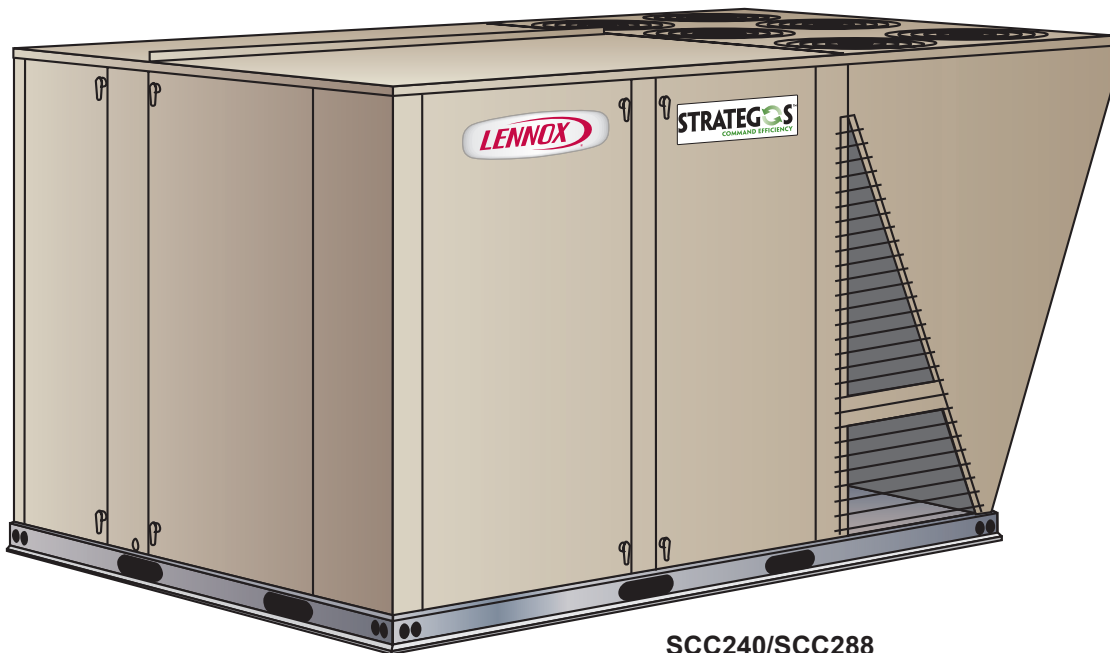


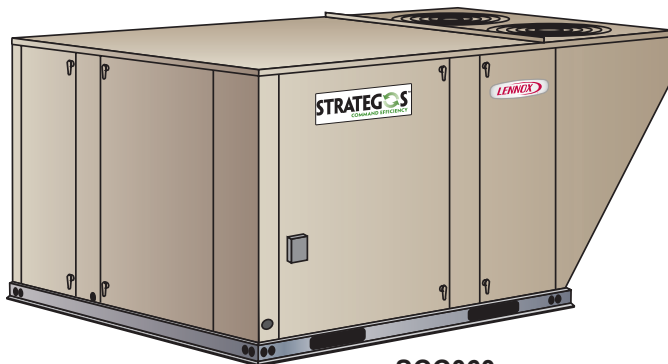


**PRODUCT SPECIFICATIONS**

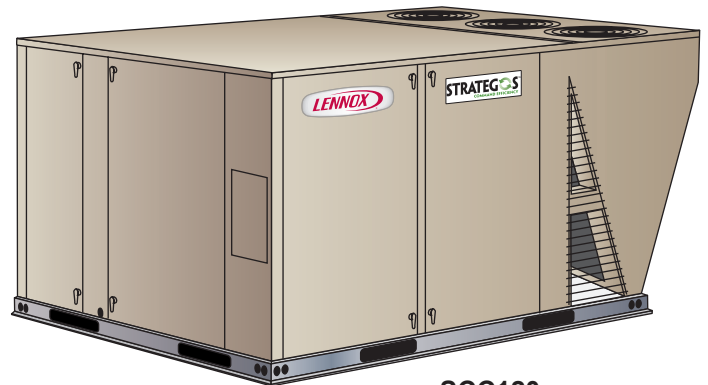
Bulletin No. 210490  
May 2017  
Supersedes October 2014



SCC240/SCC288



SCC060



SCC120



SMARTWIRE™ SYSTEM



**ASHRAE 90.1  
COMPLIANT**

**3 to 24 Tons**  
**Net Cooling Capacity - 36,000 to 288,000 Btuh**  
**Optional Electric Heat - 10 to 90 kW**

## FEATURES AND BENEFITS

Lennox' Strategos® packaged rooftop unit product line was created to save energy with intelligence by offering some of the highest energy efficiency ratings available with a powerful, easy to use unit controller. This makes Strategos® rooftop units perfect for business owners looking for an HVAC product with the lowest total cost of ownership. Strategos® rooftop units feature:

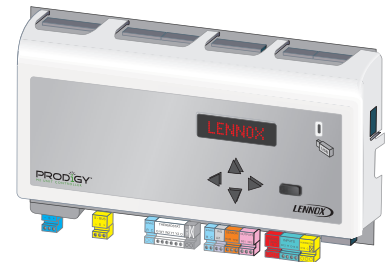
- **Scroll Compressors** - Standard on all units for reliable, long-term operation.
- **Lennox' Environ™ Coil System** - Smaller, lighter condenser coil.
- **Compressor Crankcase Heater** - Protects against refrigerant migration that can occur during low ambient operation. The heater is thermostatically controlled to save energy.
- **Outdoor Coil Fan Motors** - Thermal overload protected, totally enclosed, permanently lubricated ball bearings, shaft up, wire basket mount.
- **Thermal Expansion Valve (TXV)** - Assures optimal performance throughout the application range. Removable element head.
- **Exterior Panels** - Constructed of heavy-gauge, galvanized steel with a two-layer enamel paint finish.
- **Insulation** - All panels adjacent to conditioned air are fully insulated with non-hygroscopic fiberglass insulation. Unit base is fully insulated. The insulation also serves as an air seal to the roof curb, eliminating the need to add a seal during installation.
- **Access Panels** - Hinged access panels are provided for the economizer/filter section, blower section, and compressor/controls/heat section. Hinges are constructed of painted, stainless-steel. All hinged panels have seals and quarter-turn latching handles to provide a tight air and water seal.
- **Corrosion Protection** - Polymeric epoxy coating that is deposited by electrical transport (electrophoresis), using a process known as electrocoat (e-coat). Available for enhanced coil corrosion protection.
- **Select Constant Air Volume or MSAV® (Multi-Stage Air Volume) Supply Fan Option** - On Constant Air Volume (CAV) models (3 and 5 ton models only), the supply fan will provide a constant volume of air. On MSAV (multi-stage air volume) supply fan option models (10, 20 and 24 ton models only), the supply fan will stage the amount of airflow according to compressor stages, heating demand, ventilation demand or smoke alarm.
- **Indoor Air Quality (CO<sub>2</sub>) Sensor** - Monitors CO<sub>2</sub> levels, reports to unit controller which adjusts economizer dampers as needed. MSAV (multi-stage air volume) supply fan option units with an economizer require a CO<sub>2</sub> sensor to modulate the economizer damper and maintain the desired minimum amount of fresh outdoor air.
- **Common Components** - Many maintenance items are standard throughout the entire product line, reducing the need to carry different parts to the job or maintain in inventory.

### Prodigy® Control System

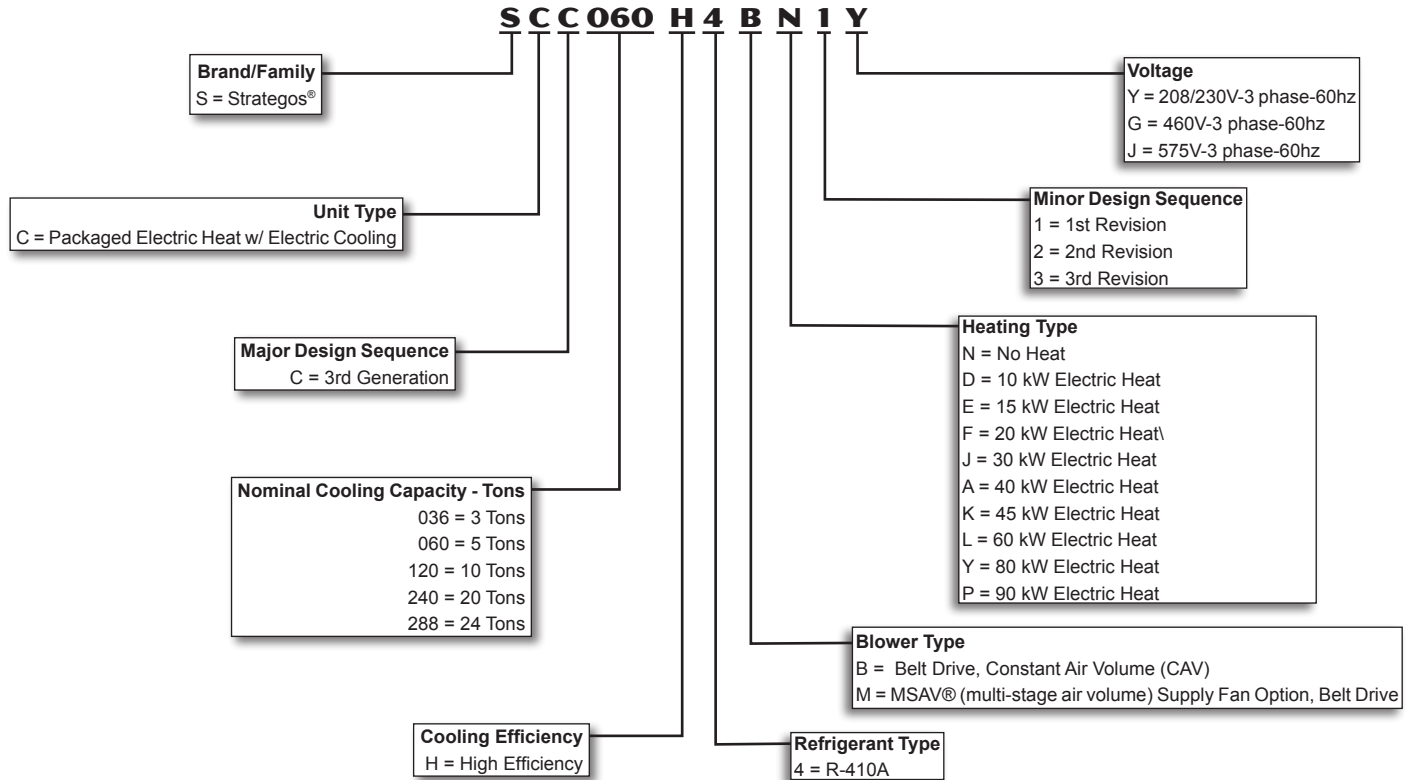
Standard on every Strategos® rooftop unit, the new Prodigy® unit controller is the heart of the Lennox® controls offering. The intuitive user interface makes setup, troubleshooting and service easier than ever. Each unit tracks the runtime of every major component and records the date and time when service or maintenance is performed.

### SmartWire™ System

The SmartWire system simplifies field sensor or thermostat installation through advanced connectors that are keyed and color-coded to help prevent miswiring. Not only is the wire coloring scheme standardized across all models, each connection is intuitively labeled to make troubleshooting and servicing quick and easy.



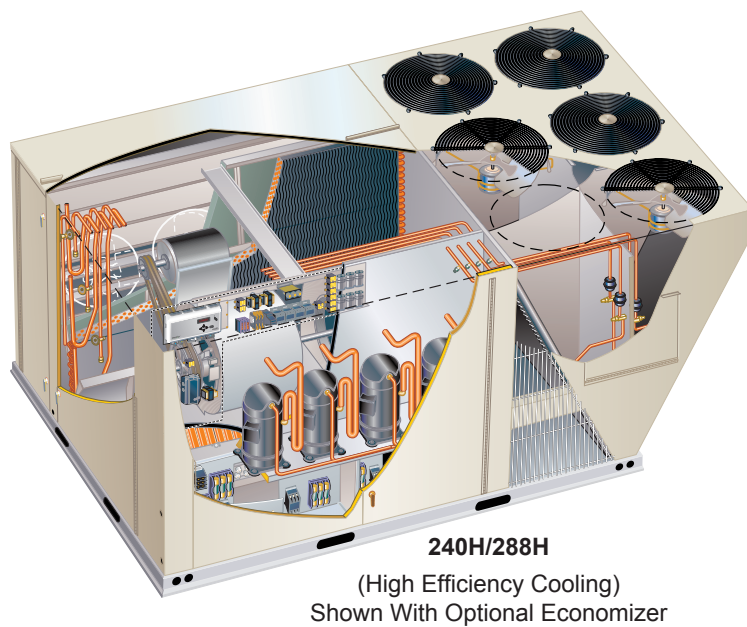
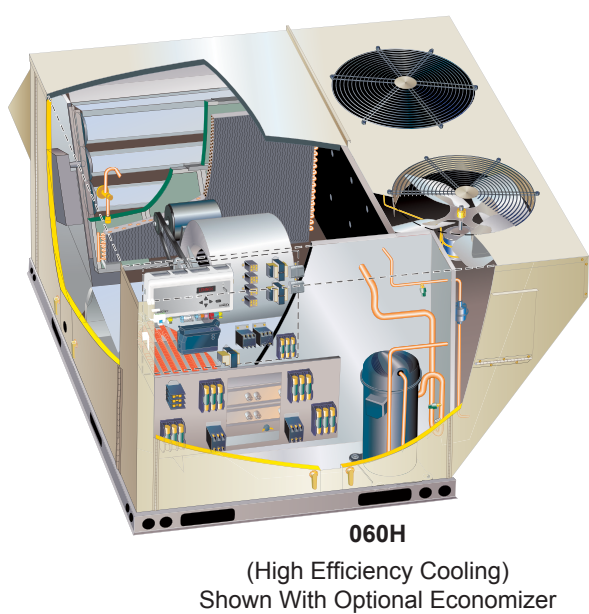
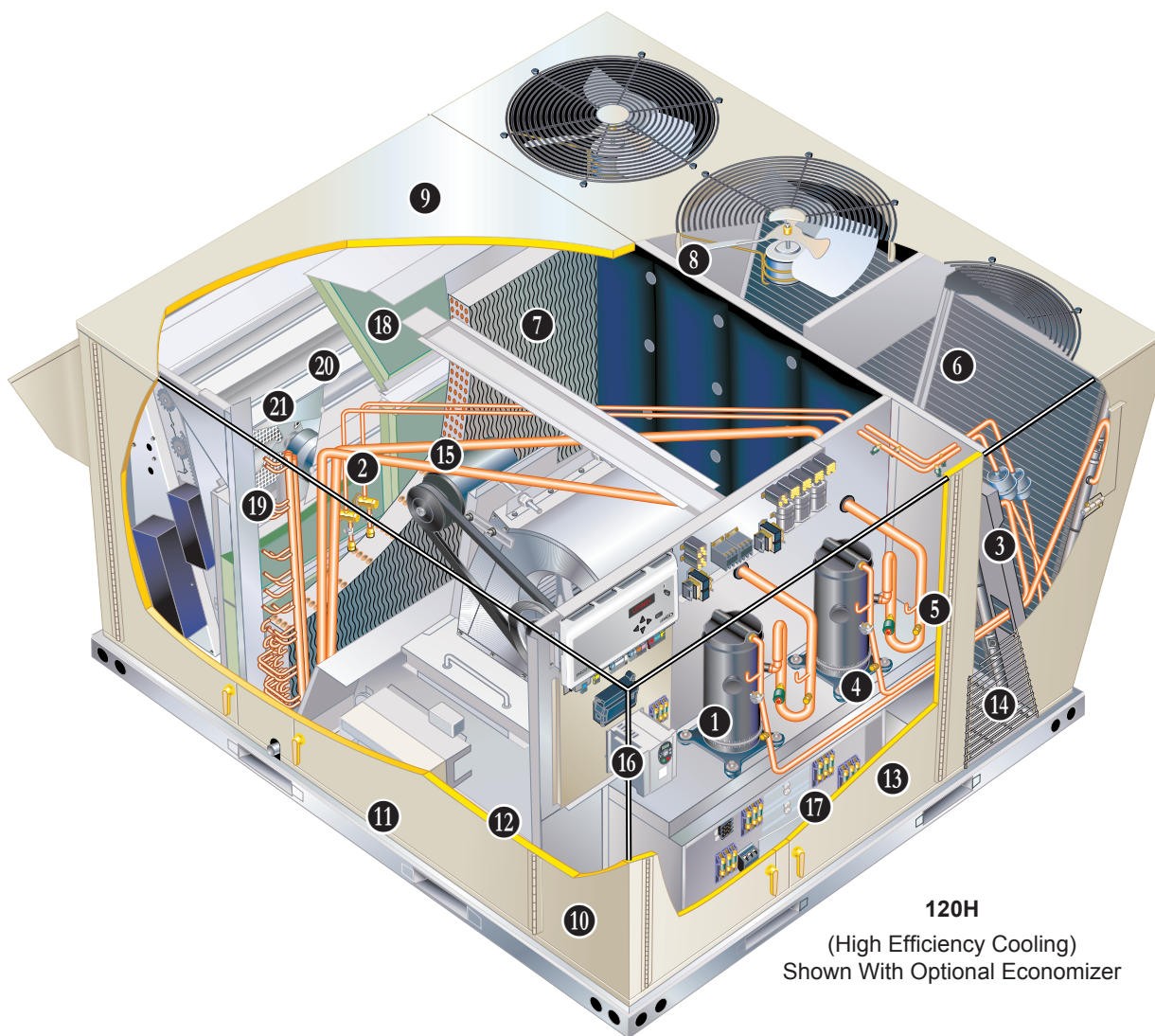
## MODEL NUMBER IDENTIFICATION



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## FEATURES AND BENEFITS



## FEATURES AND BENEFITS

### APPROVALS

AHRI Certified to AHRI Standard 210/240-2008 (3 and 5 ton models) and AHRI Standard 340/360-2007 (10 and 20 ton models).

10, 20 and 24 ton MSAV® (Multi-Stage Air Volume) supply fan option models are rated at test conditions included in AHRI Standard 340/360-2007 while operating at rated voltages and air volumes.

ETL and CSA listed.

Components bonded for grounding to meet safety standards for servicing required by UL, ULC and National and Canadian Electrical Codes.

ENERGY STAR® certified units are designed to use less energy, help save money on utility bills, and help protect the environment.

The ENERGY STAR® Partner of the Year Award signifies that Lennox has made outstanding contributions to design energy efficient units that will lower energy bills, while meeting industry standards for comfort and indoor air quality. Lennox was the first HVAC manufacturer to win this award and has been a four-time recipient since 2003.

### WARRANTY

Limited five years on compressors.

Limited three years on the Lennox' Environ™ Coil System.

Limited three years on Prodigy® Unit Controller.

Limited five years Optional High Performance Economizers.

Limited one year all other covered components.

### COOLING SYSTEM

Designed to maximize sensible and latent cooling performance at design conditions.

System can operate from 0°F to 125°F without any additional controls.

#### 1 Compressor

Resiliently mounted on rubber grommets for quiet operation.

Scroll compressors on all models for high performance, reliability, and quiet operation.

#### Compressor Crankcase Heater

Protects against refrigerant migration that can occur during low ambient operation. The heater is thermostatically controlled to save energy.

#### 2 Thermal Expansion Valve (TXV)

Assures optimal performance throughout the application range. Removable element head.

#### 3 Filter/Drier

Solid core, molecular-sieve, high capacity filter/drier protects the system from dirt and moisture.

#### 4 High Pressure Switch

Protects the compressor from overload conditions such as dirty condenser coils, blocked refrigerant flow, or loss of outdoor fan operation.

#### 5 Low Pressure Switch

Protects the compressor from low pressure conditions such as low refrigerant charge, or low/no air flow.

#### Freezestat

Protects the evaporator coil from damaging ice build-up due to conditions such as low/no air flow, or low/no refrigerant charge.

#### Low Ambient Pressure Switches

Allows unit to cycle a portion of the condenser fan motors based on liquid line pressure enabling reliable cooling operation down to 0°F outdoor ambient.

#### 6 Lennox' Environ™ Coil System

Condenser coil features lightweight, all aluminum brazed fin construction.

Constructed of three components:

a flat extrusion tube, fins in-between the flat extrusion tubes and two refrigerant manifolds.

Environ™ Coil System Features:

- Improved heat transfer performance due to high primary surface area (flat tubes) versus secondary surface (fins).
- Smaller internal volume (reduced refrigerant charge).
- High durability (all aluminum construction).
- Fewer brazed joints.
- Compact design (reduces unit weight).
- Easy maintenance/cleaning.

Face split design.

Mounting brackets with rubber inserts secure coil to unit providing vibration dampening and corrosion protection.

Angled design in cabinet helps protect coil from possible contact or hail damage.

#### 7 Evaporator Coil

Copper tube construction, enhanced rippled-edge aluminum fins, flared shoulder tubing connections, silver soldered construction for improved heat transfer. Factory leak tested.

#### Evaporator Coil

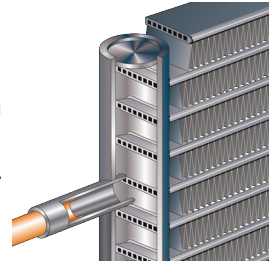
Row split coils on multi-stage air volume models.

Cross row circuiting with rifled copper tubing optimizes both sensible and latent cooling capacity.

#### Condensate Drain Pan

Painted, galvanized pan with positive slope.

Drain connection extends outside unit.



## FEATURES AND BENEFITS

### COOLING SYSTEM (continued)

#### 8 Outdoor Coil Fan Motors

Thermal overload protected, totally enclosed, permanently lubricated ball bearings, shaft up, wire basket mount.

#### Outdoor Coil Fan

PVC coated fan guard furnished.

#### Refrigerant

Non-chlorine, ozone friendly, R-410A.



Unit pre-charged with refrigerant.

### Required Selections

#### Cooling Capacity

Specify nominal cooling capacity of the unit.

### Options/Accessories

#### Factory or Field Installed

#### Condensate Drain Trap (EPDM all sizes, Copper 240/288 only)

Field installed only, may be factory enclosed to ship with unit. Available in copper or EPDM high density rubber material.

#### Drain Pan Overflow Switch

Monitors condensate level in drain pan, shuts down unit if drain becomes clogged.

### CABINET

#### 9 Construction

Heavy-gauge steel panels and full perimeter heavy-gauge galvanized steel base rail provides structural integrity for transportation, handling, and installation.

Base rails have rigging holes. Base rails have fork slots, two sides on the 3 and 5 ton models and three sides on the 10, 20 and 24 ton models.

Raised edges around duct and power entry openings in the bottom of the unit provide additional protection against water entering the building.

#### Airflow

Units are shipped in downflow (vertical) configuration.

#### 10 Power Entry

Electrical lines can be brought through the unit base or through horizontal access knock-outs.

#### 11 Exterior Panels

Constructed of heavy-gauge, galvanized steel with a two-layer enamel paint finish.

#### 12 Insulation

All panels adjacent to conditioned air are fully insulated with non-hygroscopic fiberglass insulation.

Unit base is fully insulated. The insulation also serves as an air seal to the roof curb, eliminating the need to add a seal during installation.

#### 13 Access Panels

Hinged access panels are provided for the economizer/filter section, blower section, and compressor/controls/heat section. Hinges are constructed of painted, stainless-steel.

All hinged panels have seals and quarter-turn latching handles to provide a tight air and water seal.

#### 14 Grille Guards

Protects space between outdoor coils and main cabinet.

