Technical Guide: YORK® Sun™ Choice HV13 to HV25

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SMART EQUIPMENT™ www.GetSmartEquipment.com

Contents

Description

The YORK® Sun™ Choice 12.5 to 25 ton platform is designed with all the flexibility needed for today's applications, while simultaneously meeting tomorrow's efficiency requirements. Realizing that efficiency requirements are continuously pushing the envelope of technology, standard efficiency Choice units meet the latest U.S. Department of Energy (DOE) efficiency requirements in the base constant volume configuration while the optional IntelliSpeed airflow options deliver energy efficiency exceeding the DOE mandates for 2023. Achieving efficiencies as high as 14.0 IEER (cooling and heating /electric heat),the standard efficiency Choice product line provides users with significant energy savings alongside impressive flexibility and unparalleled reliability.

All models are available with extensive options and accessories provided both through factory installation and field kits. Airflow requirements are met through constant volume and IntelliSpeed discrete fan control configurations. All tonnages can be configured for cooling & heating, electric heating. Near limitless flexibility is available with custom modifications provided by the Norman Modification Center located in the HVAC Rooftop Center of Excellence in Norman, Oklahoma.

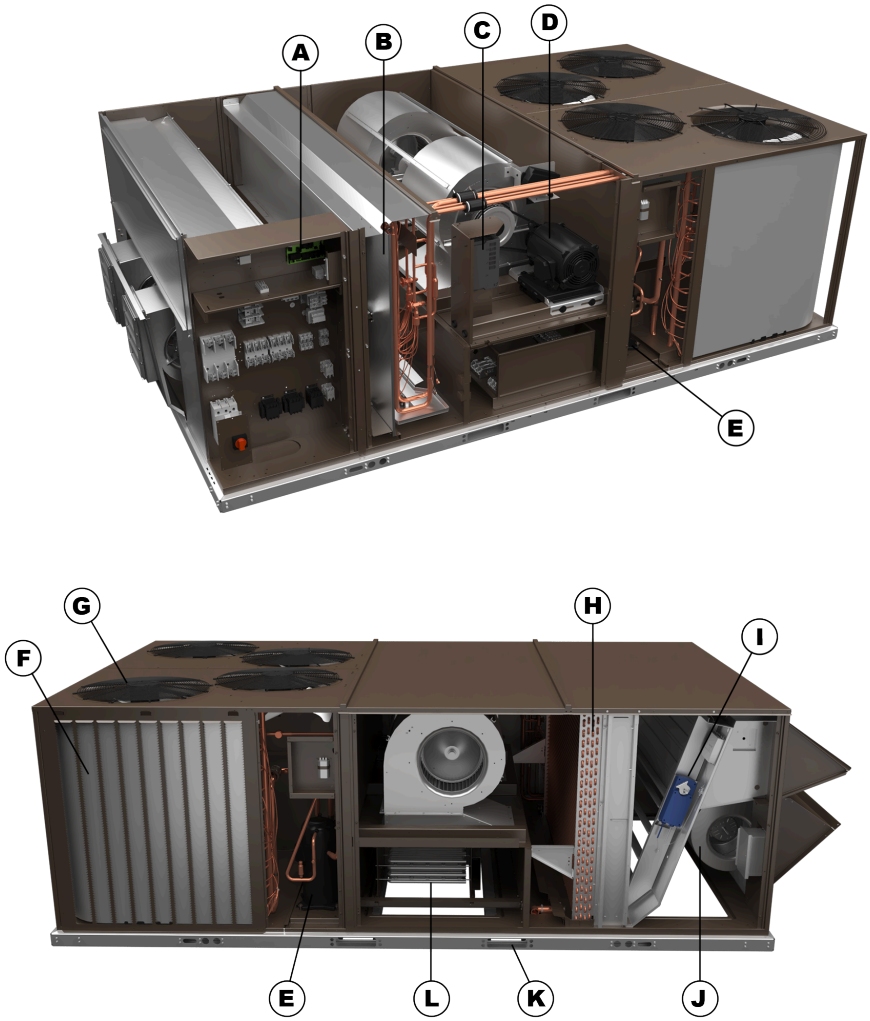
The units are tested in accordance with the following:

Product highlights

- Smart Equipment™ Controls: streamlines commissioning, integration, and service
- Industry leading standard efficiency, up to 14.0 IEER. Designed to meet DOE 2023 efficiency requirements
- Two independent refrigerant circuits
- Two stages of cooling (constant volume and IntelliSpeed) to meet advanced building code requirements
- Two unique airflow options in each tonnage. Constant volume and 2-stage IntelliSpeed
- Footprint design allows for direct replacement of multiple competitive models (Carrier and Trane) without a transition curb
- Reliability designed into all products and tested at the component and system level at the Advanced Technology Lab in Norman, Oklahoma
- Factory or field installed electric heat

