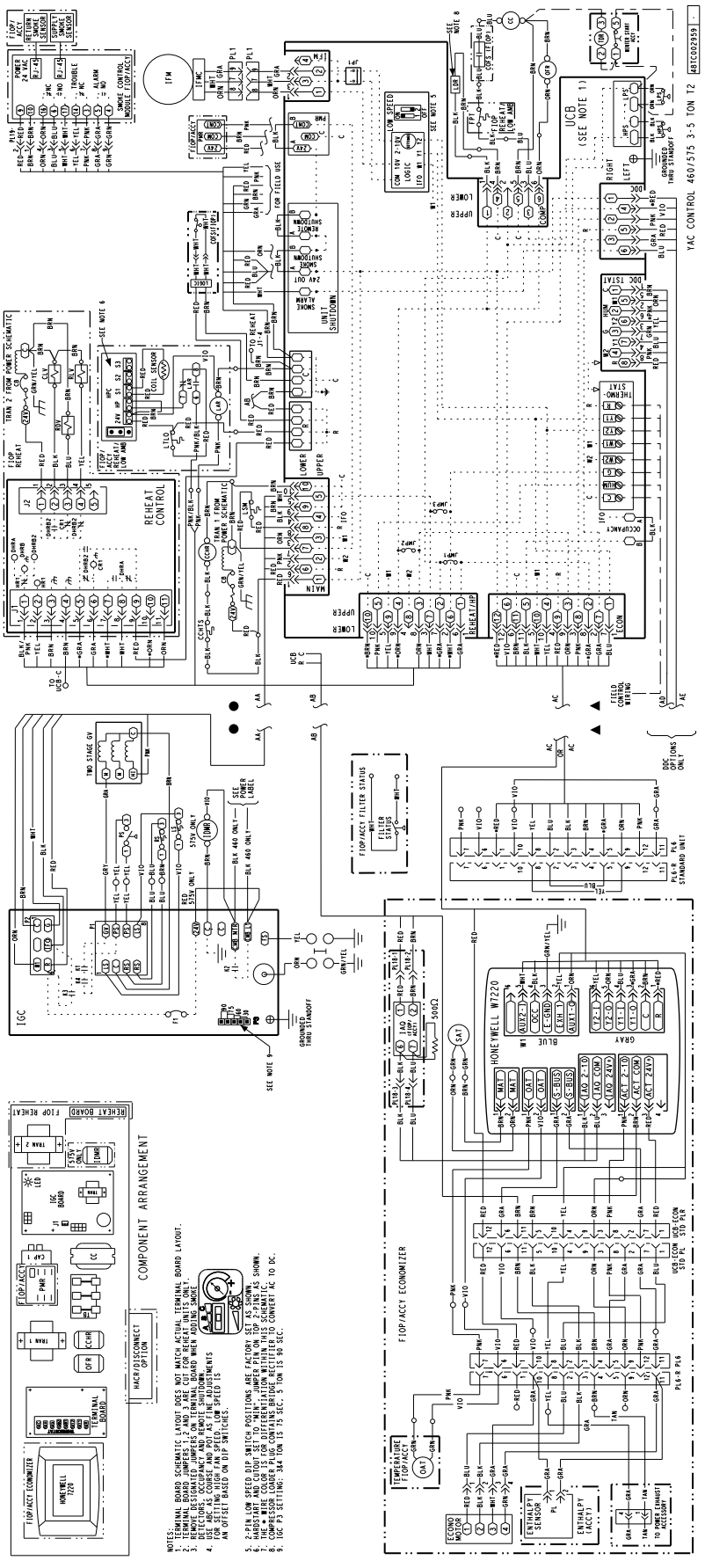
Typical wiring diagrams

TYPICAL CONTROL WIRING DIAGRAM — RGW036-060 208-230/3/60 UNIT WITH ELECTRO-MECHANICAL CONTROL AND W7220 ECONOMIZER



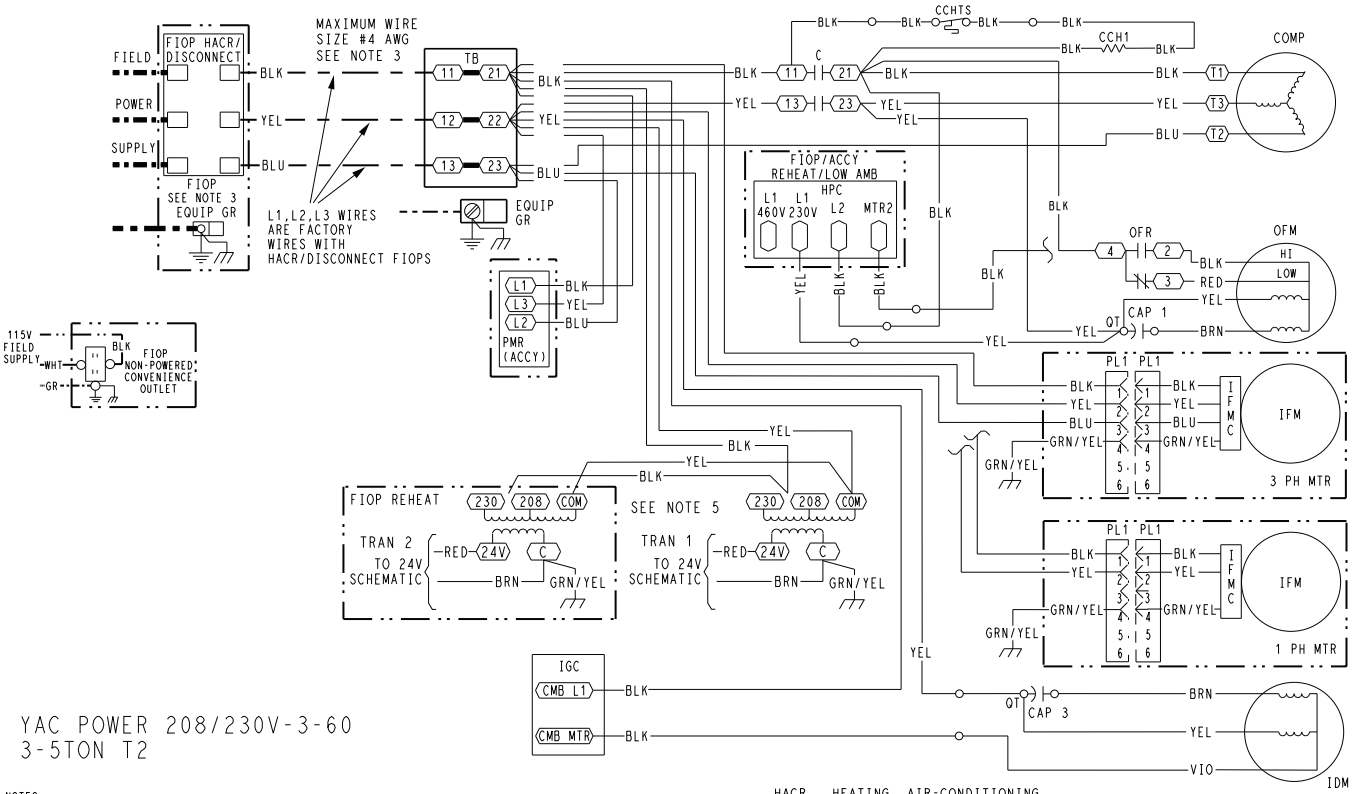
Typical wiring diagrams (cont)

TYPICAL CONTROL WIRING DIAGRAM — RGW036-060 575/3/60 UNIT WITH ELECTRO-MECHANICAL CONTROL AND W7220 ECONOMIZER



Typical wiring diagrams (cont)

TYPICAL RGW036-060 POWER WIRING DIAGRAM, 208-230/3/60 UNIT SHOWN



NOTES
1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED. IT MUST BE REPLACED WITH TYPE 90° C WIRE OR ITS EQUIVALENT.
2. COMPRESSOR AND FAN MOTORS ARE THERMALLY PROTECTED.
3. USE COPPER CONDUCTOR ONLY.
4. DO NOT DISCONNECT POWER PLUG OR SIGNAL WIRE WHILE UNDER LOAD.
5. ON 208/230V UNITS, TRAN IS WIRED FOR 230V. IF UNIT IS TO BE RUN WITH 208V POWER SUPPLY, DISCONNECT BLK WIRE FROM 230V TAP AND CONNECT TO 208V TAP.

LEGEND

- MARKED WIRE
- TERMINAL (MARKED)
- TERMINAL (UNMARKED)
- TERMINAL BLOCK
- SPLICE
- SPLICE (MARKED)
- FACTORY WIRING
- FIELD CONTROL WIRING
- FIELD POWER WIRING
- CIRCUIT BOARD TRACE
- ACCESSORY OR OPTIONAL WIRING

ACCY	ACCESSORY
AUX	AUXILIARY
AWG	AMERICAN WIRE GAGE
BA	BUILDING AUTOMATION NETWORK
CC	CONTACTOR,COMPRESSOR
C	COMMON
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CCH	CRANKCASE HEATER
CCHR	CRANKCASE HEATER RELAY
CCHTS	CRANKCASE HEATER TEMP SWITCH
CLO	COMPRESSOR LOCKOUT
CLV	COOLING LIQUID VALVE
CMB	CENTRIFUGAL MOTOR BLOWER
COFS	CONDENSATE OVERFLOW SWITCH
COM	SIGNAL COMMON
COMP	COMPRESSOR MOTOR
DDC	DIRECT DIGITAL CONTROL
DFB	DEFROST BOARD
DFT	DEFROST THERMOSTAT
EHR	ELECTRIC HEAT RELAY
ENTH	ENTHALPY
EQUIP	EQUIPMENT
ERV	ENERGY RECOVERY VENTILATOR
ESL	ENTHALPY SENSOR - LOW
FB	FUSE BLOCK
FIOP	FACTORY INSTALLED OPTION
FPT	FREEZE PROTECTION THERMOSTAT
FS	FLAME SWITCH
FST	FAN HOUSING TEMP. SENSOR
FU	FUSE
G	THERMOSTAT FAN CALL
GR(GND)	GROUND
GV	GAS VALVE

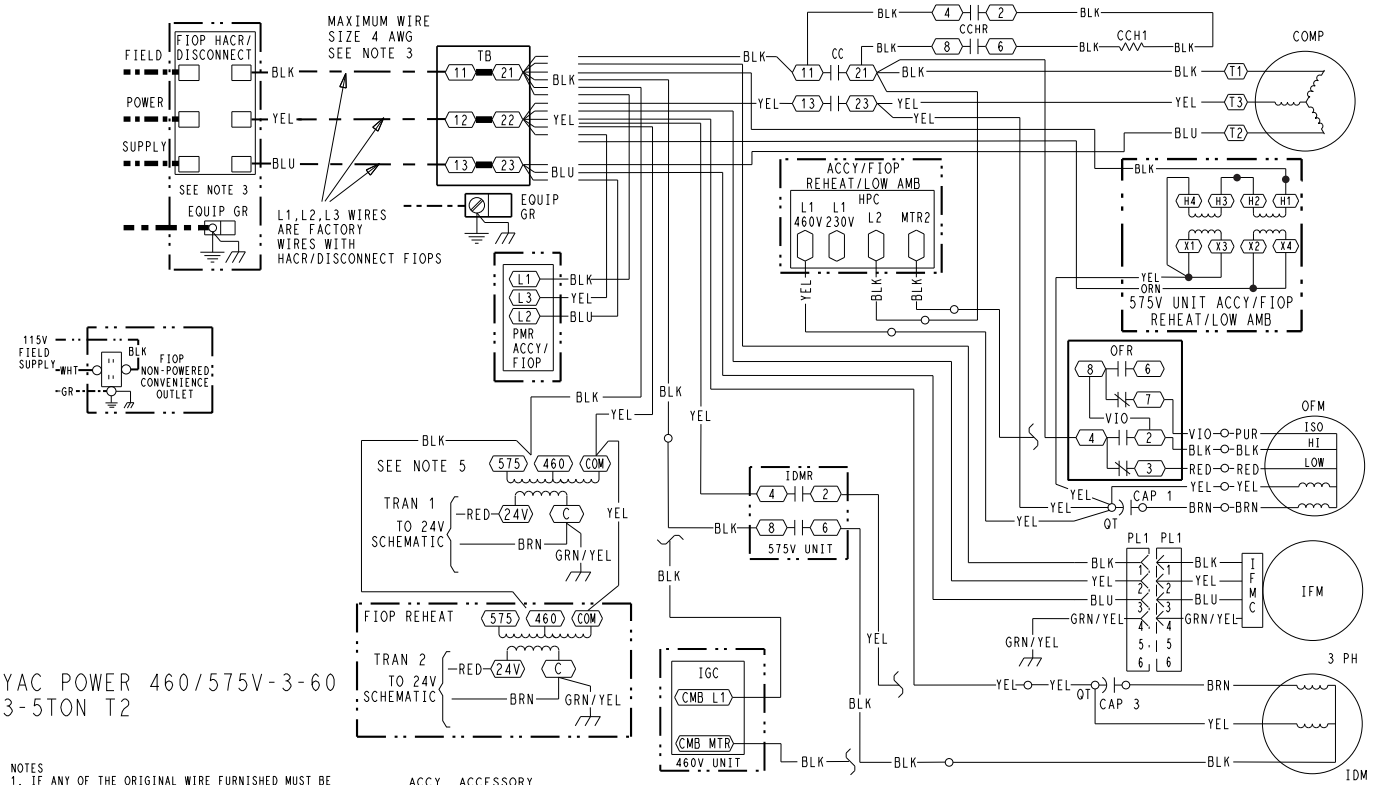
HACR	HEATING, AIR-CONDITIONING, REFRIGERATION BREAKER
HGRH	HOT GAS REHEAT
HPC	HEAD PRESSURE CONTROL
HPS	HIGH PRESSURE SWITCH
HR	HEATER RELAY
HUM	HUMIDISTAT
I	IGNITOR
IAQ	INDOOR AIR QUALITY SENSORS
IDM	INDUCED DRAFT MOTOR
IDMR	INDUCED DRAFT RELAY
IFM	INDOOR FAN MOTOR
IFMC	INDOOR FAN MOTOR CONTROL
IFO	INDOOR FAN ON SIGNAL
IGC	INTEGRATED GAS CONTROL
IRH	INDOOR RELATIVE HUMIDITY
JMP	JUMPER
L1	LINE 1
LA	LOW AMBIENT LOCKOUT
LAR	LOW AMBIENT RELAY
LAS	LOW AMBIENT SWITCH
LDR	COMPRESSOR LOADER
LEN	LOCAL EQUIPMENT NETWORK
LOC	LOSS OF CHARGE
LOOP PWR	CURRENT LOOP POWER
LPS	LOW PRESSURE SWITCH
LS	LIMIT SWITCH
LSM	LIMIT SWITCH (MANUAL RESET)
LTLO	LOW TEMP LOCKOUT
MBB	MAIN BASE BOARD
MOV	METAL OXIDE VARISTOR
MTR	MOTOR
OAQ	OUTDOOR AIR QUALITY
OAT	OUTDOOR AIR TEMP. SENSOR
OFM	OUTDOOR FAN MOTOR
OFR	OUTDOOR FAN RELAY
OL	OVERLOAD

PER	POWER EXHAUST RELAY
PH	PHASE
PL	PLUG ASSEMBLY
POT	POTENTIOMETER
PMR	PHASE MONITOR RELAY
PS	PRESSURE SWITCH
PWM	PULSE WIDTH MODULATION
QT	QUADRUPLE TERMINAL
R	THERMOSTAT POWER
RAT	RETURN AIR TEMP. SENSOR
RDV	REHEAT DISCHARGE VALVE
RH	RELATIVE HUMIDITY
RLV	REHEAT LIQUID VALVE
RNET	LOCAL ACCESS NETWORK
RS	ROLLOUT SWITCH
RVS	REVERSING VALVE SOLENOID
SAT	SUPPLY AIR TEMP SENSOR
SDP	SYSTEM DISCHARGE PRESSURE
SPRH	SPACE RELATIVE HUMIDITY
SPT	SPACE TEMPERATURE SENSOR
SPTO	SPACE TEMPERATURE OFFSET
SSP	SYSTEM SUCTION PRESSURE
STD	STANDARD
SW	SWITCH
TB	TERMINAL BLOCK
TDR	TIME DELAY RELAY
TRAN	TRANSFORMER
UCB	UNIT CONTROL BOARD
W1	1st STAGE OF HEATING CALL
W2	2nd STAGE OF HEATING CALL
Y1	1st STAGE OF COOLING CALL
Y2	2nd STAGE OF COOLING CALL

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Typical wiring diagrams (cont)

TYPICAL RGW036-060 POWER WIRING DIAGRAM, 460-575/3/60 UNIT SHOWN



NOTES
1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90° C WIRE OR ITS EQUIVALENT.
2. COMPRESSOR AND FAN MOTORS ARE THERMALLY PROTECTED.
3. USE COPPER CONDUCTOR ONLY.
4. DO NOT DISCONNECT POWER PLUG OR SIGNAL WIRE WHILE UNDER LOAD.
5. TRANSFORMER IS DEDICATED BASED ON UNIT VOLTAGE. TAPS ONLY SHOWN TO SIMPLIFY SCHEMATIC.