### Options/Accessories

#### Factory Installed

#### Corrosion Protection

A completely flexible immersed coating with an electrodeposited dry film process. (AST ElectroFin E-Coat) Meets Mil Spec MIL-P-53084, ASTM B117 Standard Method Salt Spray Testing.

#### Option 1:

- Coated indoor and outdoor coil assemblies (including tube sheets) and painted cabinet interior

#### Option 2:

- Coated outdoor coil assembly (including tube sheets)

#### Field Installed

#### Coil Guards

Painted, galvanized steel wire guards to protect outdoor coil. Not used with Hail Guards.

#### Hail Guards

Constructed of heavy gauge steel, painted to match cabinet, helps protect outdoor coils from hail damage. Not used with Coil Guards.

## FEATURES AND BENEFITS

### **BLOWER**

#### **15 Motor**

Overload protected, equipped with ball bearings.

#### **Supply Air Blower**

Forward curved blades, blower wheel is statically and dynamically balanced.

#### **Blower Proving Switch**

Monitors blower operation, shuts down unit if blower fails.

### **Required Selections**

#### **Select Constant Air Volume or MSAV® (Multi-Stage Air Volume) Supply Fan Option**

On Constant Air Volume (CAV) models (3 and 5 ton models only), the supply fan will provide a constant volume of air.

On MSAV (multi-stage air volume) supply fan option models (10, 20 and 24 ton models only), the supply fan will stage the amount of airflow according to compressor stages, heating demand, ventilation demand or smoke alarm.

Utilizes a variable frequency drive (VFD) to stage the supply fan airflow.

#### **16 The VFD alters the frequency and voltage of the power supply to the blower to control blower speed.**

The amount of airflow for each stage can be set according to an ECTO parameter in the unit controller. Unit is shipped from the factory with preset airflow. See Sequence of Operation for details.

The VFD has an operational range of 0 to 125°F outdoor air ambient temperature.

Lower operating costs are obtained when the blower is operated on lower speeds.

### **ELECTRICAL**

#### **SmartWire™ System**

Advanced wiring connectors are keyed and color-coded to prevent miswiring. Wire coloring scheme is standardized across all models. Each connection is intuitively labeled to make troubleshooting and servicing quick and easy.

#### **Circuit Breakers**

HACR type. For overload and short circuit protection. Factory wired and mounted in the power entry panel.

Current sensitive and temperature activated. Manual reset.

#### **Electrical Plugs**

Positive connection electrical plugs are used to connect common accessories or maintenance parts for easy removal or installation.

### **Required Selections**

#### **Voltage Choice**

Specify when ordering base unit.

### **Options/Accessories**

#### **Factory or Field Installed**

#### **17 Electric Heat**

Helix wound nichrome elements, time delay for element staging, individual element limit controls, wiring harness, may be four-stage controlled in zone sensor mode. All required components are included.

#### **GFI Service Outlets (2)**

115V ground fault circuit interrupter (GFCI) type, non-powered, field-wired (all) or factory-wired and powered (240/288 only).

#### **Field Installed**

#### **GFI Weatherproof Cover**

Single-gang cover.

Heavy-duty UV-resistant polycarbonate case construction.

Hinged base cover with gasket.

### **INDOOR AIR QUALITY**

#### **18 Air Filters**

Pre-painted, galvanized steel filter racks.

Filter racks can be converted to use four inch thick filters.

Disposable 2 inch pleated MERV

7 filters (Minimum Efficiency Reporting Value based on ASHRAE 52.2).

### **Options/Accessories**

#### **Factory Installed**

#### **Healthy Climate® MERV 8 High Efficiency Air Filters (240/288 Only)**

Disposable MERV 8 (Minimum Efficiency

Reporting Value based on ASHRAE 52.2) efficiency 2 inch pleated filters.

#### **Factory or Field Installed**

#### **Healthy Climate® MERV 11 High Efficiency Air Filters (240/288 Only)**

Disposable MERV 11 (Minimum Efficiency Reporting Value based on ASHRAE 52.2) efficiency 2 inch pleated filters.

#### **Field Installed**

#### **Healthy Climate® MERV 15 High Efficiency Air Filters**

Disposable MERV 15 (Minimum Efficiency Reporting Value based on ASHRAE 52.2) efficiency 2 inch pleated filters.

#### **Indoor Air Quality (CO<sub>2</sub>) Sensor**

Monitors CO<sub>2</sub> levels, reports to unit controller which adjusts economizer dampers as needed.

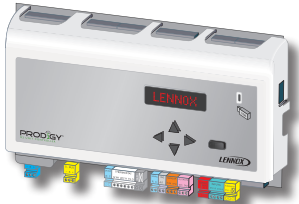
MSAV (multi-stage air volume) supply fan option units with an economizer require a CO<sub>2</sub> sensor to modulate the economizer damper and maintain the desired minimum amount of fresh outdoor air.

CO<sub>2</sub> sensor can be installed in either the occupied zone or the return air duct.

#### **Replacement Filter Media Kit With Frame (240/288 Only)**

Replaces existing pleated filter media. Includes washable metal mesh screen and metal frame with clip for holding replaceable non-pleated filter.

## 19 PRODIGY UNIT CONTROLLER



The Prodigy Unit Controller is a microprocessor-based control board that provides flexible control of all unit functions.

### Prodigy Unit Controller features:

**Scrolling Display** - Scrolls full text instead of numerical codes.

**Push Buttons** - Simplified navigation during setup and diagnostics.

**Guided Setup Procedure** - Insures proper installation and setup of the rooftop unit.

**Profile setup** - Copy key setpoints between units with the same configuration greatly reducing setup time.

**USB Port** - Easily download and transfer unit information via a USB flash drive and also interface with Lennox Unit Controller Software.



**Self Test Mode** - Confirm proper component and system operation.

**Time Clock with Run-time Information**

### Built-In Functions Include:

**Adjustable Blower On/Off Delay**

**Built-In Control Parameter Defaults**

**Compressor Time-Off Delay**

**DDC Compatible**

**Dirty Filter Switch Input**

**Discharge Air Temperature Control**

**Display/Sensor Readout**

**Economizer Control Options** - See Economizer / Outdoor Air / Exhaust Options.

**Fresh Air Tempering**

**Extensive Unit Diagnostics** - Over 100 diagnostic and status messages in English.

**Exhaust Fan Control Modes** - Fresh air damper position.

**Permanent Diagnostic Code Storage**

**Field Changeable Control Setpoints** - Over 200 different control setpoints.

**Indoor Air Quality Input** - Demand Control Ventilation ready

**Low Ambient Controls** - Cooling operation down to 0°F.

**Gas Valve Time Delay Between First and Second Stage**

**Minimum Compressor Run Time**

**Network Capable** - Can be daisy chained to other units or controls.

**Night Setback Mode**

**Return Air Temperature Limit Control**

**Safety Switch Input** - Allows Controller to respond to a external safety switch trip.

**Service Relay Output**

**Smoke Alarm Mode** - Four choices.

**Staging** - up to 2 heat/4 cool (zone sensor or network operation). Up to 2 heat/2 cool (standard Prodigy unit controller thermostat input). Up to 3 cool (thermostat input with additional relay).

**“Strike Three” Protection**

**Thermostat Bounce Delay**

**Warm Up Mode Delay**

**LED Indicators**

**PC Interface** - For use with PC with optional Unit Controller software.

**Zone Sensor Operation** - Controls zone temperature.

### Options/Accessories

#### Factory or Field Installed

**Blower Proving Switch**

Monitors blower operation, shuts down unit if blower fails.

**Dirty Filter Switch**

Senses static pressure increase indicating dirty filter condition.

NOTE - Prodigy Control System features shown vary with the type of rooftop unit the control is installed in.

NOTE - See separate Prodigy Control System Product Specifications Bulletin for additional information.

## Controls Options

### Factory or Field Installed

#### **Fresh Air Tempering**

Used in applications with high outside air requirements. The Controller energizes the first stage heat as needed to maintain a minimum supply air temperature for comfort, regardless of the thermostat demand. When ordered as a factory option, the sensor ships with the unit but must be field installed.

#### **Smoke Detector**

Photoelectric type, installed in supply air section, return air section or both sections. Available with power board and single sensor (supply or return) or power board and two sensors (supply and return). Power board located in unit control compartment.

#### **Interoperability via BACnet® or LonTalk® Protocols**

Communication compatible with third-party automation systems that support the BACnet Application Specific Controller device profile, LonMark® Space Comfort Controller functional profile, or LonMark Discharge Air Controller functional profile.

### Commercial Control Systems

#### **L Connection® Network Control System**

Complete building automation control system for single or multi-zone applications. Options include local interface, software for local or remote communication, and hardware for networking other control functions. See L Connection Network Control System Product Specifications Bulletin for details.

#### **Aftermarket DDC**

Novar® Unit Controller and options.

#### **Thermostats**

Control system and thermostat options. Aftermarket unit controller options.

### Field Installed

#### **Humidity Sensor Kit**

Humidity sensor required with Supermarket reheat field selectable option.

**20 ECONOMIZER OPTIONS**

Economizer operation is set and controlled by the Prodigy Unit Controller.

Simple plug-in connections from economizer to unit controller for easy installation.

All Strategos rooftop units are equipped with factory installed CEC Title 24 approved sensors for outside, return and discharge air temperature monitoring.

Optional sensors may be used instead of unit sensors to determine whether outdoor air is suitable for free cooling. See Options/Accessories table.

**Factory or Field Installed**

**Economizer Features  
(Standard and High Performance)**  
Outdoor air hood is furnished.

**Standard Economizer Features  
(Not for Title 24)**

Parallel gear-driven action, return air and outdoor air dampers, plug-in connections to unit, nylon bearings, neoprene seals, 24-volt, fully-modulating spring return motor, adjustable minimum damper position.

*NOTE: The Free Cooling default setting for outdoor air temperature sensor is 55°F.*

**High Performance  
Economizer Features**

Approved for California Title 24 building standards.

Approved for California Title 24 building standards. ^n Low leakage dampers are Air Movement and Control Association International (AMCA) Class 1A Certified - Maximum 3 CFM per sq. ft. leakage at 1 in. w.g.

ASHRAE 90.1-2010 compliant.

Gear-driven action, high torque 24-volt fully-modulating spring return damper motor, return air and outdoor air dampers, plug-in connections to unit, nylon bearings (036-060), stainless steel bearings (120-240-288), enhanced neoprene blade edge seals and flexible stainless steel jamb seals to minimize air leakage.

*NOTE - High Performance Economizers are not approved for use with enthalpy controls in Title 24 applications.*

*NOTE - The Free Cooling setpoint for Title 24 applications must be set based on the Climate Zone where the system is installed. See Section 140.4 "Prescriptive Requirements for Space Conditioning Systems" of the California Energy Commission's 2013 Building Energy Efficiency Standards.*

Refer to Installation Instructions for complete setup information.

**Field Installed**

**Global Control**

The unit controller communicates with a DDC system with one global sensor (enthalpy or sensible) to determine whether outside air is suitable for free cooling on all units connected to the control system. Sensor must be field provided.

*NOTE - Global control with enthalpy is not approved for Title 24 applications.*

**Factory or Field Installed**

**Single Enthalpy Temperature Control**

**(Not for Title 24)**

Outdoor air enthalpy sensor enables Economizer if the outdoor enthalpy is less than the setpoint of the control.

**Differential Enthalpy Control  
(Not for Title 24)**

Order two Single Enthalpy Controls. One is field installed in the return air section, the other in the outdoor air section. Allows the economizer control to select between outdoor air or return air, whichever has lower enthalpy.

**EXHAUST OPTIONS**

**Factory Installed**

**21 Power Exhaust Fan(s)  
(120, 240 and 288 Models Only)**

Installs external on 10 ton model, internal to 20 and 24 ton models, installed only with economizer option. Provides exhaust air pressure relief, interlocked to run when supply air blower is operating, fan runs when outdoor air dampers are

50% open (adjustable), motor is overload protected. 10-ton model includes steel cabinet and hood painted to match unit.

**120 Models** - One, 1/2 hp motor, five blade propeller-type fan with a total power input of 300 Watts and a total air volume of 4085 cfm at 0.05 in. w.g.

**240 Models** - Three, 1/3 hp motors with 20 in., five blade propeller-type fans with a total power input of 1200 Watts and a total air volume of 10,200 cfm at 0 in. w.g.

**288 Models** - Three, 1/3 hp motors with 20 in., five blade propeller-type fans with a total power input of 1125 Watts and a total air volume of 12,800 cfm at 0 in. w.g.

**Factory or Field Installed**

**Barometric Relief Dampers**

Allows relief of excess air, dampers prevent blow back and outdoor air infiltration during off cycle.

Outdoor air hood is furnished with field installed barometric relief dampers for 120 models with Power Exhaust. Outdoor air hood must be ordered separately for 120 models without Power Exhaust.

Outdoor air hood must be ordered separately for 036-060 models for field installation. See Options/Accessories table.

### **OUTDOOR AIR OPTIONS**

#### **Factory Installed**

##### **Manual Outdoor Air Damper (240 and 288 Models Only)**

0 to 25% (fixed) outdoor air adjustable slide damper, installed in unit, outdoor air hood with bird screen included.

##### **Motorized Outdoor Air Dampers (240 and 288 Models Only)**

Linked dampers with a fully modulating spring return damper motor, installed in unit, outdoor air hood with bird screen included.

### **ROOF CURBS**

#### **Hybrid Roof Curbs, Downflow**

Roof curb can be assembled using interlocking tabs to fasten corners together. No tools required.

Curb can also be fastened together with furnished hardware.

Available in 14 and 24 inch heights.

See Options/Accessories table.

## OPTIONS / ACCESSORIES

Item Description	Model Number	Catalog Number	036	060	120	240	288
<b>COOLING SYSTEM</b>							
Condensate Drain Trap	EPDM - C1TRAP30121-	<b>43W45</b>	OX	OX	OX	OX	OX
	Copper - C1TRAP10AD2	<b>76W27</b>				OX	OX
Corrosion Protection	Coated indoor/outdoor coil assemblies, painted cabinet interior	Factory	O	O	O	O	O
	Coated outdoor coil assembly	Factory	O	O	O	O	O
Drain Pan Overflow Switch	E1SNSR71AD1	<b>68W88</b>	OX	OX	OX	OX	OX
<b>BLOWER - SUPPLY AIR</b>							
Constant Air Volume	1.5 hp	Factory	O	O			
MSAV® (multi-stage air volume) supply fan option	3 hp	Factory			O		
	5 hp	Factory				O	O
	7.5 hp	Factory				O	O
<b>CABINET</b>							
Coil Guards	S1GARD22101	<b>50W67</b>	X	X			
	S1GARD22111	<b>50W68</b>			X		
	C1GARD29D-1	<b>84W63</b>				X	X
Hail Guards	S1GARD10101	<b>47W20</b>	X	X			
	S1GARD10111	<b>47W21</b>			X		
	C1GARD19D-1	<b>84W62</b>				X	X
<b>CONTROLS</b>							
<b>Commercial Controls</b>							
CPC Einstein Integration		Factory	O	O	O	O	O
Danfoss RTC Control		Factory	O	O	O	O	O
Novar® 2024		Factory	O	O	O	O	O
Novar® ETM-2051 Unit Controller		Factory	O	O	O	O	O
Novar® LSE		Factory	O	O	O	O	O
Prodigy® Control System - BACnet® Module		Factory	O	O	O	O	O
Prodigy® Control System - LonTalk® Module		Factory	O	O	O	O	O
L Connection® Network		Factory	O	O	O	O	O
Fresh Air Tempering	C1SNSR75AD1	<b>58W63</b>	X	X	X	X	X
<sup>1</sup> Smoke Detector	Supply	Factory	O	O	O	O	O
	Return	Factory	O	O	O	O	O
<b>ELECTRICAL</b>							
Voltage	208/230V - 3 phase	Factory	O	O	O	O	O
60 hz	460V - 3 phase	Factory	O	O	O	O	O
	575V - 3 phase	Factory	O	O	O	O	O
GFI Service	20 amp non-powered, field-wired (all voltages) C1GFCI20FF1	<b>67E01</b>	OX	OX	OX	OX	OX
Outlets	15 amp, factory-wired and powered C1GFCI15FF1	<b>74M70</b>				O	O
Weatherproof Cover for GFI	C1GFCI99FF1	<b>10C89</b>	X	X	X	X	X
<b>ELECTRIC HEAT</b>							
<sup>2</sup> 10 kW		Factory	O	O			
15 kW		Factory	O	O	O		
<sup>2</sup> 20 kW		Factory		O	O	O	O
30 kW		Factory		O	O	O	O
<sup>2</sup> 40 kW		Factory			O	O	O
45 kW		Factory			O		
60 kW		Factory			O	O	O
<sup>2</sup> 80 kW		Factory				O	O
90 kW		Factory				O	O

<sup>1</sup> Factory installed smoke detectors must be ordered for use with either 115V or 24V external power supply only.

<sup>2</sup> Available for 460V only.

NOTE - Catalog and model numbers shown are for ordering field installed accessories.

OX - Configure To Order (Factory Installed) or Field Installed

O = Configure To Order (Factory Installed)

X = Field Installed

## OPTIONS / ACCESSORIES

Item Description	Model Number	Catalog Number	036	060	120	240	288
<b>INDOOR AIR QUALITY</b>							
<b>Air Filters</b>							
Healthy Climate® High Efficiency Air Filters	MERV 8	Factory				O	O
	MERV11- <sup>3</sup> C1FLTR50D-1-	<b>97L88</b>				OX	OX
	MERV 15- <sup>1</sup> C1FLTR50101	<b>28W03</b>	X	X			
	<sup>2</sup> C1FLTR50EA1	<b>28W02</b>			X		
	<sup>3</sup> C1FLTR50D-	<b>28W06</b>				X	X
Replacement Media Filter With Metal Mesh Frame (includes non-pleated filter media)	C1FLTR30D-1-	<b>44N60</b>				X	X
<b>Indoor Air Quality (CO<sub>2</sub>) Sensors</b>							
Sensor - Wall-mount, off-white plastic cover with LCD display	C0SNSR50AE1L	<b>77N39</b>	X	X	X	X	X
Sensor - Wall-mount, off-white plastic cover, no display	C0SNSR52AE1L	<b>87N53</b>	X	X	X	X	X
Sensor - Black plastic case with LCD display, rated for plenum mounting	C0SNSR51AE1L	<b>87N52</b>	X	X	X	X	X
Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting	C0MISC19AE1	<b>87N54</b>	X	X	X	X	X
CO <sub>2</sub> Sensor Duct Mounting Kit - for downflow applications	C0MISC19AE1-	<b>85L43</b>	X	X	X	X	X
Aspiration Box - for duct mounting non-plenum rated CO <sub>2</sub> sensors ( <b>87N53</b> or <b>77N39</b> )	C0MISC16AE1-	<b>90N43</b>	X	X	X	X	X
<b>ECONOMIZER</b>							
<b>Standard Economizer (Not for Title 24)</b>							
Standard Economizer - Includes Outdoor Air Hood (Global Sensor, field provided, order Barometric Relief Dampers separately)		Factory	O	O	O	O	O
<b>High Performance Economizer (Approved for California Title 24 Building Standards / AMCA Class 1A Certified)</b>							
High Performance Economizer - Includes Outdoor Air Hood (Global Sensor, field provided, order Barometric Relief Dampers separately)	E1ECON17D-1	Factory	O	O	O		
		<b>10U62</b>				OX	OX
<b>Economizer Controls (Not for Title 24)</b>							
Single Enthalpy	C1SNSR64FF1	<b>53W64</b>	OX	OX	OX	OX	OX
Differential Enthalpy (Order 2)	C1SNSR64FF1	<b>53W64</b>	OX	OX	OX	OX	OX
<b>Barometric Relief Dampers</b>							
Barometric Relief Dampers (No Hood)		<b>30W72</b>	OX	OX			
Outdoor Air Hood required - Ordered separately		<b>30W75</b>	OX	OX			
Barometric Relief Dampers With Power Exhaust Fans (Hood Furnished)		<b>30W92</b>			OX		
Barometric Relief Dampers Without Power Exhaust Fans (No Hood)		<b>47M14</b>			OX		
Outdoor Air Hood Hood required - Order separately		<b>30W90</b>			OX		
Barometric Relief Dampers Without Power Exhaust Fans (Hood Furnished)		<b>76W17</b>				OX	OX
<b>OUTDOOR AIR</b>							
Manual Outdoor Air Damper with Outdoor Air Hood and Bird Screen		Factory				O	O
Motorized Outdoor Air Dampers with Outdoor Air Hood and Bird Screen		Factory				O	O
<b>POWER EXHAUST</b>							
Standard Static		Factory			O	O	O
<b>ROOF CURBS</b>							
Hybrid Roof Curbs, Downflow, 14 in. height	S1CURB71101	<b>11F70</b>	X	X			
	S1CURB71111	<b>11F72</b>			X		
	Full Perimeter - S1CURB71121	<b>11F74</b>				X	
	Full Perimeter - C1CURB71D-1	<b>11F62</b>					X
Hybrid Roof Curbs, Downflow 24 in. height	S1CURB73101	<b>11F71</b>	X	X			
	S1CURB73111	<b>11F73</b>			X		
	Full Perimeter - S1CURB73121	<b>11F75</b>				X	
	Full Perimeter - C1CURB73D-1	<b>11F64</b>					X
<b>LTL PACKAGING</b>							
		Factory	O	O	O	O	O

<sup>1</sup> 16 x 20 x 2 - Order 4 per unit

<sup>2</sup> 16 x 25 x 2 - Order 6 per unit

<sup>3</sup> 20 x 20 x 2 - order 12 per unit

NOTE - Catalog and model numbers shown are for ordering field installed accessories.

OX - Configure To Order (Factory Installed) or Field Installed

O = Configure To Order (Factory Installed)

X = Field Installed

## SEQUENCE OF OPERATION

### **HEATING MODE**

**NOTE - Heating Mode Is The Same For All Control Options.**

**W1 Demand:**

Electric heat energized (stage 1 on units with 2-stage) and supply air blower operates at heating speed.

**W2 Demand:**

Electric heat energized (stage 2 on units with 2-stage) and supply air blower operates at heating speed.

### **MODULATING OUTDOOR AIR DAMPER**

The minimum damper position for “occupied low blower” and “occupied high blower” is adjusted during unit setup to provide minimum fresh air requirements per ASHRAE 62.1 at the corresponding supply air blower speeds.

When supply air blower is off or the unit is in unoccupied mode, the outdoor air damper is closed.

When unit is in occupied mode and supply air blower is operating at a speed below the “midpoint” blower speed, the outdoor air damper is at minimum “low blower” position.

When unit is in occupied mode and supply air blower is operating at a speed equal to or above the “midpoint” blower speed, the outdoor air damper is at minimum “high blower” position.

**NOTE - The “midpoint” blower speed is an average of the minimum and maximum blower speed (minimum speed + maximum speed divided by 2).**

### **THERMOSTAT MODE**

The thermostat mode has specific sequence-of-operation scenarios for Lennox' SC product line. The standard thermostat mode will typically allow up to 2 stages of heating and cooling operation. Units with a globally-controlled economizer option can have up to 2 stages of mechanical cooling and free cooling economizer operation. If using the MSAV® (Multi-Stage Air Volume) blower option, this mode will also allow up to 5 different supply blower speeds: 2 speeds for cooling mode, 1 speed for heating mode, 1 speed for ventilation, and an extra speed for when one of the smoke alarm options is used. When using the factory default, the smoke alarm mode will turn off the blower. It is important to note that the unit controller merely passes along the instructions to provide heating, cooling, or other unit operations.