Unit components

Figure 1: Component location



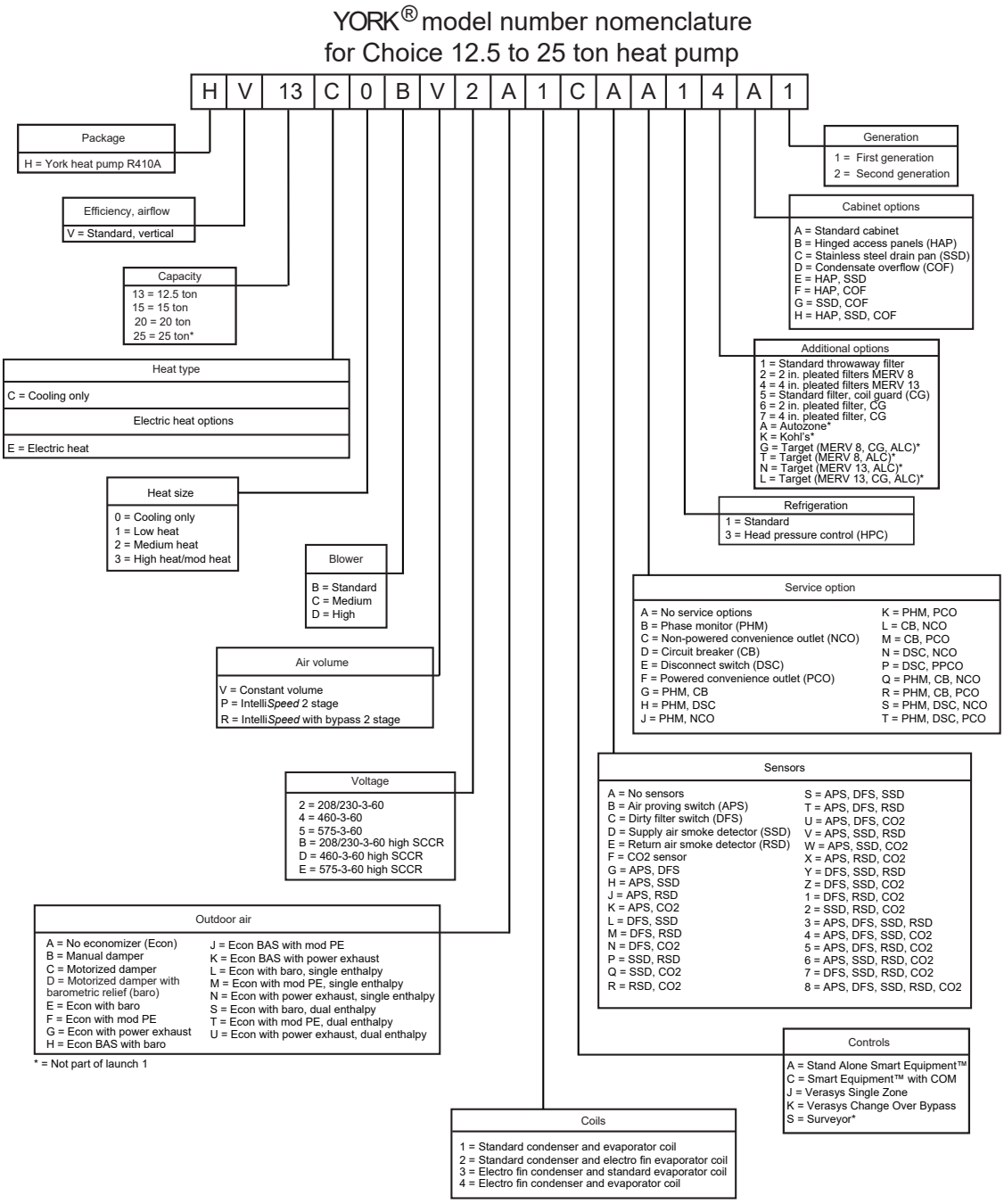
The previous figure shows the HVXX model. The following table lists the components of the unit.

Table 1: Component location table

Item	Description	Item	Description
A	Smart Equipment™ controls.	G	Condenser fans.
B	Filter access, 2 in. or 4 in. filter options.	H	Copper tube/aluminum fin evaporator coil.
C	Optional variable frequency drive for IntelliSpeed.	I	Optional economizer. Optional manual or motorized outside air dampers not shown.
D	Belt drive blower motor with dual centrifugal fan design.	J	Optional powered exhaust. Optional barometric relief not shown.
E	Scroll compressors in various arrangements to produce 2 of cooling/heating depending on the selected model.	K	Full perimeter base rails with holes for overhead rigging.
F	Round Tube Plate Fin (RTPF) condenser coils.	L	Optional electric heat.

Nomenclature

Figure 2: Product nomenclature



Features and benefits

Standard features

YORK® Sun™ Choice units have the following standard features.

Efficiency

Available in standard efficiency cooling and heating, electric heat, Choice units achieve up to 10.9 EER. IEER ratings as high as 14.0 are specific to each model's heat type and indoor airflow selection to provide dialed in efficiencies for every model classification.

Indoor airflow options

Each tonnage has an industry leading two unique indoor airflow options available for maximum customization to meet the needs of each job site. Constant volume, 2-stage IntelliSpeed configurations each have a dedicated airflow and compressor staging algorithm designed to maximize efficiency and reliability. Variable airflow models, IntelliSpeed, include a factory installed variable frequency drive (VFD) to modulate the blower airflow.

Refrigerant circuits

All models contain a dual circuit refrigeration design with multiple compressor staging options dependent on the selected airflow option. Constant volume and 2-stage IntelliSpeed models have two stages of cooling operation.

Variable frequency drive

Factory-installed variable frequency drives (VFD) provide higher efficiency through IntelliSpeed operation. All factory-installed VFDs come with a 5-year manufacturer warranty and provide ease of commissioning with operation through the standard Smart Equipment™ control board and soft start capabilities for improved motor and belt life.

Indoor blower

The indoor blower is a single shaft, dual blower, forward curve centrifugal wheel design. All tonnages use a belt drive motor configuration with options for multiple levels of static resistance. The blower motor is mounted on a motor sled (patent pending) with multidirectional movement for simplified precise adjustments to belt tension and easier belt replacement.