LEGEND

- MARKED WIRE
- TERMINAL (MARKED)
- TERMINAL (UNMARKED)
- TERMINAL BLOCK
- SPLICE
- SPLICE (MARKED)
- FACTORY WIRING
- FIELD CONTROL WIRING
- FIELD POWER WIRING
- CIRCUIT BOARD TRACE
- ACCESSORY OR OPTIONAL WIRING

ACCY	ACCESSORY
AUX	AUXILIARY
AWG	AMERICAN WIRE GAGE
BA	BUILDING AUTOMATION NETWORK
CC	CONTACTOR,COMPRESSOR
C	COMMON
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CCH	CRANKCASE HEATER
CCHR	CRANKCASE HEATER RELAY
CCHTS	CRANKCASE HEATER TEMP SWITCH
CLO	COMPRESSOR LOCKOUT
CLV	COOLING LIQUID VALVE
CMB	CENTRIFUGAL MOTOR BLOWER
COFS	CONDENSATE OVERFLOW SWITCH
COM	SIGNAL COMMON
COMP	COMPRESSOR MOTOR
DDC	DIRECT DIGITAL CONTROL
DFB	DEFROST BOARD
DFT	DEFROST THERMOSTAT
EHR	ELECTRIC HEAT RELAY
ENTH	ENTHALPY
EQUIP	EQUIPMENT
ERV	ENERGY RECOVERY VENTILATOR
ESL	ENTHALPY SENSOR - LOW
FB	FUSE BLOCK
FIOP	FACTORY INSTALLED OPTION
FPT	FREEZE PROTECTION THERMOSTAT
FS	FLAME SWITCH
FST	FAN HOUSING TEMP. SENSOR
FU	FUSE
G	THERMOSTAT FAN CALL
GR(GND)	GROUND
GV	GAS VALVE
HACR	HEATING, AIR-CONDITIONING, REFRIGERATION BREAKER
HGRH	HOT GAS REHEAT

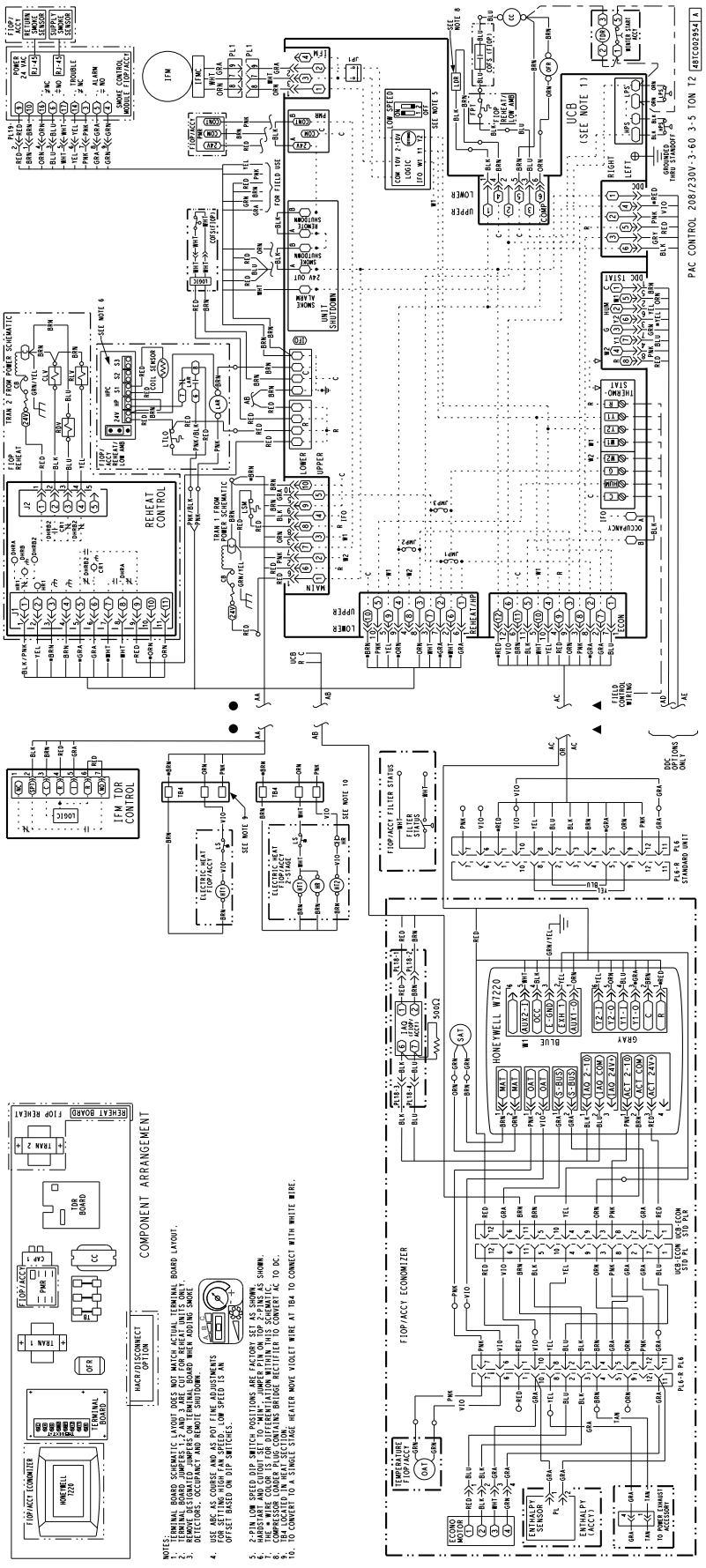
HGRH	HOT GAS REHEAT
HPC	HEAD PRESSURE CONTROL
HPS	HIGH PRESSURE SWITCH
HR	HEATER RELAY
HUM	HUMIDISTAT
I	IGNITOR
IAQ	INDOOR AIR QUALITY SENSORS
IDM	INDUCED DRAFT MOTOR
IDMR	INDUCED DRAFT RELAY
IFM	INDOOR FAN MOTOR
IFMC	INDOOR FAN MOTOR CONTROL
IFO	INDOOR FAN ON SIGNAL
IGC	INTEGRATED GAS CONTROL
I	IGNITOR
IRH	INDOOR RELATIVE HUMIDITY
JMP	JUMPER
L1	LINE 1
LA	LOW AMBIENT LOCKOUT
LAR	LOW AMBIENT RELAY
LAS	LOW AMBIENT SWITCH
LDR	COMPRESSOR LOADER
LEN	LOCAL EQUIPMENT NETWORK
LOC	LOSS OF CHARGE
LOOP PWR	CURRENT LOOP POWER
LPS	LOW PRESSURE SWITCH
LS	LIMIT SWITCH
LSM	LIMIT SWITCH (MANUAL RESET)
LTLO	LOW TEMP LOCKOUT
MBB	MAIN BASE BOARD
MOV	METAL OXIDE VARISTOR
MTR	MOTOR
OAQ	OUTDOOR AIR QUALITY
OAT	OUTDOOR AIR TEMP. SENSOR
OFM	OUTDOOR FAN MOTOR
OFR	OUTDOOR FAN RELAY
OL	OVERLOAD

PER	POWER EXHAUST RELAY
PH	PHASE
PL	PLUG ASSEMBLY
POT	POTENTIOMETER
PMR	PHASE MONITOR RELAY
PS	PRESSURE SWITCH
PWM	PULSE WIDTH MODULATION
QT	QUADRUPLE TERMINAL
R	THERMOSTAT POWER
RAT	RETURN AIR TEMP. SENSOR
RDV	REHEAT DISCHARGE VALVE
RH	RELATIVE HUMIDITY
RLV	REHEAT LIQUID VALVE
RNET	LOCAL ACCESS NETWORK
RS	ROLLOUT SWITCH
RVS	REVERSING VALVE SOLENOID
SAT	SUPPLY AIR TEMP SENSOR
SDP	SYSTEM DISCHARGE PRESSURE
SPRH	SPACE RELATIVE HUMIDITY
SPT	SPACE TEMPERATURE SENSOR
SPTO	SPACE TEMPERATURE OFFSET
SSP	SYSTEM SUCTION PRESSURE
STD	STANDARD
SW	SWITCH
TB	TERMINAL BLOCK
TDR	TIME DELAY RELAY
TRAN	TRANSFORMER
UCB	UNIT CONTROL BOARD
W1	1st STAGE OF HEATING CALL
W2	2nd STAGE OF HEATING CALL
Y1	1st STAGE OF COOLING CALL
Y2	2nd STAGE OF COOLING CALL

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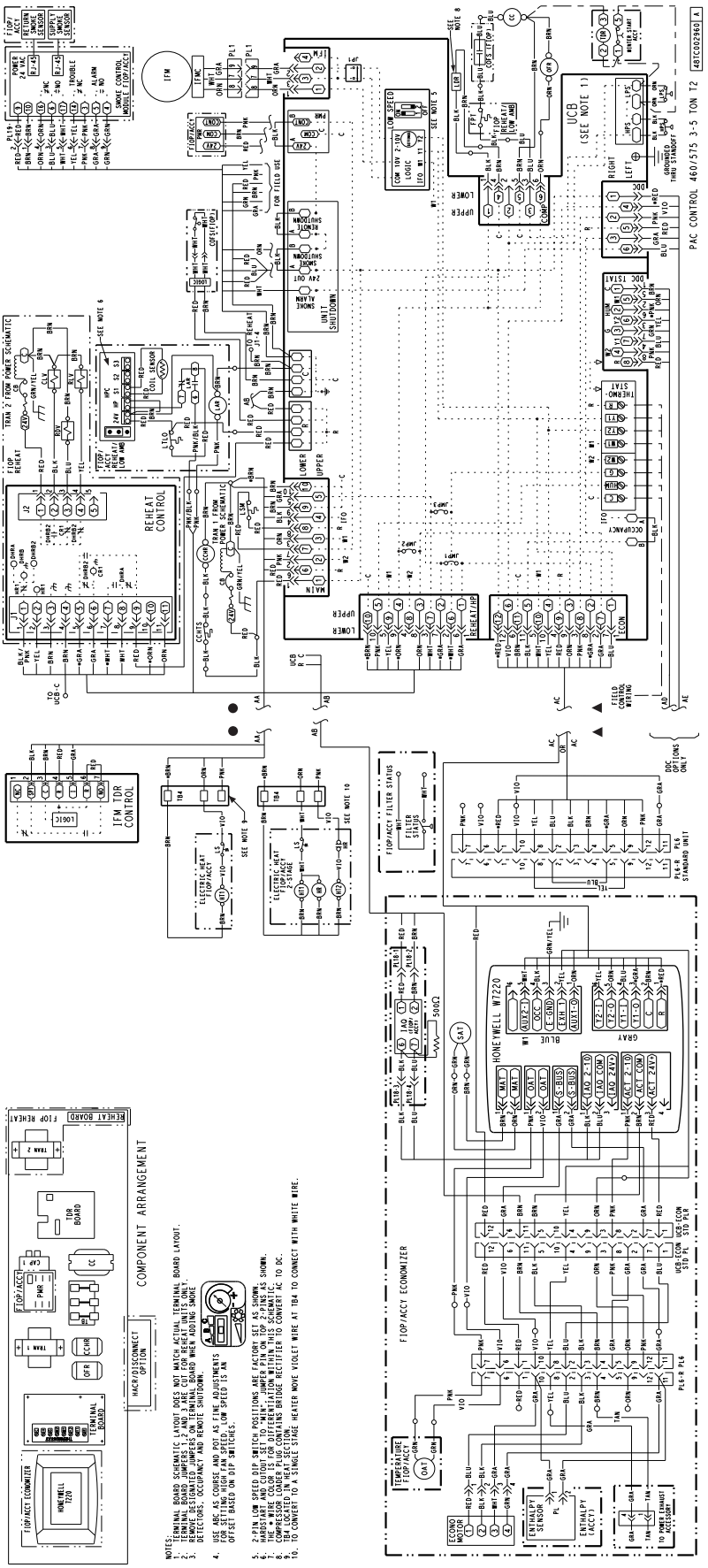
Typical wiring diagrams (cont)