#### **CAV COOLING WITHOUT AN ECONOMIZER**

Upon receiving a demand for cooling from a thermostat or third-party unit controller, the unit controller will activate the refrigeration circuit to bring the unit to full cooling capacity. Once the unit satisfies the cooling demand and the thermostat or third-party unit controller removes the cooling demands, the unit will stop cooling operation.

#### **CAV COOLING WITH ECONOMIZER**

If the unit is controlled by a standard 2-stage cooling and 2-stage heating thermostat or if controlled by a third-party unit controller using the global economizer and outdoor air is suitable for free cooling, then a first call for cooling will cause the unit controller to open the economizer to modulate damper to maintain supply air temperature to ECTO 6.23 setting. The unit will try to satisfy the cooling demand using outdoor air rather than mechanical cooling. If mechanical cooling is locked out because of low ambient outside air temperature, then mechanical cooling will not come on and the unit will attempt to satisfy any demand by modulating the economizer's damper position to maintain a supply air temperature to ECTO 6.23 setting. The set points at which mechanical cooling locks out and the economizer supply air temperature target are adjustable.

If mechanical cooling is not locked out, and the unit is unable to satisfy the call for cooling using the economizer, the thermostat sends a second call for cooling, the unit controller will bring on full mechanical cooling. The economizer will also open to 100% during a second call for cooling.

*NOTE - If outdoor air is not suitable for free cooling then the unit will follow a different sequence of operation. This sequence of operations will mirror that of a unit without an economizer.*

## SEQUENCE OF OPERATION

### **THERMOSTAT MODE - MSAV® (MULTI-STAGE AIR VOLUME)**

#### **10 TON UNIT**

#### **OPERATION WITH 2-STAGE THERMOSTAT**

##### **Supply Air Blower Speed**

Unit has following supply air blower speed settings:

- Ventilation Speed
- Cooling Speed - Low
- Cooling Speed - High
- Heating Speed
- Smoke Speed (Used only in smoke removal option - not covered here)

---

##### **Unit Features An Economizer And Outdoor Air Is Suitable**

*NOTE - Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third-party controller and provided to the rooftop unit via a network connection.*

Cooling - Thermostat Mode (Y1, Y2)

##### **Y1 Demand:**

All compressors are off, supply air blower is on low cooling speed to minimize blower power consumption, economizer modulates (minimum to maximum open position) to maintain ECTO 6.23 setting (supply air temperature).

##### **Y2 Demand:**

All compressors are off, supply air blower is on high cooling speed providing higher cooling capacity, and economizer modulates to maintain ECTO 6.23 setting (supply air temperature).

ECTO 6.27 dictates when compressor 1 is energized while supply air blower stays on high cooling speed providing maximum cooling capacity. After compressors are energized the economizer stays at maximum open.

##### **Unit Does Not Feature An Economizer Or Outdoor Air Is Not Suitable**

##### **Y1 Demand:**

Compressor 1 operates and supply air blower operates at low cooling speed.

##### **Y2 Demand:**

All compressors operate and supply air blower operates at high cooling speed.

## SEQUENCE OF OPERATION

### **THERMOSTAT MODE - MSAV® (MULTI-STAGE AIR VOLUME) (CONTINUED)**

#### **10 TON UNIT**

#### **OPERATION WITH 3-STAGE THERMOSTAT**

##### **Supply Air Blower Speed**

Unit has following supply air blower speed settings:

- Ventilation Speed
- Cooling Speed - Low
- Cooling Speed - High
- Heating Speed
- Smoke Speed (Used only in smoke removal option - not covered here)

---

##### **Unit Features An Economizer And Outdoor Air Is Suitable**

*NOTE - Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third-party controller and provided to the rooftop unit via a network connection.*

Cooling - Thermostat or Zone Sensor Mode (Y1, Y2, Y3)

##### **Y1 Demand:**

All compressors are off, supply air blower is on low cooling speed to minimize blower power consumption, economizer modulates (minimum to maximum open position) to maintain ECTO 6.23 setting (supply air temperature).

##### **Y2 Demand:**

All compressors are off, supply air blower is on high cooling speed providing higher cooling capacity, and economizer modulates to maintain ECTO 6.23 setting (supply air temperature).

ECTO 6.27 dictates when compressor 1 is energized while supply air blower stays on high cooling speed providing maximum cooling capacity. After compressors are energized the economizer stays at maximum open.

##### **Y3 Demand:**

Compressors 1 and 2 are energized while supply air blower stays on high cooling speed.

##### **Unit Does Not Feature An Economizer Or Outdoor Air Is Not Suitable**

##### **Y1 Demand:**

Compressor 1 operates and supply air blower operates at low cooling speed.

##### **Y2 or Y3 Demand:**

All compressors operate and supply air blower operates at high cooling speed.

---

## SEQUENCE OF OPERATION

### **THERMOSTAT MODE - MSAV® (MULTI-STAGE AIR VOLUME) (CONTINUED)**

#### **20 TON UNIT**

#### **OPERATION WITH 2-STAGE THERMOSTAT**

##### **Supply Air Blower Speed**

Unit has the following supply air blower speed settings:

- Ventilation Speed
- Cooling Speed - Low
- Cooling Speed - High
- Heating Speed
- Smoke Speed (Used only in smoke removal option - not covered here)

---

##### **Unit Features An Economizer And Outdoor Air Is Suitable**

*NOTE - Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third-party controller and provided to the rooftop unit via a network connection.*

##### **Y1 Demand:**

All compressors are off, supply air blower is on low cooling speed to minimize blower power consumption, economizer modulates (minimum to maximum open position) to maintain ECTO 6.23 setting (supply air temperature).

##### **Y2 Demand:**

All compressors are off, supply air blower is on high cooling speed providing higher cooling capacity, and economizer modulates to maintain ECTO 6.23 setting (supply air temperature).

ECTO 6.27 dictates when compressors 1 and 2 are energized while supply air blower stays on high cooling speed providing maximum cooling capacity. After compressors are energized the economizer stays at maximum open.

##### **Unit Does Not Feature An Economizer Or Outdoor Air Is Not Suitable**

##### **Y1 Demand:**

1st stage compressors operate and supply air blower operates at low cooling speed.

##### **Y2 Demand:**

All compressors operate and supply air blower operates at high cooling speed.

## SEQUENCE OF OPERATION

### **THERMOSTAT MODE - MSAV® (MULTI-STAGE AIR VOLUME) (CONTINUED)**

#### **20 TON UNIT**

#### **OPERATION WITH 3-STAGE THERMOSTAT**

##### **Supply Air Blower Speed**

Unit has following supply air blower speed settings:

- Ventilation Speed
- Cooling Speed 1 - Low
- Cooling Speed 2 - Medium
- Cooling Speed 3 - High
- Heating Speed
- Smoke Speed (Used only in smoke removal option - not covered here)

---

##### **Unit Features An Economizer And Outdoor Air Is Suitable**

*NOTE - Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third-party controller and provided to the rooftop unit via a network connection.*

##### **Y1 Demand:**

All compressors are off, supply air blower is on low cooling speed to minimize blower power consumption, economizer modulates (minimum to maximum open position) to maintain ECTO 6.23 setting (supply air temperature).

##### **Y2 Demand:**

All compressors are off, supply air blower is on high cooling speed providing higher cooling capacity, economizer modulates (minimum to maximum open position) to maintain ECTO 6.23 setting (supply air temperature).

ECTO 6.27 dictates when compressors 1 and 2 are energized while supply air blower stays on high cooling speed providing maximum cooling capacity. After compressors are energized the economizer stays at maximum open.

##### **Y3 Demand:**

Compressors 1, 2, 3 and 4 are energized and supply air blower stays on high cooling speed.

##### **Unit Does Not Feature An Economizer Or Outdoor Air Is Not Suitable**

##### **Y1 Demand:**

Compressors 1 and 2 operate and supply air blower operates at low cooling speed.

##### **Y2 Demand:**

Compressors 1, 2, and 3 operate and supply air blower operates at medium cooling speed.

##### **Y3 Demand:**

All compressors operate and supply air blower operates at high cooling speed.

---

## SEQUENCE OF OPERATION

### **ZONE SENSOR MODE**

When in zone sensor mode, the unit can modulate four stages of cooling or two stages of heating operation. In this case, the unit controller will control all unit staging operations. While in zone sensor mode, multi-stage air volume applications can use up to 4 different supply blower speeds for cooling. Zone sensor mode takes full advantage of the unit controller's features, increasing staging and control capabilities. To operate correctly, the unit must receive information from a temperature sensor. It may also receive setpoint information from a network device. Based on this information, the unit controller will either turn on or off various cooling and heating stages to maintain comfort control.

In zone sensor mode, it is possible to operate the unit without a network device. In this case the unit controller will control the zone temperature based on the backup occupied and unoccupied setpoints stored in the unit controller. The unit controller decides which setpoints to use based on the status of the occupied input. For example, if the unit is in occupied mode, the unit controller will use the occupied backup setpoints and if the unit is not in occupied mode the unit controller will use the unoccupied backup setpoints. In this scenario the unit controller not only records diagnostic information and makes sure the unit maintains safe operation limits, it also controls all staging and unit operations.

### **ZONE SENSOR MODE HEATING**

For heating, the unit controller monitors space temperature from the zone sensor. Based on this information and the setpoints sent to the unit controller from the Lennox or third-party network device, the unit controller turns on or off the heating stages to maintain the desired temperature setpoint.

The SC product line features up to two independent heat stages in larger equipment. The exact percent of heating capacity used will vary depending on the size of the unit and the heating capacity. Regardless of how many stages are present, the unit controller will seek to provide the right amount of heat to satisfy the demand.

The sequence of operation for increasing and decreasing heating stages is best shown by the staging chart on page 20. As you can see from the chart, the unit will activate the heating stages if the space temperature drops to certain temperatures. If the temperature continues to drop, the unit will continue to add heating stages until the unit reaches full heating capacity. Notice that the example heating setpoint is 70°F with a 1° deadband. Also notice that the stage-up timer is 15 minutes. The unit controller will call for the next heating stage if the space temperature has been in the stage-up timer deadband region for 15 continuous minutes. The stage-up timer deadband region is the range between the temperature at which the current heating stage was called, and the temperature at which the next heating stage would be called. Heating stages will deactivate immediately after the space temperature has been satisfied. These are all default setpoints and can be changed to customize the unit to the specific application.

It is important to note that units with multi-stage air volume supply blowers operate at the selected heating speed for all stages of heating. The supply blower speed will not change as heat stages increase or decrease because there is only one heating supply blower speed setpoint.

### **ZONE SENSOR MODE COOLING**

For cooling, the unit controller monitors space temperature from the zone sensor. Based on this information and the setpoints sent to the unit controller from an optional Lennox or third-party network device, the unit controller turns on or off cooling stages to maintain the desired temperature setpoint.

The SC product line features up to four independent cooling stages in larger equipment. Regardless of how many stages are available, the unit controller will seek to provide the right amount of cooling to satisfy the demand. This helps provide great comfort control and to minimize energy consumption. The sequence of operation for increasing and decreasing cooling stages is best shown by the staging chart on page 20. As you can see from the chart, the unit will activate cooling stages if the space temperature rises above certain setpoints. If the temperature continues to rise, the unit will continue to add cooling stages until the unit reaches full cooling capacity. Notice that the example cooling setpoint is 75°F with a 1° deadband. Notice that the stage-up timer is 15 minutes. The unit controller will call for the next cooling stage if the space temperature has been in the stage-up timer deadband region for 15 continuous minutes. The stage-up timer deadband region is the range between the temperature at which the current cooling stage was called, and the temperature at which the next cooling stage would be called. Cooling mode has a stage-down delay default that keeps the next lower stage on for 15 minutes after a higher stage has ended. This feature is to make sure the unit doesn't prematurely shut off a cooling stage. These are all default setpoints and can be changed to customize the unit to the specific application.

## SEQUENCE OF OPERATION

### **ZONE SENSOR MODE (continued)**

#### **ZONE SENSOR MODE COOLING WITH/WITHOUT ECONOMIZER**

If the outdoor air is suitable and the unit features an economizer, instead of using mechanical cooling to meet the first cooling demand, the unit controller will try to meet the demand by opening the economizer and using outdoor air. The economizer damper will modulate to maintain ECTO 6.23 setting (supply air temperature) to meet the cooling demand.

If mechanical cooling is locked out because of low ambient outside air temperature, then mechanical cooling will not come on and the unit will attempt to satisfy any demand by modulating the economizer's damper position to maintain ECTO 6.23 setting (supply air temperature). The setpoints at which mechanical cooling locks out and the economizer maintains supply air temperature are adjustable.

If mechanical cooling is not locked out and if the unit is able to satisfy the room temperature requirements using outdoor air, then the unit will close the economizer to the minimum setpoint and cease cooling operation. If the unit is unable to satisfy the room temperature requirements using outdoor air, then the unit will react to a second cooling demand, which will trigger the first stage of mechanical cooling and bring the economizer to the full open position. The unit will continue turning on stages of mechanical cooling until the unit has satisfied the space temperature setpoint. Because the unit can provide up to 4 stages of cooling, and the economizer now qualifies as the first stage of cooling, the unit controller will group the third and fourth compressors in a four compressor unit together. This means that to address the fourth stage cooling demand the unit will increase the mechanical cooling from 50 to 100%.

See table for unit operation without an economizer.

#### **ZONE SENSOR MODE COOLING**

Cooling Demand	Unit with Economizer	Unit Without Economizer or Outdoor Air is Unsuitable
One	Economizer	Compressor 1
Two	Economizer + Compressor 1	Compressor 1 and 2
Three	Economizer + Compressor 1 and 2	Compressor 1, 2 and 3
Four	Economizer + All Compressors	All Compressors

## SEQUENCE OF OPERATION

### ZONE SENSOR MODE (continued)

#### ZONE SENSOR STAGES FOR ELECTRIC / ELECTRIC UNITS Default Values Shown

Units With Economizer:

C1=Free Cooling

C2=Compressor 1

C3=Compressor 2

C4=Compressor 3 + 4

C1=Cooling Stage 1

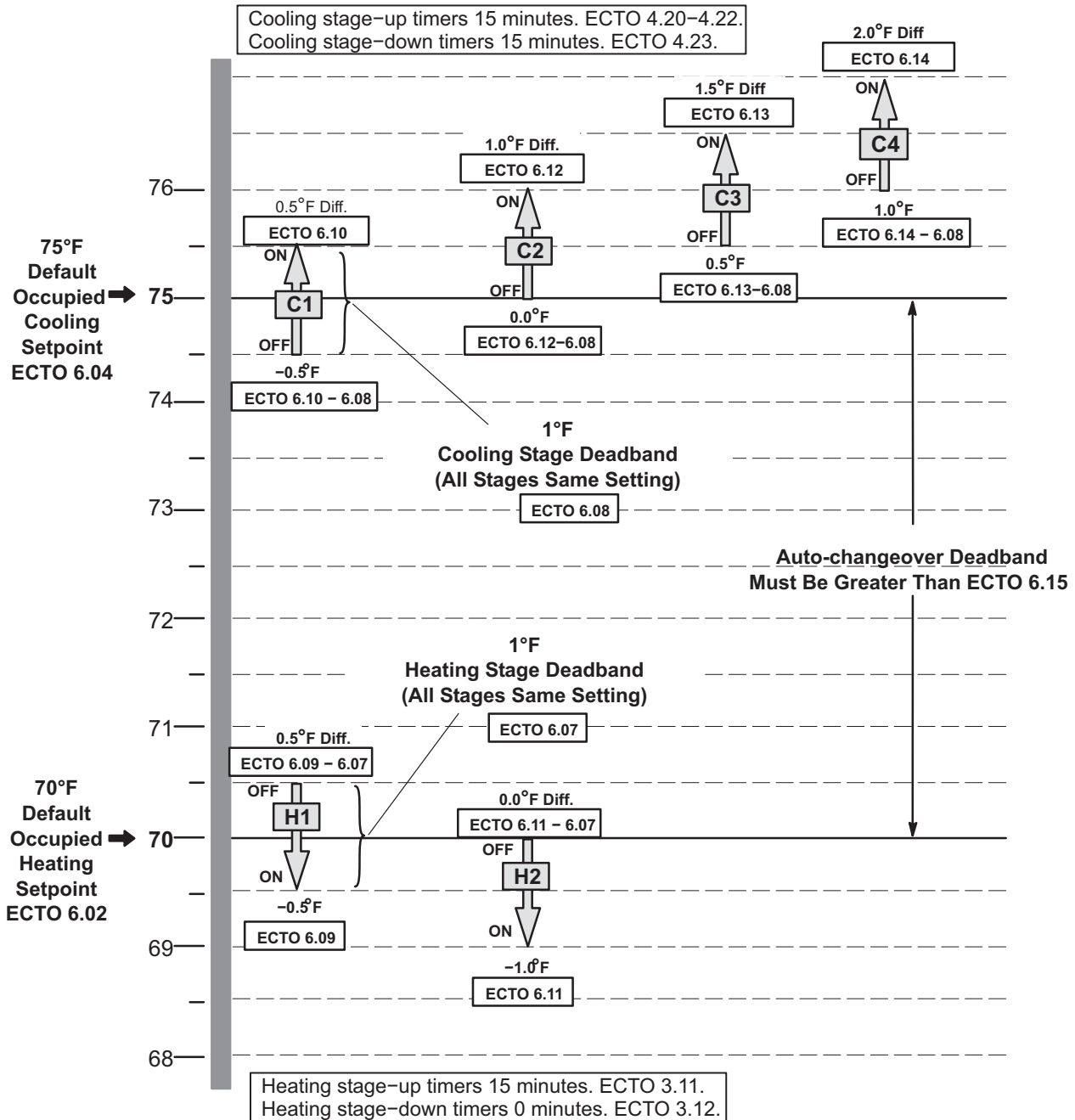
C2=Cooling Stage 2

C3=Cooling Stage 3

C4=Cooling Stage 4

H1=Heating Stage 1

H2=Heating Stage 2



## SEQUENCE OF OPERATION

### **ZONE SENSOR MODE - MSAV® (MULTI-STAGE AIR VOLUME)**

#### **10 TON UNIT**

##### **Supply Air Blower Speed**

Unit has following supply air blower speed settings:

- Ventilation Speed
  - Cooling Speed 1 - Low
  - Cooling Speed 2 - Medium
  - Cooling Speed 3 - High
  - Heating Speed
  - Smoke Speed (Used only in smoke removal option - not covered here)
- 

##### **Unit Features An Economizer And Outdoor Air Is Suitable**

*NOTE - Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third-party controller and provided to the rooftop unit via a network connection.*

##### **Y1 Demand:**

All compressors are off, supply air blower is on low cooling speed to minimize blower power consumption, economizer modulates (minimum to maximum open position) to maintain ECTO 6.23 setting (supply air temperature).

##### **Y2 Demand:**

All compressors are off, supply air blower is on high cooling speed providing higher cooling capacity, economizer modulates (minimum to maximum open position) to maintain ECTO 6.23 setting (supply air temperature).

ECTO 6.27 dictates when compressor 1 is energized while supply air blower stays on high cooling speed providing maximum cooling capacity. After compressors are energized the economizer stays at maximum open.

##### **Y3 Demand:**

Compressors 1 and 2 are energized and supply air blower stays on high cooling speed.

##### **Unit Does Not Feature An Economizer Or Outdoor Air Is Not Suitable**

##### **Y1 Demand:**

Compressor 1 operates and supply air blower operates at low cooling speed.

##### **Y2 Demand:**

Compressor 1 operates and supply air blower operates at medium cooling speed.

##### **Y3 Demand:**

All compressors operate and supply air blower operates at high cooling speed.

## SEQUENCE OF OPERATION

### **ZONE SENSOR MODE - MSAV® (MULTI-STAGE AIR VOLUME) (CONTINUED)**

#### **20 TON UNIT**

##### **Supply Air Blower Speed**

Unit has following supply air blower speed settings:

- Ventilation Speed
- Cooling Speed 1 - Low
- Cooling Speed 2 - Medium-Low
- Cooling Speed 3 - Medium-High
- Cooling Speed 4 - High
- Heating Speed
- Smoke Speed (Used only in smoke removal option - not covered here)

---

##### **Unit Features An Economizer And Outdoor Air Is Suitable**

*NOTE - Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third-party controller and provided to the rooftop unit via a network connection.*

##### **Y1 Demand:**

All compressors are off, supply air blower is on low cooling speed to minimize blower power consumption, economizer modulates (minimum to maximum open position) to maintain ECTO 6.23 setting (supply air temperature).

##### **Y2 Demand:**

All compressors are off, supply air blower is on high cooling speed providing higher cooling capacity, and economizer modulates to maintain ECTO 6.23 setting (supply air temperature).

ECTO 6.27 dictates when compressor 1 is energized while supply air blower stays on high cooling speed providing maximum cooling capacity. After compressors are energized the economizer stays at maximum open.

##### **Y3 Demand:**

Compressor 1 and 2 are energized while supply air blower is on high cooling speed providing even higher cooling capacity.

##### **Y4 Demand:**

All compressors are energized while supply air blower is on high cooling speed providing maximum cooling capacity.

##### **Unit Does Not Feature An Economizer (Or Outdoor Air Is Not Suitable)**

##### **Y1 Demand:**

Compressor 1 operates and supply air blower operates at low cooling speed.

##### **Y2 Demand:**

Compressors 1 and 2 operate and supply air blower operates at medium-low cooling speed.

##### **Y3 Demand:**

Compressors 1, 2, and 3 operate and supply air blower operates at medium-high cooling speed.

##### **Y4 Demand:**

All compressors operate and supply air blower operates at high cooling speed.

SPECIFICATIONS		3 AND 5 TON	
General Data	Nominal Tonnage	3 Ton	5 Ton
	Model No.	SCC036H4	SCC060H4
	Efficiency Type	High	High
Cooling Performance	Gross Cooling Capacity - Btuh	37,200	61,500
	<sup>1</sup> Net Cooling Capacity - Btuh	36,000	59,500
	AHRI Rated Air Flow - cfm	1200	1650
	Total Unit Power	2.65	4.65
	<sup>1</sup> SEER (Btuh/Watt)	16.1	15.5
	<sup>1</sup> EER (Btuh/Watt)	13.6	12.8
Refrigerant Charge Furnished (R-410A)		7 lbs. 0 oz.	7 lbs. 3 oz.
<sup>2</sup> Sound Rating Number (SRN) (dBA)		76	78
Electric Heat Options Available		See page 11	
Compressor Type (No.)		Scroll (1)	Scroll (1)
Condenser Coil	Net face area - sq. ft.	18.7	18.7
	Number of rows	1	1
	Fins per inch	23	23
Condenser Fan(s)	Motor horsepower	(1) 1/6	(2) 1/6
	Motor rpm	825	825
	Total Motor watts	190	380
	Diameter - in.	(1) 24	(2) 24
	Number of blades	3	3
	Total air volume - cfm	3100	5600
Evaporator Coil	Net face area - sq. ft.	8.0	8.0
	Tube diameter - in.	3/8	3/8
	Number of rows	4	4
	Fins per inch	14	14
	Drain connection - no. & size	(1) 1	(1) 1
	Expansion device type	Thermostatic Expansion Valve	
<sup>3</sup> Indoor Blower	Nominal motor output	1.5	1.5
	Maximum usable motor output	1.7	1.7
	RPM Range (Standard Static)	Drive #6 - 595-890 rpm	Drive #1 - 765-1075 rpm
	RPM Range (High Static)	Drive #3 - 960-1320 rpm	Drive #4 - 1070-1430 rpm
	Wheel nominal diameter x width - in.	(1) 10 x 10	(1) 10 x 10
Filters	Type of filter	MERV 7 or equivalent	
	Number and size - in.	(4) 16 x 20 x 2	(4) 16 x 20 x 2
Electrical characteristics		208/230V, 460V, or 575V - 60 hertz - 3 phase	

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> AHRI Certified to AHRI Standard 210/240; 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

<sup>2</sup> Sound Rating Number (SRN) rated in accordance with test conditions included in ARI Standard 270-95.