Evaporator coils

All units come with copper tube and aluminum fin evaporator coils.

Condenser coils

All units come with copper tube and aluminum fin condenser coils.

Balanced staged heating

All electric heat models (factory or field installed) include a bank of nickel chromium elements mounted at the discharge of the supply air blower to provide a high velocity and uniform distribution of air across the heating elements. Each element bank is fully protected against excessive current and temperature by fuses and two thermal limit switches.

Advanced, versatile controls

Smart Equipment™ control boards have standardized a number of features previously available only as options or by using additional controls.

All units are factory commissioned, configured, and run tested.

You can configure the Smart Equipment™ control for use with a standard thermostat using the convenient screw terminals or for use with a zone sensor. You can also configure the control to communicate with multiple BAS communication protocols to integrate with building automation systems.

On-board USB port

The Smart Equipment™ control comes standard with an on-board USB port that accepts a common flash drive. You can use the port for features like data logging, listing current and previous system faults, and backing up or updating the software version. Self-test and start up reports are also available through the USB port.

Built-in LCD

The Smart Equipment™ control board has an easy to read, built-in LCD and easy to use navigation joystick and buttons. Users can quickly navigate the menus to view unit status, options, current function, supply, return and outdoor temperatures, fault codes, and other information.

NOTICE

The Smart Equipment™ control board used in this product can effectively operate the cooling system down to 0°F when this product is applied in a comfort cooling application for people. An economizer is typically included in this type of application. When you apply this product for process cooling applications (such as computer rooms or switchgear), call the applications department for Ducted Systems at 1-877-874-SERV for guidance. Additional accessories may be needed for stable operation at temperatures below 30°F.

Reduced field installed complexity

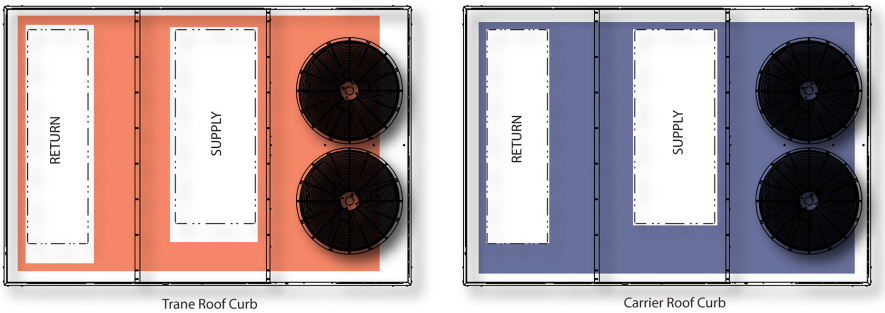
Each unit comes equipped with factory installed supply air, return air, and outdoor air temperature sensors to provide key temperature readings and reduce field installed complexity.

Standard factory warranty

All models include a 1-year limited warranty on the complete unit. Compressors and electric heater elements each have a 5-year warranty.

Replacement opportunity with footprint

All tonnages have a meticulously designed footprint providing the unique ability to directly replace, without the need for a transition curb, existing 12 to 25 ton units from select competitive manufacturers (Carrier and Trane). Airflow testing was conducted on each competitive footprint to ensure full unit performance and operation in these applications. Some utilities may require relocation with guidance from competitive replacement literature.



Trane Roof Curb

Carrier Roof Curb

Dedicated duct configuration

All models are manufactured with a dedicated duct configuration for downflow operation allowing for quick and easy installation without removing or relocating panels.

Utility connections

Electrical utility entry is supplied in the unit underside as well as the side of the unit. You can make utility connections quickly and with a minimum amount of field labor.

Sloped drain pan

All units are provided with a multidirectional sloped condensate drain pan with 1 in. I.D. female connection. Drain pans are sloped in accordance with ASHRAE 62 and are available in composite or stainless steel configurations.

Color-coded and numbered wiring

Wiring is color coded and numbered to match the provided unit wiring diagram to make for easy troubleshooting and field installation.

Convertible filter rack

Units are provided with the selected 2-inch or 4-inch filter. With a simple conversion in the field, units can accept either size filter in the standard filter rack.

Full perimeter base rails

The permanently attached base rails provide a solid foundation for the entire unit and protect the unit during shipment. The rails offer rigging holes so that you can use an overhead crane to place the units on a roof.

Operating conditions

The units are capable of starting and running at 125°F outdoor temperature in cooling operation, exceeding the maximum load criteria of AHRI Standard 340/360. The compressor, with standard controls, is capable of operation down to 45°F outdoor temperature in all installations and as low as 0°F outdoor temperature with cyclic cooling cycles in certain applications. The addition of a low ambient kit allows for cooling operation down to -20°F outdoor temperature. In heating operation, the units are capable of starting and running at -5°F and as high as 60°F.

Safety monitoring

The control monitors the outdoor, supply, and return air temperatures and the high and low pressure switch status on the independent refrigerant circuits. The control monitors temperature limit switches on the units with electric heat. The control also monitors the voltage supplied to the unit and protects the unit if low voltage occurs due to a brown out, or if other electrical issues occur.

Anti-short cycle protection

To aid compressor life, an anti-short cycle delay is incorporated into the standard control. Compressor reliability is further ensured by programmable minimum run times. For testing, you can temporarily override the anti-short cycle delay with the push of a button.

Fan delays

Fan on and fan off delays are fully programmable. Furthermore, the heating and cooling fan delay times are independent of one another. All units are programmed with default values based on their configuration of cooling and heating capacity.