TYPICAL CONTROL WIRING DIAGRAM — RAW036-060 208-230/3/60 UNIT WITH ELECTRO-MECHANICAL CONTROL AND W7220 ECONOMIZER



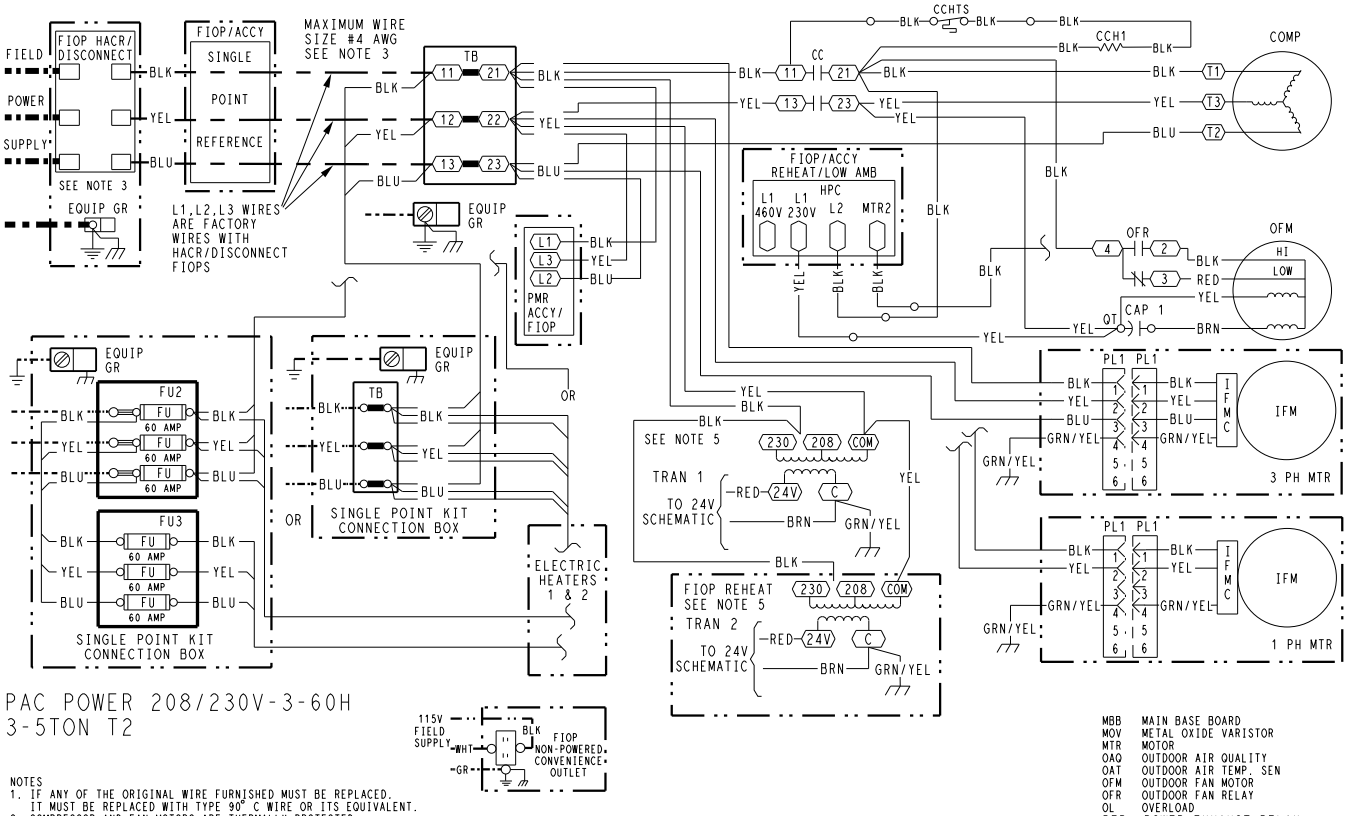
Typical wiring diagrams (cont)

TYPICAL CONTROL WIRING DIAGRAM — RAW036-060 460-575/3/60 UNIT WITH ELECTRO-MECHANICAL CONTROL AND W7220 ECONOMIZER



Typical wiring diagrams (cont)

TYPICAL RAW036-060 POWER WIRING DIAGRAM, 208-230/3/60 UNIT SHOWN



NOTES
1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90° C WIRE OR ITS EQUIVALENT.
2. COMPRESSOR AND FAN MOTORS ARE THERMALLY PROTECTED.
3. USE COPPER CONDUCTOR ONLY.
4. DO NOT DISCONNECT POWER PLUG OR SIGNAL WIRE WHILE UNDER LOAD.
5. ON 208/230V UNITS, TRAN IS WIRED FOR 230V. IF UNIT IS TO BE RUN WITH 208V POWER SUPPLY, DISCONNECT BLK WIRE FROM 230V TAP AND CONNECT TO 208V TAP.

LEGEND

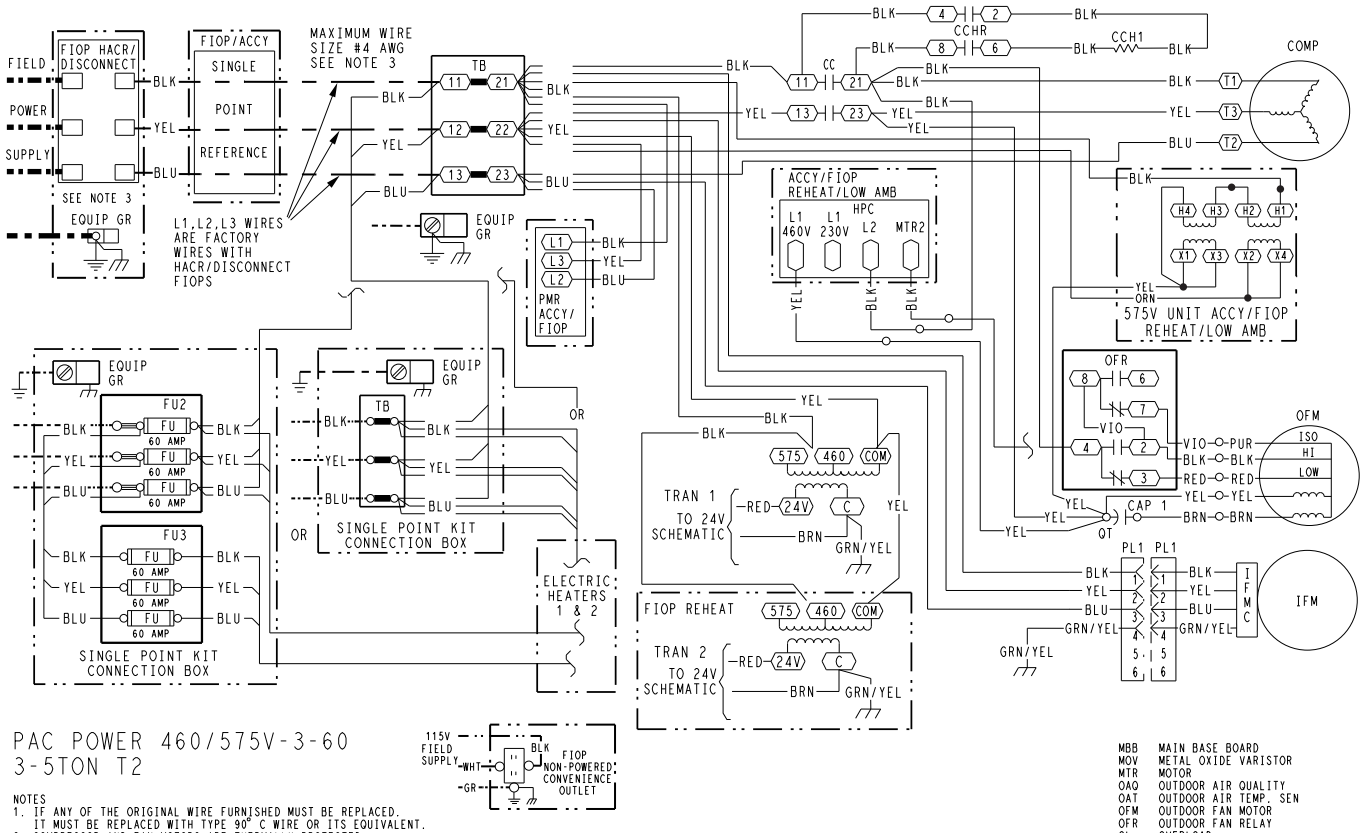
- MARKED WIRE
- TERMINAL (MARKED)
- TERMINAL (UNMARKED)
- TERMINAL BLOCK
- SPLICE
- SPLICE (MARKED)
- FACTORY WIRING
- FIELD CONTROL WIRING
- FIELD POWER WIRING
- CIRCUIT BOARD TRACE
- ACCESSORY OR OPTIONAL WIRING

ACCY	ACCESSORY
AWG	AMERICAN WIRE GAGE
BAS	BUILDING AUTOMATION NETWORK
CC	CONTACTOR,COMPRESSOR
C	COMMON
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CCH	CRANKCASE HEATER
CCHR	CRANKCASE HEATER RELAY
CCHTS	CRANKCASE HEATER TEMP SWITCH
CLO	COMPRESSOR LOCKOUT
CLV	COOLING LIQUID VALVE
COFS	CONDENSATE OVERFLOW SWITCH
COM	SIGNAL COMMON
COMP	COMPRESSOR MOTOR
DDC	DIRECT DIGITAL CONTROL
DFB	DEFROST BOARD
DFT	DEFROST THERMOSTAT
EHR	ELECTRIC HEAT RELAY
ENTH	ENTHALPY
ERV	ENERGY RECOVERY VENTILATOR
ESL	ENTHALPY SENSOR - LOW
FB	FUSE BLOCK
FIOP	FACTORY INSTALLED OPTION
FPT	FREEZE PROTECTION THERMOSTAT
FST	FAN HOUSING TEMP SENSOR
FU	FUSE
G	THERMOSTAT FAN CALL
GR(GND)	GROUND
HACR	HEATING, AIR-CONDITIONING, REFRIGERATION BREAKER
HR	HEATER RELAY
HGRH	HOT GAS REHEAT
HPC	HEAD PRESSURE CONTROL
HPS	HIGH PRESSURE SWITCH
HUM	HUMIDISTAT
IAQ	INDOOR AIR QUALITY SENSORS
IFM	INDOOR FAN MOTOR
IFMC	INDOOR FAN MOTOR CONTROL
IFO	INDOOR FAN ON SIGNAL
IRH	INDOOR RELATIVE HUMIDITY
JMP	JUMPER
L1	LINE 1
LA	LOW AMBIENT LOCKOUT
LAR	LOW AMBIENT RELAY
LAS	LOW AMBIENT SWITCH
LDR	COMPRESSOR LOADER
LEN	LOCAL EQUIPMENT NETWORK
LOC	LOSS OF CHARGE
LOOP PWR	CURRENT LOOP POWER
LPS	LOW PRESSURE SWITCH
LS	LIMIT SWITCH
LSM	LIMIT SWITCH (MANUAL RESET)
LTLO	LOW TEMP LOCKOUT
MBB	MAIN BASE BOARD
MOV	METAL OXIDE VARISTOR
MTR	MOTOR
OAQ	OUTDOOR AIR QUALITY
OAT	OUTDOOR AIR TEMP. SEN
OFM	OUTDOOR FAN MOTOR
OFR	OUTDOOR FAN RELAY
OL	OVERLOAD
PER	POWER EXHAUST RELAY
PH	PHASE
PL	PLUG ASSEMBLY
POT	POTENTIOMETER
PMR	PHASE MONITOR RELAY
PS	PRESSURE SWITCH
PWM	PULSE WIDTH MODULATION
QT	QUADRUPLE TERMINAL
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RLV	REHEAT LIQUID VALVE
RNET	LOCAL ACCESS NETWORK
RVS	REVERSING VALVE SOLENOID
SAT	SUPPLY AIR TEMP SENSOR
SDP	SYSTEM DISCHARGE PRESSURE
SPRH	SPACE RELATIVE HUMIDITY
SPT	SPACE TEMPERATURE SENSOR
SPTO	SPACE TEMPERATURE OFFSET
SSP	SYSTEM SUCTION PRESSURE
SW	SWITCH
TB	TERMINAL BLOCK
TDR	TIME DELAY RELAY
TRAN	TRANSFORMER
UCB	UNIT CONTROL BOARD
W1	1st STAGE OF HEATING CALL
W2	2nd STAGE OF HEATING CALL
Y1	1st STAGE OF COOLING CALL
Y2	2nd STAGE OF COOLING CALL

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Typical wiring diagrams (cont)

TYPICAL RAW036-060 POWER WIRING DIAGRAM, 460-575/3/60 UNIT SHOWN



PAC POWER 460/575V-3-60
3-5TON T2

NOTES
1. IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED. IT MUST BE REPLACED WITH TYPE 90° C WIRE OR ITS EQUIVALENT.
2. COMPRESSOR AND FAN MOTORS ARE THERMALLY PROTECTED.
3. USE COPPER CONDUCTOR ONLY.
4. DO NOT DISCONNECT POWER PLUG OR SIGNAL WIRE WHILE UNDER LOAD.
5. TRANSFORMER IS DEDICATED BASED ON UNIT VOLTAGE. TAPS ONLY SHOWN TO SIMPLIFY SCHEMATIC.

LEGEND

- (X) MARKED WIRE
- (X) TERMINAL (MARKED)
- ○ TERMINAL (UNMARKED)
- [X] TERMINAL BLOCK
- ● SPLICE
- ⬡● SPLICE (MARKED)
- ——— FACTORY WIRING
- — —— - FIELD CONTROL WIRING
- - - - FIELD POWER WIRING
- - - - - - - CIRCUIT BOARD TRACE
- —— . . —— ACCESSORY OR OPTIONAL WIRING

ACCY	ACCESSORY
AWG	AMERICAN WIRE GAGE
BAS	BUILDING AUTOMATION NETWORK
CC	CONTACTOR,COMPRESSOR
C	COMMON
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CCH	CRANKCASE HEATER
CCHR	CRANKCASE HEATER RELAY
CCHTS	CRANKCASE HEATER TEMP SWITCH
CLO	COMPRESSOR LOCKOUT
CLV	COOLING LIQUID VALVE
COFS	CONDENSATE OVERFLOW SWITCH
COM	SIGNAL COMMON
COMP	COMPRESSOR MOTOR
DDC	DIRECT DIGITAL CONTROL
DFB	DEFROST BOARD
DFT	DEFROST THERMOSTAT
EHR	ELECTRIC HEAT RELAY
ENTH	ENTHALPY
ERV	ENERGY RECOVERY VENTILATOR
ESL	ENTHALPY SENSOR - LOW
FB	FUSE BLOCK
FIOP	FACTORY INSTALLED OPTION
FPT	FREEZE PROTECTION THERMOSTAT
FST	FAN HOUSING TEMP SENSOR
FU	FUSE

G	THERMOSTAT FAN CALL
GR(GND)	GROUND
HACR	HEATING, AIR-CONDITIONING, REFRIGERATION BREAKER
HR	HEATER RELAY
HGRH	HOT GAS REHEAT
HPC	HEAD PRESSURE CONTROL
HPS	HIGH PRESSURE SWITCH
HUM	HUMIDISTAT
IAQ	INDOOR AIR QUALITY SENSORS
IFM	INDOOR FAN MOTOR
IFMC	INDOOR FAN MOTOR CONTROL
IFO	INDOOR FAN ON SIGNAL
IRH	INDOOR RELATIVE HUMIDITY
JMP	JUMPER
L1	LINE 1
LA	LOW AMBIENT LOCKOUT
LAR	LOW AMBIENT RELAY
LAS	LOW AMBIENT SWITCH
LDR	COMPRESSOR LOADER
LEN	LOCAL EQUIPMENT NETWORK
LOC	LOSS OF CHARGE
LOOP PWR	CURRENT LOOP POWER
LPS	LOW PRESSURE SWITCH
LS	LIMIT SWITCH
LSM	LIMIT SWITCH (MANUAL RESET)
LTLO	LOW TEMP LOCKOUT

MBB	MAIN BASE BOARD
MOV	METAL OXIDE VARISTOR
MTR	MOTOR
OAQ	OUTDOOR AIR QUALITY
OAT	OUTDOOR AIR TEMP. SEN
OFM	OUTDOOR FAN MOTOR
OFR	OUTDOOR FAN RELAY
OL	OVERLOAD
PER	POWER EXHAUST RELAY
PH	PHASE
PL	PLUG ASSEMBLY
POT	POTENTIOMETER
PMR	PHASE MONITOR RELAY
PS	PRESSURE SWITCH
PWM	PULSE WIDTH MODULATION
QT	QUADRUPLE TERMINAL
R	THERMOSTAT POWER
RAT	RETURN AIR TEMP. SEN
RDV	REHEAT DISCHARGE VALVE
RH	RELATIVE HUMIDITY
RLV	REHEAT LIQUID VALVE
RNET	LOCAL ACCESS NETWORK
RVS	REVERSING VALVE SOLENOID
SAT	SUPPLY AIR TEMP SENSOR
SDP	SYSTEM DISCHARGE PRESSURE
SPRH	SPACE RELATIVE HUMIDITY
SPT	SPACE TEMPERATURE SENSOR
SPTO	SPACE TEMPERATURE OFFSET
SSP	SYSTEM SUCTION PRESSURE
SW	SWITCH
TB	TERMINAL BLOCK
TDR	TIME DELAY RELAY
TRAN	TRANSFORMER
UCB	UNIT CONTROL BOARD
W1	1st STAGE OF HEATING CALL
W2	2nd STAGE OF HEATING CALL
Y1	1st STAGE OF COOLING CALL
Y2	2nd STAGE OF COOLING CALL

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Sequence of operation

General

The sequence below describes the sequence of operation for an electro-mechanical unit with and without a factory-installed EconoMi$er® IV (W7212 controller) and X (called "economizer" in this sequence) (W7220 controller). For information regarding a direct digital controller, see the start-up, operations, and troubleshooting manual for the applicable controller.

