

# TECHNICAL GUIDE

## RAC SERIES

### SPLIT SYSTEM AIR CONDITIONERS

### 13 SEER – R-410A – 3 PHASE

### 2.5 THRU 5 NOMINAL TONS

### MODELS: RAC13J30 THRU 60 (3φ)



Due to continuous product improvement, specifications are subject to change without notice.

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#### WARRANTY SUMMARY\*

Standard 1-Year limited parts warranty.

Standard 5-Years limited compressor warranty.

\*Does not apply to R-22 models or internet sales.

See Limited Warranty certificate in User's Information Manual for details.

## DESCRIPTION

The 13 SEER Series unit is the outdoor part of a versatile climate system. It is designed with a matching indoor coil component from Johnson Controls Unitary Products. Available for typical applications this climate system is supported with accessories and documents to serve specific functions.

## FEATURES

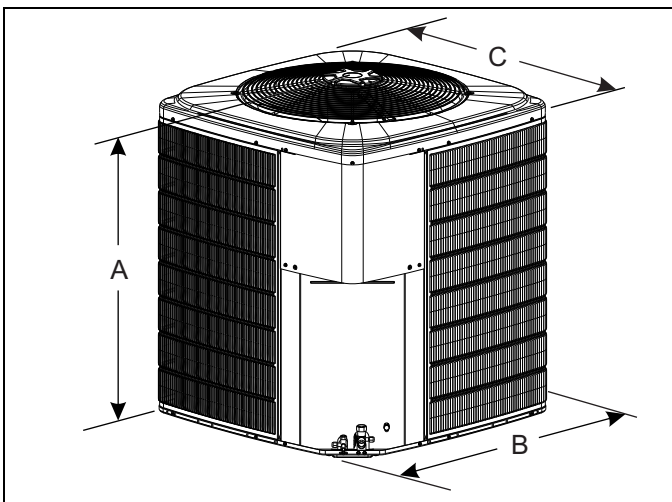
- **Small Footprint** - Extremely lightweight with a compact footprint, it is a perfect fit for any application.
- **Quality Condenser Coils** - The coil is constructed of aluminum microchannel tubing and enhanced aluminum fins for reduced size and increased efficiency.
- **Coil Protection** - Coils are protected from damage by a slotted, stamped steel coil guard and secondary polymer mesh.
- **Optional Factory E-Coat** - Available ElectroFin® coated coil on select models.
- **Protected Compressor** - Compressors are protected internally by a high pressure relief valve and a temperature sensor, and externally by the system high pressure switch. A factory installed liquid line filter-drier further protects the compressor against moisture and debris.
- **Environmentally Friendly Refrigerant** - The next generation refrigerant R-410A delivers environmentally friendly performance with zero ozone depletion.
- **Durable Finish** - An automotive quality finish provides the ultimate protection from harmful UV rays and rust-creep, ensuring a long-lasting, high quality appearance. A powder paint top coat is applied over a baked on primer using a galvanized, zinc coated steel base material.
- **Lower Installed Cost** - Installation time and costs are reduced by easy power and control wiring connections. The unit is factory charged for a 15-foot lineset. The small base dimension means less space is required on the ground or roof.
- **Top Discharge** - Warm air from the top mounted fan is blown up, away from the structure and any landscaping. This allows compact location on multi-unit applications.
- **Low Operating Sound Levels** - The upward air flow carries the normal operating noise away from the living area. The rigid top panel effectively isolates any motor sound. Isolator mounted compressor and the condenser coil muffle the normal fan motor and compressor operating sounds.
- **Low Maintenance** - Long life, permanently lubricated motor-bearings need no annual servicing.
- **Easy Service Access** - Fully exposed refrigerant connections and a single panel covering the electrical controls make for easy servicing of the unit.
- **Secured Service Valves** - Secured, re-usable service valves are provided on both the liquid and vapor sweat connections for ease of evacuating and charging.
- **Agency Listed** - Safety certified by CSA to UL 1995 / CSA 22.2. Performance certified to ANSI/AHRI Standard 210/240 in accordance with the Unitary Small Equipment certification program.

### Physical and Electrical Data

MODEL	RAC13J304S31(E)	RAC13J364S31(E)	RAC13J424S31(E)	RAC13J484S31(E)	RAC13J604S31(E)	
Unit Supply Voltage	208-230V, 3 $\phi$ , 60Hz					
Normal Voltage Range <sup>1</sup>	187 to 252					
Minimum Circuit Ampacity	11.6	12.3	15.4	15.5	21.5	
Max. Overcurrent Device Amps <sup>2</sup>	15	20	25	25	35	
Min. Overcurrent Device Amps <sup>3</sup>	15	15	20	20	25	
Compressor Type	Recip	Recip	Recip	Recip	Scroll	
Compressor Amps	Rated Load	8.1	8.6	11.1	11.2	16.0
	Locked Rotor	63	68	68	88	110
Crankcase Heater	No	No	No	No	No	
Factory External Discharge Muffler	No	No	No	Yes	No	
Factory External Check Valve	No	No	No	No	No	
Fan Motor Amps	Rated Load	17.5	22.0	22.0	22.0	24.0
Fan Diameter Inches	1/4	1/4	1/4	1/4	1/4	
Fan Motor	Rated HP	1.4	1.5	1.5	1.5	1.5
	Nominal RPM	1100	850	850	850	850
	Nominal CFM	2050	3200	3050	2950	3400
Coil	Face Area Sq. Ft.	9.60	13.07	14.16	14.16	18.68
	Rows Deep	1	1	1	1	1
	Fins / Inch	23	23	23	23	23
Liquid Line Set OD (Field Installed)	3/8	3/8	3/8	3/8	3/8	
Vapor Line Set OD (Field Installed)	3/4	3/4	7/8	7/8	7/8	
Unit Charge (Lbs. - Oz.) <sup>4</sup>	3 - 14	4 - 9	4 - 10	4 - 9	5 - 8	
Charge Per Foot, Oz.	0.62	0.62	0.67	0.67	0.67	
Operating Weight Lbs.	131	145	164	173	220	

**Models with "E" on the end of the model number have an ElectroFin® coating on the outdoor coil.**

1. Rated in accordance with AHRI Standard 110-2012, utilization range "A".
2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.
3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.
4. The Unit Charge is correct for the outdoor unit, smallest matched indoor unit, and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in length multiplied by the per foot value.



Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A	B	C	Liquid	Vapor
30	28-1/4	24	24	3/8	3/4
36	28-1/4	29-1/2	29-1/2		
42	30-1/4	29-1/2	29-1/2		7/8
48	30-1/4	29-1/2	29-1/2		
60	32-1/4	34	34		

All dimensions are in inches and are subject to change without notice.

Overall height is from bottom of base pan to top of fan guard.

Overall length and width include screw heads.

System Charge for Various Matched Systems					
Outdoor Unit	RAC13J304S31(E)	RAC13J364S31(E)	RAC13J424S31(E)	RAC13J484S31(E)	RAC13J604S31(E)
Required Orifice or TXV <sup>1,2</sup>	0.061/4F1	0.065/4G1	0.073/4G1	0.073/4H1	0.084/4J1
Indoor Unit <sup>3,4,5</sup>	Additional Charge, oz				
RFCX30BE	0	–	–	–	–
RFCX36CE	2	0	–	–	–
RFCX42DE	–	8	10	–	–
RFCX48DE	–	–	9	0	–
RFCX60DE	–	–	14	–	4
RFCX30BP	0	–	–	–	–
RFCX36BP	2	0	–	–	–
RFCX42CP	–	8	10	–	–
RFCX48DP	–	–	9	0	–
RFCX60DP	–	–	15	–	4
FC/MC/PC32	0	–	–	–	–
FC/MC/PC35	0	–	–	–	–
FC/MC/PC37	2	0	–	–	–
FC/MC/PC43	2	0	0	–	–
FC/MC/PC48	–	8	10	4	–
FC/MC/PC60	–	–	9	0	0
FC/MC62	–	–	14	–	4
FC64	–	–	23	–	11
UC48	–	8	4	4	–
UC60	–	–	9	0	0

Some of the combinations shown in the above System Charge table require Advanced Main Air Circulating Fan indoor product. For approved coil only matches, please see the "COOLING CAPACITY - Upflow, Downflow & Horizontal Furnaces and Coils" table.