Nuisance trip protection and three strikes

To prevent nuisance calls, the control board uses a three times, you're out philosophy. The high-pressure switch, low-pressure switch, antifreeze protection, or low voltage, detection must trip three times within two hours before the unit control board locks out the associated compressor. Similarly, the heating high limit switch must trip three times within one hour before the unit control board locks out heating operation. An alarm message appears on the LCD.

Low limit control

When there is a demand for cooling during cold outside conditions the low limit control (LLC) prevents the supply air from dropping below a specified setpoint. This is a programmable setpoint.

Options and accessories

Non-electrical option or accessory	Factory option	Field-installed option
Roof curb, 14 in. or 24 in. height		✓
Burglar bars		✓
Coil/hail guard	✓	✓
Hinged and toolless access panels	✓	
Stainless steel drain pan	✓	
E-Coat coil coating	✓	
MERV 8, 2-in. filter	✓	
MERV 13, 4-in. filter	✓	

Electrical option or accessory	Factory option	Field-installed option
Constant volume airflow	✓	
IntelliSpeed discrete fan control	✓	
CRSZ control single zone VAV	✓	
Standard, medium, or high static indoor blower motor	✓	
Non-fused disconnect switch	✓	
Circuit breaker	✓	
Powered convenience outlet	✓	
Non-powered convenience outlet	✓	✓
65 kA high SCCR	✓	
Phase monitor	✓	
Electric heat	✓	✓

Fresh air option or accessory	Factory option	Field-installed option
Manual outside air damper	✓	✓
Motorized outside air damper	✓	✓
Low leak economizer	✓	✓
Single or dual enthalpy economizer control	✓	✓
Barometric relief damper	✓	✓
Constant volume power exhaust	✓	✓
Modulating power exhaust	✓	✓
Bolt on energy recovery ventilator (ERV)		✓

Controls option or accessory	Factory option	Field-installed option
Air proving switch	✓	✓
Dirty filter switch	✓	✓
CO^2 sensor	✓	✓
Condensate overflow switch	✓	✓
Low ambient head pressure control	✓	✓
Supply and return air smoke detectors	✓	✓
Smart Equipment™ control communication card	✓	✓
MAP (Mobile Access Portal) Gateway for use with Smart Equipment™ control		✓
Verasys	✓	

Factory and field-installed options

YORK® Sun™ Choice units have many factory options and field-installed accessories available for a wide range of application needs.

Constant volume airflow

Factory option

The standard airflow option on all Choice models, this provides the most traditional on and off method of blower control where the supply fan airflow and the air volume through the building duct remain constant. The unit's refrigerant staging adjusts based on the load to maintain the zone temperature.

IntelliSpeed discrete fan control with VFD

Factory option

The IntelliSpeed blower control method uses a variable frequency drive (VFD) to control staged modulation of the supply fan airflow in what is called multispeed fan control or discrete fan control. The VFD runs the supply fan at predetermined speeds set at the factory based on the number of cooling stages engaged by the cooling demand. This feature allows for higher part load efficiency and meets all requirements of ASHRAE 90.1 2013/2016 and 2015 IECC.

CRSZ control single zone VAV

Factory option

A proprietary control logic for single-zone VAV applications, the continuous reset single zone control (CRSZ control) option provides the industry's best temperature control of a single-zone VAV system. The CRSZ control airflow option uses compressor staging and fan speed, along with programmatic resetting of the supply air temperature setpoint, to deliver stable zone temperature and humidity control.

High static indoor blower motor

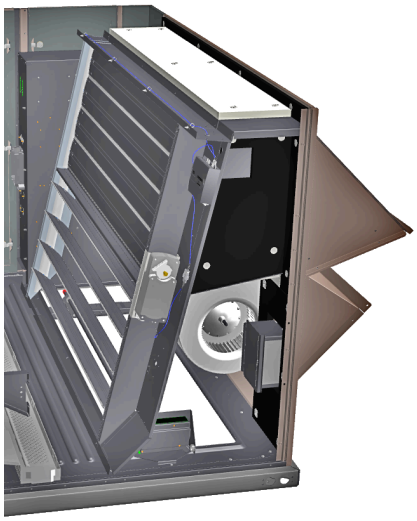
Factory option

For applications with high static restrictions, units are offered with optional indoor motors that provide higher static output to varying degrees based on the application requirements.

Low leak economizer with fresh air hood

Factory or field-installed option

All units offer a variety of optional factory-installed or field-installed economizers that are shipped, installed, and wired with low leak dampers. The dampers are designed to meet ASHRAE 90.1, AMCA 511 Class 1A damper, and the International Energy Conservation Code (IECC) certification requirements by achieving leakage rates of 3 CFM/sq. ft. at 1-inch of static pressure. Each economizer goes through a rigorous 60,000 cycle test. You can select dry bulb, single enthalpy, or dual enthalpy economizer control as either a factory option or field-installed accessory. The economizer has spring return, fully modulating damper actuators and it is capable of introducing up to 100% outdoor air. As the outdoor air intake dampers open, the return air dampers close. The changeover from mechanical refrigeration to economizer operation is regulated by the outdoor air dry bulb temperature or the outdoor air enthalpy input.



Single or dual enthalpy control

Factory or field-installed option

Low leak economizers are available with standard dry bulb sensing. You can select the following configurations for true enthalpy control of the unit economizer.

- Single enthalpy control to monitor outdoor air humidity and temperature
- Dual enthalpy control to monitor outdoor air and return air humidity and temperature

Single or dual enthalpy sensors are available factory installed or as field-installed accessories.