Electro-Mechanical Units with No Economizer

Cooling (two stage units)

When the thermostat calls for cooling, terminals G and Y1 are energized. The indoor fan will run at the low fan speed and the compressor contactor (CC) is energized causing the compressor and outdoor fan to turn on. The low indoor fan speed is 75% of the user set fan speed, the compressor will run at partial capacity, and the outdoor fan will run at low speed.

If additional cooling is needed, the thermostat will add the call for Y2. This will increase the indoor fan speed to the user set fan speed, energize the compressor loader for full compressor capacity, and energize the outdoor fan relay (OFR) for high speed.

When the thermostat removes the call for Y2 but leaves the Y1, the indoor fan will reduce speed to 75% of the user set fan speed, the compressor loader will turn off, and the outdoor fan will drop to low speed. When the thermostat removes the call for Y1 the compressor contactor will de-energize shutting down the compressor and the outdoor fan. When the thermostat removes the call for G, the indoor fan will turn off after the specific unit fan off delay.

Gas Heating (RGW units)

When the thermostat calls for heating, power is sent to W on the Integrated Gas Controller (IGC) board. An LED (light-emitting diode) on the IGC board turns on and remains on during normal operation. A check is made to ensure that the roll-out switch and limit switch are closed. If the check was successful, the induced-draft motor is energized, and when its speed is satisfactory, as proven by the flue gas pressure switch, the ignition activation period begins. The burners will ignite within 5 seconds. If the burners do not light, there is a 22 second delay before another 5 second attempt. This sequence is repeated for 15 minutes or until the burners light. If, after the 15 minutes, the burners still have not lit, heating is locked out. To reset the control, break 24v power to the thermostat.

When ignition occurs, the IGC board will continue to monitor the condition of the roll-out switch, the limit switches, the flue gas pressure switch, as well as the flame sensor. 45 seconds after ignition occurs, assuming the unit is controlled through a room thermostat set for fan auto, the indoor-fan motor will energize (and the outdoor-air dampers will open to their minimum position). If, for some reason, the over-temperature limit opens prior to the start of the indoor fan blower, the unit will shorten the 45 second delay to 5 seconds less than the time from initiation of heat to when the limit tripped. Gas will not be interrupted to the burners and heating will continue. Once the fan-on delay has been modified, it will not change back to 45 seconds until power is reset to the control. On units with 2 stages of heat, when additional heat is required, W2 closes and initiates power to the second stage of the main gas valve. When the thermostat is satisfied, W1 and W2 open and the gas valve closes, interrupting the flow of gas to the main burners. If the call for W1 lasted less than 1 minute, the heating cycle will not terminate until 1 minute after W1 became active. If the unit is controlled through a room thermostat set for fan auto, the indoor-fan motor will continue to operate for an additional 45 seconds then stop. If the over-temperature limit opens after the indoor motor is stopped, but within 10 minutes of W1 becoming inactive, on the next cycle the time will be extended by 15 seconds. The maximum delay is 3 minutes. Once modified, the fan off delay will not change back to 45 seconds unless power is reset to the control. A LED indicator is provided on the IGC to monitor operation.

Electric Heating (RAW units)

NOTE: RAW units are sold as cooling only. If electric heaters are required, use only factory-approved heaters. They will operate as follows.

Units have either 1 or 2 stages of electric heat. When the thermostat calls for heating, power is applied to G and the W1 terminals at the unit. The unit control will energize the indoor fan contactor and the first stage of electric heat. On units with two-stage heating, when additional heating is required, the second stage of electric heat (if equipped) will be energized when power is applied at the W2 terminal on the unit.

IMPORTANT: The thermostat must be configured for Electric Heat so it will energize G with the W1 call.

Electro-mechanical Units with Factory-Installed EconoMi$er

Cooling

When free cooling is not available, the compressors will be controlled by the zone thermostat. When free cooling is available, the outdoor-air damper is modulated by the EconoMi$er IV and X control to provide a 50°F (10°C) to 55°F (13°C) mixed-air temperature into the zone. As the mixed air temperature fluctuates above 55°F (13°C) or below 50°F (10°C) dampers will be modulated (open or close) to bring the mixed-air temperature back within control. If mechanical cooling is utilized with free cooling, the outdoor-air damper will maintain its current position at the time the compressor is started. If the increase in cooling capacity causes the mixed-air temperature to drop below 45°F (7°C), then the outdoor-air damper position will be decreased to the minimum position. If the mixed-air temperature continues to fall, the outdoor-air damper will close. Control returns to normal once the mixed-air temperature rises above 48°F (9°C). The power exhaust fans will be energized and de-energized, if installed, as the outdoor-air damper opens and closes.

If field-installed accessory CO_2 sensors are connected to the EconoMi$er IV and X control, a demand controlled ventilation strategy will begin to operate. As the CO_2 level in the zone increases above the CO_2 set-point, the minimum position of the damper will be increased

Sequence of operation (cont)

proportionally. As the CO_2 level decreases because of the increase in fresh air, the outdoor-air damper will be proportionally closed. For EconoMi$er IV and X operation, there must be a thermostat call for the fan (G). If the unit is occupied and the fan is on, the damper will operate at minimum position. Otherwise, the damper will be closed.

When the EconoMi$er IV and X control is in the occupied mode and a call for cooling exists (Y1 on the thermostat), the control will first check for indoor fan operation. If the fan is not on, then cooling will not be activated. If the fan is on, then the control will open the EconoMi$er IV and X damper to the minimum position.

On the initial power to the EconoMi$er IV and X control, it will take the damper up to $2^1/_2$ minutes before it begins to position itself. After the initial power-up, further changes in damper position can take up to 30 seconds to initiate. Damper movement from full closed to full open (or vice versa) will take between $1^1/_2$ and $2^1/_2$ minutes. If free cooling can be used as determined from the appropriate changeover command (switch, dry bulb, enthalpy curve, differential dry bulb, or differential enthalpy), then the control will modulate the dampers open to maintain the mixed-air temperature set-point at 50°F (10°C) to 55°F (13°C). If there is a further demand for cooling (cooling second stage — Y2 is energized), then the control will bring on compressor stage 1 to maintain the mixed-air temperature set-point. The EconoMi$er® IV and X damper will be open at maximum position.

2-Speed Note: When operating in ventilation mode only, the indoor fan motor will automatically adjust to 75% of the total cfm established.

Heating

The sequence of operation for the heating is the same as an electro-mechanical unit with no economizer. The only difference is how the economizer acts. The economizer will stay at the Economizer Minimum Position while the evaporator fan is operating. The outdoor-air damper is closed when the indoor fan is not operating. Refer to Service and Maintenance Manual for further details.

Optional Hot Gas Re-Heat dehumidification system

Units with the factory equipped Hot Gas Re-Heat system option are capable of providing multiple modes of improved dehumidification as a variation of the normal cooling cycle. The Hot Gas Re-Heat system option includes additional valves in the liquid line and discharge line of each refrigerant circuit, a small reheat condenser coil downstream of the evaporator, and variable-speed control of some or all outdoor fans. Operation of the revised refrigerant circuit for each mode is described below.

The Hot Gas Re-Heat system provides three sub-modes of operation: Cool, Reheat1, and Reheat2.

Cool mode — Provides a normal ratio of Sensible and Latent Cooling effect from the evaporator coil.

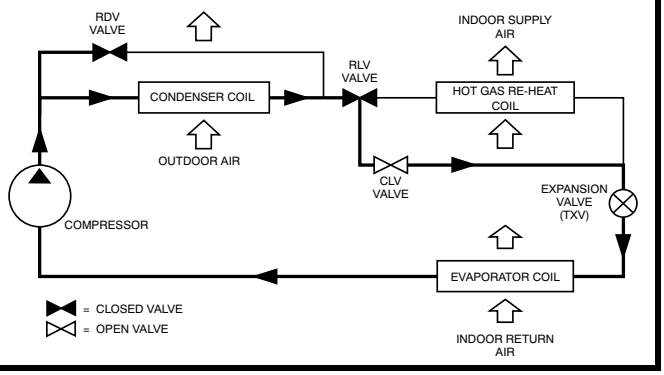
Reheat1 — Provides increased Latent Cooling while slightly reducing the Sensible Cooling effect.

Reheat2 — Provides normal Latent Cooling but with null or minimum Sensible Cooling effect delivered to the space.

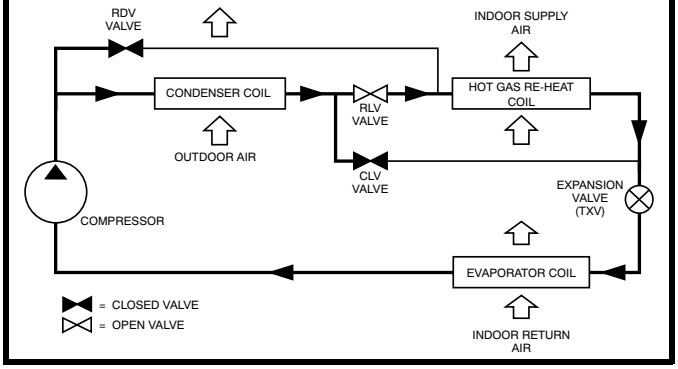
The Reheat1 and Reheat2 modes are available when the unit is not in a Heating mode and when the Low Ambient Lockout switch is closed.

The figures on this page depict piping for two stage cooling units.

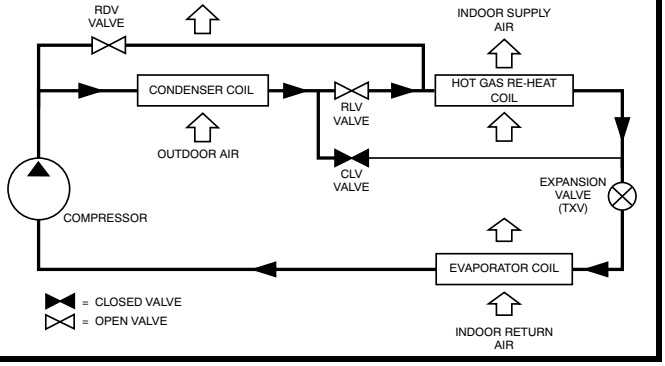
NORMAL COOLING MODE — HOT GAS RE-HEAT SYSTEM WITH 2 STAGE COOLING



SUBCOOLING MODE (REHEAT 1) — HOT GAS RE-HEAT SYSTEM WITH 2 STAGE COOLING



HOT GAS REHEAT MODE (REHEAT2) — HOT GAS RE-HEAT SYSTEM WITH 2 STAGE COOLING



Application data

Minimum operating ambient temperature (cooling)

In mechanical cooling mode, your ICP rooftop unit can safely operate down to an outdoor ambient temperature of 35°F (2°C). It is possible to provide cooling at lower outdoor ambient temperatures by using less outside air, economizers, and/or accessory low ambient kits.

Maximum operating ambient temperature (cooling)

The maximum operating ambient temperature for cooling mode is 125°F (52°C). While cooling operation above 125°F (52°C) may be possible, it could cause either a reduction in performance, reliability, or a protective action by the unit's internal safety devices.

Multiple motor and drive packages

Some applications need larger horsepower motors, some need more airflow, and some need both. Regardless of the case, your ICP expert has a factory installed combination to meet your application. A wide selection of motors and pulleys (drives) are available, factory installed, to handle nearly any application.

Stainless steel heat exchanger (RGW units only)

The stainless steel heat exchanger option provides the tubular heat exchanger be made out of a minimum 20 gage type 409 stainless steel for applications where the mixed air to the heat exchanger is expected to drop below 45°F (7°C). Stainless steel may be specified on applications where the presence of airborne contaminants require its use (applications such as paper mills) or in area with very high outdoor humidity that may result in severe in the heat exchanger during cooling operation.

Minimum mixed air temperature (heating) (RGW units only)

Using the factory settings, the minimum temperatures for the mixed air (the combined temperature of the warm return air and the cold outdoor air) entering the dimpled, gas heat exchangers are shown in the following table.

MINIMUM TEMPERATURE FOR MIXED AIR TEMPERATURE

ALUMINIZED	STAINLESS STEEL
50°F (10°C) Continuous	40°F (4°C) Continuous
45°F (7°C) Intermittent	35°F (2°C) Intermittent

Operating at lower mixed-air temperatures may be possible, if a field-supplied, outdoor air thermostat initiates both heat stages when the temperature is less than the minimum temperatures listed above. Please contact your local ICP representative for assistance.

Minimum and maximum airflow (heating and cooling)

To maintain safe and reliable operation of your rooftop, operate within the heating airflow limits during heating mode and cooling airflow limits during cooling mode. Operating above the max may cause blow-off, undesired airflow noise, or airflow related problems with the rooftop unit. Operating below the min may cause problems with coil freeze-up and unsafe heating operation. Heating and cooling limitations differ when evaluating operating CFM, the minimum value is the HIGHER of the cooling and heating minimum CFM values published on page 6 and the maximum value is the LOWER of the cooling and heating minimum values published on page 6.

Heating-to-cooling changeover

Your unit will automatically change from heating to cooling mode when using a thermostat with an auto-changeover feature.

Airflow

All units are draw-though in cooling mode and blow-through in heating mode.

Outdoor air application strategies

Economizers reduce operating expenses and compressor run time by providing a free source of cooling and a means of ventilation to match application changing needs. In fact, they should be considered for most applications. Also, consider the various economizer control methods and their benefits, as well as sensors required to accomplish your application goals. Please contact your local ICP representative for assistance.

Motor limits, break horsepower (BHP)

Due to internal design of ICP units, the air path, and specially designed motors, the full horsepower (maximum continuous BHP) band, as listed in the Fan Performance tables, can be used with the utmost confidence. There is no need for extra safety factors, as ICP motors are designed and rigorously tested to use the entire, listed BHP range without either nuisance tripping or premature motor failure.

Propane heating (RGW units only)

Propane has different physical qualities than natural gas. As a result, propane requires different fuel to air mixture. To optimize the fuel/air mixture for propane, ICP sells different burner orifices in an easy to install accessory kit. To select the correct burner orifices or determine the heat capacity for a propane application, use either the selection software, or the unit's service manual.

High altitude heating

High altitudes have less oxygen, which affects the fuel/air mixture in heat exchangers. In order to maintain a proper fuel/air mixture, heat exchangers operating in altitudes above 2000 ft (610 m) require different orifices. To select the correct burner orifices or determine the heat capacity for a high altitude application, use either the selection software, or the unit's service manual.