**FOOTNOTES:**

1. For applications requiring a TXV use S1-1TVM\*\*\* series kit.
2. Approved orifice(s) shipped with outdoor unit.
3. Systems matched with furnaces or air handlers not equipped with blower-off delays may require blower Time Delay Kit S1-2FD06700224.
4. PC coils cannot be used in downflow or horizontal applications. FC coils cannot be used in horizontal applications.
5. Refer to Cooling Performance Data tables for actual system performance for specified system matches.

**PROCEDURES:**

1. Unit factory charge listed on the unit nameplate includes refrigerant for the outdoor unit, the smallest matched indoor unit, and 15 feet of interconnecting line tubing.
2. Verify the TXV or orifice and additional charge required for specific matched indoor unit in the system using the above table.
3. Add additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in Physical and Electrical Data Table.
4. For indoor matches requiring additional charge, the refrigerant needs to be weighed in for specific matched indoor unit and lineset length.
5. Permanently mark the unit nameplate with the total system charge. Total System Charge = Base Charge (as shipped) + charge adder for matched indoor unit + charge adder for line set.

**COOLING CAPACITY - With Air Handler Coils**

UNIT MODEL	AIR HANDLER		COIL MODEL <sup>1</sup>	COOLING				
	MODEL	WIDTH		RATED CFM	NET MBH		SEER	EER
					TOTAL	SENS.		
<b>13 SEER AC WITH AIR HANDLERS</b>								
RAC13J304S31(E)	RFCX30BE	17.5	—	985	29.4	21.4	14.00	11.75
	RFCX36CE	21.0	—	1000	30.2	22.0	14.75	12.25
	RFCX30BP	17.5	—	1095	29.4	22.2	13.00	11.00
	RFCX36BP	17.5	—	1060	29.8	22.0	13.00	11.00
	MX12B	17.5	FC/MC35B	1085	30.0	22.6	14.25	12.00
	MX12B	17.5	FC/MC43B	1095	30.4	23.0	14.50	12.25
	MX16C	21.0	FC/MC35C	1035	30.0	22.2	14.75	12.50
	MX16C	21.0	FC/MC43C	970	30.2	21.8	15.00	12.50
RAC13J364S31(E)	RFCX36CE	21.0	—	1190	35.6	25.4	14.25	12.00
	RFCX42DE	24.5	—	1180	35.8	25.8	14.50	12.25
	RFCX36BP	17.5	—	1245	34.6	24.6	13.00	11.00
	RFCX42CP	21.0	—	1230	35.6	25.4	13.00	11.25
	MX12B	17.5	FC/MC43B	1220	35.4	25.2	13.75	11.75
	MX12D	24.5	FC/MC48D	1225	36.0	25.6	14.25	12.25
	MX16C	21.0	FC/MC43C	1140	35.4	25.0	14.50	12.25
	MX16C	21.0	FC/MC48C	1150	36.2	25.6	14.75	12.50
RAC13J424S31(E)	RFCX42DE	24.5	—	1385	42.0	30.6	14.25	12.00
	RFCX48DE	24.5	—	1385	42.0	30.4	14.00	12.00
	RFCX60DE	24.5	—	1390	42.0	31.0	14.50	12.00
	RFCX42CP	21.0	—	1485	42.0	30.8	13.00	11.00
	RFCX48DP	24.5	—	1320	41.0	28.8	13.00	11.00
	RFCX60DP	24.5	—	1350	42.0	30.2	13.00	11.00
	MX16C	21.0	FC/MC43C	1365	42.0	30.2	14.25	12.00
	MX16C	21.0	FC/MC48C	1390	42.0	30.2	14.25	12.00
	MX16C	21.0	FC60C	1420	42.0	30.0	14.00	12.00
	MX20D	24.5	FC/MC48D	1415	42.0	30.2	14.25	12.00
	MX20D	24.5	FC/MC60D	1470	42.0	30.8	14.25	12.00
	MX20D	24.5	FC/MC62D	1470	42.0	31.6	14.50	12.25
MX20D	24.5	FC64D	1470	42.0	31.6	14.75	12.50	
RAC13J484S31(E)	RFCX48DE	24.5	—	1600	47.0	34.6	13.75	11.50
	RFCX48DP	24.5	—	1610	48.0	34.6	13.00	11.00
	MX16C	21.0	FC/MC48C	1685	48.5	35.6	13.75	11.50
	MX20D	24.5	FC/MC48D	1525	48.0	34.2	14.00	11.75
	MX20D	24.5	FC/MC60D	1585	48.5	34.6	14.00	12.00
RAC13J604S31(E)	RFCX60DE	24.5	—	1835	56.5	41.1	13.50	11.50
	RFCX60DP	24.5	—	1620	55.0	39.1	13.00	11.00
	MX20D	24.5	FC/MC60D	1585	54.5	38.1	13.75	11.50
	MX20D	24.5	FC/MC62D	1795	56.5	40.6	14.00	11.75
	MX20D	24.5	FC64D	1605	57.5	41.1	14.50	12.25

Rated in accordance with DOE test procedures (Federal Register 12-27-79 and 3-18-88) and ANSI/AHRI Standard 210/240.

Cooling MBH based on 80°F entering air temperature, 50% RH (Relative Humidity), and rated air flow.

EER (Energy Efficiency Ratio) is the total cooling output in BTUs at 95°F outdoor ambient divided by the total electric power in watt-hours at those conditions.

SEER (Seasonal Energy Efficiency Ratio) is the total cooling output in BTUs during a normal annual usage period for cooling divided by the total electric power input in watt-hours during the same period.

1. MC coils available with a factory installed horizontal drain pan. See price pages for specific model number.

— = Not applicable.

MA Modular Air Handlers use Coil Only Ratings

**COOLING CAPACITY - Upflow, Downflow & Horizontal Furnaces and Coils (Coil Only Ratings)**

UNIT MODEL	COIL		CFM RANGE (MIN.-MAX.)	COOLING				
	MODEL	WIDTH		RATED CFM	NET MBH		SEER <sup>1</sup>	EER
					TOTAL	SENS.		
<b>13 SEER AC COIL ONLY RATINGS</b>								
RAC13J304S31(E)	FC/MC/PC32	14.5	800-1200	1000	29.0	21.0	13.00	11.00
	FC/MC/PC35	17.5,21.0	800-1200	1000	29.0	21.0	13.00	11.00
	FC/MC/PC37	14.5	800-1200	1000	29.0	21.0	13.00	11.00
	FC/MC/PC43	17.5,21.0	800-1200	1000	29.0	21.0	13.00	11.00
RAC13J364S31(E)	FC/MC/PC37	14.5	1000-1400	1200	35.0	24.8	13.00	11.00
	FC/MC/PC43	17.5,21.0	1000-1400	1200	35.0	24.8	13.00	11.00
	FC/MC/PC48	21.0,24.5	1000-1400	1200	35.0	24.8	13.00	11.00
	UC48	21.0,24.5	1000-1400	1200	35.0	24.8	13.00	11.00
RAC13J424S31(E)	FC/MC/PC43	17.5,21.0	1200-1600	1400	41.5	29.8	13.00	11.00
	FC/MC/PC48	21.0,24.5	1200-1600	1400	42.0	30.0	13.00	11.00
	FC/MC/PC60	21.0,24.5	1200-1600	1400	41.5	29.6	13.00	11.00
	FC/MC62	24.5	1200-1600	1400	42.0	30.4	13.00	11.00
	FC64	24.5	1200-1600	1400	42.0	30.8	13.25	11.25
	UC48	21.0,24.5	1200-1600	1400	42.0	30.0	13.00	11.00
RAC13J484S31(E)	FC/MC/PC48	21.0,24.5	1400-1800	1600	48.0	34.4	13.00	11.00
	FC/MC/PC60	21.0,24.5	1400-1800	1600	48.0	34.4	13.00	11.00
	UC48	21.0,24.5	1400-1800	1600	48.0	34.4	13.00	11.00
	UC60	21.0,24.5	1400-1800	1600	48.0	34.4	13.00	11.00
RAC13J604S31(E)	FC/MC/PC60	21.0,24.5	1600-2000	1800	55.0	39.1	13.00	11.00
	FC/MC62	24.5	1600-2000	1800	55.5	40.1	13.00	11.00
	FC64	24.5	1600-2000	1800	57.5	42.1	13.50	11.25
	UC60	21.0,24.5	1600-2000	1600	53.5	37.0	13.00	10.75

1. Requires a S1-2FD06700224 Blower Time Delay unless a standard furnace is equipped with one.

MA Modular Air Handlers use Coil Only Ratings.