Manual outside air damper

Factory or field-installed option

The manual outdoor air damper includes a slide-in assembly with a manually adjustable opening for fresh air entry. The factory installed damper has an opening range of 0% to 100%. The field-installed accessory is available with two options for opening range, 0% to 25% or 0% to 100%.

Motorized outside air damper

Factory or field-installed option

The motorized outdoor air damper includes a slide-in and plug-in damper assembly with a 2-position, spring return motor actuator. The damper opens to a preset position whenever the supply air blower is operating and drives fully closed when the blower motor shuts down. The factory installed damper has an opening range of 0% to 100%. The field-installed accessory is available with two options for opening range, 0% to 25% or 0% to 100%.

Barometric relief damper

Factory or field-installed option

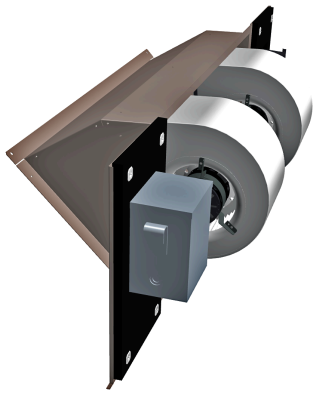
You can use this damper option to relieve internal building air pressure on units with an economizer or motorized damper without a power exhaust. This accessory includes a rain hood, a bird screen, and a fully assembled damper.

Constant volume power exhaust

Factory or field-installed option

Units with an economizer are available with constant volume power exhaust. Whenever the outdoor air intake dampers are opened for free cooling, the exhaust fan is energized to prevent

the conditioned space from being over-pressurized during economizer operation. The factory-installed version has an incorporated fold-out hood design for easy setup and operation. There are two options for the field-installed constant volume power exhaust. The standard CFM exhaust provides the same operational parameters as the factory-installed power exhaust while the high CFM exhaust provides expanded air movement capabilities.



Modulating power exhaust

Factory or field-installed option

For more precise control over a unit's exhaust performance, you can select a modulating power exhaust as a factory or field-installed option. The modulating power exhaust monitors fluctuations to the static pressure in the duct and works in conjunction with the unit economizer to equalize pressure changes caused by bringing in fresh air. There are two options for the field-installed constant volume power exhaust. The standard CFM exhaust provides the same operational parameters as the factory-installed power exhaust while the high CFM exhaust provides expanded air movement capabilities.

Electric heat

Factory or field-installed option

Electric heat is available as a factory or field-installed option in 25 kW, 50 kW, and 75 kW and is available in all voltage options of the base units. All heaters are single point power and all field-installed electric heat accessories require a supplemental single point power kit based on the unit specifications.

Hinged and toolless access panels

Factory option

To reduce service time, hinged and toolless access panels provide quick and easy access to frequently inspected or service components and areas of the unit. Hinged panels provide access to the control box, filters, gas and electric heat controls, and indoor blower section.

Coil guard and hail guard

Factory or field-installed option

A louvered panel design combination coil guard and hail guard protects the unit condenser coils and outdoor condenser area from a wide range of damage caused by events such as hail, tampering, and animal entry.

Stainless steel drain pan

Factory option

An optional rust-proof stainless steel drain pan is available to provide years of trouble-free operation in corrosive environments.

Circuit breaker

Factory option

A factory-installed circuit breaker provides both easy access to shut off power to the unit for safe servicing and also protects the unit from a short-circuit or overload condition.

Non-fused disconnect switch

Factory option

A factory-mounted service disconnect switch provides easy access to shut off power to the unit for safe servicing of the product.

Powered convenience outlet

Factory option

The powered convenience outlet option provides a 120V single-phase GFCI outlet with a cover on the unit exterior. The outlet is powered by a stepdown transformer in the unit.

Non-powered convenience outlet

Factory or field-installed option

The non-powered convenience outlet option provides a 120V single-phase GFCI outlet with a cover on the exterior of the unit. The outlet requires the installer to provide the 120V single-phase power source and wiring. The outlet is available factory installed or as a field-installed accessory.

65 kA high SCCR

Factory option

The high SCCR electrical option replaces all necessary electrical components and wiring with higher rated components and larger gauge wiring to increase the short-circuit current rating to 65KA (for 208/230 and 460V) and 25KA (for 575V) from the standard unit 5 kA rating. This provides additional protection to the unit in the event of a short-circuit condition.

Supply and return air smoke detectors

Factory or field-installed option

The smoke detectors stop operation of the unit and provide a fault message to the control board. Smoke detectors are available for supply and/or return air configurations.

WARNING

Factory-installed smoke detectors may be subjected to extreme temperatures during off times due to outside air infiltration. These smoke detectors have an operational limit of -4°F to 158°F. Smoke detectors installed in areas that could be outside this range must be relocated to prevent false alarms.

Phase monitor

Factory option

Monitors the electrical phase to the unit to prevent damage from out of phase conditions.

Air proving switch

Factory or field-installed option

To ensure proper indoor blower operation, you can use an optional air proving switch to monitor whether supply air airflow is present when a cooling or heating cycle initiates. If proper airflow is not detected at the beginning of a cycle or throughout operation, the call for heating or cooling is cancelled and a unit alarm registered.

Dirty filter switch

Factory or field-installed option

This option includes a differential pressure switch that energizes the fault light on the unit thermostat, indicating that there is an abnormally high pressure drop across the filters.

CO_2 sensor

Factory or field-installed option

The provided CO_2 sensor detects CO_2 levels and automatically overrides the economizer when levels rise above the preset limits.