<sup>3</sup> Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor output required. Maximum usable output of motors furnished are shown. In Canada, nominal motor output is also maximum usable motor output. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

SPECIFICATIONS		10 - 24 TON			
General Data		Nominal Tonnage	10 Ton	20 Ton	24 Ton
		Model No.	SCC120H4M	SCC240H4M	SCC288H4M
		Blower Type	MSAV® (Multi-Stage Air Volume) Supply Fan Option	MSAV® (Multi-Stage Air Volume) Supply Fan Option	MSAV® (Multi-Stage Air Volume) Supply Fan Option
		Efficiency Type	High	High	High
Cooling Performance	Gross Cooling Capacity - Btuh	123,000	242,000	296,000	
	<sup>1</sup> Net Cooling Capacity - Btuh	119,000	236,000	288,000	
	AHRI Rated Air Flow - cfm	3700	6500	7700	
	Total Unit Power	9.8	18.7	24.8	
	<sup>1</sup> EER (Btuh/Watt)	12.1	12.6	11.6	
	<sup>1</sup> IEER (Btuh/Watt)	15.2	16.8	14.1	
Refrigerant Charge Furnished R-410A	Circuit 1	8 lbs. 12 oz.	7 lbs. 8 oz.	7 lbs. 12 oz.	
	Circuit 2	6 lbs. 4 oz.	7 lbs. 8 oz.	7 lbs. 12 oz.	
	Circuit 3	- - -	5 lbs. 12 oz.	6 lbs. 4 oz.	
	Circuit 4	- - -	6 lbs. 0 oz.	6 lbs. 8 oz.	
<sup>2</sup> Sound Rating Number (SRN) (dBA)		90	92	94	
Electric Heat Options Available		See page 11			
Compressor Type (No.)		Scroll (2)	Scroll (4)	Scroll (4)	
Condenser Coil	Net face area - sq. ft.	45.7	68.3	68.3	
	Fins per inch	23	23	23	
Condenser Fan(s)	Motor horsepower	(3) 1/3	(6) 1/3	(6) 1/3	
	Motor rpm	1075	1075	1075	
	Total Motor watts	1160	1900	1900	
	Diameter - in.	(3) 24	(6) 24	(6) 24	
	Number of blades	3	3	3	
	Total air volume - cfm	13,000	22,500	24,500	
Evaporator Coil	Net face area - sq. ft.	15.6	33.3	33.3	
	Tube diameter - in.	3/8	3/8	3/8	
	Number of rows	4	3	3	
	Fins per inch	14	14	14	
	Drain connection - no. & size	(1) 1	(1) 1	(1) 1	
	Expansion device type	Thermostatic Expansion Valve			
<sup>3</sup> Indoor Blower	Nominal motor output	3	5	5	
	RPM Range (Standard Static)	Drive #3 - 660-900 rpm	Drive #4 - 520-685 rpm	Drive #4 - 520-685 rpm	
	RPM Range (High Static)	Drive #4 - 865-1080 rpm	Drive #5 - 685-865 rpm	Drive #5 - 685-865 rpm	
	Nominal motor HP	- - -	7.5	7.5	
	RPM Range	- - -	Drive #7 - 770-965 rpm	Drive #7 - 770-965 rpm	
	Wheel nominal diameter x width - in.	(1) 15 x 15	(2) 18 x 15	(2) 18 x 15	
Filters	Type of filter	MERV 7 or equivalent			
	Number and size - in.	(6) 16 x 25 x 2	(12) 20 x 20 x 2		
Electrical characteristics		208/230V, 460V, or 575V - 60 hertz - 3 phase			

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> AHRI Certified to AHRI Standard 340/360: 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure..

<sup>2</sup> Sound Rating Number (SRN) rated in accordance with test conditions included in ARI Standard 270-95.

<sup>3</sup> Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor output required. Maximum usable output of motors furnished are shown. In Canada, nominal motor output is also maximum usable motor output. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

NOTE – Units equipped with MSAV® (Multi-Stage Air Volume) option are limited to a motor service factor of 1.0.

## SPECIFICATIONS - PRODIGY® CONTROL SYSTEM

Operating Environment	Temperature: -40°F to 155°F
	Humidity: 10% - 95% RH, Non- Condensing
Power Requirements	24VAC (+/-25%), 50/60Hz
	4.8 VA for M2 maximum
	14.4 VA for M2 w/all expansion boards Maximum
Memory Type	Re-programmable Flash
Device Commissioning	Auto-poll (real plug and play)
Unit type	Electric/Electric, Gas/Electric & Heat Pumps (Rooftops)
Cooling stages	4
Heating stages	4
Modulating Gas Valves	2
Electronic Configure To Order Parameters	239
Alarm Codes	107
Alarm Codes Stored	84
Display Type	Scrolling, 7 plus Character Red LED
Indicator LEDs	1- Heartbeat on each board
	1- Bus transmit
	1 - Bus receive
	1- each for Y1,Y2,W1,W2,G,OCP
Dimensions - Main Board	Main Board: Height: 8 in., Width: 14-1/2 in., Depth: 6 in.
Weight	2 lbs. for M2 w/all modules installed
Cable Type	SysBus - Lennox yellow COMM cable: C0MISC00AE1- (27M19) (500 ft. box), C0MISC04AE1- (94L63) (1000 ft. box), C0MISC01AE1- (68M25) (2500 ft. roll) ZoneBus - Lennox purple COMM cable: C0MISC05AE1- (23W99) (500 ft. box) C0MISC06AE1- (24W00) (1000 ft

## RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 3 TON HIGH EFFICIENCY SCC036H4B - CONSTANT AIR VOLUME

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																				
		65°F						75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb			
				75°F	80°F	85°F			75°F	80°F	85°F			75°F	80°F	85°F			75°F	80°F	85°F	
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F		
63°F	960	35.4	1.77	0.68	0.84	1.00	33.7	2.01	0.69	0.87	1.00	31.8	2.29	0.71	0.90	1.00	29.8	2.62	0.73	0.94	1.00	
	1200	36.9	1.78	0.74	0.94	1.00	35.2	2.02	0.76	0.97	1.00	33.3	2.3	0.79	1.00	1.00	31.5	2.63	0.83	1.00	1.00	
	1440	38.4	1.78	0.81	1.00	1.00	36.7	2.03	0.84	1.00	1.00	35	2.31	0.88	1.00	1.00	33	2.63	0.92	1.00	1.00	
67°F	960	37.8	1.78	0.53	0.66	0.79	36	2.03	0.54	0.67	0.82	34	2.3	0.55	0.69	0.86	31.9	2.63	0.56	0.71	0.89	
	1200	39.2	1.79	0.57	0.71	0.90	37.2	2.03	0.58	0.74	0.94	35.1	2.31	0.59	0.76	0.98	32.8	2.63	0.61	0.80	1.00	
	1440	40.1	1.79	0.60	0.79	1.00	38.1	2.04	0.62	0.82	1.00	35.9	2.32	0.63	0.85	1.00	33.6	2.64	0.65	0.89	1.00	
71°F	960	40.5	1.79	0.40	0.51	0.63	38.5	2.04	0.40	0.52	0.65	36.4	2.32	0.40	0.53	0.66	34.1	2.64	0.41	0.55	0.69	
	1200	41.8	1.8	0.41	0.55	0.69	39.7	2.05	0.41	0.56	0.71	37.4	2.33	0.42	0.58	0.74	35	2.65	0.43	0.60	0.77	
	1440	42.7	1.81	0.42	0.59	0.76	40.5	2.06	0.43	0.61	0.79	38.2	2.33	0.44	0.62	0.83	35.7	2.65	0.45	0.64	0.87	

### 5 TON HIGH EFFICIENCY SCC060H4B - CONSTANT AIR VOLUME

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																				
		85°F						95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb			
				75°F	80°F	85°F			75°F	80°F	85°F			75°F	80°F	85°F			75°F	80°F	85°F	
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F		
63°F	1600	61	3.27	0.67	0.83	1.00	57.9	3.72	0.68	0.87	1.00	54.5	4.23	0.70	0.91	1.00	50.8	4.82	0.73	0.96	1.00	
	2000	63.2	3.31	0.72	0.95	1.00	60.1	3.75	0.75	0.98	1.00	56.9	4.26	0.79	1.00	1.00	53.5	4.86	0.83	1.00	1.00	
	2400	65.7	3.34	0.81	1.00	1.00	62.7	3.79	0.84	1.00	1.00	59.3	4.3	0.88	1.00	1.00	55.6	4.9	0.93	1.00	1.00	
67°F	1600	64.7	3.32	0.52	0.65	0.79	61.3	3.77	0.53	0.66	0.83	57.6	4.28	0.54	0.68	0.86	53.6	4.87	0.56	0.71	0.91	
	2000	66.6	3.35	0.55	0.71	0.91	63	3.8	0.57	0.73	0.95	59.2	4.31	0.58	0.76	0.99	55.1	4.9	0.60	0.81	1.00	
	2400	68	3.38	0.59	0.78	1.00	64.4	3.82	0.61	0.82	1.00	60.5	4.33	0.62	0.86	1.00	56.3	4.92	0.65	0.91	1.00	
71°F	1600	68.8	3.39	0.39	0.50	0.62	65.1	3.83	0.39	0.52	0.64	61.2	4.34	0.39	0.53	0.66	57	4.93	0.40	0.54	0.69	
	2000	70.6	3.42	0.40	0.54	0.69	66.8	3.86	0.40	0.56	0.71	62.7	4.37	0.41	0.57	0.73	58.2	4.96	0.42	0.59	0.78	
	2400	71.8	3.44	0.41	0.58	0.76	67.9	3.88	0.42	0.60	0.79	63.7	4.39	0.43	0.62	0.84	59.1	4.98	0.44	0.64	0.89	

### 10 TON HIGH EFFICIENCY SCC120H4M (ONE COMPRESSOR OPERATING) MSAV® (Multi-Stage Air Volume) SUPPLY FAN OPTION

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	2000	67.8	2.35	0.69	0.87	1.00	65	2.72	0.70	0.89	1.00	62	3.12	0.72	0.92	1.00	59	3.55	0.74	0.96	1.00
	2400	70	2.36	0.74	0.95	1.00	67.2	2.73	0.76	0.98	1.00	64.3	3.13	0.79	1.00	1.00	61.5	3.56	0.82	1.00	1.00
	2800	72.4	2.37	0.81	1.00	1.00	69.7	2.74	0.83	1.00	1.00	66.9	3.14	0.86	1.00	1.00	63.8	3.58	0.89	1.00	1.00
67°F	2000	72.3	2.37	0.54	0.67	0.82	69.2	2.74	0.54	0.68	0.85	66	3.14	0.55	0.70	0.88	62.6	3.57	0.56	0.72	0.91
	2400	74.2	2.38	0.56	0.72	0.91	71	2.75	0.57	0.73	0.94	67.6	3.15	0.58	0.76	0.97	64.1	3.58	0.60	0.79	1.00
	2800	75.6	2.38	0.59	0.78	0.99	72.3	2.76	0.60	0.80	1.00	68.9	3.16	0.62	0.83	1.00	65.3	3.59	0.64	0.87	1.00
71°F	2000	77.3	2.39	0.40	0.52	0.65	74	2.77	0.40	0.53	0.66	70.5	3.17	0.40	0.54	0.68	66.9	3.6	0.41	0.55	0.69
	2400	79.2	2.4	0.41	0.55	0.69	75.7	2.78	0.41	0.56	0.71	72.1	3.18	0.42	0.57	0.73	68.2	3.61	0.42	0.59	0.76
	2800	80.5	2.41	0.42	0.58	0.75	76.9	2.79	0.42	0.60	0.77	73.2	3.19	0.43	0.61	0.81	69.2	3.62	0.44	0.63	0.84

### 10 TON HIGH EFFICIENCY SCC120H4M (ALL COMPRESSOR OPERATING) MSAV® (Multi-Stage Air Volume) SUPPLY FAN OPTION

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
				75°F	80°F	85°F			75°F	80°F	85°F			75°F	80°F	85°F			75°F	80°F	85°F
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	3200	118.9	6.59	0.70	0.85	0.99	113.3	7.5	0.71	0.87	1.00	107.3	8.54	0.73	0.90	1.00	100.7	9.75	0.75	0.93	1.00
	4000	123.6	6.63	0.76	0.94	1.00	117.9	7.54	0.78	0.96	1.00	111.8	8.58	0.80	0.99	1.00	105.6	9.78	0.84	1.00	1.00
	4800	128.1	6.65	0.82	1.00	1.00	122.7	7.57	0.85	1.00	1.00	116.7	8.62	0.88	1.00	1.00	110.3	9.81	0.91	1.00	1.00
67°F	3200	126.5	6.65	0.55	0.68	0.81	120.4	7.56	0.56	0.69	0.83	113.9	8.61	0.57	0.71	0.86	106.9	9.79	0.58	0.73	0.90
	4000	130.8	6.68	0.58	0.73	0.90	124.4	7.59	0.59	0.75	0.93	117.5	8.63	0.61	0.78	0.96	110	9.83	0.62	0.81	0.99
	4800	133.7	6.71	0.62	0.80	0.98	127	7.62	0.63	0.82	1.00	120	8.66	0.65	0.86	1.00	112.4	9.85	0.67	0.89	1.00
71°F	3200	135	6.72	0.41	0.53	0.65	128.5	7.64	0.41	0.54	0.67	121.5	8.67	0.42	0.55	0.69	113.9	9.86	0.42	0.56	0.71
	4000	139	6.76	0.42	0.57	0.71	132.1	7.67	0.43	0.58	0.73	124.7	8.71	0.43	0.60	0.75	116.8	9.9	0.44	0.61	0.79
	4800	141.8	6.78	0.44	0.61	0.77	134.6	7.7	0.44	0.62	0.80	127	8.73	0.45	0.64	0.83	118.8	9.92	0.46	0.66	0.87

## RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 20 TON HIGH EFFICIENCY SCC240H4M (ONE COMPRESSOR OPERATING) MSAV® (Multi-Stage Air Volume) SUPPLY FAN OPTION

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
				cfm	kBtuh	kW			75°F	80°F	85°F			kBtuh	kW	75°F			80°F	85°F	kBtuh
63°F	2000	53.9	2.51	0.63	0.71	0.80	52.2	2.88	0.63	0.72	0.80	50.4	3.29	0.64	0.73	0.81	48.4	3.75	0.64	0.73	0.82
	2400	57	2.53	0.64	0.74	0.83	55	2.9	0.65	0.75	0.84	53.1	3.3	0.65	0.75	0.85	50.9	3.77	0.66	0.76	0.87
	2800	59.3	2.54	0.66	0.76	0.86	57.3	2.91	0.66	0.77	0.87	55.1	3.32	0.67	0.78	0.89	52.7	3.78	0.68	0.80	0.91
67°F	2000	57.9	2.53	0.53	0.60	0.68	56.1	2.9	0.52	0.60	0.68	54.2	3.31	0.52	0.61	0.69	52	3.78	0.53	0.61	0.70
	2400	61.1	2.55	0.53	0.61	0.70	59.1	2.92	0.53	0.62	0.71	56.9	3.33	0.53	0.62	0.72	54.6	3.8	0.53	0.63	0.73
	2800	63.6	2.56	0.53	0.63	0.72	61.4	2.94	0.54	0.64	0.73	59	3.35	0.54	0.64	0.75	56.5	3.82	0.54	0.65	0.76
71°F	2000	62.2	2.56	0.43	0.50	0.57	60.2	2.93	0.43	0.50	0.57	58.1	3.35	0.42	0.50	0.58	55.8	3.81	0.42	0.50	0.58
	2400	65.6	2.58	0.42	0.50	0.58	63.4	2.96	0.42	0.50	0.59	61	3.37	0.42	0.51	0.60	58.5	3.83	0.42	0.51	0.60
	2800	68.1	2.6	0.42	0.51	0.60	65.7	2.97	0.42	0.51	0.61	63.1	3.39	0.42	0.52	0.61	60.4	3.86	0.42	0.52	0.62

### 20 TON HIGH EFFICIENCY SCC240H4M (TWO COMPRESSOR OPERATING) MSAV® (Multi-Stage Air Volume) SUPPLY FAN OPTION

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
				cfm	kBtuh	kW			75°F	80°F	85°F			kBtuh	kW	75°F			80°F	85°F	kBtuh
63°F	3200	127.4	4.97	0.69	0.82	0.94	122.7	5.69	0.70	0.83	0.96	117.8	6.49	0.71	0.85	0.97	112.5	7.39	0.72	0.87	0.99
	4000	132.6	5.01	0.73	0.88	1.00	127.6	5.73	0.75	0.90	1.00	122.3	6.53	0.76	0.92	1.00	116.7	7.43	0.78	0.94	1.00
	4800	136.6	5.03	0.78	0.94	1.00	131.4	5.77	0.80	0.96	1.00	126.2	6.57	0.81	0.98	1.00	120.7	7.46	0.83	1.00	1.00
67°F	3200	136.1	5.03	0.54	0.66	0.78	131	5.76	0.55	0.67	0.79	125.7	6.55	0.56	0.68	0.81	120.1	7.46	0.56	0.69	0.83
	4000	141.1	5.07	0.57	0.71	0.85	135.7	5.8	0.58	0.72	0.87	130	6.59	0.58	0.73	0.89	123.8	7.5	0.59	0.75	0.91
	4800	144.7	5.09	0.60	0.76	0.91	138.9	5.83	0.61	0.77	0.93	133	6.63	0.62	0.79	0.95	126.6	7.52	0.63	0.81	0.98
71°F	3200	145.5	5.09	0.42	0.53	0.64	140.1	5.83	0.42	0.53	0.65	134.3	6.63	0.42	0.54	0.66	128.2	7.54	0.42	0.55	0.67
	4000	150.6	5.13	0.42	0.55	0.68	144.7	5.89	0.43	0.56	0.70	138.5	6.68	0.43	0.57	0.71	132	7.58	0.43	0.58	0.73
	4800	154	5.17	0.43	0.58	0.73	147.9	5.91	0.44	0.59	0.75	141.5	6.71	0.44	0.60	0.77	134.6	7.62	0.45	0.62	0.79

### 20 TON HIGH EFFICIENCY SCC240H4M (THREE COMPRESSOR OPERATING) MSAV® (Multi-Stage Air Volume) SUPPLY FAN OPTION

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)							
				Dry Bulb					Dry Bulb					Dry Bulb							
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	4800	171.3	9.78	0.72	0.86	0.94	164	11.14	0.74	0.87	0.95	156.2	12.7	0.75	0.88	0.96	147.9	14.5	0.77	0.90	0.98
	6000	179.4	9.84	0.78	0.90	0.98	171.7	11.2	0.79	0.91	0.99	163.4	12.75	0.81	0.93	1.00	154.3	14.58	0.83	0.94	1.00
	7200	185.6	9.9	0.82	0.94	1.00	177.5	11.26	0.84	0.95	1.00	168.8	12.82	0.86	0.97	1.00	159.4	14.64	0.88	0.98	1.00
67°F	4800	182.3	9.87	0.57	0.70	0.82	174.1	11.23	0.58	0.71	0.84	165.4	12.79	0.59	0.73	0.86	155.9	14.59	0.60	0.75	0.87
	6000	188.8	9.93	0.60	0.75	0.88	180.2	11.29	0.61	0.77	0.89	170.9	12.84	0.62	0.79	0.90	161	14.66	0.64	0.81	0.92
	7200	193.4	9.97	0.63	0.80	0.92	184.5	11.34	0.64	0.82	0.93	175.1	12.9	0.66	0.84	0.95	164.7	14.7	0.68	0.86	0.97
71°F	4800	194.5	9.98	0.43	0.55	0.67	185.8	11.35	0.43	0.56	0.69	176.4	12.92	0.43	0.57	0.70	166.4	14.7	0.44	0.58	0.72
	6000	200.9	10.05	0.44	0.58	0.73	191.6	11.41	0.44	0.59	0.74	181.7	12.96	0.45	0.61	0.76	170.9	14.77	0.45	0.62	0.79
	7200	205.4	10.09	0.45	0.62	0.78	195.7	11.46	0.45	0.63	0.80	185.2	13.01	0.46	0.65	0.82	174.2	14.81	0.47	0.67	0.85

### 20 TON HIGH EFFICIENCY SCC240H4M (ALL COMPRESSOR OPERATING) MSAV® (Multi-Stage Air Volume) SUPPLY FAN OPTION

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																				
		85°F						95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb			
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F		
63°F	6400	237.8	13.16	0.70	0.85	0.98	227.4	14.98	0.72	0.87	1.00	216.1	17.09	0.73	0.89	1.00	203.8	19.54	0.75	0.92	1.00	
	8000	247	13.24	0.76	0.93	1.00	236	15.07	0.78	0.95	1.00	224.4	17.17	0.80	0.97	1.00	212.4	19.6	0.83	1.00	1.00	
	9600	255	13.3	0.82	0.99	1.00	244.5	15.13	0.84	1.00	1.00	233.4	17.25	0.87	1.00	1.00	221.3	19.68	0.90	1.00	1.00	
67°F	6400	252.7	13.28	0.55	0.68	0.81	241.5	15.11	0.56	0.69	0.83	229.3	17.23	0.57	0.71	0.86	215.9	19.66	0.58	0.73	0.89	
	8000	260.9	13.37	0.58	0.74	0.89	248.9	15.2	0.59	0.75	0.92	235.8	17.31	0.61	0.78	0.95	222.1	19.71	0.62	0.80	0.97	
	9600	266.6	13.42	0.62	0.80	0.96	254.2	15.25	0.63	0.82	0.98	240.8	17.34	0.64	0.84	1.00	226.8	19.76	0.66	0.88	1.00	
71°F	6400	269.6	13.42	0.41	0.54	0.66	257.5	15.27	0.42	0.54	0.67	244.5	17.39	0.42	0.55	0.69	230.1	19.82	0.42	0.57	0.71	
	8000	277.5	13.52	0.43	0.57	0.71	264.4	15.37	0.43	0.58	0.73	250.7	17.45	0.43	0.59	0.75	236	19.86	0.44	0.61	0.78	
	9600	282.9	13.58	0.44	0.61	0.77	269.4	15.41	0.44	0.62	0.80	255.1	17.5	0.45	0.64	0.82	239.8	19.91	0.46	0.66	0.85	

## RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 24 TON HIGH EFFICIENCY SCC288H4M (ONE COMPRESSOR OPERATING)

#### MSAV® (Multi-Stage Air Volume) SUPPLY FAN OPTION

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		65°F						75°F						85°F						95°F					
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)						
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb						
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F					
63°F	2400	68.7	3.55	0.68	0.76	0.85	66.6	4	0.68	0.77	0.85	64.2	4.49	0.68	0.77	0.86	61.5	5.05	0.69	0.78	0.88				
	3000	73.5	3.62	0.69	0.79	0.89	71	4.06	0.70	0.80	0.90	68.4	4.55	0.70	0.81	0.91	65.4	5.11	0.71	0.82	0.93				
	3600	76.9	3.67	0.71	0.82	0.93	74.3	4.11	0.71	0.83	0.94	71.3	4.6	0.72	0.84	0.96	68.1	5.17	0.73	0.86	0.98				
67°F	2400	73.8	3.62	0.56	0.64	0.72	71.4	4.07	0.56	0.65	0.73	69	4.57	0.56	0.65	0.73	66.1	5.13	0.57	0.65	0.74				
	3000	78.7	3.7	0.57	0.66	0.75	76.1	4.14	0.57	0.66	0.76	73.3	4.63	0.57	0.67	0.77	70.1	5.2	0.57	0.68	0.78				
	3600	82.2	3.75	0.57	0.68	0.78	79.5	4.19	0.58	0.69	0.79	76.4	4.68	0.58	0.69	0.81	73	5.25	0.59	0.70	0.82				
71°F	2400	79.1	3.71	0.46	0.54	0.61	76.7	4.15	0.46	0.54	0.61	74	4.65	0.46	0.54	0.62	71	5.22	0.46	0.54	0.62				
	3000	84.2	3.78	0.45	0.54	0.63	81.5	4.23	0.45	0.54	0.63	78.5	4.72	0.45	0.55	0.64	75.2	5.28	0.45	0.55	0.65				
	3600	87.9	3.84	0.45	0.55	0.65	84.9	4.28	0.45	0.55	0.66	81.7	4.77	0.45	0.56	0.66	78.1	5.34	0.45	0.56	0.67				

### 24 TON HIGH EFFICIENCY SCC288H4M (TWO COMPRESSOR OPERATING)

#### MSAV® (Multi-Stage Air Volume) SUPPLY FAN OPTION

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtu/h	kW	75°F	80°F	85°F	kBtu/h	kW	75°F	80°F	85°F	kBtu/h	kW	75°F	80°F	85°F	kBtu/h	kW	75°F	80°F	85°F	
63°F	3840	159.3	7.27	0.71	0.83	0.95	153.7	8.13	0.71	0.85	0.97	147.6	9.1	0.72	0.86	0.99	140.8	10.18	0.74	0.88	1.00
	4800	165.8	7.37	0.75	0.90	1.00	159.9	8.22	0.76	0.91	1.00	153.4	9.19	0.77	0.93	1.00	146.4	10.28	0.79	0.95	1.00
	5760	170.8	7.45	0.79	0.96	1.00	164.7	8.3	0.81	0.97	1.00	158	9.26	0.82	0.99	1.00	150.8	10.36	0.84	1.00	1.00
67°F	3840	170.1	7.44	0.56	0.68	0.80	164.1	8.29	0.57	0.69	0.81	157.5	9.26	0.57	0.70	0.82	150.4	10.35	0.58	0.71	0.84
	4800	176.3	7.54	0.58	0.72	0.86	170	8.38	0.59	0.73	0.88	163	9.36	0.60	0.75	0.90	155.3	10.45	0.61	0.76	0.92
	5760	180.7	7.61	0.61	0.77	0.92	174	8.46	0.62	0.78	0.94	166.8	9.42	0.63	0.80	0.96	158.9	10.51	0.64	0.82	0.99
71°F	3840	181.4	7.62	0.43	0.54	0.65	175.1	8.48	0.43	0.55	0.66	168.2	9.44	0.43	0.55	0.67	160.6	10.53	0.44	0.56	0.68
	4800	187.8	7.72	0.44	0.57	0.70	181.1	8.58	0.44	0.57	0.71	173.7	9.53	0.44	0.58	0.72	165.6	10.64	0.45	0.59	0.74
	5760	192.2	7.79	0.45	0.59	0.74	185.2	8.65	0.45	0.60	0.76	177.5	9.61	0.45	0.61	0.78	169	10.7	0.46	0.63	0.80

### 24 TON HIGH EFFICIENCY SCC288H4M (THREE COMPRESSOR OPERATING)

#### MSAV® (Multi-Stage Air Volume) SUPPLY FAN OPTION

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
63°F	5760	213	13.4	0.71	0.85	0.93	203.7	15.03	0.73	0.86	0.94	193.5	16.9	0.74	0.88	0.96	182.8	19.04	0.76	0.90	0.97
	7200	222.7	13.56	0.76	0.90	0.97	213	15.19	0.78	0.91	0.99	202.6	17.03	0.80	0.92	1.00	191.2	19.18	0.82	0.94	1.00
	8640	230.4	13.69	0.81	0.93	1.00	220.3	15.31	0.83	0.94	1.00	209.4	17.17	0.85	0.96	1.00	197.4	19.33	0.87	0.98	1.00
67°F	5760	226.8	13.62	0.56	0.69	0.81	216.6	15.24	0.57	0.70	0.83	205.4	17.1	0.58	0.72	0.85	193.3	19.25	0.59	0.73	0.87
	7200	234.8	13.75	0.59	0.74	0.87	223.9	15.39	0.60	0.75	0.89	212.4	17.25	0.61	0.77	0.90	199.8	19.38	0.62	0.80	0.92
	8640	240.7	13.86	0.62	0.79	0.91	229.6	15.48	0.63	0.81	0.92	217.6	17.34	0.64	0.83	0.94	204.6	19.49	0.66	0.85	0.96
71°F	5760	241.9	13.88	0.43	0.54	0.66	231.1	15.5	0.43	0.55	0.67	219.4	17.36	0.43	0.56	0.69	206.6	19.52	0.43	0.57	0.71
	7200	249.9	14.01	0.43	0.57	0.71	238.5	15.65	0.44	0.58	0.73	226.1	17.5	0.44	0.60	0.75	212.7	19.64	0.45	0.61	0.77
	8640	255.5	14.12	0.44	0.61	0.76	243.8	15.74	0.45	0.62	0.78	230.8	17.6	0.45	0.63	0.81	216.8	19.73	0.46	0.65	0.83

### 24 TON HIGH EFFICIENCY SCC288H4M (ALL COMPRESSOR OPERATING)

#### MSAV® (Multi-Stage Air Volume) SUPPLY FAN OPTION

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		85°F						95°F						105°F						115°F					
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)				Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)				Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)				Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			
				Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb			
				cfm	kBtuh	kW	75°F			80°F	85°F	kBtuh	kW			75°F	80°F	85°F	kBtuh			kW	75°F	80°F	85°F
63°F	7680	291.5	17.56	0.71	0.85	0.97	278.6	19.68	0.72	0.86	0.99	264.4	22.1	0.74	0.89	1.00	249.2	24.88	0.76	0.91	1.00				
	9600	303	17.72	0.76	0.92	1.00	289.5	19.83	0.78	0.94	1.00	274.8	22.28	0.80	0.96	1.00	259.2	25.08	0.82	0.99	1.00				
	11520	312.4	17.87	0.81	0.97	1.00	298.7	19.99	0.83	0.99	1.00	284.6	22.43	0.86	1.00	1.00	269.6	25.27	0.89	1.00	1.00				
67°F	7680	309.9	17.83	0.56	0.68	0.81	295.9	19.96	0.57	0.70	0.83	280.7	22.39	0.57	0.71	0.85	264.4	25.18	0.59	0.73	0.88				
	9600	319.9	17.99	0.59	0.74	0.88	305.4	20.11	0.60	0.75	0.91	289.3	22.56	0.61	0.78	0.93	272.1	25.33	0.62	0.80	0.96				
	11520	327.3	18.11	0.62	0.79	0.95	312	20.25	0.63	0.81	0.97	295.6	22.69	0.65	0.84	0.99	277.8	25.45	0.66	0.87	1.00				
71°F	7680	330.4	18.16	0.42	0.54	0.66	315.6	20.3	0.42	0.55	0.67	299.7	22.72	0.43	0.56	0.69	282.3	25.53	0.43	0.57	0.71				
	9600	340.1	18.35	0.43	0.57	0.71	324.8	20.46	0.43	0.58	0.73	307.9	22.9	0.44	0.60	0.75	289.5	25.68	0.44	0.61	0.78				
	11520	347.1	18.45	0.44	0.61	0.77	330.9	20.58	0.45	0.62	0.79	313.4	23	0.45	0.64	0.81	294.4	25.78	0.46	0.65	0.84				

## BLOWER DATA

## SCC036H BLOWER PERFORMANCE

**NOTE - Blower Table Includes Resistance For Base Unit With Electric Heat, Wet Indoor Coil And Air Filters In Place.**

**NOTE** - Minimum 900 cfm with electric heat.

See Blower Motor / Drive Kit Table on page 34 for Motor HP and Drive Kit RPM Ranges Available.

Air Volume cfm		EXTERNAL STATIC PRESSURE - In. w.g.																								
		0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0		1.1		1.2		
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
900	507	0.32	577	0.35	650	0.37	728	0.39	802	0.41	867	0.44	919	0.46	968	0.48	1018	0.51	1068	0.53	1118	0.55	1168	0.57	1218	0.59
1000	525	0.34	593	0.37	665	0.39	740	0.41	813	0.43	876	0.46	928	0.49	976	0.51	1027	0.54	1077	0.56	1127	0.58	1177	0.60	1227	0.62
1100	543	0.36	611	0.39	682	0.41	754	0.43	825	0.45	887	0.49	938	0.52	985	0.54	1037	0.57	1087	0.59	1137	0.61	1187	0.63	1237	0.65
1200	562	0.38	630	0.41	700	0.43	770	0.45	839	0.48	899	0.52	949	0.55	996	0.57	1049	0.60	1099	0.62	1149	0.64	1199	0.66	1249	0.68
1300	583	0.40	651	0.43	720	0.45	788	0.47	854	0.51	912	0.55	960	0.58	1008	0.61	1061	0.64	1111	0.66	1161	0.68	1211	0.70	1261	0.72
1400	606	0.43	674	0.45	740	0.47	806	0.51	871	0.55	926	0.59	974	0.62	1022	0.65	1075	0.68	1125	0.70	1175	0.72	1225	0.74	1275	0.76
1500	630	0.45	697	0.48	762	0.50	826	0.54	888	0.59	941	0.63	988	0.67	1037	0.70	1092	0.73	1142	0.75	1192	0.77	1242	0.79	1292	0.81
1600	657	0.48	722	0.51	784	0.54	847	0.58	906	0.63	957	0.67	1004	0.71	1054	0.75	1110	0.78	1162	0.80	1212	0.82	1262	0.84	1312	0.86
1700	685	0.52	748	0.55	808	0.58	869	0.62	925	0.68	974	0.72	1021	0.76	1073	0.80	1130	0.84	1180	0.86	1226	0.88	1276	0.90	1326	0.92
1800	714	0.56	773	0.58	831	0.62	891	0.67	944	0.73	992	0.78	1041	0.82	1094	0.86	1151	0.90	1201	0.92	1247	0.94	1297	0.96	1347	0.98
1900	743	0.60	799	0.63	855	0.67	913	0.73	965	0.79	1012	0.83	1062	0.87	1115	0.91	1172	0.95	1222	0.96	1268	0.98	1318	1.00	1368	1.02
2000	771	0.64	824	0.67	880	0.72	936	0.79	986	0.85	1034	0.90	1084	0.93	1137	0.97	1194	1.01	1244	1.02	1290	1.04	1336	1.06	1386	1.08
2100	798	0.68	849	0.72	905	0.79	960	0.86	1009	0.92	1057	0.96	1107	1.00	1160	1.03	1216	1.07	1266	1.08	1312	1.10	1358	1.12	1408	1.14
2200	823	0.73	875	0.79	932	0.86	986	0.93	1034	0.98	1081	1.02	1131	1.06	1183	1.09	1239	1.13	1289	1.14	1335	1.16	1381	1.18	1431	1.20
2300	849	0.79	903	0.86	961	0.94	1012	1.01	1060	1.06	1107	1.09	1155	1.12	1207	1.16	1262	1.19	1312	1.20	1358	1.22	1404	1.24	1454	1.26
2400	876	0.86	934	0.94	991	1.03	1040	1.09	1086	1.13	1132	1.16	1181	1.19	1232	1.22	1286	1.25	1336	1.26	1382	1.28	1432	1.30	1482	1.32
2500	907	0.94	968	1.04	1022	1.12	1069	1.16	1113	1.20	1159	1.23	1207	1.26	1257	1.29	1311	1.32	1366	1.33	1423	1.35	1481	1.38	1541	1.42

NOTE - Bold - field furnished.

## BLOWER DATA

## SCC060H BLOWER PERFORMANCE

**NOTE - Blower Table Includes Resistance For Base Unit With Electric Heat, Wet Indoor Coil And Air Filters In Place.**

**NOTE - Minimum 1600 cfm with electric heat.**

See Blower Motor / Drive Kit Table on page 34 for Motor HP and Drive Kit RPM Ranges Available.

EXTERNAL STATIC PRESSURE - In. w.g.																								
Air Volume cfm	0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0		1.1		1.2	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	507	0.32	577	0.35	650	0.37	728	0.39	802	0.41	867	0.44	919	0.46	968	0.48	1018	0.51	---	---	---	---	---	---
1000	525	0.34	593	0.37	665	0.39	740	0.41	813	0.43	876	0.46	928	0.49	976	0.51	1027	0.54	1082	0.57	1138	0.60	---	---
1100	543	0.36	611	0.39	682	0.41	754	0.43	825	0.45	887	0.49	938	0.52	985	0.54	1037	0.57	1093	0.60	1149	0.64	1207	0.67
1200	562	0.38	630	0.41	700	0.43	770	0.45	839	0.48	899	0.52	949	0.55	996	0.57	1049	0.60	1105	0.64	1162	0.67	1220	0.71
1300	583	0.40	651	0.43	720	0.45	788	0.47	854	0.51	912	0.55	960	0.58	1008	0.61	1061	0.64	1117	0.68	1175	0.71	1233	0.75
1400	606	0.43	674	0.45	740	0.47	806	0.51	871	0.55	926	0.59	974	0.62	1022	0.65	1075	0.68	1132	0.72	1189	0.75	1248	0.79
1500	630	0.45	697	0.48	762	0.50	826	0.54	888	0.59	941	0.63	988	0.67	1037	0.70	1092	0.73	1149	0.77	1206	0.80	1265	0.84
1600	657	0.48	722	0.51	784	0.54	847	0.58	906	0.63	957	0.67	1004	0.71	1054	0.75	1110	0.78	1168	0.82	1226	0.86	1285	0.89
1700	685	0.52	748	0.55	808	0.58	869	0.62	925	0.68	974	0.72	1021	0.76	1073	0.80	1130	0.84	1189	0.88	1248	0.92	1307	0.96
1800	714	0.56	773	0.58	831	0.62	891	0.67	944	0.73	992	0.78	1041	0.82	1094	0.86	1151	0.90	1211	0.94	1270	0.98	1329	1.02
1900	743	0.60	799	0.63	855	0.67	913	0.73	965	0.79	1012	0.83	1062	0.87	1115	0.91	1172	0.95	1232	1.00	1291	1.04	1351	1.08
2000	771	0.64	824	0.67	880	0.72	936	0.79	986	0.85	1034	0.90	1084	0.93	1137	0.97	1194	1.01	1252	1.05	1312	1.09	1371	1.13
2100	798	0.68	849	0.72	905	0.79	960	0.86	1009	0.92	1057	0.96	1107	1.00	1160	1.03	1216	1.07	1274	1.11	1333	1.15	1393	1.19
2200	823	0.73	875	0.79	932	0.86	986	0.93	1034	0.98	1081	1.02	1131	1.06	1183	1.09	1239	1.13	1296	1.17	1355	1.21	1414	1.25
2300	849	0.79	903	0.86	961	0.94	1012	1.01	1060	1.06	1107	1.09	1155	1.12	1207	1.16	1262	1.19	1319	1.23	1377	1.27	1436	1.30
2400	876	0.86	934	0.94	991	1.03	1040	1.09	1086	1.13	1132	1.16	1181	1.19	1232	1.22	1286	1.25	1343	1.29	1400	1.32	1459	1.36
2500	907	0.94	968	1.04	1022	1.12	1069	1.16	1113	1.20	1159	1.23	1207	1.26	1257	1.29	1311	1.32	1366	1.35	1423	1.38	1481	1.42

NOTE - Bold = field furnished.

## BLOWER DATA

## SCC120H BLOWER PERFORMANCE

**NOTE - Blower Table Includes Resistance For Base Unit With Electric Heat, Wet Indoor Coil And Air Filters In Place.**

**NOTE - Minimum 3800 cfm with electric heat.**

See Blower Motor / Drive Kit Table on page 34 for Motor HP and Drive Kit RPM Ranges Available.

EXTERNAL STATIC PRESSURE - In. w.g.																										
Air Volume cfm	0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0		1.1		1.2		1.3	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	472	0.13	503	0.26	534	0.40	566	0.54	598	0.68	630	0.81	662	0.93	695	1.03	726	1.11	759	1.18	792	1.25	828	1.34	866	1.45
2200	484	0.23	514	0.36	545	0.50	576	0.64	608	0.77	640	0.90	672	1.01	703	1.11	735	1.19	767	1.26	800	1.34	837	1.43	875	1.54
2400	497	0.33	526	0.46	557	0.60	588	0.73	619	0.86	650	0.99	682	1.10	713	1.19	745	1.27	777	1.35	811	1.43	847	1.53	885	1.64
2600	510	0.44	539	0.57	569	0.70	600	0.83	631	0.96	662	1.08	693	1.19	725	1.29	756	1.37	788	1.44	822	1.53	858	1.63	896	1.75
2800	524	0.55	553	0.68	583	0.81	613	0.94	644	1.07	675	1.19	706	1.29	737	1.39	768	1.47	801	1.55	835	1.64	871	1.75	908	1.87
3000	538	0.67	567	0.79	597	0.93	627	1.06	658	1.18	689	1.30	720	1.41	751	1.50	782	1.58	815	1.67	849	1.76	884	1.87	922	1.99
3200	554	0.79	583	0.92	612	1.05	643	1.18	673	1.31	704	1.42	735	1.53	766	1.62	797	1.71	830	1.79	863	1.89	899	2.00	936	2.12
3400	570	0.92	599	1.05	629	1.18	659	1.31	690	1.44	721	1.55	752	1.66	782	1.75	814	1.84	846	1.93	879	2.03	914	2.13	951	2.25
3600	588	1.06	616	1.19	646	1.32	677	1.45	708	1.58	739	1.69	769	1.80	800	1.89	831	1.98	863	2.07	896	2.17	931	2.28	967	2.39
3800	606	1.21	635	1.34	665	1.48	696	1.61	727	1.73	758	1.85	788	1.95	818	2.04	849	2.13	881	2.22	913	2.32	948	2.42	983	2.53
4000	626	1.37	655	1.50	685	1.64	716	1.77	747	1.90	778	2.01	808	2.10	837	2.20	868	2.28	899	2.38	932	2.47	965	2.57	1000	2.68
4200	647	1.54	676	1.68	707	1.82	738	1.95	769	2.07	799	2.18	828	2.27	857	2.36	887	2.45	918	2.54	950	2.63	983	2.73	1018	2.84
4400	669	1.72	699	1.87	730	2.01	761	2.14	791	2.25	820	2.35	849	2.44	878	2.53	908	2.61	938	2.70	969	2.79	1002	2.89	1036	2.99
4600	693	1.92	724	2.07	755	2.21	785	2.34	814	2.45	842	2.54	871	2.62	899	2.71	928	2.79	958	2.87	989	2.96	1021	3.06	1054	3.16
4800	718	2.14	749	2.29	780	2.43	809	2.54	837	2.64	865	2.73	893	2.81	920	2.88	949	2.96	979	3.04	1009	3.13	1041	3.22	1073	3.32

**NOTE - MSAV® (Multi-Stage Air Volume) Supply Fan Option drive is capable of 350 - 1050 rpm.**

**BLOWER DATA****SCC240H BLOWER PERFORMANCE**

NOTE - Blower Table Includes Resistance For Base Unit With Electric Heat, Wet Indoor Coil And Air Filters In Place.

NOTE - Minimum 8000 cfm with electric heat.

See Blower Motor / Drive Kit Table on page 34 for Motor HP and Drive Kit RPM Ranges Available.