PSC furnaces, such as the RGF1L\*P and RGF19\*P, use Coil Only Ratings.

**COOLING CAPACITY - With High Efficiency Motor Furnaces**

UNIT MODEL	FURNACE		COIL MODEL <sup>1</sup>	COOLING				
	MODEL	WIDTH		RATED CFM	NET MBH		SEER	EER
					TOTAL	SENS.		
<b>13 SEER AC WITH HIGH EFFICIENCY MOTOR FURNACES<sup>2</sup></b>								
RAC13J304S31(E)	R*L*AE12	14.5	FC/MC/PC32A	970	29.2	21.4	13.20	11.00
	R*L*AE12	14.5	FC/MC/PC37A	1105	30.0	22.9	13.80	11.50
	R*L*BE12	17.5	FC/MC/PC35B	1120	30.0	22.8	14.00	11.50
	R*L*BE12	17.5	FC/MC/PC43B	1125	30.0	22.9	14.00	12.00
	R*L*CE16	21.0	FC/MC/PC35C	1105	30.0	22.8	14.00	12.00
	R*L*CE16	21.0	FC/MC/PC43C	710	28.2	19.3	14.00	12.00
	R*L*CE20	21.0	FC/MC/PC35C	850	28.8	20.6	14.00	12.00
	R*L*CE20	21.0	FC/MC/PC43C	870	29.6	21.2	14.00	12.00
	R*9*BE12	17.5	FC/MC/PC35B	1085	29.8	22.8	14.00	12.00
	R*9*BE12	17.5	FC/MC/PC43B	1095	30.0	22.9	13.80	11.50
	R*9*CE16	21.0	FC/MC/PC35C	1075	29.8	22.4	14.00	12.00
	R*9*CE16	21.0	FC/MC/PC43C	1055	30.0	22.9	14.00	12.00
	R*9*CE20	21.0	FC/MC/PC43C	720	28.2	19.3	14.00	12.00
RAC13J364S31(E)	R*L*AE12	14.5	FC/MC/PC37A	1290	35.2	25.4	13.30	11.25
	R*L*BE12	17.5	FC/MC/PC43B	1300	35.2	25.4	13.30	11.25
	R*L*CE16	21.0	FC/MC/PC43C	1175	35.2	24.8	14.00	11.50
	R*L*CE16	21.0	FC/MC/PC48C	1185	35.6	25.2	14.00	11.50
	R*L*CE16	21.0	UC48C	1185	34.2	24.8	13.50	11.50

For notes see Page 7.

**COOLING CAPACITY - With High Efficiency Motor Furnaces (Continued)**

UNIT MODEL	FURNACE		COIL MODEL <sup>1</sup>	COOLING				
	MODEL	WIDTH		RATED CFM	NET MBH		SEER	EER
					TOTAL	SENS.		
<b>13 SEER AC WITH HIGH EFFICIENCY MOTOR FURNACES<sup>2</sup></b>								
RAC13J364S31(E)	R*L*CE20	21.0	FC/MC/PC43C	1250	35.6	25.6	13.80	11.70
	R*L*CE20	21.0	FC/MC/PC48C	1270	35.8	25.8	14.00	11.50
	R*L*CE20	21.0	UC48C	1300	34.8	25.4	13.50	11.50
	R*9*BE12	17.5	FC/MC/PC43B	1270	35.2	25.4	13.25	11.25
	R*9*CE16	21.0	FC/MC/PC43C	1260	35.4	25.4	13.45	11.40
	R*9*CE16	21.0	FC/MC/PC48C	1280	35.8	25.8	13.70	11.50
	R*9*CE16	21.0	UC48C	1280	34.6	24.8	13.15	11.20
	R*9*CE20	21.0	FC/MC/PC43C	1185	35.0	24.6	13.55	11.40
	R*9*CE20	21.0	FC/MC/PC48C	1205	35.4	25.0	13.70	11.50
	R*9*CE20	21.0	UC48C	1205	34.0	24.6	13.25	11.20
	R*9*DE20	24.5	FC/MC/PC48D	1240	35.4	25.0	13.70	11.50
R*9*DE20	24.5	UC48D	1240	34.0	24.6	13.30	11.25	
RAC13J424S31(E)	R*L*BE12	17.5	FC/MC/PC43B	1300	41.5	29.4	13.75	11.50
	R*L*CE16	21.0	FC/MC/PC43C	1475	42.0	31.0	14.00	11.75
	R*L*CE16	21.0	FC/MC/PC48C	1360	42.0	30.2	14.25	12.00
	R*L*CE16	21.0	FC/MC/PC48D	1360	42.0	30.2	14.25	12.00
	R*L*CE16	21.0	FC/MC/PC60D	1360	42.0	30.0	14.00	12.00
	R*L*CE16	21.0	FC/MC62D	1360	42.0	30.8	14.25	12.00
	R*L*CE16	21.0	FC/PC60C	1360	42.0	30.0	14.00	12.00
	R*L*CE16	21.0	FC64D	1360	42.0	31.0	14.50	12.25
	R*L*CE16	21.0	UC48C	1400	42.0	30.2	14.00	12.00
	R*L*CE16	21.0	UC60C	1400	42.0	30.2	13.75	12.00
	R*L*CE20	21.0	FC/MC/PC43C	1415	42.0	30.4	14.00	11.75
	R*L*CE20	21.0	FC/MC/PC48C	1475	42.0	31.0	14.25	12.00
	R*L*CE20	21.0	FC/MC/PC48D	1475	42.0	31.0	14.25	12.00
	R*L*CE20	21.0	FC/MC/PC60D	1485	42.0	31.0	14.00	12.00
	R*L*CE20	21.0	FC/MC62D	1485	42.0	31.6	14.25	12.00
	R*L*CE20	21.0	FC/PC60C	1485	42.0	31.0	14.00	12.00
	R*L*CE20	21.0	FC64D	1485	42.0	31.8	14.50	12.25
	R*L*CE20	21.0	UC48C	1475	42.0	31.0	14.00	12.00
	R*L*CE20	21.0	UC60C	1485	42.0	31.0	13.75	11.75
	R*9*BE12	17.5	FC/MC/PC43B	1270	41.5	29.0	13.50	11.50
	R*9*CE16	21.0	FC/MC/PC43C	1410	42.0	30.2	13.75	11.50
	R*9*CE16	21.0	FC/MC/PC48C	1425	42.0	30.4	13.75	11.75
	R*9*CE16	21.0	FC/MC/PC48D	1425	42.0	30.4	13.75	11.75
	R*9*CE16	21.0	FC/MC/PC60D	1460	42.0	30.0	13.75	11.50
	R*9*CE16	21.0	FC/MC62D	1460	42.0	30.6	13.75	11.75
	R*9*CE16	21.0	FC/PC60C	1460	42.0	30.0	13.75	11.50
	R*9*CE16	21.0	FC64D	1460	42.0	30.8	14.25	12.00
	R*9*CE16	21.0	UC48C	1425	42.0	30.4	13.75	11.75
	R*9*CE16	21.0	UC60C	1460	42.0	30.0	13.50	11.50
	R*9*CE20	21.0	FC/MC/PC43C	1400	42.0	30.4	14.00	11.75
	R*9*CE20	21.0	FC/MC/PC48C	1420	42.0	30.4	14.00	11.75
	R*9*CE20	21.0	FC/MC/PC48D	1420	42.0	30.4	14.00	11.75
	R*9*CE20	21.0	FC/MC/PC60D	1460	42.0	30.2	13.75	11.75
R*9*CE20	21.0	FC/MC62D	1460	42.0	30.8	14.00	11.75	
R*9*CE20	21.0	FC/PC60C	1460	42.0	30.2	13.75	11.75	
R*9*CE20	21.0	FC64D	1460	42.0	30.8	14.50	12.25	
R*9*CE20	21.0	UC48C	1420	42.0	30.4	14.00	11.75	
R*9*CE20	21.0	UC60C	1460	42.0	30.0	13.75	11.75	

For notes see Page 7.