Condensate overflow switch

Factory or field-installed option

Mounted to the unit drain pan, the condensate overflow switch is a float switch that monitors the level of water in the drain pan to shut down unit operation and prevent drain pan overflow within the unit.

Low ambient head pressure control

Factory or field-installed option

An integrated low-ambient control allows units to operate in the cooling mode down to -20°F outdoor ambient. The option includes a divider panel for the condenser section to isolate airflow through the condenser coils. Optionally, you can program the control board to lock out the compressors when the outdoor air temperature is low or when free cooling is available.

E-coat evaporator and condenser

Factory option

The evaporator and/or condenser coils are coated with an epoxy polymer coating to protect against corrosion.

Filters

Factory option

Two-inch pleated MERV 8 or 4-inch pleated MERV 13 are available to meet LEED requirements. A 2-inch throwaway is shipped as standard.

Burglar bars

Field-installed option

Mount in the supply and return openings to prevent entry into the duct work.

Smart Equipment™ control with communication

Factory or field-installed option

The communication option for the Smart Equipment™ control is a factory installed add-on card to expand the capabilities with a gateway to BACnet MS/TP (programmable to Modbus or N2 protocols).

Mobile Access Portal gateway for use with Smart Equipment™ control

Field-installed option

You can use the Mobile Access Portal (MAP) gateway to provide a wireless connection to any Smart Equipment™ enabled product or system. The MAP gateway generates a Wi-Fi signal for connection with any electronic device with Wi-Fi capabilities and a web browser. Used in conjunction with the Smart Equipment™ communication card and daisy chained network wiring, a single MAP gateway can provide single point access to an entire network of rooftop units through the unit control board, a Smart Equipment™ enabled zone sensor, or Smart Equipment™ enabled thermostat.

Verasys

Factory or field-installed option

Verasys provides a simple user experience with configurable self-recognizing controllers without the need for any additional tools. Verasys creates enhanced integration of HVACR equipment, zoning, and controls. Contractors are able to offer a complete bundled solution of equipment and controls to serve the light commercial market.

Physical data

Table 2: HV13 to HV25 physical data

Component	Models											
	HV13			HV15			HV20			HV25		
Nominal tonnage	**12.5**			**15**			**20**			**25**		
ARI cooling performance												
Gross Capacity @ ARI A point (Btu/hr)	150,300			181,000			240,600			290,600		
ARI net capacity (Btu/hr)	146,000			174,000			234,000			278,000		
EER	10.9			10.9			10.9			10.4		
IEER with Constant Volume	12			11.6			11.8			11.3		
IEER with Intellispeed	14			13.5			13.5			13.4		
CFM	4500			6500			7100			9500		
System power (KW)	13.39			15.96			21.47			26.73		
Refrigerant type	R-410A			R-410A			R-410A			R-410A		
Refrigerant charge (lb-oz)												
System 1	18-8			19-12			28-8			31-4		
System 2	18-0			20-12			29-4			32-4		
ARI heating performance												
47°F capacity rating (Btu/hr)	136,000			172,000			216,000			272,000		
System power (KW) / COP	12.08 / 3.3			15.28 / 3.3			19.18 / 3.3			24.16 / 3.3		
17°F capacity rating (Btu/hr)	80,000			100,000			126,000			160,000		
System power (KW) / COP	11.17 / 2.1			13.96 / 2.1			17.58 / 2.1			22.33 / 2.1		
Dimensions (in.)												
Length	129-3/4			143-13/16			143-13/16			160-1/16		
Width	88-3/4			88-3/4			88-3/4			88-3/4		
Height	48-9/16			48-9/16			56-9/16			56-9/16		
Operating wt. (lbs.)	1840			2000			2305			2535		
Compressors	2 Stage			2 Stage			2 Stage			2 Stage		
Type	Scroll			Scroll			Scroll			Scroll		
Quantity	2			2			2			2		
Unit Capacity Steps (%)	50/100			50/100			50/100			50/100		
Condenser coil data												
Coil Type	RTPF			RTPF			RTPF			RTPF		
Face area (Sq. Ft.)	45.8			57.8			68.4			78.0		
Rows	2			2			2			2		
Fins per inch	18			18			18			18		
Tube diameter	0.375			0.375			0.375			0.375		
Circuitry Type	Separate Coil			Separate Coil			Separate Coil			Separate Coil		
Evaporator coil data												
Face area (Sq. Ft.)	22.0			22.0			26.0			26.0		
Rows	3			3			4			4		
Fins per inch	15			15			15			15		
Tube diameter	0.375			0.375			0.375			0.375		
Circuitry Type	Intertwined			Intertwined			Intertwined			Intertwined		
Refrigerant control	TXV			TXV			TXV			TXV		
Condenser fan data												
Quantity	2			4			4			4		
Fan diameter (Inch)	30			24			24			30		
Type	Prop			Prop			Prop			Prop		
Drive type	Direct			Direct			Direct			Direct		
Number of motors	2			4			4			4		
Motor HP each	0.5			0.5			0.5			0.5		
RPM	850			1085			1085			850		
Total CFM	9600			14100			15100			18000		
Belt drive evap fan data												
Quantity	2			2			2			2		
Fan Size (Inch)	12 x 12			15 x 15			15 x 15			15 x 15		
Type	Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Motor Sheave	1VP40	1VP40	1VP56	1VL44	1VL44	1VM50	1VM50	1VM50	1VP60	1VM50	1VP60	1VP60
Blower Sheave	1B5V66	1B5V54	1B5V64	1B5V90	1B5V74	1B5V66	1B5V90	1B5V74	1B5V80	1B5V80	1B5V80	1B5V70
Belt	AX36	BX34	BX40	AX41	AX41	BX40	BX43	BX40	BX43	BX43	BX43	5VX450
Motor HP each	2	3	5	2	3	5	5	5	7.5	5	7.5	10
Motor RPM	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750
Frame size	56	56	145T	56	56	145T	56	145T	213T	145T	213T	215T