**EXTERNAL STATIC PRESSURE - In. w.g.**

Air Volume cfm	0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0		1.1		1.2		1.3	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	255	0.33	310	0.48	366	0.63	416	0.74	458	0.81	498	0.89	537	0.99	573	1.10	607	1.22	642	1.35	677	1.49	712	1.65	749	1.80
2200	258	0.37	313	0.52	369	0.67	418	0.78	460	0.85	500	0.92	538	1.03	574	1.15	609	1.27	643	1.40	678	1.55	714	1.70	751	1.86
2400	261	0.40	316	0.56	372	0.70	421	0.81	462	0.88	502	0.96	540	1.07	576	1.19	610	1.32	645	1.45	680	1.60	716	1.76	753	1.92
2600	265	0.44	319	0.60	375	0.74	423	0.85	464	0.92	505	1.00	542	1.11	578	1.24	612	1.37	646	1.51	682	1.66	718	1.82	755	1.98
2800	268	0.48	322	0.63	378	0.77	426	0.89	467	0.95	507	1.04	545	1.16	580	1.29	614	1.42	648	1.56	684	1.72	720	1.88	757	2.04
3000	272	0.51	326	0.67	382	0.81	429	0.92	470	0.99	510	1.09	547	1.21	582	1.34	616	1.48	650	1.63	686	1.78	723	1.94	759	2.10
3200	276	0.55	330	0.71	386	0.85	433	0.96	473	1.03	513	1.13	550	1.26	584	1.40	618	1.54	652	1.69	688	1.85	725	2.01	762	2.16
3400	280	0.59	335	0.74	391	0.88	437	1.00	477	1.08	516	1.18	552	1.32	587	1.46	620	1.61	655	1.76	691	1.91	727	2.07	764	2.23
3600	285	0.62	340	0.78	395	0.92	441	1.04	480	1.12	520	1.24	555	1.38	589	1.53	623	1.67	657	1.83	693	1.98	730	2.14	767	2.30
3800	290	0.66	345	0.81	400	0.96	445	1.08	484	1.17	523	1.29	559	1.44	592	1.59	626	1.74	660	1.90	696	2.06	733	2.22	770	2.38
4000	296	0.69	351	0.85	406	0.99	449	1.12	488	1.22	527	1.35	562	1.51	595	1.66	629	1.82	663	1.97	699	2.14	736	2.30	773	2.46
4200	301	0.73	358	0.88	411	1.03	453	1.17	493	1.27	531	1.41	565	1.57	599	1.73	632	1.89	666	2.05	702	2.22	739	2.39	776	2.56
4400	308	0.76	364	0.92	416	1.07	458	1.22	497	1.33	534	1.48	569	1.64	602	1.81	635	1.97	670	2.14	706	2.31	743	2.48	779	2.66
4600	315	0.80	371	0.95	422	1.12	463	1.26	502	1.39	539	1.54	573	1.71	606	1.88	639	2.05	673	2.22	710	2.40	746	2.58	783	2.76
4800	322	0.83	378	0.99	427	1.16	468	1.32	507	1.45	543	1.62	577	1.79	609	1.96	642	2.14	677	2.32	714	2.50	751	2.69	788	2.87
5000	330	0.86	386	1.03	433	1.21	473	1.38	512	1.52	547	1.69	581	1.87	613	2.05	647	2.22	682	2.41	718	2.60	755	2.79	792	2.98
5200	338	0.89	393	1.07	438	1.27	478	1.44	517	1.59	551	1.77	585	1.95	617	2.13	651	2.32	686	2.50	722	2.70	759	2.89	796	3.08
5400	346	0.92	400	1.12	444	1.33	484	1.51	522	1.67	556	1.86	589	2.04	622	2.23	655	2.41	690	2.60	727	2.79	764	2.98	801	3.17
5600	355	0.96	407	1.17	450	1.40	490	1.58	528	1.76	561	1.96	594	2.14	626	2.33	660	2.51	695	2.70	732	2.89	769	3.08	806	3.27
5800	364	1.00	414	1.23	457	1.47	496	1.65	533	1.85	566	2.06	599	2.24	631	2.43	665	2.61	701	2.81	737	3.00	774	3.19	811	3.38
6000	372	1.04	422	1.29	463	1.54	502	1.73	539	1.95	571	2.17	604	2.35	636	2.53	670	2.72	706	2.91	743	3.11	779	3.30	816	3.50
6200	381	1.08	429	1.36	470	1.62	508	1.82	544	2.05	576	2.28	609	2.46	641	2.64	676	2.82	712	3.02	749	3.22	785	3.42	822	3.62
6400	390	1.14	437	1.44	477	1.71	515	1.92	550	2.16	582	2.39	614	2.57	647	2.74	682	2.93	718	3.14	755	3.34	792	3.54	828	3.75
6600	399	1.20	444	1.53	484	1.80	521	2.02	556	2.28	587	2.51	620	2.68	653	2.85	688	3.04	725	3.25	762	3.46	798	3.67	835	3.87
6800	408	1.27	452	1.62	491	1.89	528	2.13	562	2.40	593	2.63	625	2.80	659	2.96	694	3.15	731	3.37	768	3.58	805	3.80	842	4.01
7000	417	1.35	460	1.71	498	1.99	535	2.24	568	2.52	599	2.74	631	2.91	665	3.08	700	3.27	737	3.48	775	3.70	812	3.92	848	4.14
7200	426	1.45	467	1.82	505	2.10	541	2.36	574	2.65	606	2.86	638	3.02	671	3.19	707	3.39	744	3.60	781	3.83	818	4.05	855	4.27
7400	435	1.55	475	1.93	513	2.22	548	2.49	580	2.77	612	2.98	644	3.14	677	3.31	713	3.50	750	3.72	788	3.94	825	4.17	861	4.39
7600	444	1.67	483	2.05	520	2.34	555	2.62	587	2.90	618	3.10	650	3.26	684	3.43	719	3.62	756	3.84	794	4.06	831	4.29	868	4.51
7800	452	1.80	491	2.18	528	2.47	562	2.75	594	3.02	625	3.22	657	3.38	690	3.55	726	3.74	763	3.96	800	4.18	837	4.40	874	4.62
8000	461	1.93	500	2.31	536	2.61	570	2.89	601	3.15	632	3.35	664	3.51	697	3.67	732	3.87	769	4.08	806	4.30	843	4.52	880	4.74
8200	470	2.08	508	2.45	544	2.75	577	3.03	608	3.29	639	3.47	671	3.63	704	3.80	739	3.99	775	4.20	812	4.42	849	4.64	886	4.86
8400	479	2.23	516	2.60	552	2.90	585	3.18	615	3.42	646	3.60	678	3.76	711	3.93	746	4.11	782	4.32	819	4.54	855	4.76	892	4.98
8600	488	2.39	525	2.76	560	3.05	592	3.33	623	3.56	653	3.74	685	3.89	718	4.06	752	4.24	788	4.44	825	4.66	862	4.88	898	5.10
8800	498	2.56	533	2.91	568	3.21	600	3.48	630	3.70	661	3.87	692	4.02	725	4.19	759	4.37	795	4.57	831	4.78	868	5.00	904	5.21
9000	507	2.73	542	3.08	576	3.37	608	3.63	638	3.85	668	4.01	699	4.16	732	4.32	766	4.50	802	4.69	838	4.90	874	5.12	911	5.33
9200	516	2.91	551	3.25	584	3.53	616	3.78	645	3.99	676	4.15	707	4.29	739	4.45	773	4.63	808	4.82	844	5.03	881	5.24	917	5.46
9400	526	3.09	560	3.42	593	3.69	623	3.94	653	4.13	683	4.28	714	4.43	746	4.58	780	4.76	815	4.95	851	5.15	887	5.36	923	5.58
9600	535	3.27	569	3.59	601	3.86	631	4.10	661	4.28	691	4.42	721	4.56	753	4.72	787	4.89	822	5.08	858	5.28	894	5.49	930	5.70

**BLOWER DATA****SCC288H BLOWER PERFORMANCE**

NOTE - Blower Table Includes Resistance For Base Unit With Electric Heat, Wet Indoor Coil And Air Filters In Place.

NOTE - Minimum 8000 cfm with electric heat.

See Blower Motor / Drive Kit Table on page 34 for Motor HP and Drive Kit RPM Ranges Available.

**EXTERNAL STATIC PRESSURE - In. w.g.**

Air Volume cfm	0.2		0.3		0.4		0.5		0.6		0.7		0.8		0.9		1.0		1.1		1.2		1.3	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2400	327	0.42	377	0.54	428	0.65	479	0.75	527	0.87	568	0.99	599	1.10	628	1.22	659	1.31	690	1.40	719	1.51	746	1.66
2600	330	0.44	379	0.57	430	0.68	481	0.79	529	0.91	570	1.03	601	1.15	630	1.27	661	1.37	692	1.46	721	1.58	748	1.72
2800	333	0.46	381	0.59	432	0.71	483	0.83	531	0.95	572	1.08	603	1.20	632	1.32	664	1.43	694	1.53	723	1.65	750	1.79
3000	336	0.49	384	0.62	434	0.75	485	0.87	534	1.00	574	1.13	605	1.26	634	1.38	666	1.49	697	1.59	725	1.71	752	1.86
3200	339	0.51	387	0.65	437	0.79	488	0.91	536	1.05	576	1.18	608	1.31	637	1.44	668	1.55	699	1.66	727	1.78	754	1.93
3400	343	0.54	391	0.69	440	0.83	491	0.96	539	1.10	579	1.24	610	1.37	639	1.50	670	1.62	701	1.73	730	1.86	756	2.00
3600	346	0.58	394	0.72	444	0.87	495	1.01	542	1.15	581	1.29	612	1.43	641	1.57	672	1.69	703	1.80	732	1.93	758	2.08
3800	351	0.61	398	0.76	448	0.91	498	1.06	545	1.20	584	1.35	614	1.50	643	1.64	675	1.76	705	1.88	734	2.01	760	2.16
4000	355	0.65	403	0.81	452	0.96	502	1.11	549	1.26	587	1.41	617	1.56	645	1.71	677	1.84	708	1.96	736	2.09	762	2.24
4200	360	0.69	407	0.85	456	1.01	506	1.16	553	1.32	590	1.47	619	1.63	648	1.78	679	1.91	710	2.04	739	2.17	765	2.32
4400	365	0.73	412	0.90	461	1.06	511	1.22	556	1.38	593	1.54	622	1.70	650	1.86	682	1.99	713	2.12	741	2.25	767	2.40
4600	370	0.78	417	0.95	466	1.12	516	1.28	560	1.44	597	1.61	625	1.78	653	1.94	684	2.08	715	2.2	744	2.34	769	2.49
4800	375	0.83	422	1.01	471	1.18	520	1.34	565	1.50	600	1.68	628	1.85	656	2.02	687	2.16	718	2.29	746	2.43	772	2.59
5000	381	0.89	428	1.06	477	1.23	525	1.40	569	1.57	604	1.75	631	1.93	658	2.10	690	2.25	720	2.38	749	2.52	774	2.68
5200	387	0.94	434	1.12	483	1.30	531	1.47	573	1.64	607	1.83	634	2.02	661	2.19	692	2.34	723	2.48	751	2.62	777	2.78
5400	393	1.00	440	1.19	489	1.36	536	1.53	577	1.72	610	1.91	636	2.10	664	2.28	695	2.43	726	2.57	754	2.71	780	2.87
5600	400	1.07	447	1.25	495	1.43	541	1.61	581	1.80	613	2.00	639	2.19	667	2.37	698	2.53	729	2.66	757	2.81	783	2.98
5800	407	1.13	454	1.32	501	1.50	546	1.68	585	1.88	616	2.09	642	2.29	670	2.47	701	2.62	732	2.76	760	2.91	786	3.08
6000	414	1.20	461	1.39	507	1.57	551	1.76	589	1.97	619	2.18	645	2.38	673	2.57	704	2.72	735	2.86	763	3.01	788	3.19
6200	422	1.27	468	1.46	514	1.65	556	1.85	593	2.06	622	2.27	648	2.48	676	2.66	707	2.82	738	2.96	766	3.12	792	3.31
6400	429	1.34	475	1.53	520	1.73	561	1.94	596	2.16	625	2.37	651	2.58	679	2.76	711	2.92	742	3.07	770	3.23	795	3.43
6600	437	1.41	482	1.61	526	1.82	566	2.04	600	2.26	628	2.47	655	2.68	683	2.86	715	3.03	745	3.18	773	3.35	798	3.55
6800	445	1.49	490	1.69	532	1.91	571	2.14	603	2.37	632	2.58	658	2.78	687	2.97	718	3.13	749	3.29	777	3.47	801	3.68
7000	453	1.56	497	1.78	538	2.01	575	2.25	607	2.48	635	2.69	662	2.88	691	3.07	722	3.24	753	3.41	780	3.59	805	3.82
7200	461	1.64	504	1.87	544	2.12	580	2.37	611	2.60	639	2.80	666	2.99	695	3.18	727	3.35	757	3.53	784	3.72	808	3.96
7400	470	1.73	511	1.97	550	2.23	584	2.49	615	2.72	642	2.92	670	3.10	700	3.29	731	3.47	761	3.65	788	3.86	812	4.10
7600	478	1.82	519	2.08	556	2.36	589	2.62	619	2.85	646	3.04	674	3.22	704	3.41	735	3.59	765	3.78	792	4.00	815	4.25
7800	486	1.92	526	2.20	562	2.48	594	2.75	623	2.98	651	3.16	679	3.34	709	3.53	740	3.72	769	3.92	796	4.15	819	4.41
8000	494	2.03	533	2.32	568	2.62	599	2.89	627	3.11	655	3.29	684	3.46	714	3.65	745	3.85	774	4.07	800	4.30	823	4.57
8200	502	2.14	540	2.44	574	2.76	605	3.03	633	3.25	660	3.42	689	3.59	719	3.79	750	3.99	778	4.22	804	4.46	826	4.73
8400	510	2.26	547	2.58	581	2.89	611	3.17	638	3.38	666	3.56	694	3.72	724	3.93	755	4.14	783	4.37	808	4.63	830	4.90
8600	518	2.39	554	2.71	587	3.04	617	3.31	644	3.52	671	3.69	700	3.86	730	4.07	759	4.30	787	4.53	812	4.80	834	5.08
8800	526	2.52	561	2.86	594	3.19	623	3.46	650	3.66	677	3.83	705	4.01	735	4.22	764	4.45	792	4.70	816	4.97	838	5.26
9000	534	2.66	568	3.01	600	3.34	629	3.61	655	3.81	683	3.98	711	4.16	740	4.38	769	4.62	796	4.87	820	5.15	842	5.44
9200	541	2.81	575	3.17	606	3.50	634	3.77	661	3.96	688	4.13	717	4.31	746	4.54	775	4.78	801	5.05	825	5.34	846	5.64
9400	548	2.97	582	3.34	613	3.67	640	3.93	667	4.12	694	4.29	723	4.47	751	4.70	780	4.96	806	5.23	829	5.53	851	5.84
9600	556	3.14	588	3.51	619	3.84	646	4.10	673	4.28	700	4.45	728	4.64	757	4.88	785	5.14	810	5.42	834	5.73	855	6.04
9800	563	3.31	595	3.68	625	4.02	652	4.26	679	4.45	706	4.62	734	4.81	763	5.06	790	5.33	815	5.62	838	5.93	859	6.25
10,000	569	3.48	601	3.86	631	4.19	658	4.44	685	4.62	712	4.79	740	4.99	768	5.24	795	5.52	820	5.82	843	6.14	864	6.47
10,200	576	3.66	608	4.04	637	4.37	664	4.61	691	4.79	718	4.97	746	5.17	774	5.43	800	5.72	825	6.03	847	6.36	869	6.69
10,400	583	3.84	614	4.23	643	4.55	670	4.79	697	4.97	724	5.15	752	5.36	779	5.63	806	5.92	830	6.25	852	6.58	873	6.91
10,600	589	4.03	620	4.41	649	4.74	677	4.97	703	5.15	730	5.33	758	5.56	785	5.83	811	6.14	835	6.47	857	6.81	878	7.14
10,800	596	4.22	626	4.60	655	4.92	683	5.15	709	5.33	736	5.53	764	5.76	791	6.04	816	6.36	840	6.70	862	7.05	883	7.38
11,000	602	4.41	632	4.78	662	5.10	689	5.33	716	5.52	743	5.72	770	5.97	797	6.26	822	6.58	845	6.93	867	7.28	888	7.62
11,200	608	4.60	639	4.97	668	5.29	695	5.52	722	5.71	749	5.92	776	6.18	802	6.48	827	6.81	850	7.17	872	7.53	893	7.86
11,400	615	4.79	645	5.16	674	5.47	701	5.71	728	5.91	755	6.13	782	6.40	808	6.71	833	7.05	855	7.41	877	7.77	898	8.11
11,600	621	4.98	651	5.35	680	5.66	708	5.90	735	6.11	761	6.34	788	6.62	814	6.94	838	7.29	861	7.66	882	8.03	903	8.36

## BLOWER DATA

### CONSTANT AIR VOLUME DRIVE KIT SPECIFICATIONS

Model No.	Nominal hp	Maximum hp	Drive Kit Number	RPM Range
036	1.5	1.7	#6 #3	595 - 890 960 - 1320
060	1.5	1.7	#1 #4	765 - 1075 1070 - 1430

### MSAV® (MULTI-STAGE AIR VOLUME) DRIVE KIT SPECIFICATIONS

Model No.	Nominal / Maximum hp	Drive Kit Number	RPM Range
120	3	#3 #4	660 - 900 865 - 1080
240/288	5	#4 #5	520 - 685 685 - 865
	7.5	#7	770 - 965

### POWER EXHAUST FANS STANDARD STATIC PERFORMANCE

SCC120H		SCC240H		SCC288H	
Return Air System Static Pressure	Air Volume Exhausted	Return Air System Static Pressure	Air Volume Exhausted	Return Air System Static Pressure	Air Volume Exhausted
in. w.g.	cfm	in. w.g.	cfm	in. w.g.	cfm
0.05	4085	0	10,200	0	12,800
0.10	3685	0.05	9700	0.05	12,200
0.15	3280	0.10	9200	0.10	11,500
0.20	2880	0.15	8600	0.15	10,800
0.25	2475	0.20	8100	0.20	9900
---	---	0.25	7600	0.25	9000
---	---	0.30	6900	0.30	7900
---	---	0.35	6000	0.35	6750
---	---	0.40	5000	0.40	5450
---	---	0.45	4150	0.45	4150
---	---	---	---	0.50	2900

**ELECTRICAL DATA****3 - 5 TON**

Model No.		SCC036H4			SCC060H4		
<sup>1</sup> Voltage - 60hz		208/230V-3 Ph	460V-3 Ph	575V-3 Ph	208/230V-3 Ph	460V-3 Ph	575V-3 Ph
<b>Compressor</b>	Rated Load Amps	9	5.6	3.8	16	7.8	5.7
	Locked Rotor Amps	71	38	36.5	110	52	38.9
<b>Outdoor Fan Motor(s)</b>	Full Load Amps (total)	(1) 0.9	(1) 0.6	(1) 0.5	(2) 0.9 (1.8)	(2) 0.6 (1.2)	(2) 0.5 (1)
<b>Service Outlet 115V GFI (Amps)</b>		20	20	20	20	20	20
<b>Indoor Blower Motor</b>	Horsepower	1.5	1.5	1.5	1.5	1.5	1.5
	Full Load Amps	5.7	2.8	2.4	5.7	2.8	2.4
<sup>2</sup> <b>Maximum Overcurrent Protection</b>	Unit Only	25	15	15	40	20	15
<sup>3</sup> <b>Minimum Circuit Ampacity</b>	Unit Only	18	11	8	28	14	11

**ELECTRICAL HEAT DATA**

Electric Heat Voltage			208V	240V	480V	575V	208V	240V	480V	575V
<sup>2</sup> <b>Maximum Overcurrent Protection</b>	Unit+ Electric Heat	<b>10 kW</b>	---	---	20	---	---	---	20	---
		<b>15 kW</b>	<sup>4</sup> 50	60	30	25	<sup>4</sup> 50	60	30	25
		<b>20 kW</b>	---	---	---	---	---	---	35	---
		<b>30 kW</b>	---	---	---	---	<sup>4</sup> 90	100	50	40
<sup>3</sup> <b>Minimum Circuit Ampacity</b>	Unit+ Electric Heat	<b>10 kW</b>	---	---	19	---	---	---	19	---
		<b>15 kW</b>	47	53	27	22	47	53	27	22
		<b>20 kW</b>	---	---	---	---	---	---	34	---
		<b>30 kW</b>	---	---	---	---	86	98	49	40

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> NOTE - Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.<sup>4</sup> Factory installed circuit breaker not available.

# ELECTRICAL DATA

10 TON

Model No.		SCC120H4		
<sup>1</sup> Voltage - 60hz		208/230V-3 Ph	460V-3 Ph	575V-3 Ph
Compressor 1	Rated Load Amps	16	7.8	5.7
	Locked Rotor Amps	110	52	38.9
Compressor 2	Rated Load Amps	16	7.8	5.7
	Locked Rotor Amps	110	52	38.9
Outdoor Fan Motors (3)	Full Load Amps	2.4	1.3	1
	(total)	(7.2)	(3.9)	(3)
Power Exhaust (1) 0.5 HP	Full Load Amps	3	1.5	1.2
Service Outlet 115V GFI (Amps)		20	20	20
Indoor Blower Motor	Horsepower	3	3	3
	Full Load Amps	10.6	4.8	3.9
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	60	30	25
	With (1) 0.5 HP Power Exhaust	70	35	25
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	54	27	20
	With (1) 0.5 HP Power Exhaust	57	28	21

# ELECTRICAL HEAT DATA

Electric Heat Voltage			208V	240V	480V	600V
<sup>2</sup> Maximum Overcurrent Protection	Unit+ Electric Heat	15 kW	60	60	30	25
		20 kW	---	---	40	---
		30 kW	<sup>4</sup> 100	110	60	45
		40 kW	---	---	70	---
		45 kW	150	150	80	60
		60 kW	<sup>4</sup> 150	175	80	70
<sup>3</sup> Minimum Circuit Ampacity	Unit+ Electric Heat	15 kW	54	59	29	23
		20 kW	---	---	37	---
		30 kW	92	104	52	41
		40 kW	---	---	67	---
		45 kW	131	149	74	60
		60 kW	139	158	79	63
<sup>2</sup> Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.5 HP Power Exhaust	15 kW	70	70	35	25
		20 kW	---	---	40	---
		30 kW	<sup>4</sup> 100	110	60	45
		40 kW	---	---	70	---
		45 kW	<sup>4</sup> 150	175	80	70
		60 kW	<sup>4</sup> 150	175	90	70
<sup>3</sup> Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.5 HP Power Exhaust	15 kW	57	63	31	25
		20 kW	---	---	38	---
		30 kW	96	108	53	43
		40 kW	---	---	69	---
		45 kW	135	153	76	61
		60 kW	143	162	81	65

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> NOTE - Extremes of operating range are plus and minus 10% of line voltage.

<sup>2</sup> HACR type breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<sup>4</sup> Factory installed circuit breaker not available.

# ELECTRICAL DATA

20 TON

Model No.		SCC240H4					
<sup>1</sup> Voltage - 60hz		208/230V-3 Ph		460V-3 Ph		575V-3 Ph	
Compressor 1	Rated Load Amps	16		7.8		5.7	
	Locked Rotor Amps	110		52		38.9	
Compressor 2	Rated Load Amps	16		7.8		5.7	
	Locked Rotor Amps	110		52		38.9	
Compressor 3	Rated Load Amps	16		7.8		5.7	
	Locked Rotor Amps	110		52		38.9	
Compressor 4	Rated Load Amps	16		7.8		5.7	
	Locked Rotor Amps	110		52		38.9	
Outdoor Fan Motors (6)	Full Load Amps	2.4		1.3		1	
	(total)	(14.4)		(7.8)		(6)	
Power Exhaust (3) 0.33 HP	Full Load Amps	2.4		1.3		1	
	(total)	(7.2)		(3.9)		(3)	
Service Outlet 115V GFI (Amps)		20		20		20	
Indoor Blower Motor	Horsepower	5	7.5	5	7.5	5	7.5
	Full Load Amps	16.7	24.2	7.6	11	6.1	9
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	110	125	50	60	40	45
	With (3) 0.33 HP Power Exhaust	110	125	60	60	45	50
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	100	109	49	53	37	41
	With (3) 0.33 HP Power Exhaust	107	116	53	57	40	44

# ELECTRICAL HEAT DATA

Electric Heat Voltage				208V	240V	208V	240V	480V	480V	600V	600V
<sup>2</sup> Maximum Overcurrent Protection	Unit+ Electric Heat	20 kW		---	---	---	---	50	60	---	---
		30 kW		<sup>4</sup> 110	125	125	125	60	60	45	50
		40 kW		---	---	---	---	70	80	---	---
		60 kW		<sup>4</sup> 150	175	175	175	90	90	70	70
		80 kW		---	---	---	---	110	110	---	---
		90 kW		<sup>4</sup> 225	250	<sup>4</sup> 225	250	125	125	100	100
<sup>3</sup> Minimum Circuit Ampacity	Unit+ Electric Heat	20 kW		---	---	---	---	49	53	---	---
		30 kW		100	112	109	121	55	59	44	48
		40 kW		---	---	---	---	70	74	---	---
		60 kW		146	166	156	175	82	86	66	69
		80 kW		---	---	---	---	106	110	---	---
		90 kW		209	238	218	247	118	123	95	98
<sup>2</sup> Maximum Overcurrent Protection	Unit+ Electric Heat and (3) 0.33 HP Power Exhaust	20 kW		---	---	---	---	60	60	---	---
		30 kW		<sup>4</sup> 110	125	<sup>4</sup> 125	150	60	70	50	60
		40 kW		---	---	---	---	80	80	---	---
		60 kW		175	175	<sup>4</sup> 175	200	90	100	70	80
		80 kW		---	---	---	---	125	125	---	---
		90 kW		<sup>4</sup> 225	250	<sup>4</sup> 250	<sup>4</sup> 300	125	150	100	110
<sup>3</sup> Minimum Circuit Ampacity	Unit+ Electric Heat and (3) 0.33 HP Power Exhaust	20 kW		---	---	---	---	53	57	---	---
		30 kW		109	121	118	130	60	64	48	52
		40 kW		---	---	---	---	75	79	---	---
		60 kW		155	175	165	184	87	91	70	73
		80 kW		---	---	---	---	111	115	---	---
		90 kW		218	247	227	256	123	127	98	102

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> NOTE - Extremes of operating range are plus and minus 10% of line voltage.

<sup>2</sup> HACR type breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<sup>4</sup> Factory installed circuit breaker not available.