High altitudes have less oxygen, which means heat exchangers need less fuel. The new gas orifices in this field-installed kit make the necessary adjustment for high altitude applications. They restore the optimal fuel to air mixture and maintain healthy combustion on altitudes above 2000 ft (610 m).

NOTE: Typical natural gas heating value ranges from 975 to 1050 Btu/ft^3 at sea level nationally. The heating value goes down approximately 1.7% per every thousand feet elevation. Standard factory orifices can typically be used up to 2000 ft (610 m) elevation without any operational issues.

Application data (cont)

Sizing a rooftop

Bigger is not necessarily better. While an air conditioner needs to have enough capacity to meet the design loads, it does not need excess capacity. In fact, excess capacity typically results in very poor part load performance and humidity control.

Using higher design temperatures than ASHRAE recommends for your location, adding “safety factors” to the calculated load, are all signs of oversizing air conditioners. Oversizing the air conditioner leads to poor humidity control, reduced efficiency, higher utility bills, larger indoor temperature swings, excessive noise, and increased wear and tear on the air conditioner.

Rather than oversizing an air conditioner, engineers should “right-size” or even slightly “under-size” air conditioners. Correctly sizing an air conditioner controls humidity better; promotes efficiency; reduces utility bills; extends equipment life, and maintains even, comfortable temperatures. Please contact your local ICP representative for assistance.

Low ambient applications

The optional ICP economizer can adequately cool your space by bringing in fresh, cool outside air. In fact, when so equipped, accessory low-ambient kit may not be necessary. In low ambient conditions, unless the outdoor air is excessively humid or contaminated, economizer-based “free cooling” is the preferred less costly and energy conscious method. In low ambient applications where outside air might not be desired (such as contaminated or excessively humid outdoor environments), your ICP rooftop can operate to ambient temperatures down to –20°F (–29°C) using the recommended accessory low ambient controller.

Two stage cooling operation

Use appropriate two stage thermostat to achieve the unit’s optimum design comfort and overall operating performance.

IMPORTANT: Before using EconoMi$er® IV, 2-Position Damper or Manual Damper on RGV/RAV072 units, refer to Application Tip AB-0002 for guidance.

Guide specifications – RGW

Note about this specification:

This specification is in the "Masterformat" as published by the Construction Specification Institute. Please feel free to copy this specification directly into your building spec.

High Efficiency Gas Heat/Electric Cooling Packaged Rooftop

HVAC Guide Specifications

Size Range: **3 to 5 Nominal Tons**

ICP Model Number: **RGW036-060**

Part 1 — (23 06 80) Schedules for Decentralized HVAC Equipment

1.01 (23 06 80.13) Decentralized Unitary HVAC Equipment Schedule:

A. 23 06 80.13.A.) Rooftop unit (RTU) schedule:

1. Schedule is per the project specification requirements.

Part 2 — (23 07 16) HVAC Equipment Insulation

2.01 (23 07 16.13) Decentralized, Rooftop Units:

A. (23 07 16.13.A.) Evaporator fan compartment:

1. Interior cabinet surfaces shall be insulated with a minimum $^1/_2$-in. thick, minimum $1^1/_2$-lb density, flexible fiberglass insulation bonded with a phenolic binder, neoprene coated on the air side.
2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

B. (23 07 16.13.B.) Gas Heat Compartment:

1. Aluminum foil-faced fiberglass insulation shall be used.
2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

Part 3 — (23 09 13) Instrumentation and Control Devices for HVAC

3.01 (23 09 13.23) Sensors and Transmitters:

A. (23 09 13.23.A.) Thermostats:

1. Thermostat must
   a. energize both "W" and "G" when calling for heat.
   b. have capability to energize 2 stages of cooling, and 2 different stages of heating.
   c. include capability for occupancy scheduling.

Part 4 — (23 09 33) Electric and Electronic Control System for HVAC

4.01 (23 09 33.13) Decentralized, Rooftop Units:

A. (23 09 33.13.A.) General:

1. Shall be complete with self-contained low-voltage control circuit protected by a resettable circuit breaker on the 24-v transformer side. Transformer shall have 75VA capability.
2. Shall utilize color-coded wiring.
3. Shall include a Unit Control Board to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, gas controller, economizer, thermostat, and low and high pressure switches. Controller shall also provide an intuitive means to adjust the indoor fan speed through a simple switch and pot adjustment design.
4. The heat exchanger shall be controlled by an integrated gas controller (IGC) microprocessor. See heat exchanger section of this specification.
5. Unit shall include a minimum of one 8-pin screw terminal connection board for connection of control wiring.

B. (23 09 33.13.B.) Safeties:

1. Compressor over-temperature, over-current. High internal pressure differential.
2. Low pressure switch.
   a. Low pressure switch shall use different color wire than the high pressure switch. The purpose is to assist the installer and service technician to correctly wire and or troubleshoot the rooftop unit.
3. High pressure switch.
   a. High pressure switch shall use different color wire than the low pressure switch. The purpose is to assist the installer and service technician to correctly wire and or troubleshoot the rooftop unit.
4. Automatic reset, motor thermal overload protector.
5. Heating section shall be provided with the following minimum protections:
   a. High temperature limit switches.
   b. Induced draft motor speed sensor.
   c. Flame rollout switch.
   d. Flame proving controls.

Part 5 — (23 09 93) Sequence of Operations for HVAC Controls

5.01 (23 09 93.13) Decentralized, Rooftop Units:

A. (23 09 93.13.A.) INSERT SEQUENCE OF OPERATION

Part 6 — (23 40 13) Panel Air Filters

6.01 (23 40 13.13) Decentralized, Rooftop Units:

A. (23 40 13.13.A.) Standard filter section

1. Shall consist of factory installed, low velocity, disposable 2-in. thick fiberglass filters of commercially available sizes.
2. Unit shall use only one filter size. Multiple sizes are not acceptable.
3. Filters shall be accessible through an access panel with "no-tool" removal as described in

the unit cabinet section of this specification (23 81 19.13.G).

Part 7 — (23 81 19) Self-Contained Air Conditioners

7.01 (23 81 19.13) Small-Capacity Self-Contained Air Conditioners:

A. (23 81 19.13.A.) General:

1. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing a fully hermetic scroll compressor(s) for cooling duty and gas combustion for heating duty.
2. Factory assembled, single-piece heating and cooling rooftop unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, and special features required prior to field start-up.
3. Unit shall use R-410A refrigerant.
4. Unit shall be installed in accordance with the manufacturer's instructions.
5. Unit must be selected and installed in compliance with local, state, and federal codes.

B. (23 81 19.13.B.) Quality Assurance:

1. Unit meets and exceeds ASHRAE 90.1 minimum efficiency requirements.
2. Unit shall be rated in accordance with AHRI Standards 210/240.
3. Unit shall be designed to conform to ASHRAE 15.
4. Unit shall be UL-tested and certified in accordance with ANSI Z21.47 Standards and UL-listed and certified under Canadian standards as a total package for safety requirements.
5. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
6. Unit casing shall be capable of withstanding 500 hour salt spray exposure per ASTM B117 (scribed specimen).
7. Unit shall be designed in accordance with ISO 9001, and shall be manufactured in a facility registered by ISO 9001:2015.
8. Roof curb shall be designed to conform to NRCA Standards.
9. Unit shall be subjected to a completely automated run test on the assembly line. The data for each unit will be stored at the factory, and must be available upon request.
10. Unit shall be designed in accordance with UL Standard 1995, including tested to withstand rain.
11. Unit shall be constructed to prevent intrusion of snow and tested to prevent snow intrusion into the control box up to 40 mph.
12. Unit shake tested to assurance level 1, ASTM D4169 to ensure shipping reliability.

C. (23 81 19.13.C.) Delivery, Storage, and Handling:

1. Unit shall be stored and handled per manufacturer's recommendations.
2. Lifted by crane requires either shipping top panel or spreader bars.
3. Unit shall only be stored or positioned in the upright position.

D. (23 81 19.13.D.) Project Conditions:

1. As specified in the contract.

E. (23 81 19.13.E.) Operating Characteristics:

1. Unit shall be capable of starting and running at 125°F (52°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 210/240 at ±10% voltage.
2. Compressor with standard controls shall be capable of operation down to 35°F (2°C), ambient outdoor temperatures. Accessory winter start kit is necessary if mechanically cooling at ambient temperatures down to 25°F (–4°C).
3. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
4. Unit shall be factory configured for vertical supply and return configurations.
5. Unit shall be field convertible from vertical to horizontal airflow on all models. No special kit required.
6. Unit shall be capable of mixed operation: vertical supply with horizontal return or horizontal supply with vertical return.

F. (23 81 19.13.F.) Electrical Requirements:

1. Main power supply voltage, phase, and frequency must match those required by the manufacturer.

G. (23 81 19.13.G.) Unit Cabinet:

1. Unit cabinet shall be constructed of galvanized steel, and shall be bonderized and coated with a pre-painted baked enamel finish on all externally exposed surfaces.
2. Unit cabinet exterior paint shall be: film thickness, (dry) 0.003-in. minimum, gloss (per ASTM D523, 60°F/16°C): 60, Hardness: H-2H Pencil hardness.
3. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 210/240 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum $^1/_2$-in. thick, 1 lb density, flexible fiberglass insulation, neoprene coated on the air side. Aluminum foil-faced fiberglass insulation shall be used in the gas heat compartment.
4. Base of unit shall have a minimum of four locations for thru-the-base gas and electrical connections (factory-installed or field-installed), standard.

Guide specifications – RGW (cont)

5. Base Rail:
   a. Unit shall have base rails on a minimum of 2 sides.
   b. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
   c. Holes shall be provided in the base rail for moving the rooftop by fork truck.
   d. Base rail shall be a minimum of 16 gage thickness.
6. Condensate pan and connections:
   a. Shall be a sloped condensate drain pan made of a corrosion resistant material.
   b. Shall comply with ASHRAE Standard 62.
   c. Shall use a $^{3}/_{4}$-in. 14 NPT drain connection, possible either through the bottom or side of the drain pan. Connection shall be made per manufacturer's recommendations.
7. Top panel:
   a. Shall be a single piece top panel on all sizes.
8. Gas Connections:
   a. All gas piping connecting to unit gas valve shall enter the unit cabinet at a single location on side of unit (horizontal plane).
   b. Thru-the-base capability:
      1) Standard unit shall have a thru-the-base gas-line location using a raised, embossed portion of the unit basepan.
      2) Optional, factory approved, water-tight connection method must be used for thru-the-base gas connections.
      3) No basepan penetration, other than those authorized by the manufacturer, is permitted.
9. Electrical Connections:
   a. All unit power wiring shall enter unit cabinet at a single, factory prepared, knockout location.
   b. Thru-the-base capability.
      1) Standard unit shall have a thru-the-base electrical location(s) using a raised, embossed portion of the unit basepan.
      2) Optional, factory approved, water-tight connection method must be used for thru-the-base electrical connections.
      3) No basepan penetration, other than those authorized by the manufacturer, is permitted.
10. Component access panels (standard):
    a. Cabinet panels shall be easily removable for servicing.
    b. Unit shall have one factory installed, tool-less, removable, filter access panel.
    c. Panels covering control box, indoor fan, indoor fan motor, gas components (where applicable), and compressors shall have molded composite handles.
    d. Handles shall be UV modified, composite. They shall be permanently attached, and recessed into the panel.
    e. Screws on the vertical portion of all removable access panel shall engage into heat resistant, molded composite collars.
    f. Collars shall be removable and easily replaceable using manufacturer recommended parts.

H. (23 81 19.13.H.) Gas Heat:
   1. General:
      a. Heat exchanger shall be an induced draft design. Positive pressure heat exchanger designs shall not be allowed.
      b. Shall incorporate a direct-spark ignition system and redundant main gas valve.
      c. Gas supply pressure at the inlet to the rooftop unit gas valve must match that required by the manufacturer.
   2. The heat exchanger shall be controlled by an integrated gas controller (IGC) microprocessor.
      a. IGC board shall notify users of fault using an LED (light-emitting diode).
      b. The LED shall be visible without removing the control box access panel.
      c. IGC board shall contain algorithms that modify evaporator fan operation to prevent future cycling on high temperature limit switch.
      d. Unit shall be equipped with anti-cycle protection with one short cycle on unit flame rollout switch or 4 continuous short cycles on the high temperature limit switch. Fault indication shall be made using an LED.
   3. Standard Heat Exchanger construction
      a. Heat exchanger shall be of the tubular-section type constructed of a minimum of 20-gage steel coated with a nominal 1.2 mil aluminum-silicone alloy for corrosion resistance.
      b. Burners shall be of the in-shot type constructed of aluminum-coated steel.
      c. Burners shall incorporate orifices for rated heat output up to 2000 ft (610 m) elevation. Additional accessory kits may be required for applications above 2000 ft (610 m) elevation, depending on local gas supply conditions.
      d. Each heat exchanger tube shall contain multiple dimples for increased heating effectiveness.

4. Optional Stainless Steel Heat Exchanger construction:
   a. Use energy saving, direct-spark ignition system.
   b. Use a redundant main gas valve.
   c. Burners shall be of the in-shot type constructed of aluminum-coated steel.
   d. All gas piping shall enter the unit cabinet at a single location on side of unit (horizontal plane).
   e. The optional stainless steel heat exchanger shall be of the tubular-section type, constructed of a minimum of 20-gage type 409 stainless steel.
   f. Type 409 stainless steel shall be used in heat exchanger tubes and vestibule plate.
   g. Complete stainless steel heat exchanger allows for greater application flexibility.
5. Optional Low NOx Heat Exchanger construction:
   a. Low NOx reduction shall be provided to reduce nitrous oxide emissions to meet California's Air Quality Management District (SCAQMD) low-NOx emissions requirement of 40 nanograms per joule or less.
   b. Primary tubes and vestibule plates on low NOx units shall be 409 stainless steel. Other components shall be aluminized steel.
6. Induced draft combustion motor and blower:
   a. Shall be a direct-drive, single inlet, forward-curved centrifugal type.
   b. Shall be made from steel with a corrosion resistant finish.
   c. Shall have permanently lubricated sealed bearings.
   d. Shall have inherent thermal overload protection.
   e. Shall have an automatic reset feature.

I. (23 81 19.13.I.) Coils:
1. Standard Aluminum Fin-Copper Tube Coils:
   a. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
   b. Evaporator coils shall be leak tested to 150 psig, pressure tested to 450 psig, and qualified to UL 1995 burst test at 1775 psig.
   c. Condenser coils shall be leak tested to 150 psig, pressure tested to 650 psig, and qualified to UL 1995 burst test at 1980 psig.
2. Optional Pre-coated aluminum-fin condenser coils (3 Phase Models Only):
   a. Shall have a durable epoxy-phenolic coating to provide protection in mildly corrosive coastal environments.
   b. Coating shall be applied to the aluminum fin stock prior to the fin stamping process to create an inert barrier between the aluminum fin and copper tube.
   c. Epoxy-phenolic barrier shall minimize galvanic action between dissimilar metals.
   d. Corrosion durability of fin stock shall be confirmed through testing to be no less than 1000 hours salt spray per ASTM B117-90.
   e. Corrosion durability of fin stock shall be confirmed through testing to have no visible corrosion after 48 hour immersion in a room temperature solution of 5% salt, 1% acetic acid.
   f. Fin stock coating shall pass 2000 hours of the following: one week exposure in the prohesion chamber followed by one week of accelerated ultraviolet light testing. Prohesion chamber: the solution shall contain 3.5% sodium chloride and 0.35% ammonium sulfate. The exposure cycle is one hour of salt fog application at ambient followed by one hour drying at 95°F (35°C).
3. Optional Copper-fin evaporator and condenser coils (3 Phase Models Only):
   a. Shall be constructed of copper fins mechanically bonded to copper tubes and copper tube sheets.
   b. Galvanized steel tube sheets shall not be acceptable.
   c. A polymer strip shall prevent coil assembly from contacting the sheet metal coil pan to minimize potential for galvanic corrosion between coil and pan.
4. Optional E-coated aluminum-fin evaporator and condenser coils (3 Phase Models Only):
   a. Shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins.
   b. Coating process shall ensure complete coil encapsulation of tubes, fins and headers.
   c. Color shall be high gloss black with gloss per ASTM D523-89.
   d. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges.
   e. Superior hardness characteristics of 2H per ASTM D3363-92A and cross-hatch adhesion of 4B-5B per ASTM D3359-93.
   f. Impact resistance shall be up to 160 in.-lb (ASTM D2794-93).
   g. Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92).