Table 2: HV13 to HV25 physical data

Component	Models			
	HV13	HV15	HV20	HV25
Nominal tonnage	**12.5**	**15**	**20**	**25**
Filters				
Quantity - Size	6 - (20 x 25 x 2)[1,2]	6 - (20 x 25 x 2)[1,2]	9 - (16 x 25 x 2)[1,2]	9 - (16 x 25 x 2)[1,2]
	6 - (20 x 25 x 4)[3]	6 - (20 x 25 x 4)[3]	9 - (16 x 25 x 4)[3]	9 - (16 x 25 x 4)[3]

Note:

1. 2 in. throwaway, standard, MERV (Minimum Efficiency Reporting Value) 3
2. Optional 2 in. pleated, MERV 8
3. Optional 4 in. pleated, MERV 13

Unit limitations

Table 3: HV13 to HV25 unit limitations

Unit voltage (V)	Applied voltage (V)		Outdoor DB temperature	Outdoor DB temperature for mechanical heating
	Minimum	Maximum	Maximum (°F)	Minimum (°F)
208/230-3-60	180	254	125	-5
460-3-60	416	508	125	-5
575-3-60	520	635	125	-5

Capacity performance

The following tables show the capacity performance for the units. The total capacities (TC) and sensible capacities (SC) are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. See the appropriate blower performance table for the kW of the supply air blower motor.

Note:

- TC = Total capacity
- SC = Sensible capacity

HV13 cooling capacity performance

Table 4: HV13 cooling performance 75°F and 85°F

Air on evap. coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
CFM	WB (°F)	90		85		80		75		70		65		90		85		80		75		70		65	
		TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH
		75 (°F)												85 (°F)											
3125	77	192.2	103.0	192.0	87.7	191.7	72.4	-	-	-	-	-	-	182.4	99.6	182.2	85.1	182.0	68.8	-	-	-	-	-	-
	72	172.2	116.2	172.1	100.8	171.9	87.1	171.6	71.7	-	-	-	-	163.5	112.0	163.4	97.4	163.2	82.8	162.9	68.2	-	-	-	-
	67	153.7	127.9	153.7	112.8	153.4	99.0	153.2	83.8	153.0	70.1	-	-	145.5	124.0	145.4	109.6	145.3	95.3	145.2	80.9	145.0	66.5	-	-
	62	136.4	136.4	136.1	124.1	136.2	109.4	136.0	95.9	136.0	82.5	135.8	67.7	130.2	130.2	128.4	119.5	128.6	105.8	128.4	91.8	128.2	77.9	128.0	63.9
	57	132.3	132.3	125.7	125.7	119.5	118.3	120.0	105.9	120.0	91.7	119.8	78.6	126.2	126.2	119.7	119.7	113.2	113.2	112.9	100.8	112.8	87.4	112.7	74.0
3750	77	201.6	114.2	201.1	94.1	200.9	76.2	-	-	-	-	-	-	191.2	110.3	190.8	91.2	190.7	72.4	-	-	-	-	-	-
	72	181.5	129.7	181.2	111.6	180.9	93.7	180.7	75.8	-	-	-	-	171.6	124.4	171.7	107.5	171.4	88.8	171.2	71.9	-	-	-	-
	67	162.2	143.0	162.3	125.6	162.2	108.0	161.9	91.9	161.6	74.3	-	-	153.3	138.3	153.2	121.6	153.2	105.1	153.1	87.0	152.8	70.3	-	-
	62	148.7	148.7	144.1	138.4	144.3	121.7	144.2	106.0	144.1	89.0	143.8	71.9	141.9	141.9	135.7	133.0	136.2	117.5	136.1	101.5	135.8	85.3	135.6	67.9
	57	144.7	144.7	137.3	137.3	129.9	129.9	127.7	117.7	127.7	101.4	127.4	85.0	138.0	138.0	130.7	130.7	123.5	123.5	119.7	112.7	120.1	97.8	119.8	81.1
4375	77	208.5	122.4	208.4	101.9	208.1	79.2	-	-	-	-	-	-	197.9	118.2	197.3	96.6	197.1	77.1	-	-	-	-	-	-
	72	188.2	140.2	188.0	119.8	187.6	99.3	187.4	78.9	-	-	-	-	177.8	136.0	177.9	116.9	177.7	95.8	177.1	74.7	-	-	-	-
	67	168.6	157.0	168.7	137.3	168.8	117.5	168.5	97.5	168.0	77.5	-	-	158.8	152.6	159.2	132.7	159.2	112.5	159.1	93.7	158.8	73.4	-	-
	62	158.8	158.8	150.9	150.9	150.4	132.7	150.4	113.7	150.3	94.5	149.9	75.2	151.5	151.5	143.8	143.8	141.7	129.2	141.8	110.0	141.5	90.4	141.3	71.0
	57	154.9	154.9	146.9	146.9	139.0	139.0	133.1	129.2	133.6	110.1	133.3	91.7	147.6	147.6	139.8	139.8	132.0	132.0	125.3	124.1	125.5	106.0	125.3	87.5
5000	77	214.0	130.2	214.0	107.1	213.7	84.0	-	-	-	-	-	-	202.7	127.4	202.3	103.4	202.0	79.5	-	-	-	-	-	-
	72	193.5	151.9	193.4	129.1	193.0	106.2	192.6	81.5	-	-	-	-	182.6	147.0	182.8	123.9	182.5	100.6	182.0	79.0	-	-	-	-
	67	173.2	169.9	173.8	148.3	173.9	126.4	173.8	102.6	173.2	80.3	-	-	164.3	164.3	163.8	143.1	163.9	120.8	163.7	98.4	163.3	75.9	-	-
	62	167.5	167.5	158.9	158.9	155.2	143.1	155.4	122.2	155.2	100.9	154.8	78.0	159.5	159.5	151.4	151.4	145.8	138.7	146.3	117.9	146.0	96.4	145.8	75.0
	57	163.5	163.5	155.0	155.0	146.5	146.5	138.3	138.3	138.2	118.1	137.9	97.8	155.8	155.8	147.6	147.6	139.2	139.2	131.2	131.2	129.8	113.4	129.6	93.3
5625	77	218.2	139.5	218.1	111.8	217.7	86.1	-	-	-	-	-	-	206.4	134.1	205.9	107.7	205.6	81.5	-	-	-	-	-	-
	72	197.6	161.1	197.7	136.1	197.2	110.9	196.9	85.8	-	-	-	-	186.2	157.3	186.6	132.3	186.3	106.7	185.9	81.2	-	-	-	-
	67	179.1	179.1	177.8	157.1	177.8	132.9	177.6	108.7	177.1	84.3	-	-	170.7	170.7	167.3	154.3	167.4	128.5	167.4	104.2	166.7	79.6	-	-
	62	174.8	174.8	165.7	165.7	158.7	154.1	159.3	130.0	159.2	105.3	158.7	81.9	166.5	166.5	157.9	157.9	149.9	148.5	149.6	125.1	149.5	101.9	149.3	77.3
	57	170.9	170.9	161.8	161.8	153.0	153.0	144.2	144.2	142.0	125.6	141.7	102.1	162.7	162.7	154.0	154.0	145.4	145.4	136.8	136.8	132.9	121.4	133.0	98.5
6250	77	221.9	146.6	221.7	118.5	221.3	88.3	-	-	-	-	-	-	209.8	142.8	209.4	114.2	209.0	85.6	-	-	-	-	-	-
	72	201.1	172.0	201.2	142.8	200.7	115.3	200.5	88.1	-	-	-	-	189.3	167.4	189.6	140.2	189.5	112.7	188.8	83.2	-	-	-	-
	67	185.3	185.3	180.8	166.9	181.1	141.0	180.9	112.9	180.4	86.5	-	-	176.8	176.8	169.9	163.4	170.7	136.2	170.6	109.9	170.0	81.7	-	-
	62	181.1	181.1	171.6	171.6	162.5	162.5	162.6	137.6	162.5	111.0	161.8	84.1	172.5	172.5	163.2	163.2	154.5	154.5	152.7	132.2	152.5	105.8	152.2	80.8
	57	177.3	177.3	167.8	167.8	158.7	158.7	149.4	149.4	144.9	132.4	145.0	107.6	168.8	168.8	159.7	159.7	150.6	150.6	141.7	141.7	135.5	129.1	136.0	103.6