**COOLING CAPACITY - With High Efficiency Motor Furnaces (Continued)**

UNIT MODEL	FURNACE		COIL MODEL <sup>1</sup>	COOLING				
	MODEL	WIDTH		RATED CFM	NET MBH		SEER	EER
					TOTAL	SENS.		
<b>13 SEER AC WITH HIGH EFFICIENCY MOTOR FURNACES<sup>2</sup></b>								
RAC13J424S31(E)	R*9*DE20	24.5	FC/MC/PC48D	1435	42.0	30.4	14.00	12.00
	R*9*DE20	24.5	FC/MC/PC60D	1515	42.0	31.0	14.00	12.00
	R*9*DE20	24.5	FC/MC62D	1425	42.0	30.8	14.00	12.00
	R*9*DE20	24.5	FC64D	1425	42.0	30.8	14.50	12.25
	R*9*DE20	24.5	UC48D	1435	42.0	30.0	14.00	12.00
	R*9*DE20	24.5	UC60D	1515	42.0	31.4	13.75	12.00
RAC13J484S31(E)	R*L*CE16	21.0	FC/MC/PC48C	1600	48.0	34.4	13.30	11.00
	R*L*CE16	21.0	FC/PC60C	1605	48.0	34.6	13.30	11.00
	R*L*CE20	21.0	FC/MC/PC48C	1660	48.0	34.4	13.20	11.00
	R*L*CE20	21.0	FC/MC/PC60D	1595	48.0	34.8	13.30	11.00
	R*9*CE16	21.0	FC/MC/PC48C	1565	48.0	34.8	13.10	11.00
	R*9*CE16	21.0	FC/PC60C	1575	47.0	34.6	13.10	11.00
	R*9*CE16	21.0	UC60C	1575	47.0	34.6	13.10	11.00
	R*9*CE20	21.0	FC/MC/PC48C	1615	48.0	34.4	13.20	11.00
	R*9*CE20	21.0	FC/PC60C	1625	47.0	34.6	13.10	11.00
	R*9*CE20	21.0	UC60C	1625	47.0	34.6	13.10	11.00
	R*9*DE20	24.5	FC/MC/PC48D	1635	48.0	34.8	13.20	11.00
	R*9*DE20	24.5	FC/MC/PC60D	1490	47.5	33.8	13.20	11.00

1. MC coils available with a factory installed horizontal drain pan. See price pages for specific model number.

2. High Efficiency Motor Furnaces have B.O.D (Blower on Delay) standard.

PSC furnaces, such as the RGF1L\*P and RGF19\*P, use Coil Only Ratings.

**ACCESSORIES**

Refer to Price Manual for specific model numbers.

**Off Cycle Timer Delay** - Provides a 5-minute off cycle to prevent rapid recycling of the compressor.

**TXV Kits** - S1-1TVM series thermal expansion valves precisely meter refrigerant for optimum performance over a wide range of conditions. See System Charge table for TXV part number for each model.

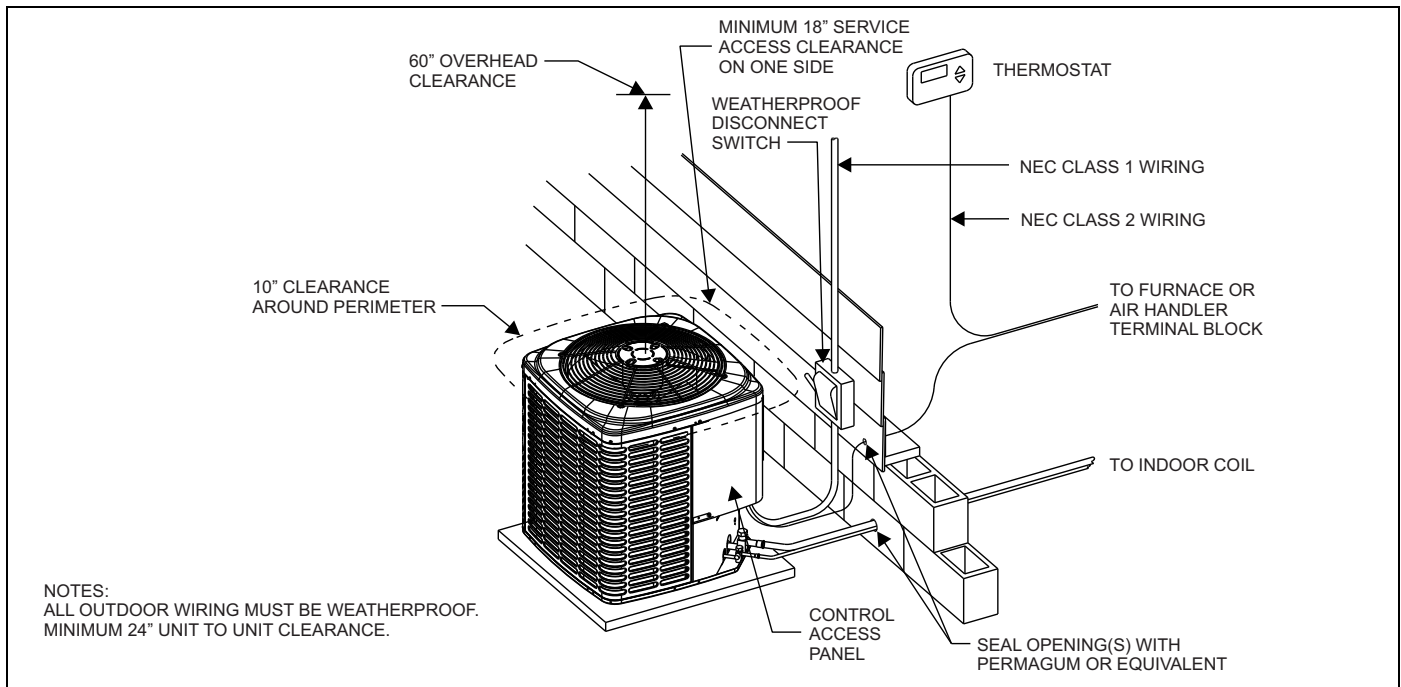
**Thermostats** - Compatible thermostat controls are available through accessory sourcing. For optimum performance and installation, refer to the UPGNET "Low Voltage Wiring Diagram" document to select and apply controls.