Guide specifications – RGW (cont)

h. Corrosion durability shall be confirmed through testing to be no less than 1000 hours salt spray per ASTM B117-90.

J. (23 81 19.13.J.) Refrigerant Components:
   1. Refrigerant circuit shall include the following control, safety, and maintenance features:
      a. TXV metering system on all models shall include a multiple feed distribution system that optimizes coil performance.
      b. Refrigerant filter drier - Solid core design.
      c. Service gage connections on suction and discharge lines.
      d. Pressure gage access through a specially designed access port in the top panel of the unit.
   2. There shall be gage line access port in the skin of the rooftop, covered by a black, removable plug.
      a. The plug shall be easy to remove and replace.
      b. When the plug is removed, the gage access port shall enable maintenance personnel to route their pressure gage lines.
      c. This gage access port shall facilitate correct and accurate condenser pressure readings by enabling the reading with the compressor access panel on.
      d. The plug shall be made of a leak proof, UV-resistant, composite material.
   3. Compressors:
      a. Unit shall use fully hermetic, two stage scroll compressor on a single refrigeration circuit.
      b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
      c. Compressors shall be internally protected from high discharge temperature conditions.
      d. Compressors shall be protected from an over-temperature and over-amperage conditions by an internal, motor overload device.
      e. Compressor shall be factory mounted on rubber grommets.
      f. Compressor motors shall have internal line break thermal, current overload and high pressure differential protection.
      g. Crankcase heaters shall not be required for normal operating range, unless required by compressor manufacturer due to refrigerant charge limits.

K. (23 81 19.13.K.) Filter Section:
   1. Filters access is specified in the unit cabinet section of this specification.
   2. Filters shall be held in place by a pivoting filter tray, facilitating easy removal and installation.
   3. Shall consist of factory installed, low velocity, throw-away 2-in. thick fiberglass filters.
   4. Filters shall be standard, commercially available sizes.
   5. Only one size filter per unit is allowed.

L. (23 81 19.13.L.) Evaporator Fan and Motor with X-Vane™ Fan Technology:
   1. Direct Drive Evaporator fan motor:
      a. Shall be a ECM motor design.
      b. Shall have permanently lubricated bearings.
      c. Shall have inherent automatic-reset thermal overload protection.
      d. Shall have slow ramp up to speed capabilities.
      e. Shall require no fan/motor belts for operation, adjustments and or initial fan speed set up.
      f. Fan DC voltage set up on Unit Control Board can eliminate the need of removal of blower access door, required on conventional belt drive systems.
      g. Shall be internally protected from electrical phase reversal and loss.
   2. Evaporator Fan:
      a. Shall be easily set with selection switch and adjustment pot on unit control board.
      b. On all sizes 036-060 which have two stage cooling capacity control, the indoor fan speed is automatically controlled to meet the AHRI performance requirement with 75% low fan speed and 100% at full fan speed operation
      c. Blower fan shall be a Vane Axial fan design with 75% less moving parts than a conventional belt drive system.
      d. Shall be constructed of a cast aluminum stator and high impact composite material on rotor and air inlet casing.
      e. Shall be a patented / pending design with a corrosion resistant material and dynamically balanced.
      f. Shall have slow ramp up to speed capabilities to help reduce sound and comfort issues typically associated with single speed belt drive systems.
      g. Shall be a slide out design with two screw removal.
   3. Shall include an easily accessible unit Control Board to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, gas controller, economizer, thermostat, and low and high pressure switches. Controller shall also provide an intuitive means to adjust the indoor

fan speed through a simple switch and pot adjustment design.

M. (23 81 19.13.M.) Condenser Fans and Motors:
   1. Condenser fan motors:
      a. Shall be a totally enclosed motor.
      b. Shall use permanently lubricated bearings.
      c. Shall have inherent thermal overload protection with an automatic reset feature.
      d. Shall use a shaft-down design on all sizes.
   2. Condenser Fans:
      a. Shall be a direct-driven propeller type fan constructed of high impact composite material.
      b. Shall have high impact composite blades completely formed into one piece without blade fasteners or connectors and shall be dynamically balanced.

N. (23 81 19.13.N.) Special Features Options and Accessories:
   1. Integrated EconoMi$er® IV and EconoMi$er X low leak rate models. (EconoMi$er X is factory-installed on 3 phase models only. All are field-installed on all 3 and 1 phase models):
      a. Integrated, gear driven opposing modulating blade design type capable of simultaneous economizer and compressor operation.
      b. Independent modules for vertical or horizontal return configuration shall be available. Vertical return modules shall be available as a factory installed option.
      c. Damper blades shall be galvanized steel with composite gears. Plastic or composite blades on intake or return shall not be acceptable.
      d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
      e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
      f. Standard leak rate shall be equipped with dampers not to exceed 2% leakage at 1 in. wg pressure differential.
      g. Economizer controller on EconoMi$er IV field-installed only) models shall be Honeywell W7212 that provides:
         1) Combined minimum and DCV maximum damper position potentiometers with compressor staging relay.
         2) Functions with solid-state analog enthalpy or dry bulb changeover control sensing.
         3) LED indicator for: when free cooling is available, when module is in DCV mode, when exhaust fan contact is closed.
      h. Economizer controller on EconoMi$er X models shall be the Honeywell W7220 that provides:
         1) 2-line LCD interface screen for setup, configuration and troubleshooting.
         2) On-board Fault Detection and Diagnostics (FDD) that senses and alerts when the economizer is not operating properly, per California Title 24, ASHRAE 90.1 and IECC.
         3) Sensor failure loss of communication identification.
         4) Automatic sensor detection.
         5) Capabilities for use with multiple-speed or single speed indoor fan systems.
         6) Utilize digital sensors: Dry bulb and Enthalpy.
      i. Shall be capable of introducing up to 100% outdoor air.
      j. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air and contain seals that meet ASHRAE 90.1 requirements.
      k. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
      l. Dry bulb outdoor air temperature sensor shall be provided as standard. Enthalpy sensor is also available on factory-installed economizers only. Outdoor air sensor setpoint shall be adjustable and shall range from 40°F to 100°F (4°C to 38°C). Additional sensor options shall be available as accessories.
      m. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 100%, with a range of 0% to 100%.
      n. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy.
      o. Dampers shall be completely closed when the unit is in the unoccupied mode.
      p. Economizer controller shall accept a 2 to 10 vdc CO_2 sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor air damper to provide ventilation based on the sensor input.
      q. Compressor lockout temperature on W7220 control is adjustable from –45°F to 80°F (–43°C to 27°C), set at a factory default of 32°F (0°C). W7212 control opens at 35°F (2°C) and closes at 50°F (10°C).

Guide specifications – RGW (cont)

r. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.

s. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.

2. Integrated EconoMi$er® X Ultra Low Leak rate models. (Factory-installed on 3 phase models only. Field installed on all 3 and 1 phase models):

a. Integrated, gear driven opposing modulating blade design type capable of simultaneous economizer and compressor operation.

b. Independent modules for vertical or horizontal return configuration shall be available. Vertical return modules shall be available as a factory installed option.

c. Damper blades shall be galvanized steel with composite gears. Plastic or composite blades on intake or return shall not be acceptable.

d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.

e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.

f. Ultra Low Leak design meets California Title 24 section 140.4 and ASHRAE 90.1 requirements for 4 cfm per sq. ft on the outside air dampers and 10 cfm per sq. ft on the return dampers.

g. Economizer controller on EconoMi$er X models shall be the Honeywell W7220 that provides:

1) 2-line LCD interface screen for setup, configuration and troubleshooting.
2) On-board Fault Detection and Diagnostics (FDD) that senses and alerts when the economizer is not operating properly, per California Title 24, ASHRAE 90.1 and IECC[1].
3) Sensor failure loss of communication identification.
4) Automatic sensor detection.
5) Capabilities for use with multiple-speed indoor fan systems.
6) Utilize digital sensors: Dry bulb and Enthalpy.

h. Shall be capable of introducing up to 100% outdoor air.

i. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air and contain seals that meet ASHRAE 90.1 requirements.

j. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.

k. Dry bulb outdoor air temperature sensor shall be provided as standard. Enthalpy sensor is also available on factory-installed economizers only. Outdoor air sensor setpoint shall be adjustable and shall range from 40°F to 100° F (4°C to 38°C). Additional sensor options shall be available as accessories.

l. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 100%, with a range of 0% to 100%.

m. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy.

n. Dampers shall be completely closed when the unit is in the unoccupied mode.

o. Economizer controller shall accept a 2 to 10 vdc CO_2 sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor air damper to provide ventilation based on the sensor input.

p. Compressor lockout temperature on W7220 control is adjustable from –45°F to 80°F (–43°C to 27°C), set at a factory default of 32°F (0°C). W7212 control opens at 35°F (2°C) and closes at 50°F (10°C).

q. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.

r. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.

3. Two-Position Damper (field-installed only):

a. Damper shall be a Two-Position Damper. Damper travel shall be from the full closed position to the field adjustable %-open setpoint.

b. Damper shall include adjustable damper travel from 25% to 100% (full open).

c. Damper shall include single or dual blade, gear driven dampers and actuator motor.

d. Actuator shall be direct coupled to damper gear. No linkage arms or control rods shall be acceptable.

e. Damper will admit up to 100% outdoor air for applicable rooftop units.

f. Damper shall close upon indoor (evaporator) fan shutoff and/or loss of power.

g. The damper actuator shall plug into the rooftop unit's wiring harness plug. No hard wiring shall be required.

1IECC is a registered trademark of the International Code Council, Inc.

Guide specifications – RGW (cont)

h. Outside air hood shall include aluminum water entrainment filter.

4. Manual damper (field-installed only):
   a. Manual damper package shall consist of damper, air inlet screen, and rain hood which can be preset to admit up to 25% or 50% outdoor air for year round ventilation.
5. Hot Gas Re-Heat Dehumidification System (3 Phase Models Only):
   a. The Hot Gas Re-Heat Dehumidification System shall be factory installed and shall provide greater dehumidification of the occupied space by two modes of dehumidification operations in addition to its normal design cooling mode:
      1) Subcooling mode further sub cools the hot liquid refrigerant leaving the condenser coil when both temperature and humidity in the space are not satisfied.
      2) Hot gas reheat mode shall mix a portion of the hot gas from the discharge of the compressor with the hot liquid refrigerant leaving the condenser coil to create a two-phase heat transfer in the system, resulting in a neutral leaving air temperature when only humidity in the space is not satisfied.
      3) Includes low ambient controller.
6. Low Ambient Control Package:
   a. Controller shall control coil head pressure by condenser fan speed modulation or condenser fan cycling and wind baffles.
   b. Shall consist of solid-state control and condenser coil temperature sensor to maintain condensing temperature between 90°F (32°C) and 110°F (43°C) at outdoor ambient temperatures down to –20°F (–29°C).
7. Propane Conversion Kit:
   a. Package shall contain all the necessary hardware and instructions to convert a standard natural gas unit for use with liquefied propane, up to 2000 ft (610 m) elevation.
   b. Additional accessory kits may be required for applications above 2000 ft (610 m) elevation.
8. Flue Shield:
   a. Flue shield shall provide protection from the hot sides of the gas flue hood.
9. Condenser Coil Hail Guard Assembly (Factory-installed on 3 Phase Models Only. Field-installed on all 3 and 1 Phase Models):
   a. Shall protect against damage from hail.
   b. Shall be either hood style or louvered.
10. Unit-Mounted, Non-Fused Disconnect Switch (Available on units with MOCPs of 80 amps or less):
    a. Switch shall be factory installed, internally mounted.
    b. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff.
    c. Shall be accessible from outside the unit.
    d. Shall provide local shutdown and lockout capability.
    e. Sized only for the unit as ordered from the factory. Does not accommodate field-installed devices.
11. Convenience Outlet:
    a. Powered convenience outlet (3 Phase Models Only):
       1) Outlet shall be powered from main line power to the rooftop unit.
       2) Outlet shall be powered from line side or load side of disconnect by installing contractor, as required by code. If outlet is powered from load side of disconnect, unit electrical ratings shall be UL certified and rated for additional outlet amperage.
       3) Outlet shall be factory-installed and internally mounted with easily accessible 115-v female receptacle.
       4) Outlet shall include 15 amp GFI receptacles with independent fuse protection.
       5) Voltage required to operate convenience outlet shall be provided by a factory installed step-down transformer.
       6) Outlet shall be accessible from outside the unit.
       7) Outlet shall include a field installed “Wet in Use” cover.
    b. Factory-installed non-powered convenience outlet:
       1) Outlet shall be powered from a separate 115/120v power source.
       2) A transformer shall not be included.
       3) Outlet shall be factory-installed and internally mounted with easily accessible 115-v female receptacle.
       4) Outlet shall include 15 amp GFI receptacles with independent fuse protection.
       5) Outlet shall be accessible from outside the unit.
       6) Outlet shall include a field installed “Wet in Use” cover.
    c. Field-installed non-powered convenience outlet:
       1) Outlet shall be powered from a separate 115/120v power source.
       2) A transformer shall not be included.

Guide specifications – RGW (cont)

3) Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
4) Outlet shall include 20 amp GFI receptacles. This kit provides a flexible installation method which allows code compliance for height requirements of the GFCI outlet from the finished roof surface as well as the capability to relocate the outlet to a more convenient location.
5) Outlet shall be accessible from outside the unit.
6) Outlet shall include a field installed "Wet in Use" cover.