# ELECTRICAL DATA

24 TON

Model No.		SCC288H4					
<sup>1</sup> Voltage - 60hz		208/230V-3 Ph		460V-3 Ph		575V-3 Ph	
Compressor 1	Rated Load Amps	22.4		10.6		7.7	
	Locked Rotor Amps	149		75		54	
Compressor 2	Rated Load Amps	22.4		10.6		7.7	
	Locked Rotor Amps	149		75		54	
Compressor 3	Rated Load Amps	22.4		10.6		7.7	
	Locked Rotor Amps	149		75		54	
Compressor 4	Rated Load Amps	22.4		10.6		7.7	
	Locked Rotor Amps	149		75		54	
Outdoor Fan Motors (6)	Full Load Amps	2.4		1.3		1	
	(total)	14.4		7.8		. 6	
Power Exhaust (3) 0.33 HP	Full Load Amps	2.4		1.3		1	
	(total)	7.2		3.9		3	
Service Outlet 115V GFI (Amps)		20		20		20	
Indoor Blower Motor	Horsepower	5	7.5	5	7.5	5	7.5
	Full Load Amps	16.7	24.2	7.6	11	6.1	9
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	150	150	70	70	50	50
	With (3) 0.33 HP Power Exhaust	150	150	70	70	50	60
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	127	135	61	64	45	48
	With (3) 0.33 HP Power Exhaust	134	142	65	68	48	52

# ELECTRICAL HEAT DATA

Electric Heat Voltage			208V	240V	208V	240V	480V	480V	600V	600V
<sup>2</sup> Maximum Overcurrent Protection	Unit+ Electric Heat	30 kW	150	150	150	150	70	70	50	50
		60 kW	<sup>4</sup> 150	175	175	175	90	90	70	70
		90 kW	<sup>4</sup> 225	250	<sup>4</sup> 225	250	125	125	100	100
<sup>3</sup> Minimum Circuit Ampacity	Unit+ Electric Heat	30 kW	127	127	135	135	61	64	45	49
		60 kW	146	166	156	175	82	86	66	69
		90 kW	209	238	218	247	118	123	95	98
<sup>2</sup> Maximum Overcurrent Protection	Unit+ Electric Heat and (3) 0.33 HP Power Exhaust	30 kW	150	150	150	150	70	70	50	60
		60 kW	175	175	<sup>4</sup> 175	20	90	100	70	80
		90 kW	<sup>4</sup> 225	250	<sup>4</sup> 250	<sup>4</sup> 300	125	150	100	110
<sup>3</sup> Minimum Circuit Ampacity	Unit+ Electric Heat and (3) 0.33 HP Power Exhaust	30 kW	134	134	142	142	65	68	48	52
		60 kW	155	175	165	184	87	91	70	73
		90 kW	218	247	227	256	123	127	98	102

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> NOTE - Extremes of operating range are plus and minus 10% of line voltage.

<sup>2</sup> HACR type breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<sup>4</sup> Factory installed circuit breaker not available.

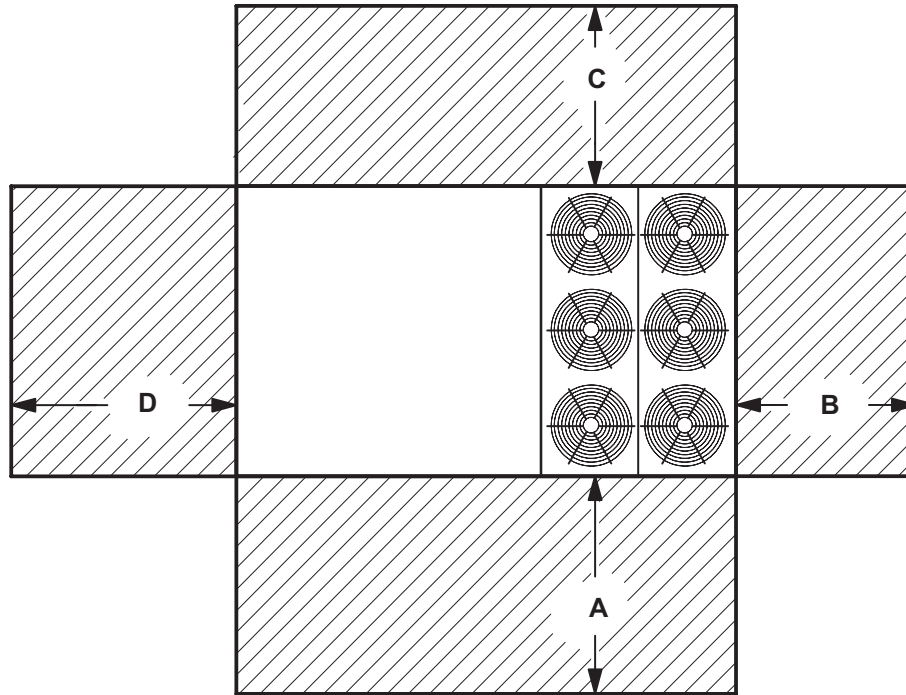
## OUTDOOR SOUND DATA

Unit Model No.	Octave Band Linear Sound Power Levels dB, re 10 <sup>-12</sup> Watts Center Frequency - HZ							<sup>1</sup> Sound Rating Number (SRN) dBA
	125	250	500	1000	2000	4000	8000	
036	78	75	74	72	68	62	55	76
060	79	79	76	73	68	63	56	78
120	91	89	87	83	78	73	68	90
240	94	91	90	87	83	79	72	92
288	95	93	92	88	84	81	75	94

Note - The octave sound power data does not include tonal corrections.

<sup>1</sup> Sound Rating Number according to ARI Standard 270-95 or ARI Standard 370-2001 (includes pure tone penalty). "SRN" is the overall A-Weighted Sound Power Level, (L<sub>WA</sub>), dB (100 Hz to 10,000 Hz).

## UNIT CLEARANCES - INCHES (MM)



¹ Unit Clearance		A		B		C		D		Top Clearance	
		in.	mm	in.	mm	in.	mm	in.	mm		
Service Clearance	036, 060	48	1219	36	914	60	1524	60	1524	Unobstructed	
	120	60	1524	36	914	60	1524	60	1524	Unobstructed	
	240/288	72	1829	36	914	60	1524	96	2438	Unobstructed	
Minimum Operation Clearance		All	36	914	36	914	36	914	36	914	Unobstructed

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

<sup>1</sup> **Service Clearance** - Required for removal of serviceable parts.

**Minimum Operation Clearance** - Required clearance for proper unit operation.

## WEIGHT DATA

Model Number	Net		Shipping	
	lbs.	kg	lbs.	kg
SCC036 Base Unit	843	382	943	428
SCC036 Max Unit	919	417	1019	462
SCC060 Base Unit	884	401	984	446
SCC060 Max Unit	967	439	1067	484
SCC120 Base Unit	1470	667	1570	713
SCC120 Max Unit	1643	746	1743	791
SCC240 Base Unit	2725	1236	2825	1281
SCC240 Max Unit	3027	1373	3127	1418
SCC288 Base Unit	2825	1281	2925	1327
SCC288 Max Unit	3127	1418	3227	1464

## OPTIONS / ACCESSORIES

Description	Shipping Weight		
	lbs.	kg	
ECONOMIZER / OUTDOOR AIR / EXHAUST			
Economizer	036 or 060	50	23
	120	70	32
	240 and 288	138	63
Outdoor Air Dampers	036 or 060	24	11
	120	26	12
	240 and 288	68	31
Power Exhaust	120	28	13
	240 and 288	99	45

### ELECTRIC HEAT

Electric Heat	10 kW (036-060-120 models)	31	14
	15 kW (036-060-120 models)	31	14
	20 kW (060 and 120 models)	38	17
	30 kW (060-120 models)	38	17
	40 kW (120 models)	42	19
	45 kW (120 models)	42	19
	60 kW (120 models)	49	22
	20 kW (240 and 288 models)	59	27
	30 kW (240 and 288 models)	59	27
	40 kW (240 and 288 models)	76	34
	45 kW (240 and 288 models)	76	34
	60 kW (240 and 288 models)	76	34
	80 kW (240 and 288 models)	84	38
	90 kW (240 and 288 models)	84	38

### PACKAGING

LTL Packaging (less than truck load)	036 or 060	90	41
	120	105	48
	240 and 288	300	136

### ROOF CURBS

Hybrid Roof Curbs, Downflow 14 in. height	036 or 060	70	32
	120	80	36
	240 and 288	115	52
Hybrid Roof Curbs, Downflow 24 in. height	036 or 060	105	48
	120	120	54
	240 and 288	170	77

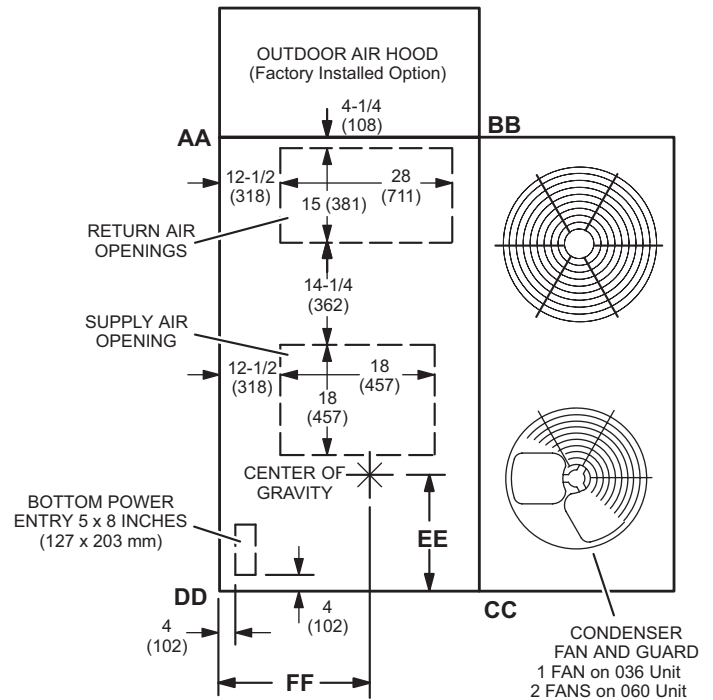
# DIMENSIONS - UNIT - INCHES (MM)

# SCC036H AND SCC060H

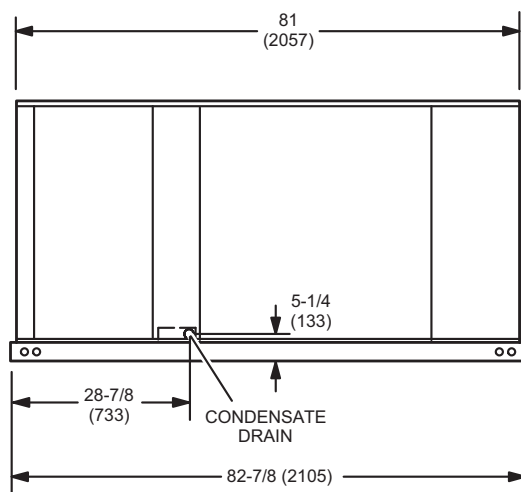
## CORNER WEIGHTS

Model No.	AA		BB		CC		DD		CENTER OF GRAVITY		FF	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm
SCC036H Base Unit	194	88	206	93	229	104	214	97	38-1/2	978	29-1/2	749
SCC036H Max. Unit	212	96	224	102	250	113	233	106	38-1/2	978	29-1/2	749
SCC060H Base Unit	204	92	216	98	240	109	224	102	38-1/2	978	29-1/2	749
SCC060H Max. Unit	223	101	236	107	263	119	245	111	38-1/2	978	29-1/2	749

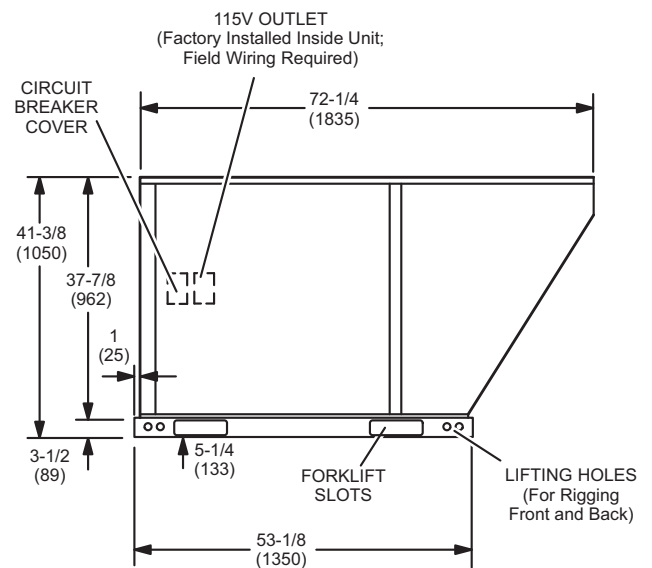
Max. Unit - The Base Unit with ALL OPTIONS Installed. (Economizer and controls)



TOP VIEW



SIDE VIEW



FRONT VIEW

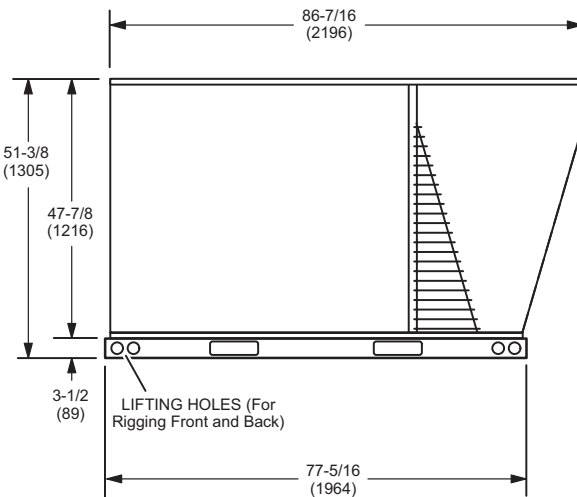
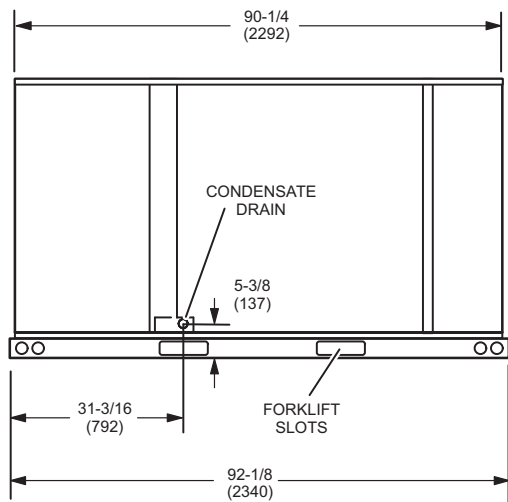
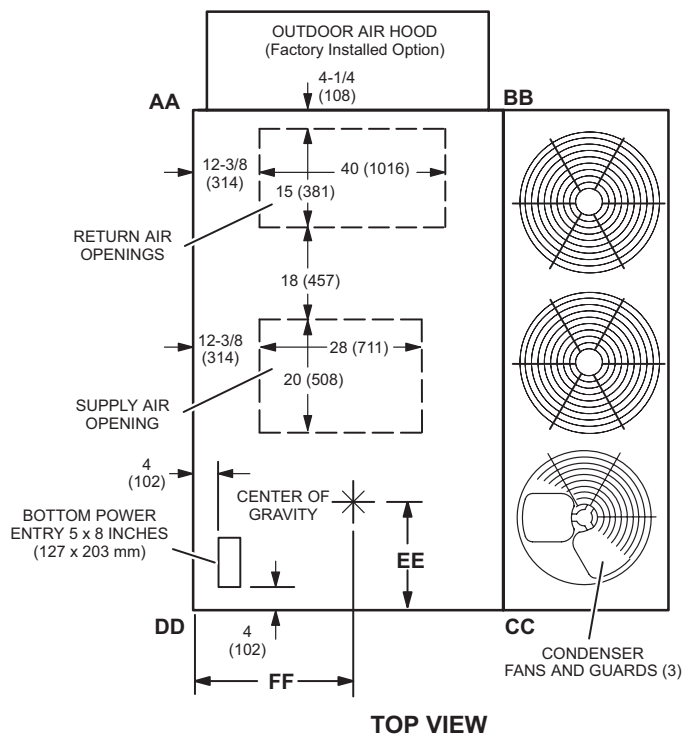
# DIMENSIONS - UNIT - INCHES (MM)

SCC120H

## CORNER WEIGHTS

Model No.	AA		BB		CC		DD		CENTER OF GRAVITY		FF	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm
SCC120H Base Unit	355	161	344	156	378	171	392	178	42-1/2	1080	37	940
SCC120H Max. Unit	397	180	385	175	422	192	439	199	42-1/2	1080	37	940

Max. Unit - The Base Unit with ALL OPTIONS Installed. (Economizer and controls)



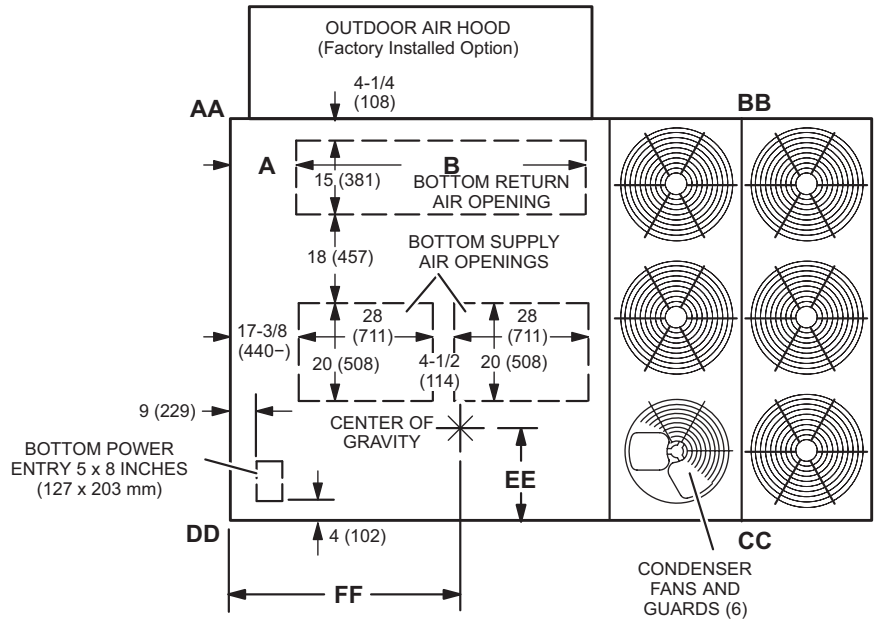
# DIMENSIONS - UNIT - INCHES (MM)

# SCC240H AND SCC288H

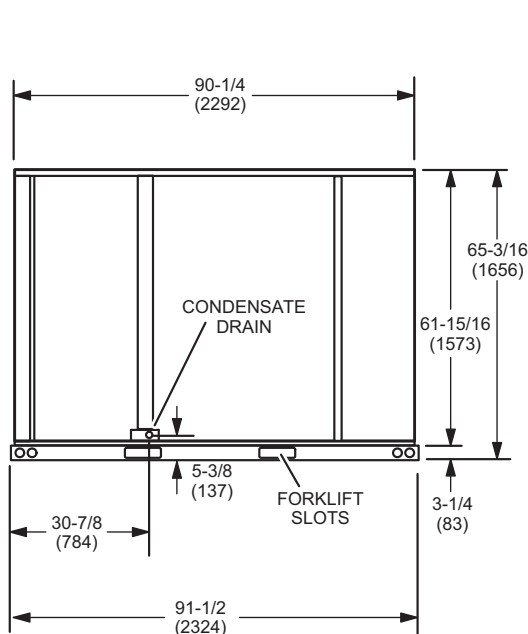
## CORNER WEIGHTS

Model No.	AA		BB		CC		DD		EE		FF	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm
SCC240H Base Unit	586	266	606	275	780	354	754	342	40	1016	61-1/4	1556
SCC240H Max. Unit	727	330	704	319	785	356	811	368	43-1/4	1099	59-1/4	1505
SCC288H Base Unit	585	265	620	281	834	378	787	357	39	991	62	1575
SCC288H Max. Unit	726	330	717	325	836	379	847	384	42-1/4	1073	59-7/8	1521

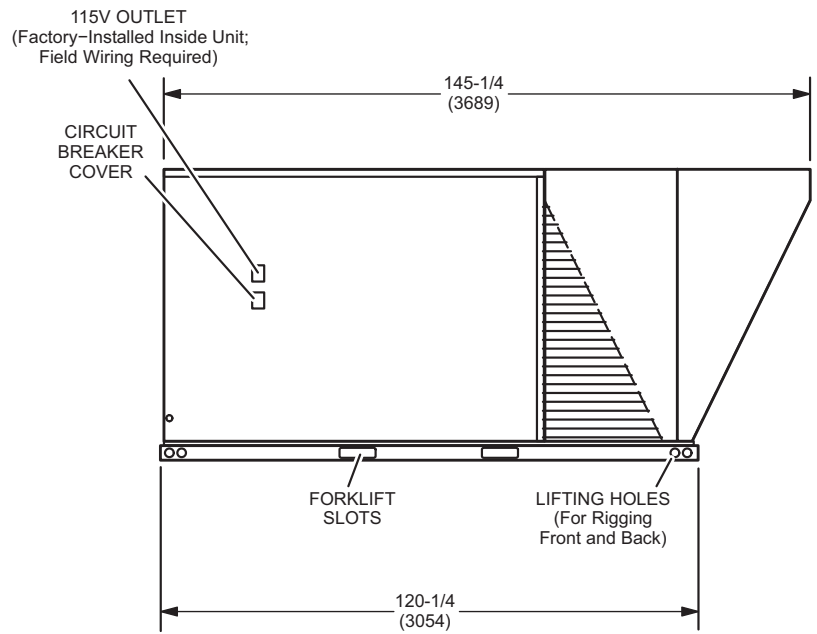
Max. Unit - The Base Unit with ALL OPTIONS Installed. (Economizer and controls)



TOP VIEW



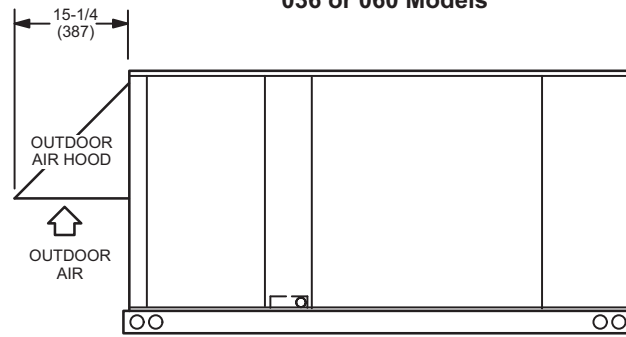
SIDE VIEW



FRONT VIEW

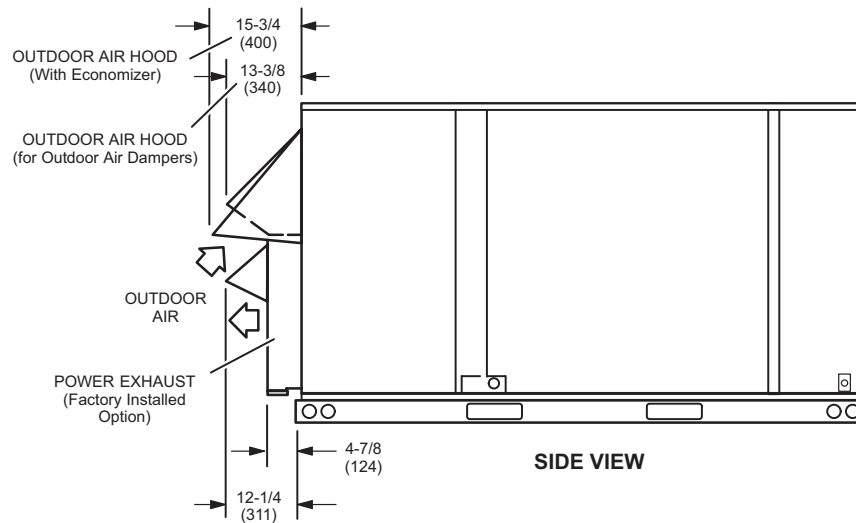
Model No.	A		B	
	in.	mm	in.	mm
240	17-3/8	441	60-1/2	1537
288	5-3/4	146	78-1/2	1994