**SOUND POWER LEVEL - TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)**

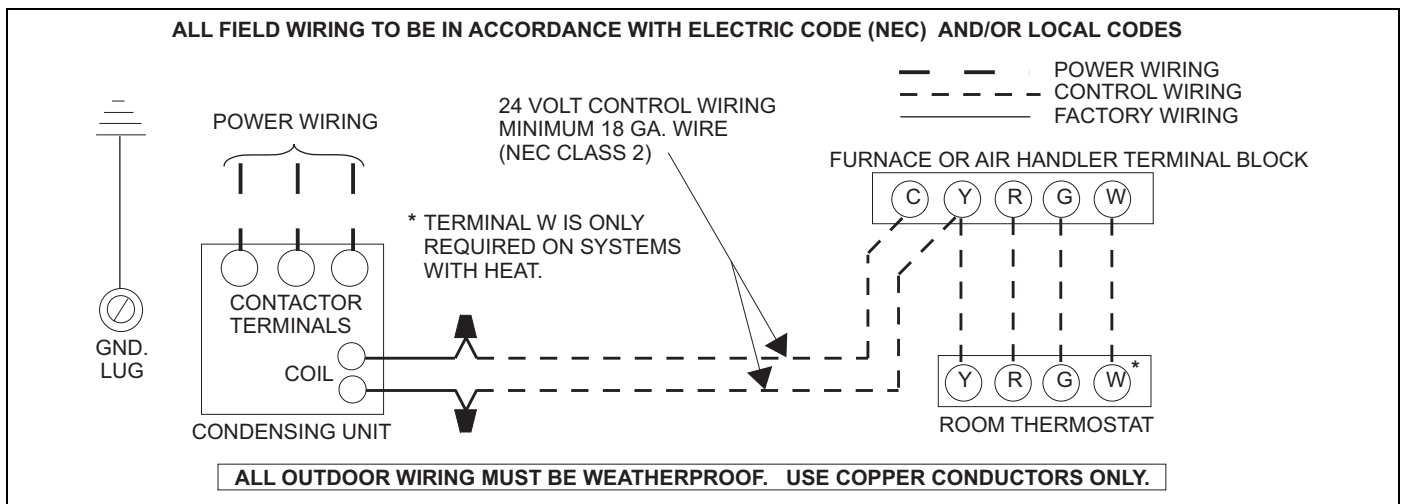
Models	Octave Band Sound Power Level (db re. 1-pW)								dBA	SQI
	63	125	250	500	1000	2000	4000	8000		
RAC13J304S31(E)	72	73	70	68	68	65	60	53	73	19.2
RAC13J364S31(E)	73	73	69	70	72	68	67	62	76	19.0
RAC13J424S31(E)	72	78	68	68	71	67	61	59	75	19.0
RAC13J484S31(E)	73	75	70	69	73	68	60	60	76	19.0
RAC13J604S31(E)	69	72	71	70	72	66	60	56	74	19.1

Rated in accordance with ARI Standard 270.

**TYPICAL INSTALLATION**



**TYPICAL FIELD WIRING**





<b>COOLING PERFORMANCE DATA</b>																
<b>AIR CONDITIONER MODEL NO.</b>		<b>RAC13J304S31(E)</b>														
<b>INDOOR COIL MODEL NO.</b>		<b>FC/MC/PC32</b>														
<b>CONDENSING ENTERING AIR TEMPERATURE</b>	<b>IDCFM</b>	<b>800</b>					<b>1000</b>					<b>1200</b>				
	<b>ID DB (°F)</b>	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	<b>ID WB (°F)</b>	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	30.2	33.4	32.8	35.2	36.5	31.7	33.9	33.4	35.5	36.7	33.2	34.3	34.1	35.9	36.9
	S.C.	28.9	26.3	22.1	21.6	16.3	30.3	29.5	24.0	23.0	17.4	31.8	32.6	25.9	24.4	18.5
	KW	2.18	2.20	2.20	2.21	2.23	2.27	2.28	2.29	2.42	2.32	2.37	2.36	2.38	2.63	2.41
75	T.C.	28.0	30.7	30.0	32.9	34.7	29.7	31.5	30.7	33.3	34.8	31.3	32.4	31.5	33.8	35.0
	S.C.	26.9	25.2	20.9	20.7	15.6	28.4	27.6	23.0	22.4	16.7	30.0	30.1	25.1	24.1	17.8
	KW	2.36	2.37	2.37	2.40	2.43	2.46	2.47	2.47	2.49	2.53	2.56	2.56	2.56	2.58	2.62
85	T.C.	25.9	28.0	27.2	30.6	32.8	27.7	29.2	28.0	31.2	33.0	29.5	30.5	28.8	31.7	33.1
	S.C.	24.8	24.0	19.8	19.8	15.0	26.5	25.8	22.0	21.8	16.1	28.2	27.5	24.3	23.8	17.1
	KW	2.54	2.54	2.54	2.59	2.64	2.65	2.65	2.64	2.56	2.73	2.76	2.75	2.74	2.54	2.83
95	T.C.	23.8	25.3	24.5	28.3	31.0	25.7	26.9	25.3	29.0	31.1	27.6	28.6	26.2	29.7	31.3
	S.C.	22.8	22.9	18.6	18.9	14.4	24.6	23.9	21.0	21.2	15.4	26.5	25.0	23.5	23.5	16.5
	KW	2.72	2.72	2.71	2.78	2.84	2.84	2.83	2.81	2.64	2.94	2.95	2.94	2.92	2.49	3.04
105	T.C.	21.8	23.1	21.7	25.2	27.9	23.4	24.6	22.6	25.8	28.0	25.0	26.1	23.5	26.4	28.1
	S.C.	20.9	21.1	17.4	17.7	13.4	22.4	22.2	19.3	19.3	14.5	24.0	23.3	21.3	20.8	15.7
	KW	2.91	3.02	2.88	2.96	3.04	3.03	3.08	2.99	2.90	3.14	3.15	3.14	3.10	2.84	3.24
115	T.C.	19.8	21.1	19.1	22.2	25.0	21.2	22.4	19.9	22.7	25.0	22.6	23.6	20.8	23.2	25.0
	S.C.	19.0	19.3	16.2	16.7	12.5	20.3	20.5	17.7	17.4	13.7	21.6	21.6	19.2	18.2	14.9
	KW	3.10	3.31	3.05	3.14	3.23	3.22	3.33	3.17	3.16	3.33	3.34	3.34	3.29	3.18	3.43
125	T.C.	17.8	19.0	16.4	19.2	22.0	19.0	20.1	17.3	19.6	22.0	20.1	21.2	18.2	20.0	22.0
	S.C.	17.1	17.5	15.1	15.6	11.6	18.2	18.7	16.1	15.6	12.9	19.2	20.0	17.1	15.6	14.2
	KW	3.28	3.61	3.22	3.31	3.42	3.41	3.57	3.34	3.42	3.52	3.53	3.54	3.47	3.53	3.63

**NOTE:** ALL CAPACITIES INCLUDE INDOOR FAN HEAT. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

**NOTE:** For dry bulb temperatures different than those listed (between 73-87 °F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

<b>Air Handlers</b>	<b>Coils</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
–	FC/MC/PC32	1.00	1.00	1.00
–	FC/MC/PC35	1.00	1.00	1.00
–	FC/MC/PC37	1.00	1.00	1.00
–	FC/MC/PC43	1.00	1.00	1.00
RFCX30BE	–	1.01	1.02	0.95
RFCX36CE	–	1.04	1.05	0.94
RFCX30BP	–	1.01	1.06	1.01
RFCX36BP	–	1.03	1.05	1.03
MX12B	FC/MC35B	1.03	1.08	0.95
MX12B	FC/MC43B	1.05	1.10	0.94
MX16C	FC/MC35C	1.03	1.06	0.91
MX16C	FC/MC43C	1.04	1.04	0.92

<b>Furnaces</b>	<b>Coils</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
R*L*AE12	FC/MC/PC32A	1.01	1.02	1.01
R*L*AE12	FC/MC/PC37A	1.03	1.09	0.99
R*L*BE12	FC/MC/PC35B	1.03	1.09	0.99
R*L*BE12	FC/MC/PC43B	1.03	1.09	0.95
R*L*CE16	FC/MC/PC35C	1.03	1.09	0.95
R*L*CE16	FC/MC/PC43C	0.97	0.92	0.89
R*L*CE20	FC/MC/PC35C	0.99	0.98	0.91
R*L*CE20	FC/MC/PC43C	1.02	1.01	0.94
R*9*BE12	FC/MC/PC35B	1.03	1.09	0.94
R*9*BE12	FC/MC/PC43B	1.03	1.09	0.99
R*9*CE16	FC/MC/PC35C	1.03	1.07	0.94
R*9*CE16	FC/MC/PC43C	1.03	1.09	0.95
R*9*CE20	FC/MC/PC43C	0.97	0.92	0.89