12. Flue Discharge Deflector:
    a. Flue discharge deflector shall direct unit exhaust vertically instead of horizontally.
    b. Deflector shall be defined as a "natural draft" device by the National Fuel and Gas (NFG) code.
13. Thru-the-Base Connectors:
    a. Kits shall provide connectors to permit gas and electrical connections to be brought to the unit through the unit basepan.
    b. Minimum of four connection locations per unit.
14. Propeller Power Exhaust:
    a. Power exhaust shall be used in conjunction with an integrated economizer.
    b. Independent modules for vertical or horizontal return configurations shall be available.
    c. Horizontal power exhaust is shall be mounted in return ductwork.
    d. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers open past the 0 to 100% adjustable setpoint on the economizer control.
15. Roof Curbs (Vertical):
    a. Full perimeter roof curb with exhaust capability providing separate air streams for energy recovery from the exhaust air without supply air contamination.
    b. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
    c. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
16. High Altitude Gas Conversion Kit:
    a. Package shall contain all the necessary hardware and instructions to convert a standard natural gas unit to operate from 2000 to 7000 ft (610 to 2134 m) elevation with natural gas or from 0 to 7000 ft (0 to 2134 m) elevation with liquefied propane.
17. Outdoor Air Enthalpy Sensor:
    a. The outdoor air enthalpy sensor shall be used to provide single enthalpy control. When used in conjunction with a return air enthalpy sensor, the unit will provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.
18. Return Air Enthalpy Sensor:
    a. The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
19. Indoor Air Quality (CO_2) Sensor:
    a. Shall be able to provide demand ventilation indoor air quality (IAQ) control.
    b. The IAQ sensor shall be available in duct mount, wall mount, or wall mount with LED display. The setpoint shall have adjustment capability.
20. Smoke detectors (factory-installed only):
    a. Shall be a four-wire controller and detector.
    b. Shall be environmental compensated with differential sensing for reliable, stable, and drift-free sensitivity.
    c. Shall use magnet-activated test/reset sensor switches.
    d. Shall have tool-less connection terminal access.
    e. Shall have a recessed momentary switch for testing and resetting the detector.
    f. Controller shall include:
        1) One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel.
        2) Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment.
        3) One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station.
        4) Capable of direct connection to two individual detector modules.
        5) Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.
21. Winter Start Kit:
    a. Shall contain a bypass device around the low pressure switch.
    b. Shall be required when mechanical cooling is required down to 25°F (–4°C).
    c. Shall not be required to operate on an economizer when below an outdoor ambient of 35°F (2°C).

Guide specifications – RGW (cont)

22. Time Guard:
    a. Shall prevent compressor short-cycling by providing a 5 minute delay (±2 minutes) before restarting a compressor after shut-down for any reason.
    b. One device shall be required per compressor.
23. Hinged Access Panels:
    a. Shall provide easy access through integrated quarter turn latches.
    b. Shall be on major panels of: filter, control box, fan motor, and compressor.
24. Condensate overflow switch:
    a. This sensor and related controller monitors the condensate level in the drain pan and shuts down compression operation when overflow conditions occur. It includes:
        1) Indicator light — solid red (more than 10 seconds on water contact – compressors disabled), blinking red (sensor disconnected).
        2) 10 second delay to break — eliminates nuisance trips from splashing or waves in pan (sensor needs 10 seconds of constant water contact before tripping).
        3) Disables the compressor(s) operation when condensate plug is detected, but still allows fans to run for economizer.
25. Phase Monitor Control:
    a. Shall monitor the sequence of three phase electrical system to provide a phase reversal protection.
    b. Shall monitor the three phase voltage inputs to provide a phase loss protection for the three phase device.
    c. Will work on either a Delta or Wye power connection.
26. Horn/Strobe Annunciator:
    a. Provides an audible/visual signaling device for use with factory-installed option or field installed accessory smoke detectors.
        1) Requires installation of a field-supplied 24-v transformer suitable for 4.2 VA (AC) or 3.0 VA (DC) per horn/strobe accessory.
        2) Requires field-supplied electrical box, North American 1-gang box, 2-in. (51 mm) x 4-in. (102 mm).
        3) Shall have a clear colored lens.

Guide specifications – RAW

Note about this specification:

This specification is in the "Masterformat" as published by the Construction Specification Institute. Please feel free to copy this specification directly into your building spec.

High Efficiency Cooling Only/Electric Heat Packaged Rooftop

HVAC Guide Specifications

Size Range: **3 to 5 Nominal Tons**

ICP Model Number: **RAW036-060**

Part 1 — (23 06 80) Schedules for Decentralized HVAC Equipment

1.01 (23 06 80.13) Decentralized Unitary HVAC Equipment Schedule:

A. (23 06 80.13.A.) Rooftop unit (RTU) schedule:

1. Schedule is per the project specification requirements.

Part 2 — (23 07 16) HVAC Equipment Insulation

2.01 (23 07 16.13) Decentralized, Rooftop Units:

A. (23 07 16.13.A.) Evaporator fan compartment:

1. Interior cabinet surfaces shall be insulated with a minimum $^1/_2$-in. thick, minimum $1^1/_2$ lb density, flexible fiberglass insulation bonded with a phenolic binder, neoprene coated on the air side.
2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

B. (23 07 16.13.B.) Electric Heat Compartment:

1. Aluminum foil-faced fiberglass insulation shall be used.
2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

Part 3 — (23 09 13) Instrumentation and Control Devices for HVAC

3.01 (23 09 13.23) Sensors and Transmitters:

A. (23 09 13.23.A.) Thermostats:

1. Thermostat must
   a. energize both "W" and "G" when calling for heat.
   b. have capability to energize 2 stages of cooling, and 2 different stages of heating.
   c. include capability for occupancy scheduling.

Part 4 — (23 09 33) Electric and Electronic Control System for HVAC

4.01 (23 09 33.13) Decentralized, Rooftop Units:

A. (23 09 33.13.A.) General:

1. Shall be complete with self-contained low-voltage control circuit protected by a resettable circuit breaker on the 24-v transformer side. Transformer shall have 75VA capability.
2. Shall utilize color-coded wiring.
3. Shall include a Unit Control Board to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, economizer, thermostat, and low and high pressure switches. Controller shall also provide an intuitive means to adjust the indoor fan speed through a simple switch and pot adjustment design.
4. Unit shall include a minimum of one 8-pin screw terminal connection board for connection of control wiring.

B. (23 09 33.13.B.) Safeties:

1. Compressor over-temperature, over-current. High internal pressure differential.
2. Low pressure switch:
   a. Low pressure switch shall use different color wire than the high pressure switch. The purpose is to assist the installer and service technician to correctly wire and or troubleshoot the rooftop unit.
3. High pressure switch:
   a. High pressure switch shall use different color wire than the low pressure switch. The purpose is to assist the installer and service technician to correctly wire and or troubleshoot the rooftop unit.
4. Automatic reset, motor thermal overload protector.

Part 5 — (23 09 93) Sequence of Operations for HVAC Controls

5.01 (23 09 93.13) Decentralized, Rooftop Units:

A. (23 09 93.13.A.) INSERT SEQUENCE OF OPERATION

Part 6 — (23 40 13) Panel Air Filters

6.01 (23 40 13.13) Decentralized, Rooftop Units:

A. (23 40 13.13.A.) Standard filter section:

1. Shall consist of factory installed, low velocity, disposable 2-in. thick fiberglass filters of commercially available sizes.
2. Unit shall use only one filter size. Multiple sizes are not acceptable.
3. Filters shall be accessible through an access panel with "no-tool" removal as described in the unit cabinet section of this specification (23 81 19.13.G).

Part 7 — (23 81 19) Self-Contained Air Conditioners

7.01 (23 81 19.13) Small-Capacity Self-Contained Air Conditioners:

A. (23 81 19.13.A.) General:

1. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing a fully hermetic scroll compressor(s) for cooling duty and optional electric heat for heating duty.
2. Factory assembled, single-piece heating and cooling rooftop unit. Contained within the unit enclosure shall be all factory wiring, piping,

controls, and special features required prior to field start-up.

3. Unit shall use R-410A refrigerant.
4. Unit shall be installed in accordance with the manufacturer's instructions.
5. Unit must be selected and installed in compliance with local, state, and federal codes.

B. (23 81 19.13.B.) Quality Assurance:

1. Unit meets and exceeds ASHRAE 90.1 minimum efficiency requirements.
2. Unit shall be rated in accordance with AHRI Standards 210/240.
3. Unit shall be designed to conform to ASHRAE 15.
4. Unit shall be UL-tested and certified in accordance with ANSI Z21.47 Standards and UL-listed and certified under Canadian standards as a total package for safety requirements.
5. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
6. Unit casing shall be capable of withstanding 500 hour salt spray exposure per ASTM B117 (scribed specimen).
7. Unit shall be designed in accordance with ISO 9001, and shall be manufactured in a facility registered by ISO 9001:2015.
8. Roof curb shall be designed to conform to NRCA Standards.
9. Unit shall be subjected to a completely automated run test on the assembly line. The data for each unit will be stored at the factory, and must be available upon request.
10. Unit shall be designed in accordance with UL Standard 1995, including tested to withstand rain.
11. Unit shall be constructed to prevent intrusion of snow and tested to prevent snow intrusion into the control box up to 40 mph.
12. Unit shake tested to assurance level 1, ASTM D4169 to ensure shipping reliability.

C. (23 81 19.13.C.) Delivery, Storage, and Handling:

1. Unit shall be stored and handled per manufacturer's recommendations.
2. Lifted by crane requires either shipping top panel or spreader bars.
3. Unit shall only be stored or positioned in the upright position.

D. (23 81 19.13.D.) Project Conditions:

1. As specified in the contract.

E. (23 81 19.13.E.) Operating Characteristics:

1. Unit shall be capable of starting and running at 125°F (52°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 210/240 at ±10% voltage.
2. Compressor with standard controls shall be capable of operation down to 35°F (2°C), ambient outdoor temperatures. Accessory winter start kit is necessary if mechanically cooling at ambient temperatures down to 25°F (–4°C).
3. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
4. Unit shall be factory configured for vertical supply and return configurations.
5. Unit shall be field convertible from vertical to horizontal airflow on all models. No special kit required.
6. Unit shall be capable of mixed operation: vertical supply with horizontal return or horizontal supply with vertical return.

F. (23 81 19.13.F.) Electrical Requirements:

1. Main power supply voltage, phase, and frequency must match those required by the manufacturer.

G. (23 81 19.13.G.) Unit Cabinet:

1. Unit cabinet shall be constructed of galvanized steel, and shall be bonderized and coated with a pre-painted baked enamel finish on all externally exposed surfaces.
2. Unit cabinet exterior paint shall be: film thickness, (dry) 0.003-in. minimum, gloss (per ASTM D523, 60°F/16°C): 60, Hardness: H-2H Pencil hardness.
3. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 210/240 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum $^{1}/_{2}$-in. thick, 1 lb density, flexible fiberglass insulation, neoprene coated on the air side. Aluminum foil-faced fiberglass insulation shall be used in the heat compartment.
4. Base of unit shall have a minimum of four locations for thru-the-base gas and electrical connections (factory-installed or field-installed), standard.
5. Base Rail:
   a. Unit shall have base rails on a minimum of 2 sides.
   b. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
   c. Holes shall be provided in the base rail for moving the rooftop by fork truck.
   d. Base rail shall be a minimum of 16 gage thickness.
6. Condensate pan and connections:
   a. Shall be a sloped condensate drain pan made of a corrosion resistant material.
   b. Shall comply with ASHRAE Standard 62.
   c. Shall use a $^{3}/_{4}$-in. 14 NPT drain connection, possible either through the bottom or side

of the drain pan. Connection shall be made per manufacturer's recommendations.

7. Top panel:
   a. Shall be a single piece top panel on all sizes.
8. Electrical Connections:
   a. All unit power wiring shall enter unit cabinet at a single, factory prepared, knockout location.
   b. Thru-the-base capability.
      1) Standard unit shall have a thru-the-base electrical location(s) using a raised, embossed portion of the unit basepan.
      2) Optional, factory approved, water-tight connection method must be used for thru-the-base electrical connections.
      3) No basepan penetration, other than those authorized by the manufacturer, is permitted.
9. Component access panels (standard):
   a. Cabinet panels shall be easily removable for servicing.
   b. Unit shall have one factory installed, tool-less, removable, filter access panel.
   c. Panels covering control box, indoor fan, indoor fan motor, gas components (where applicable), and compressors shall have molded composite handles.
   d. Handles shall be UV modified, composite. They shall be permanently attached, and recessed into the panel.
   e. Screws on the vertical portion of all removable access panel shall engage into heat resistant, molded composite collars.
   f. Collars shall be removable and easily replaceable using manufacturer recommended parts.

H. (23 81 19.13.H.) Coils:
1. Standard Aluminum Fin-Copper Tube Coils:
   a. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
   b. Evaporator coils shall be leak tested to 150 psig, pressure tested to 450 psig, and qualified to UL 1995 burst test at 1775 psig.
   c. Condenser coils shall be leak tested to 150 psig, pressure tested to 650 psig, and qualified to UL 1995 burst test at 1980 psig.
2. Optional Pre-coated aluminum-fin condenser coils (3 Phase Models Only):
   a. Shall have a durable epoxy-phenolic coating to provide protection in mildly corrosive coastal environments.
   b. Coating shall be applied to the aluminum fin stock prior to the fin stamping process to create an inert barrier between the aluminum fin and copper tube.
   c. Epoxy-phenolic barrier shall minimize galvanic action between dissimilar metals.
   d. Corrosion durability of fin stock shall be confirmed through testing to be no less than 1000 hours salt spray per ASTM B117-90.
   e. Corrosion durability of fin stock shall be confirmed through testing to have no visible corrosion after 48 hour immersion in a room temperature solution of 5% salt, 1% acetic acid.
   f. Fin stock coating shall pass 2000 hours of the following: one week exposure in the prohesion chamber followed by one week of accelerated ultraviolet light testing. Prohesion chamber: the solution shall contain 3.5% sodium chloride and 0.35% ammonium sulfate. The exposure cycle is one hour of salt fog application at ambient followed by one hour drying at 95°F (35°C).
3. Optional Copper-fin evaporator and condenser coils (3 Phase Models Only):
   a. Shall be constructed of copper fins mechanically bonded to copper tubes and copper tube sheets.
   b. Galvanized steel tube sheets shall not be acceptable.
   c. A polymer strip shall prevent coil assembly from contacting the sheet metal coil pan to minimize potential for galvanic corrosion between coil and pan.
4. Optional E-coated aluminum-fin evaporator and condenser coils (3 Phase Models Only):
   a. Shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins.
   b. Coating process shall ensure complete coil encapsulation of tubes, fins and headers.
   c. Color shall be high gloss black with gloss per ASTM D523-89.
   d. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges.
   e. Superior hardness characteristics of 2H per ASTM D3363-92A and cross-hatch adhesion of 4B-5B per ASTM D3359-93.
   f. Impact resistance shall be up to 160 in.-lb (ASTM D2794-93).
   g. Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92).

h. Corrosion durability shall be confirmed through testing to be no less than 1000 hours salt spray per ASTM B117-90.

I. (23 81 19.13.I.) Refrigerant Components:

1. Refrigerant circuit shall include the following control, safety, and maintenance features:
   a. TXV metering system on all models shall include a multiple feed distribution system.
   b. Refrigerant filter drier - Solid core design.
   c. Service gage connections on suction and discharge lines.
   d. Pressure gage access through a specially designed access port in the top panel of the unit.
2. There shall be gage line access port in the skin of the rooftop, covered by a black, removable plug.
   a. The plug shall be easy to remove and replace.
   b. When the plug is removed, the gage access port shall enable maintenance personnel to route their pressure gage lines.
   c. This gage access port shall facilitate correct and accurate condenser pressure readings by enabling the reading with the compressor access panel on.
   d. The plug shall be made of a leak proof, UV-resistant, composite material.
3. Compressors:
   a. Unit shall use fully hermetic, two stage scroll compressor on a single refrigeration circuit.
   b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
   c. Compressors shall be internally protected from high discharge temperature conditions.
   d. Compressors shall be protected from an over-temperature and over-amperage conditions by an internal, motor overload device.
   e. Compressor shall be factory mounted on rubber grommets.
   f. Compressor motors shall have internal line break thermal, current overload and high pressure differential protection.
   g. Crankcase heaters shall not be required for normal operating range, unless required by compressor manufacturer due to refrigerant charge limits.