**OPTIONAL OUTDOOR AIR HOOD DETAIL  
036 or 060 Models**



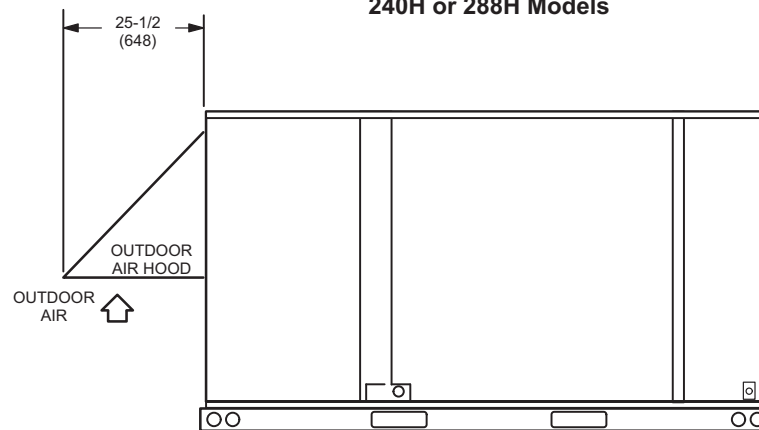
**SIDE VIEW**

**OPTIONAL OUTDOOR AIR HOOD DETAIL  
OPTIONAL POWER EXHAUST DETAIL  
120H Models**



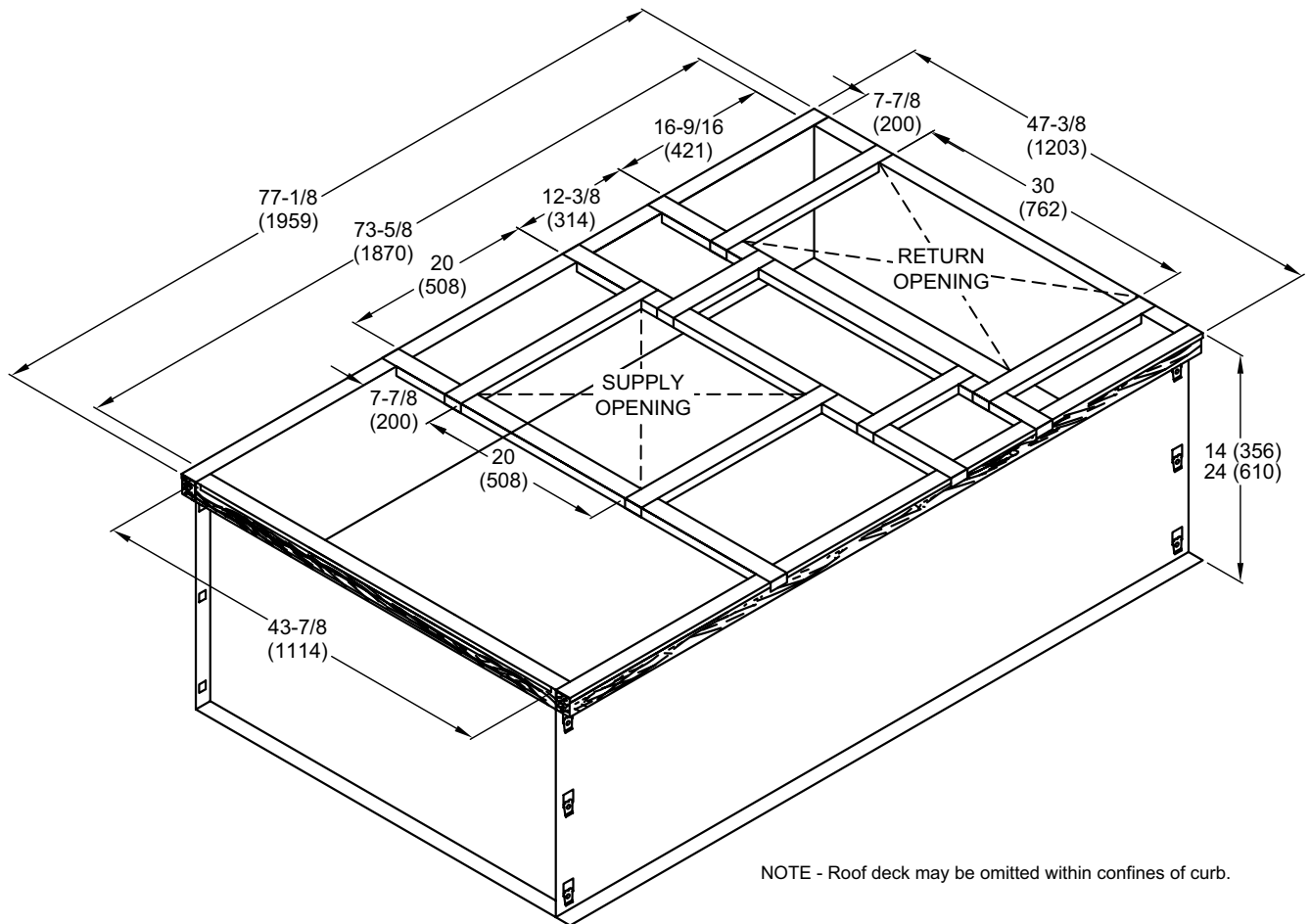
**SIDE VIEW**

**OPTIONAL OUTDOOR AIR HOOD DETAIL  
240H or 288H Models**

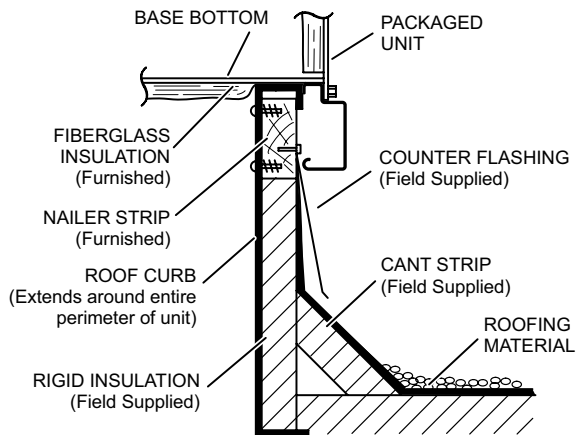


**SIDE VIEW**

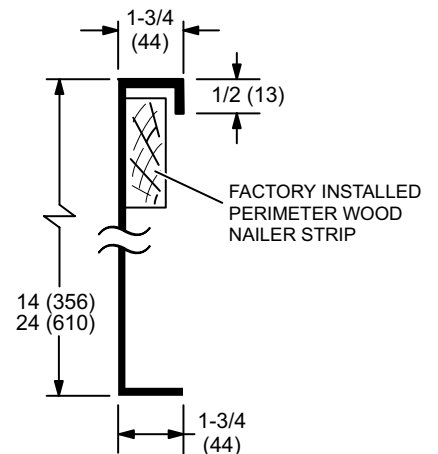
**HYBRID ROOF CURBS - 036-060 MODELS - DOUBLE DUCT OPENING**



**TYPICAL FLASHING DETAIL FOR ROOF CURB**

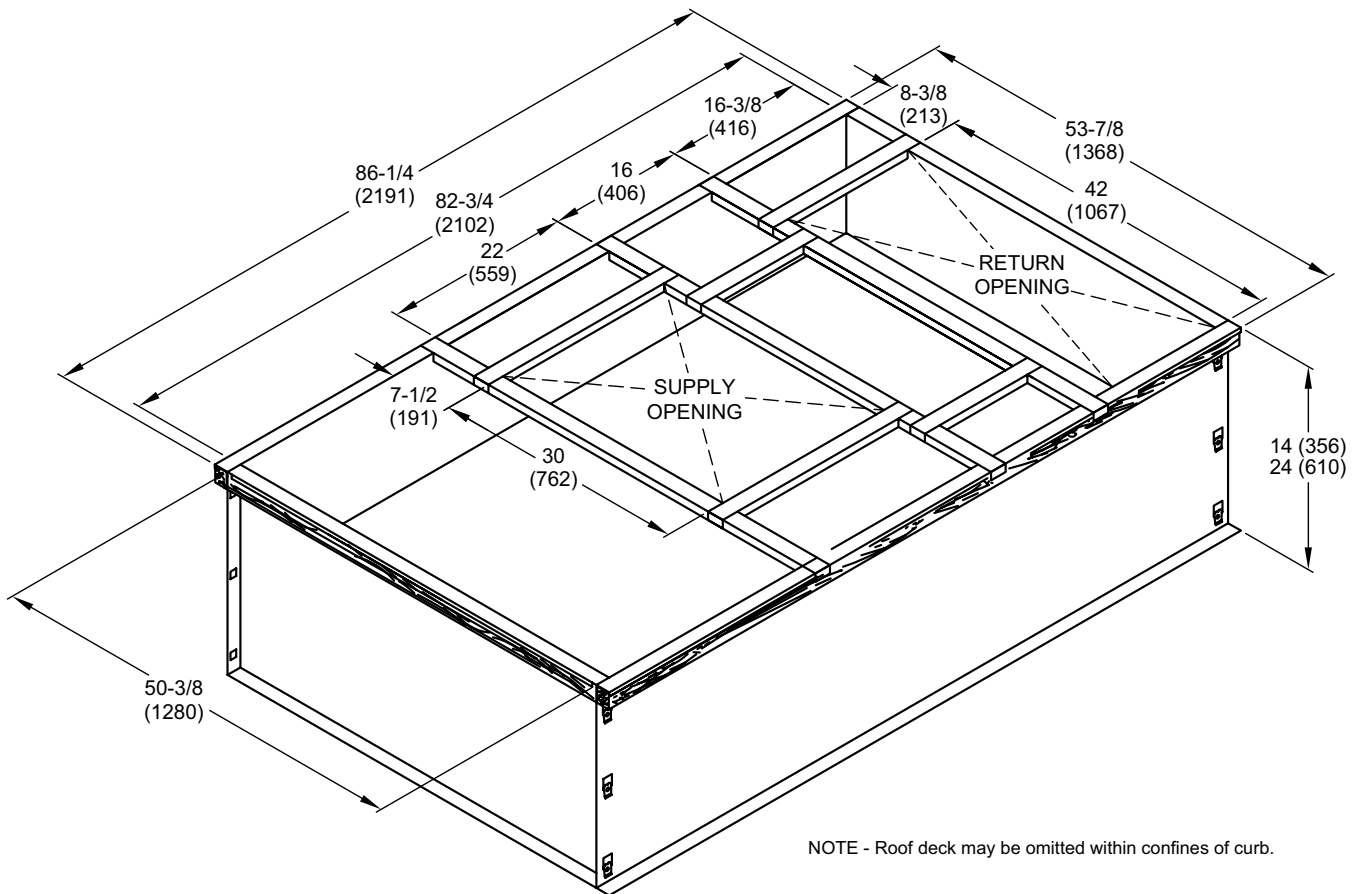


**DETAIL ROOF CURB**

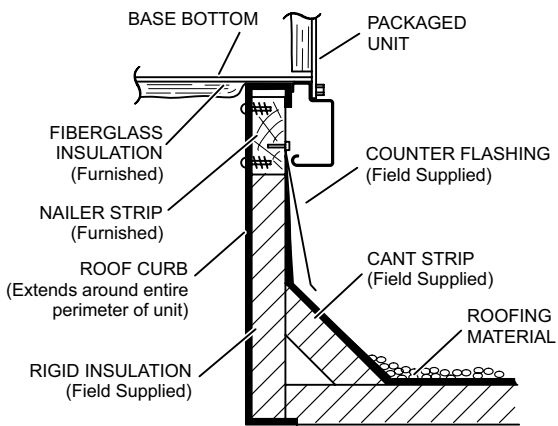


### DIMENSIONS - ACCESSORIES - INCHES (MM)

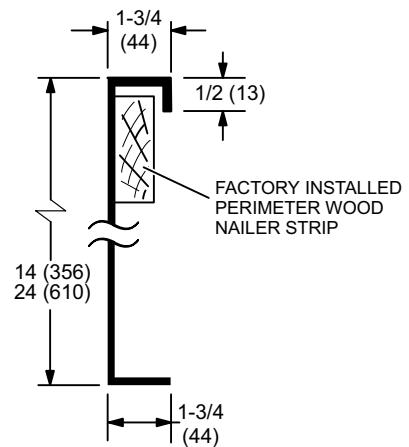
## HYBRID ROOF CURBS - 120 MODEL - DOUBLE DUCT OPENING



### TYPICAL FLASHING DETAIL FOR ROOF CURB

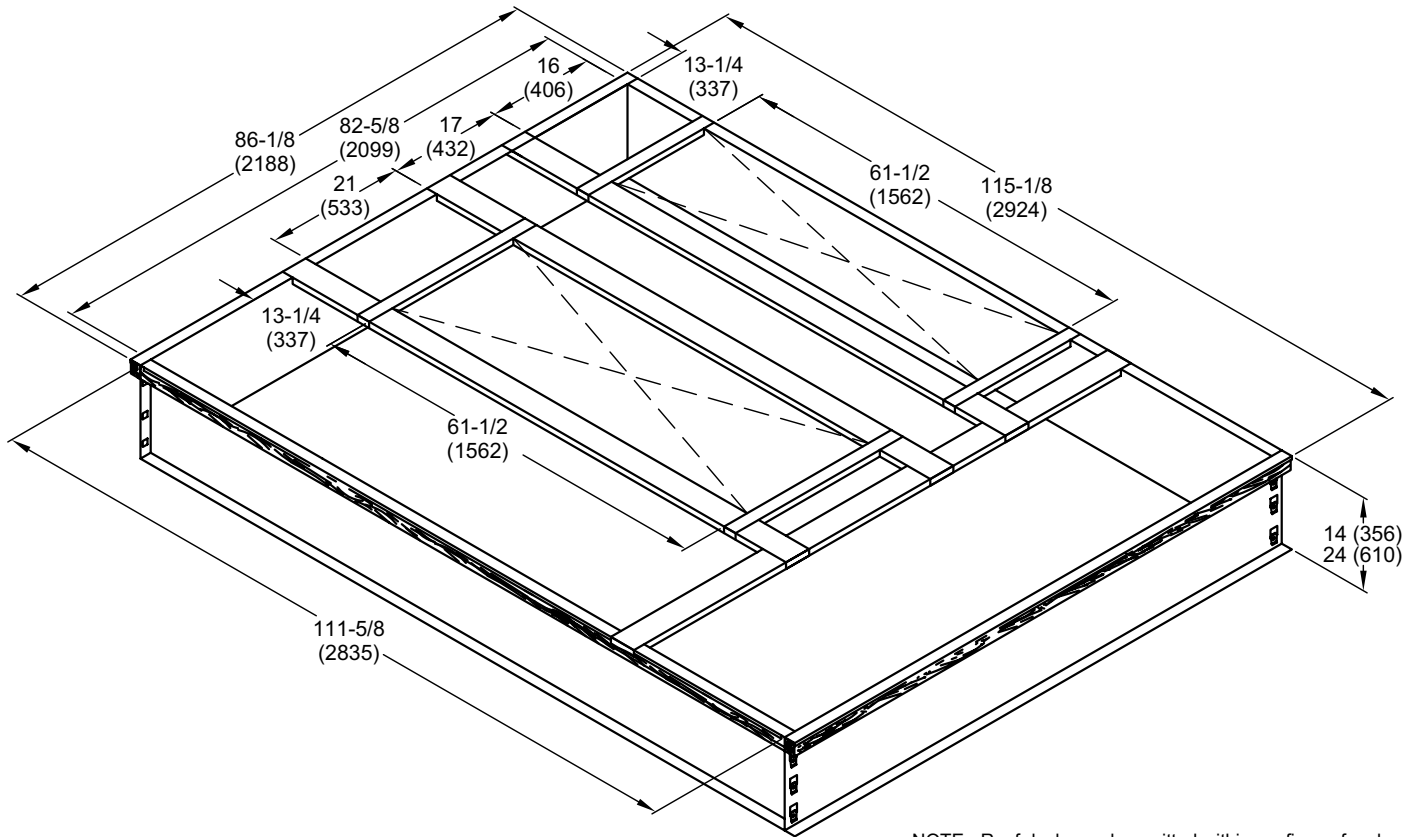


## DETAIL ROOF CURB



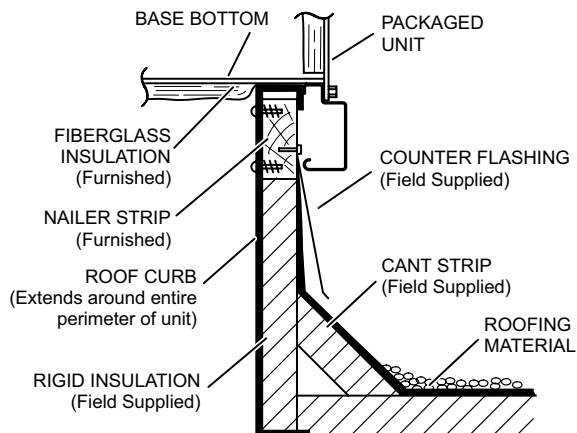
## DIMENSIONS - ACCESSORIES - INCHES (MM)

### HYBRID ROOF CURBS - 240 MODEL - FULL PERIMETER - DOUBLE DUCT OPENING

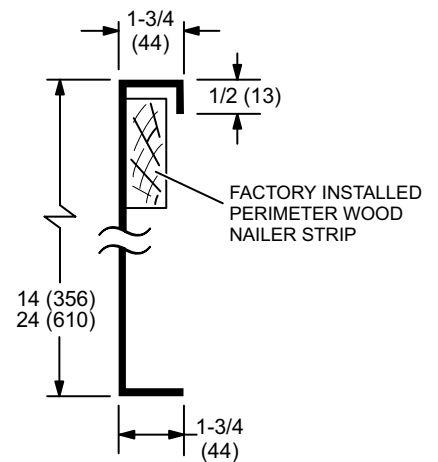


NOTE - Roof deck may be omitted within confines of curb.

#### TYPICAL FLASHING DETAIL FOR ROOF CURB

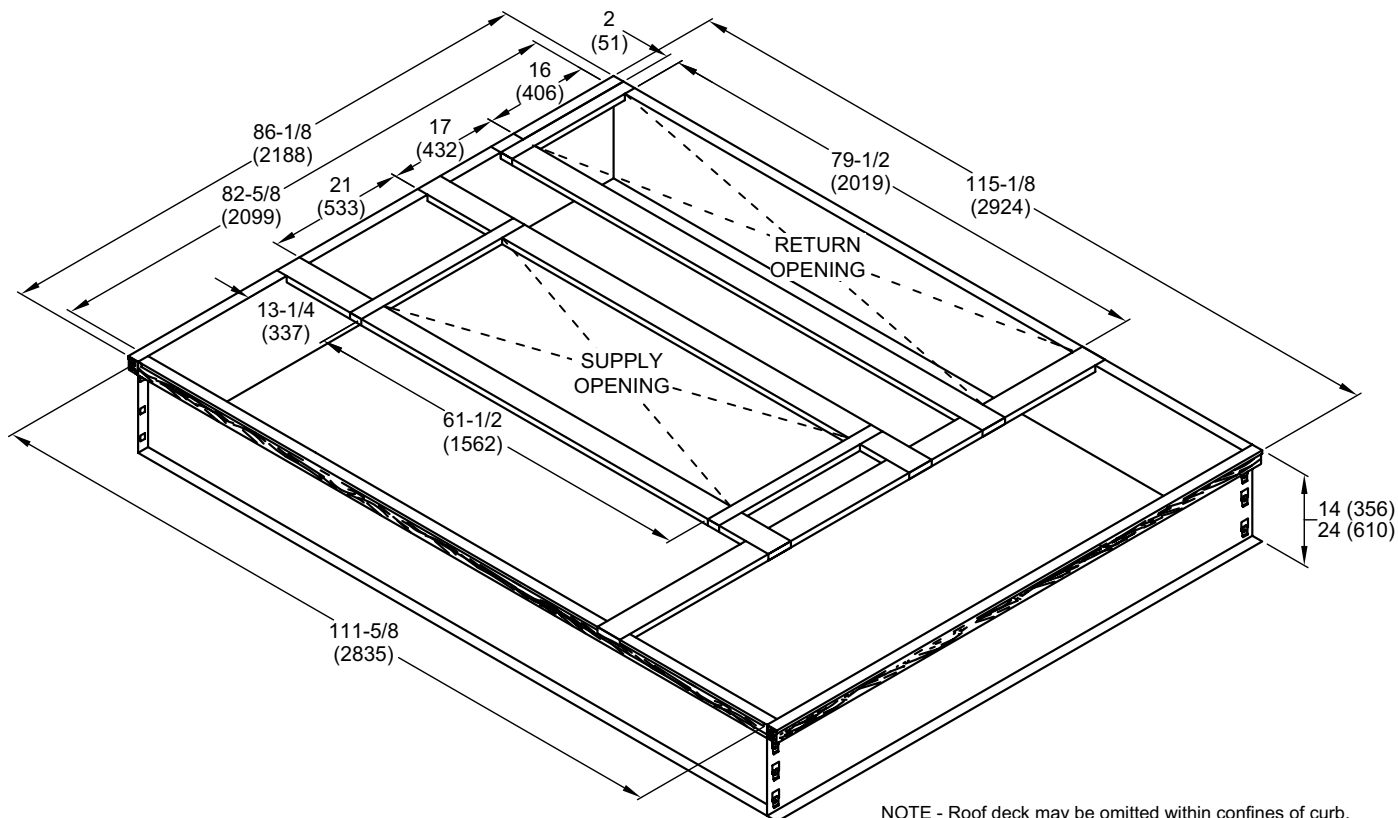


#### DETAIL ROOF CURB



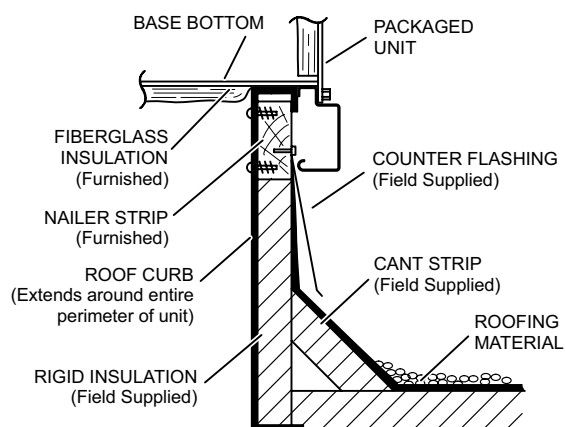
## DIMENSIONS - ACCESSORIES - INCHES (MM)

### HYBRID ROOF CURBS - 288 MODELS - FULL PERIMETER - DOUBLE DUCT OPENING

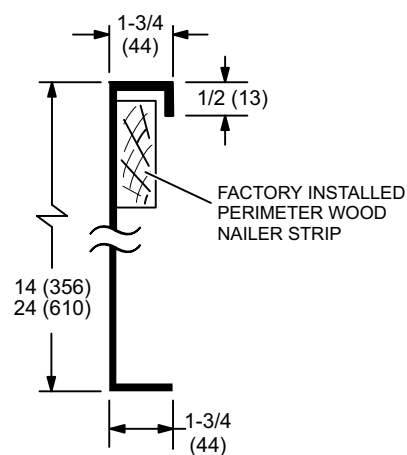


NOTE - Roof deck may be omitted within confines of curb.

#### TYPICAL FLASHING DETAIL FOR ROOF CURB



#### DETAIL ROOF CURB





## REVISIONS

Section	Description
Optional Accessories	Added Air Movement and Control Association International (AMCA) Class 1A certification for High Performance Economizers.



**Intertek**

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