<b>COOLING PERFORMANCE DATA</b>																
<b>AIR CONDITIONER MODEL NO.</b>		<b>RAC13J364S31(E)</b>														
<b>INDOOR COIL MODEL NO.</b>		<b>FC/MC/PC37</b>														
<b>CONDENSING ENTERING AIR TEMPERATURE</b>	<b>IDCFM</b>	1000					1200					1400				
	<b>ID DB (°F)</b>	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	<b>ID WB (°F)</b>	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	35.3	37.4	37.0	39.3	40.4	36.3	38.1	37.4	39.7	40.2	37.3	38.8	37.8	40.1	40.1
	S.C.	33.1	29.8	25.3	24.2	18.1	34.1	31.8	26.8	25.2	18.5	35.2	33.8	28.3	26.1	18.9
	KW	2.40	2.42	2.41	2.44	2.44	2.49	2.50	2.50	2.53	2.53	2.58	2.58	2.60	2.61	2.63
75	T.C.	33.8	35.6	35.1	37.7	39.3	34.9	36.4	35.6	38.1	39.3	36.1	37.2	36.1	38.5	39.3
	S.C.	31.7	29.4	24.8	23.9	17.9	32.9	31.4	26.5	25.1	18.5	34.1	33.3	28.2	26.3	19.1
	KW	2.61	2.63	2.62	2.66	2.67	2.71	2.72	2.71	2.75	2.77	2.80	2.80	2.80	2.83	2.86
85	T.C.	32.4	33.8	33.3	36.2	38.1	33.6	34.7	33.8	36.6	38.3	34.8	35.6	34.4	37.0	38.4
	S.C.	30.4	29.0	24.3	23.5	17.7	31.7	30.9	26.1	25.0	18.5	33.0	32.8	28.0	26.5	19.3
	KW	2.82	2.84	2.84	2.88	2.91	2.92	2.93	2.92	2.96	3.00	3.02	3.03	3.01	3.05	3.09
95	T.C.	31.0	32.0	31.5	34.6	37.0	32.3	33.0	32.1	35.0	37.3	33.6	34.0	32.7	35.4	37.6
	S.C.	29.0	28.6	23.7	23.1	17.5	30.5	30.5	25.8	24.9	18.5	31.9	32.3	27.9	26.6	19.5
	KW	3.04	3.05	3.05	3.09	3.14	3.14	3.15	3.13	3.18	3.23	3.24	3.25	3.22	3.27	3.32
105	T.C.	28.0	28.9	27.8	31.1	34.3	28.9	29.9	28.5	31.6	34.6	29.9	30.9	29.2	32.0	34.9
	S.C.	26.3	26.2	22.0	21.9	16.6	27.4	27.8	23.8	23.8	17.7	28.5	29.4	25.6	25.7	18.9
	KW	3.25	3.25	3.23	3.30	3.37	3.36	3.36	3.33	3.39	3.47	3.47	3.47	3.43	3.49	3.56
115	T.C.	25.0	25.9	24.3	27.8	31.7	25.7	26.9	25.1	28.2	32.0	26.4	27.9	25.9	28.7	32.3
	S.C.	23.7	23.9	20.3	20.8	15.8	24.4	25.2	21.8	22.8	17.0	25.2	26.6	23.4	24.7	18.3
	KW	3.45	3.46	3.42	3.50	3.60	3.57	3.57	3.52	3.60	3.70	3.68	3.69	3.63	3.70	3.79
125	T.C.	22.1	22.9	20.7	24.4	29.0	22.5	23.9	21.7	24.9	29.3	22.9	24.9	22.6	25.4	29.6
	S.C.	21.1	21.5	18.6	19.7	15.0	21.5	22.7	19.9	21.7	16.3	21.9	23.8	21.1	23.8	17.7
	KW	3.65	3.66	3.60	3.70	3.83	3.78	3.78	3.71	3.80	3.93	3.90	3.91	3.83	3.91	4.03

**NOTE:** ALL CAPACITIES INCLUDE INDOOR FAN HEAT. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

**NOTE:** For dry bulb temperatures different than those listed (between 73-87 °F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

<b>Air Handlers</b>	<b>Coils</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
-	FC/MC/PC37	1.00	1.00	1.00
-	FC/MC/PC43	1.00	1.00	1.00
-	FC/MC/PC48	1.00	1.00	1.00
-	UC48	1.00	1.00	1.00
RFCX36CE	-	1.02	1.02	0.93
RFCX42DE	-	1.02	1.04	0.92
RFCX36BP	-	0.99	0.99	0.99
RFCX42CP	-	1.02	1.02	0.99
MX12B	FC/MC43B	1.01	1.02	0.95
MX12D	FC/MC48D	1.03	1.03	0.92
MX16C	FC/MC43C	1.01	1.01	0.91
MX16C	FC/MC48C	1.03	1.03	0.91

<b>Furnaces</b>	<b>Coils</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
R*L*AE12	FC/MC/PC37A	1.01	1.02	0.98
R*L*BE12	FC/MC/PC43B	1.01	1.02	0.98
R*L*CE16	FC/MC/PC43C	1.01	1.00	0.96
R*L*CE16	FC/MC/PC48C	1.02	1.02	0.97
R*L*CE16	UC48C	0.98	1.00	0.93
R*L*CE20	FC/MC/PC43C	1.02	1.03	0.96
R*L*CE20	FC/MC/PC48C	1.02	1.04	0.98
R*L*CE20	UC48C	0.99	1.02	0.95
R*9*BE12	FC/MC/PC43B	1.01	1.02	0.98
R*9*CE16	FC/MC/PC43C	1.01	1.02	0.98
R*9*CE16	FC/MC/PC48C	1.02	1.04	0.98
R*9*CE16	UC48C	0.99	1.00	0.97
R*9*CE20	FC/MC/PC43C	1.00	0.99	0.96
R*9*CE20	FC/MC/PC48C	1.01	1.01	0.97
R*9*CE20	UC48C	0.97	0.99	0.95
R*9*DE20	FC/MC/PC48D	1.01	1.01	0.97
R*9*DE20	UC48D	0.97	0.99	0.95

<b>COOLING PERFORMANCE DATA</b>																
<b>AIR CONDITIONER MODEL NO.</b>		<b>RAC13J424S31(E)</b>														
<b>INDOOR COIL MODEL NO.</b>		<b>FC/MC/PC43</b>														
<b>CONDENSING ENTERING AIR TEMPERATURE</b>	<b>IDCFM</b>	1200					1400					1600				
	<b>ID DB (°F)</b>	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	<b>ID WB (°F)</b>	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	41.8	43.9	43.7	47.2	49.9	43.3	45.0	44.7	47.9	50.9	44.7	46.0	45.7	48.5	51.9
	S.C.	41.6	36.4	30.9	29.8	23.8	43.0	38.5	32.5	31.0	24.2	44.3	40.7	34.0	32.2	24.5
	KW	2.79	2.81	2.82	2.82	2.85	2.80	2.82	2.82	2.83	2.85	2.80	2.83	2.82	2.84	2.86
75	T.C.	39.8	41.2	41.3	45.1	48.2	41.4	42.3	42.2	45.7	49.0	42.9	43.3	43.2	46.4	49.8
	S.C.	39.5	35.2	29.8	29.1	23.1	41.0	37.4	31.6	30.6	23.8	42.5	39.7	33.5	32.1	24.5
	KW	3.08	3.10	3.10	3.13	3.17	3.10	3.11	3.11	3.14	3.18	3.12	3.13	3.12	3.15	3.19
85	T.C.	37.8	38.6	38.8	43.0	46.5	39.4	39.6	39.7	43.6	47.1	41.0	40.6	40.7	44.3	47.7
	S.C.	37.5	34.1	28.7	28.4	22.4	39.1	36.4	30.8	30.2	23.4	40.7	38.7	32.9	32.0	24.5
	KW	3.38	3.39	3.39	3.44	3.50	3.41	3.41	3.41	3.46	3.51	3.43	3.42	3.42	3.47	3.52
95	T.C.	35.8	35.9	36.3	40.9	44.8	37.5	36.9	37.3	41.5	45.2	39.2	37.9	38.2	42.1	45.6
	S.C.	35.4	33.0	27.6	27.7	21.7	37.1	35.3	30.0	29.8	23.0	38.8	37.6	32.3	31.9	24.4
	KW	3.67	3.68	3.68	3.76	3.82	3.71	3.70	3.70	3.77	3.83	3.75	3.72	3.72	3.79	3.84
105	T.C.	33.1	33.1	32.6	37.0	41.6	34.7	34.2	33.5	37.6	42.0	36.3	35.4	34.4	38.2	42.4
	S.C.	32.7	31.0	26.3	26.4	20.7	34.3	33.1	28.4	28.6	22.1	35.9	35.2	30.5	30.8	23.5
	KW	3.98	3.98	3.96	4.05	4.14	4.02	4.01	3.98	4.07	4.16	4.06	4.05	4.01	4.09	4.18
115	T.C.	30.5	30.2	28.9	33.3	38.4	32.0	31.6	29.8	33.8	38.8	33.4	33.0	30.8	34.4	39.3
	S.C.	30.2	29.1	25.0	25.1	19.8	31.6	30.9	26.8	27.4	21.3	33.1	32.7	28.7	29.6	22.7
	KW	4.27	4.27	4.22	4.33	4.45	4.32	4.31	4.26	4.36	4.48	4.37	4.36	4.29	4.39	4.51
125	T.C.	27.9	27.4	25.2	29.5	35.2	29.2	29.0	26.2	30.0	35.7	30.6	30.5	27.1	30.5	36.2
	S.C.	27.6	27.3	23.7	23.8	18.9	28.9	28.8	25.3	26.2	20.4	30.3	30.3	26.9	28.5	21.8
	KW	4.57	4.56	4.49	4.62	4.77	4.62	4.62	4.53	4.65	4.80	4.67	4.67	4.57	4.68	4.84