J. (23 81 19.13.J.) Filter Section:

1. Filters access is specified in the unit cabinet section of this specification.
2. Filters shall be held in place by a pivoting filter tray, facilitating easy removal and installation.
3. Shall consist of factory installed, low velocity, throw-away 2-in. thick fiberglass filters.
4. Filters shall be standard, commercially available sizes.
5. Only one size filter per unit is allowed.

K. (23 81 19.13.K.) Evaporator Fan and Motor with X-Vane™ Fan Technology:

1. Direct Drive Evaporator fan motor:
   a. Shall be a ECM motor design.
   b. Shall have permanently lubricated bearings.
   c. Shall have inherent automatic-reset thermal overload protection.
   d. Shall have slow ramp up to speed capabilities.
   e. Shall require no fan/motor belts for operation, adjustments and or initial fan speed set up.
   f. Fan DC voltage set up on Unit Control Board can eliminate the need of removal of blower access door, required on conventional belt drive systems.
   g. Shall be internally protected from electrical phase reversal and loss.
2. Evaporator Fan:
   a. Shall be easily set with selection switch and adjustment pot on unit control board.
   b. On all sizes 036-060 which have two stage cooling capacity control, the indoor fan speed is automatically controlled to meet the AHRI performance requirement with 75% low fan speed and 100% at full fan speed operation.
   c. Blower fan shall be a Vane Axial fan design with 75% less moving parts than a conventional belt drive system.
   d. Shall be constructed of a cast aluminum stator and high impact composite material on rotor and air inlet casing.
   e. Shall be a patented / pending design with a corrosion resistant material and dynamically balanced.
   f. Shall have slow ramp up to speed capabilities to help reduce sound and comfort issues typically associated with single speed belt drive systems.
   g. Shall be a slide out design with two screw removal.
3. Shall include an easily accessible unit Control Board to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, gas controller, economizer, thermostat, and low and high pressure switches. Controller shall also provide an intuitive means to adjust the indoor fan speed through a simple switch and pot adjustment design.

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L. (23 81 19.13.L.) Condenser Fans and Motors:
   1. Condenser fan motors:
      a. Shall be a totally enclosed motor.
      b. Shall use permanently lubricated bearings.
      c. Shall have inherent thermal overload protection with an automatic reset feature.
      d. Shall use a shaft-down design on all sizes.
   2. Condenser Fans:
      a. Shall be a direct-driven propeller type fan constructed of high impact composite material.
      b. Shall have high impact composite blades completely formed into one piece without blade fasteners or connectors and shall be dynamically balanced.

M. (23 81 19.13.M.) Special Features Options and Accessories:
   1. Integrated EconoMi$er® IV and EconoMi$er X low leak rate models. (EconoMi$er X is factory-installed on 3 phase models only. All are field-installed on all 3 and 1 phase models):
      a. Integrated, gear driven opposing modulating blade design type capable of simultaneous economizer and compressor operation.
      b. Independent modules for vertical or horizontal return configuration shall be available. Vertical return modules shall be available as a factory installed option.
      c. Damper blades shall be galvanized steel with composite gears. Plastic or composite blades on intake or return shall not be acceptable.
      d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
      e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
      f. Low leak rate shall be equipped with dampers not to exceed 2% leakage at 1 in. wg pressure differential.
      g. Economizer controller on EconoMi$er IV (field-installed only) models shall be Honeywell W7212 that provides:
         1) Combined minimum and DCV maximum damper position potentiometers with compressor staging relay.
         2) Functions with solid-state analog enthalpy or dry bulb changeover control sensing.
         3) Contain LED indicates for: when free cooling is available, when module is in DCV mode, when exhaust fan contact is closed.
      h. Economizer controller on EconoMi$er X models shall be the Honeywell W7220 that provides:
         1) 2-line LCD interface screen for setup, configuration and troubleshooting.
         2) On-board Fault Detection and Diagnostics (FDD) that senses and alerts when the economizer is not operating properly, per California Title 24, ASHRAE 90.1 and IECC.
         3) Sensor failure loss of communication identification.
         4) Automatic sensor detection.
         5) Capabilities for use with multiple-speed or single speed indoor fan systems.
         6) Utilize digital sensors: Dry bulb and Enthalpy.
      i. Shall be capable of introducing up to 100% outdoor air.
      j. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air and contain seals that meet ASHRAE 90.1 requirements.
      k. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
      l. Dry bulb outdoor air temperature sensor shall be provided as standard. Enthalpy sensor is also available on factory installed only. Outdoor air sensor setpoint shall be adjustable and shall range from 40°F to 100°F (4°C to 38°C). Additional sensor options shall be available as accessories.
      m. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 100%, with a range of 0% to 100%.
      n. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy.
      o. Dampers shall be completely closed when the unit is in the unoccupied mode.
      p. Economizer controller shall accept a 2 to 10 vdc CO_2 sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor air damper to provide ventilation based on the sensor input.
      q. Compressor lockout temperature on W7220 control is adjustable from –45°F to 80°F (–43°C to 27°C), set at a factory default of 32°F (0°C). W7212 control opens at 35°F (2°C) and closes at 50°F (10°C).
      r. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
      s. Economizer controller shall provide indications when in free cooling mode, in the

DCV mode, or the exhaust fan contact is closed.

2. Integrated EconoMi$er® X Ultra Low Leak rate models. (Factory installed on 3 phase models only. Field installed on all 3 and 1 phase models):
   a. Integrated, gear driven opposing modulating blade design type capable of simultaneous economizer and compressor operation.
   b. Independent modules for vertical or horizontal return configuration shall be available. Vertical return modules shall be available as a factory-installed option.
   c. Damper blades shall be galvanized steel with composite gears. Plastic or composite blades on intake or return shall not be acceptable.
   d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
   e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
   f. Ultra Low Leak design meets California Title 24 section 140.4 and ASHRAE 90.1 requirements for 4 cfm per sq. ft on the outside air dampers and 10 cfm per sq. ft on the return dampers.
   g. Economizer controller on EconoMi$er X models shall be the Honeywell W7220 that provides:
      1) 2-line LCD interface screen for setup, configuration and troubleshooting.
      2) On-board Fault Detection and Diagnostics (FDD) that senses and alerts when the economizer is not operating properly, per California Title 24, ASHRAE 90.1 and IECC.
      3) Sensor failure loss of communication identification.
      4) Automatic sensor detection.
      5) Capabilities for use with multiple-speed indoor fan systems.
      6) Utilize digital sensors: Dry bulb and Enthalpy.
   h. Shall be capable of introducing up to 100% outdoor air.
   i. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air and contain seals that meet ASHRAE 90.1 requirements.
   j. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
   k. Dry bulb outdoor air temperature sensor shall be provided as standard. Enthalpy sensor is also available on factory installed only. Outdoor air sensor setpoint shall be adjustable and shall range from 40°F to 100°F (4°C to 38°C). Additional sensor options shall be available as accessories.
   l. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 100%, with a range of 0% to 100%.
   m. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy.
   n. Dampers shall be completely closed when the unit is in the unoccupied mode.
   o. Economizer controller shall accept a 2 to 10 vdc CO_2 sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor air damper to provide ventilation based on the sensor input.
   p. Compressor lockout temperature on W7220 control is adjustable from –45°F to 80°F (–43°C to 27°C), set at a factory default of 32°F (0°C). W7212 control opens at 35°F (2°C) and closes at 50°F (10°C).
   q. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
   r. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
3. Two-Position Damper (field-installed only):
   a. Damper shall be a Two-Position Damper. Damper travel shall be from the full closed position to the field adjustable %-open setpoint.
   b. Damper shall include adjustable damper travel from 25% to 100% (full open).
   c. Damper shall include single or dual blade, gear driven dampers and actuator motor.
   d. Actuator shall be direct coupled to damper gear. No linkage arms or control rods shall be acceptable.
   e. Damper will admit up to 100% outdoor air for applicable rooftop units.
   f. Damper shall close upon indoor (evaporator) fan shutoff and/or loss of power.
   g. The damper actuator shall plug into the rooftop unit's wiring harness plug. No hard wiring shall be required.
   h. Outside air hood shall include aluminum water entrainment filter.
4. Manual damper (field-installed only):
   a. Manual damper package shall consist of damper, air inlet screen, and rain hood which can be pre-set to admit up to 25% or 50% outdoor air for year round ventilation.

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5. Hot Gas Re-Heat Dehumidification System (3 Phase Models Only):
   a. The Hot Gas Re-Heat Dehumidification System shall be factory installed and shall provide greater dehumidification of the occupied space by two modes of dehumidification operations in addition to its normal design cooling mode:
      1) Subcooling mode further sub cools the hot liquid refrigerant leaving the condenser coil when both temperature and humidity in the space are not satisfied.
      2) Hot gas reheat mode shall mix a portion of the hot gas from the discharge of the compressor with the hot liquid refrigerant leaving the condenser coil to create a two-phase heat transfer in the system, resulting in a neutral leaving air temperature when only humidity in the space is not satisfied.
      3) Includes low ambient controller.
6. Low Ambient Control Package:
   a. Controller shall control coil head pressure by condenser fan speed modulation or condenser fan cycling and wind baffles.
   b. Shall consist of solid-state control and condenser coil temperature sensor to maintain condensing temperature between 90°F (32°C) and 110°F (43°C) at outdoor ambient temperatures down to –20°F (–29°C).
7. Condenser Coil Hail Guard Assembly (Factory-installed on 3 Phase Models Only. Field-installed on all 3 and 1 Phase Models):
   a. Shall protect against damage from hail.
   b. Shall be either hood style or louvered.
8. Unit-Mounted, Non-Fused Disconnect Switch (Available on units with MOCPs of 80 amps or less):
   a. Switch shall be factory installed, internally mounted.
   b. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff.
   c. Shall be accessible from outside the unit.
   d. Shall provide local shutdown and lockout capability.
   e. Sized only for the unit as ordered from the factory. Does not accommodate field-installed devices.
9. Convenience Outlet:
   a. Powered convenience outlet (3 Phase Models Only):
      1) Outlet shall be powered from main line power to the rooftop unit.
      2) Outlet shall be powered from line side or load side of disconnect by installing contractor, as required by code. If outlet is powered from load side of disconnect, unit electrical ratings shall be UL certified and rated for additional outlet amperage.
      3) Outlet shall be factory-installed and internally mounted with easily accessible 115-v female receptacle.
      4) Outlet shall include 15 amp GFI receptacles with independent fuse protection.
      5) Voltage required to operate convenience outlet shall be provided by a factory installed step-down transformer.
      6) Outlet shall be accessible from outside the unit.
      7) Outlet shall include a field installed “Wet in Use” cover.
   b. Factory-installed non-powered convenience outlet:
      1) Outlet shall be powered from a separate 115/120v power source.
      2) A transformer shall not be included.
      3) Outlet shall be factory-installed and internally mounted with easily accessible 115-v female receptacle.
      4) Outlet shall include 15 amp GFI receptacles with independent fuse protection.
      5) Outlet shall be accessible from outside the unit.
      6) Outlet shall include a field installed “Wet in Use” cover.
   c. Field-installed non-powered convenience outlet:
      1) Outlet shall be powered from a separate 115/120v power source.
      2) A transformer shall not be included.
      3) Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
      4) Outlet shall include 20 amp GFI receptacles. This kit provides a flexible installation method which allows code compliance for height requirements of the GFCI outlet from the finished roof surface as well as the capability to relocate the outlet to a more convenient location.
      5) Outlet shall be accessible from outside the unit.
      6) Outlet shall include a field installed “Wet in Use” cover.
10. Thru-the-Base Connectors:
    a. Kits shall provide connectors to permit gas and electrical connections to be brought to the unit through the unit basepan.
    b. Minimum of four connection locations per unit.
11. Propeller Power Exhaust:
    a. Power exhaust shall be used in conjunction with an integrated economizer.

b. Independent modules for vertical or horizontal return configurations shall be available.

c. Horizontal power exhaust is shall be mounted in return ductwork.

d. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers open past the 0 to 100% adjustable setpoint on the economizer control.

12. Roof Curbs (Vertical):
    a. Full perimeter roof curb with exhaust capability providing separate air streams for energy recovery from the exhaust air without supply air contamination.
    b. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
    c. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
13. Outdoor Air Enthalpy Sensor:
    a. The outdoor air enthalpy sensor shall be used to provide single enthalpy control. When used in conjunction with a return air enthalpy sensor, the unit will provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.
14. Return Air Enthalpy Sensor:
    a. The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
15. Indoor Air Quality (CO_2) Sensor:
    a. Shall be able to provide demand ventilation indoor air quality (IAQ) control.
    b. The IAQ sensor shall be available in duct mount, wall mount, or wall mount with LED display. The setpoint shall have adjustment capability.
16. Smoke detectors (factory-installed only):
    a. Shall be a four-wire controller and detector.
    b. Shall be environmental compensated with differential sensing for reliable, stable, and drift-free sensitivity.
    c. Shall use magnet-activated test/reset sensor switches.
    d. Shall have tool-less connection terminal access.
    e. Shall have a recessed momentary switch for testing and resetting the detector.
    f. Controller shall include:
        1) One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel.
        2) Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment.
        3) One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station.
        4) Capable of direct connection to two individual detector modules.
        5) Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.
17. Winter Start Kit:
    a. Shall contain a bypass device around the low pressure switch.
    b. Shall be required when mechanical cooling is required down to 25°F (–4°C).
    c. Shall not be required to operate on an economizer when below an outdoor ambient of 35°F (2°C).
18. Time Guard:
    a. Shall prevent compressor short-cycling by providing a 5 minute delay (±2 minutes) before restarting a compressor after shutdown for any reason.
    b. One device shall be required per compressor.
19. Hinged Access Panels:
    a. Shall provide easy access through integrated quarter turn latches.
    b. Shall be on major panels of: filter, control box, fan motor, and compressor.
20. Condensate overflow switch:
    a. This sensor and related controller monitors the condensate level in the drain pan and shuts down compression operation when overflow conditions occur. It includes:
        1) Indicator light — solid red (more than 10 seconds on water contact – compressors disabled), blinking red (sensor disconnected).
        2) 10 second delay to break — eliminates nuisance trips from splashing or waves in pan (sensor needs 10 seconds of constant water contact before tripping).
        3) Disables the compressor(s) operation when condensate plug is detected, but still allows fans to run for economizer.
21. Phase Monitor Control:
    a. Shall monitor the sequence of three phase electrical system to provide a phase reversal protection
    b. Shall monitor the three phase voltage inputs to provide a phase loss protection for the three phase device.
    c. Will work on either a Delta or Wye power connection.

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22. Horn/Strobe Annunciator:
    a. Provides an audible/visual signaling device for use with factory-installed option or field installed accessory smoke detectors.
        1) Requires installation of a field-supplied 24-v transformer suitable for 4.2 VA (AC) or 3.0 VA (DC) per horn/strobe accessory.
        2) Requires field-supplied electrical box, North American 1-gang box, 2-in. (51 mm) x 4-in. (102 mm).
        3) Shall have a clear colored lens.

23. Electric Heat:
    a. Heating Section:
        1) Heater element open coil resistance wire, nickel-chrome alloy, 0.29-in. inside diameter, strung through ceramic insulators mounted on metal frame. Coil ends are staked and welded to terminal screw slots.
        2) Heater assemblies are provided with integral fusing for protection of internal heater circuits not exceeding 48 amps each. Auto reset thermo limit controls, magnetic heater contactors (24-v coil) and terminal block all mounted in electric heater control box (minimum 18 ga galvanized steel) attached to end of heater assembly.

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