**NOTE:** ALL CAPACITIES INCLUDE INDOOR FAN HEAT. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

**NOTE:** For dry bulb temperatures different than those listed (between 73-87 °F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

<b>Air Handlers</b>	<b>Coils</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
–	FC/MC/PC43	1.00	1.00	1.00
–	FC/MC/PC48	1.01	1.01	1.01
–	FC/MC/PC60	1.00	0.99	1.00
–	FC/MC62	1.01	1.02	1.01
–	FC64	1.01	1.03	0.99
–	UC48	1.01	1.01	1.01
RFCX42DE	–	1.01	1.03	0.93
RFCX48DE	–	1.01	1.02	0.93
RFCX60DE	–	1.01	1.04	0.93
RFCX42CP	–	1.01	1.03	1.01
RFCX48DP	–	0.99	0.97	0.99
RFCX60DP	–	1.01	1.01	1.01
MX16C	FC/MC43C	1.01	1.01	0.93
MX16C	FC/MC48C	1.01	1.01	0.93
MX16C	FC60C	1.01	1.01	0.93
MX20D	FC/MC48D	1.01	1.01	0.93
MX20D	FC/MC60D	1.01	1.03	0.93
MX20D	FC/MC62D	1.01	1.06	0.91
MX20D	FC64D	1.01	1.06	0.89

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Furnaces	Coils	T.C.	S.C.	KW
R*L*BE12	FC/MC/PC43B	1.00	0.99	0.96
R*L*CE16	FC/MC/PC43C	1.01	1.04	0.95
R*L*CE16	FC/MC/PC48C	1.01	1.01	0.93
R*L*CE16	FC/MC/PC48D	1.01	1.01	0.93
R*L*CE16	FC/MC/PC60D	1.01	1.01	0.93
R*L*CE16	FC/MC62D	1.01	1.03	0.93
R*L*CE16	FC/PC60C	1.01	1.01	0.93
R*L*CE16	FC64D	1.01	1.04	0.91
R*L*CE16	UC48C	1.01	1.01	0.93
R*L*CE16	UC60C	1.01	1.01	0.93
R*L*CE20	FC/MC/PC43C	1.01	1.02	0.95
R*L*CE20	FC/MC/PC48C	1.01	1.04	0.93
R*L*CE20	FC/MC/PC48D	1.01	1.04	0.93
R*L*CE20	FC/MC/PC60D	1.01	1.04	0.93
R*L*CE20	FC/MC62D	1.01	1.06	0.93
R*L*CE20	FC/PC60C	1.01	1.04	0.93
R*L*CE20	FC64D	1.01	1.07	0.91
R*L*CE20	UC48C	1.01	1.04	0.93
R*L*CE20	UC60C	1.01	1.04	0.95
R*9*BE12	FC/MC/PC43B	1.00	0.97	0.96
R*9*CE16	FC/MC/PC43C	1.01	1.01	0.97
R*9*CE16	FC/MC/PC48C	1.01	1.02	0.95

Furnaces	Coils	T.C.	S.C.	KW
R*9*CE16	FC/MC/PC48D	1.01	1.02	0.95
R*9*CE16	FC/MC/PC60D	1.01	1.01	0.97
R*9*CE16	FC/MC62D	1.01	1.03	0.95
R*9*CE16	FC/PC60C	1.01	1.01	0.97
R*9*CE16	FC64D	1.01	1.03	0.93
R*9*CE16	UC48C	1.01	1.02	0.95
R*9*CE16	UC60C	1.01	1.01	0.97
R*9*CE20	FC/MC/PC43C	1.01	1.02	0.95
R*9*CE20	FC/MC/PC48C	1.01	1.02	0.95
R*9*CE20	FC/MC/PC48D	1.01	1.02	0.95
R*9*CE20	FC/MC/PC60D	1.01	1.01	0.95
R*9*CE20	FC/MC62D	1.01	1.03	0.95
R*9*CE20	FC/PC60C	1.01	1.01	0.95
R*9*CE20	FC64D	1.01	1.03	0.91
R*9*CE20	UC48C	1.01	1.02	0.95
R*9*CE20	UC60C	1.01	1.01	0.95
R*9*DE20	FC/MC/PC48D	1.01	1.02	0.93
R*9*DE20	FC/MC/PC60D	1.01	1.04	0.93
R*9*DE20	FC/MC62D	1.01	1.03	0.93
R*9*DE20	FC64D	1.01	1.03	0.91
R*9*DE20	UC48D	1.01	1.01	0.93
R*9*DE20	UC60D	1.01	1.05	0.93

<b>COOLING PERFORMANCE DATA</b>																
<b>AIR CONDITIONER MODEL NO.</b>		<b>RAC13J484S31(E)</b>														
<b>INDOOR COIL MODEL NO.</b>		<b>FC/MC/PC48</b>														
<b>CONDENSING ENTERING AIR TEMPERATURE</b>	<b>IDCFM</b>	1400					1600					1800				
	<b>ID DB (°F)</b>	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	<b>ID WB (°F)</b>	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	49.7	51.4	50.5	55.8	54.6	52.0	53.1	51.9	56.3	55.4	54.4	54.7	53.2	56.9	56.3
	S.C.	46.9	42.8	35.7	35.7	25.9	48.8	45.6	37.9	37.1	27.3	50.8	48.3	40.1	38.5	28.8
	KW	3.36	3.41	3.42	3.45	3.50	3.38	3.42	3.43	3.46	3.52	3.41	3.43	3.45	3.47	3.53
75	T.C.	47.5	48.6	47.7	52.8	52.3	49.8	50.3	48.9	53.6	53.1	52.0	52.1	50.1	54.3	53.8
	S.C.	44.6	41.7	34.7	34.6	25.2	46.6	44.5	36.9	36.3	26.6	48.6	47.2	39.0	37.9	27.9
	KW	3.65	3.68	3.68	3.74	3.82	3.67	3.70	3.70	3.76	3.83	3.70	3.72	3.72	3.77	3.85
85	T.C.	45.4	45.8	44.8	49.9	50.1	47.5	47.6	46.0	50.8	50.7	49.7	49.4	47.1	51.7	51.3
	S.C.	42.3	40.6	33.7	33.5	24.6	44.4	43.4	35.8	35.4	25.8	46.4	46.1	37.9	37.3	27.0
	KW	3.93	3.95	3.95	4.04	4.14	3.97	3.98	3.97	4.06	4.15	4.00	4.01	3.99	4.08	4.17
95	T.C.	43.2	42.9	42.0	46.9	47.9	45.3	44.8	43.0	48.0	48.4	47.3	46.7	44.1	49.1	48.9
	S.C.	40.1	39.6	32.7	32.4	23.9	42.1	42.3	34.8	34.6	25.0	44.2	45.0	36.9	36.7	26.1
	KW	4.22	4.22	4.22	4.34	4.46	4.26	4.26	4.24	4.36	4.47	4.30	4.30	4.27	4.39	4.49
105	T.C.	39.8	39.3	37.3	42.4	43.5	41.6	41.1	38.4	43.4	44.0	43.4	42.8	39.5	44.3	44.5
	S.C.	36.8	36.7	30.7	30.7	22.7	38.6	39.0	32.7	32.8	23.7	40.5	41.2	34.7	34.9	24.8
	KW	4.52	4.52	4.49	4.62	4.77	4.57	4.57	4.52	4.65	4.79	4.61	4.61	4.55	4.67	4.81
115	T.C.	36.4	35.9	32.7	37.9	39.3	38.0	37.5	33.9	38.9	39.7	39.6	39.0	35.1	39.8	40.2
	S.C.	33.6	34.0	28.7	29.0	21.5	35.2	35.7	30.6	31.1	22.5	36.9	37.4	32.5	33.1	23.6
	KW	4.82	4.82	4.76	4.89	5.07	4.87	4.86	4.79	4.92	5.10	4.92	4.91	4.82	4.95	5.13
125	T.C.	33.1	32.4	28.1	33.5	35.0	34.5	33.8	29.4	34.4	35.5	35.9	35.3	30.6	35.2	35.9
	S.C.	30.4	31.2	26.7	27.3	20.3	31.9	32.5	28.5	29.3	21.3	33.3	33.7	30.4	31.3	22.3
	KW	5.11	5.11	5.02	5.17	5.38	5.17	5.16	5.06	5.20	5.41	5.22	5.21	5.09	5.23	5.44

**NOTE:** ALL CAPACITIES INCLUDE INDOOR FAN HEAT. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

#### Multipliers for determining the performance with other indoor sections.

**NOTE:** For dry bulb temperatures different than those listed (between 73-87 °F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

<b>Air Handlers</b>	<b>Coils</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
-	FC/MC/PC48	1.00	1.00	1.00
-	FC/MC/PC60	1.00	1.00	1.00
-	UC48	1.00	1.00	1.00
-	UC60	1.00	1.00	1.00
RFCX48DE	-	0.98	1.01	0.94
RFCX48DP	-	1.00	1.01	1.00
MX16C	FC/MC48C	1.01	1.03	0.97
MX20D	FC/MC48D	1.00	0.99	0.94
MX20D	FC/MC60D	1.01	1.01	0.93

<b>Furnaces</b>	<b>Coils</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
R*L*CE16	FC/MC/PC48C	1.00	1.00	1.00
R*L*CE16	FC/PC60C	1.00	1.01	1.00
R*L*CE20	FC/MC/PC48C	1.00	1.00	1.00
R*L*CE20	FC/MC/PC60D	1.00	1.01	1.00
R*9*CE16	FC/MC/PC48C	1.00	1.01	1.00
R*9*CE16	FC/PC60C	0.98	1.01	0.98
R*9*CE16	UC60C	0.98	1.01	0.98
R*9*CE20	FC/MC/PC48C	1.00	1.00	1.00
R*9*CE20	FC/PC60C	0.98	1.01	0.98
R*9*CE20	UC60C	0.98	1.01	0.98
R*9*DE20	FC/MC/PC48D	1.00	1.01	1.00
R*9*DE20	FC/MC/PC60D	0.99	0.98	0.99

**COOLING PERFORMANCE DATA**

<b>AIR CONDITIONER MODEL NO.</b>		<b>RAC13J604S31(E)</b>														
<b>INDOOR COIL MODEL NO.</b>		<b>FC/MC/PC60</b>														
<b>CONDENSING ENTERING AIR TEMPERATURE</b>	<b>IDCFM</b>	1600					1800					2000				
	<b>ID DB (°F)</b>	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	<b>ID WB (°F)</b>	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	51.4	54.0	54.3	58.2	61.8	52.3	54.7	54.9	59.1	62.4	53.3	55.5	55.4	60.0	63.1
	S.C.	51.4	44.9	38.8	37.5	30.3	52.3	46.7	40.6	38.6	31.1	53.3	48.6	42.3	39.8	31.8
	KW	3.31	3.33	3.34	3.34	3.41	3.32	3.33	3.35	3.37	3.41	3.33	3.33	3.35	3.40	3.41
75	T.C.	50.5	52.7	52.8	56.9	60.2	51.6	53.5	53.5	57.7	60.8	52.6	54.3	54.1	58.6	61.4
	S.C.	50.5	45.3	38.8	37.5	29.7	51.6	47.2	40.6	38.8	30.6	52.6	49.2	42.4	40.1	31.4
	KW	3.85	3.86	3.87	3.89	3.95	3.86	3.86	3.87	3.91	3.95	3.87	3.87	3.88	3.94	3.96
85	T.C.	49.6	51.5	51.3	55.5	58.5	50.8	52.3	52.1	56.4	59.2	52.0	53.1	52.8	57.2	59.8
	S.C.	49.6	45.7	38.8	37.6	29.1	50.8	47.7	40.7	38.9	30.1	52.0	49.8	42.5	40.3	31.0
	KW	4.38	4.39	4.39	4.44	4.49	4.39	4.40	4.40	4.46	4.50	4.41	4.41	4.41	4.47	4.51
95	T.C.	48.8	50.2	49.8	54.2	56.9	50.0	51.1	50.6	55.0	57.5	51.3	51.9	51.4	55.8	58.2
	S.C.	48.7	46.1	38.8	37.6	28.5	50.0	48.2	40.7	39.1	29.6	51.3	50.4	42.6	40.6	30.6
	KW	4.91	4.92	4.92	4.99	5.03	4.92	4.93	4.93	5.00	5.05	4.94	4.94	4.94	5.01	5.06
105	T.C.	45.2	47.2	45.7	49.9	53.2	46.4	47.7	46.5	50.6	53.7	47.6	48.3	47.3	51.2	54.2
	S.C.	45.1	43.7	37.1	35.8	27.3	46.4	45.4	38.9	37.3	28.4	47.6	47.1	40.7	38.8	29.4
	KW	5.63	5.64	5.63	5.71	5.80	5.66	5.66	5.64	5.73	5.81	5.69	5.69	5.66	5.75	5.82
115	T.C.	41.8	44.2	41.7	45.7	49.7	42.9	44.5	42.5	46.2	50.0	44.0	44.8	43.2	46.8	50.3
	S.C.	41.7	41.4	35.4	34.1	26.2	42.8	42.7	37.1	35.6	27.2	43.9	43.9	38.9	37.1	28.2
	KW	6.34	6.34	6.31	6.40	6.54	6.38	6.38	6.33	6.44	6.55	6.41	6.41	6.35	6.47	6.57
125	T.C.	38.4	41.2	37.8	41.5	46.2	39.3	41.2	38.5	41.9	46.3	40.3	41.2	39.1	42.3	46.5
	S.C.	38.2	39.2	33.6	32.3	25.0	39.2	40.0	35.3	33.8	26.0	40.2	40.8	37.0	35.3	27.0
	KW	7.04	7.04	7.00	7.10	7.27	7.09	7.09	7.02	7.14	7.29	7.14	7.14	7.04	7.18	7.31

**NOTE:** ALL CAPACITIES INCLUDE INDOOR FAN HEAT. KW VALUES ARE FOR THE SYSTEM (OUTDOOR + INDOOR).

**Multipliers for determining the performance with other indoor sections.**

**NOTE:** For dry bulb temperatures different than those listed (between 73-87 °F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

<b>Air Handlers</b>	<b>Coils</b>	<b>T.C.</b>	<b>S.C.</b>	<b>KW</b>
-	FC/MC/PC60	1.00	1.00	1.00
-	FC/MC62	1.01	1.03	1.01
-	FC64	1.05	1.08	1.02
-	UC60	0.97	0.95	1.00
RFCX60DE	-	1.03	1.05	0.98
RFCX60DP	-	1.00	1.00	1.00
MX20D	FC/MC60D	0.99	0.97	0.95
MX20D	FC/MC62D	1.03	1.04	0.96
MX20D	FC64D	1.05	1.05	0.94