Table 5: HV13 cooling performance 95°F and 105°F

Air on evap. coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
CFM	WB (°F)	90		85		80		75		70		65		90		85		80		75		70		65	
		TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH
		95 (°F)												105 (°F)											
3125	77	172.9	96.2	172.7	80.7	172.4	65.3	-	-	-	-	-	-	160.6	91.0	160.5	76.7	160.4	60.9	-	-	-	-	-	-
	72	154.4	108.8	154.6	93.7	154.3	79.9	153.9	64.5	-	-	-	-	143.4	103.9	143.3	89.8	142.9	74.0	142.7	59.9	-	-	-	-
	67	137.1	119.6	137.2	104.8	137.1	91.3	136.9	76.3	136.7	62.8	-	-	126.6	114.2	126.9	100.7	126.7	86.9	126.5	71.9	126.3	58.1	-	-
	62	123.9	123.9	120.4	114.5	121.0	100.8	120.8	87.7	120.6	74.4	120.3	60.1	116.5	116.5	111.3	109.2	111.4	96.2	111.3	83.0	111.2	68.7	110.9	55.5
	57	120.0	120.0	113.6	113.6	107.2	107.2	105.6	96.3	105.6	83.9	105.5	70.4	112.7	112.7	106.4	106.4	100.1	100.1	96.6	91.0	97.0	79.0	96.8	65.6
3750	77	180.9	106.1	180.4	88.1	180.2	68.5	-	-	-	-	-	-	167.4	101.6	167.1	83.4	166.9	65.2	-	-	-	-	-	-
	72	161.8	120.5	161.9	103.1	161.8	85.5	161.5	67.9	-	-	-	-	149.8	116.0	149.9	98.5	149.4	80.6	149.3	62.9	-	-	-	-
	67	143.9	134.0	144.3	117.4	144.2	100.4	144.0	83.3	143.9	66.3	-	-	132.8	128.9	133.2	112.4	133.1	95.3	132.9	78.3	132.4	61.1	-	-
	62	135.1	135.1	127.9	127.9	127.7	112.7	127.9	96.6	127.6	80.2	127.3	63.8	126.8	126.8	119.9	119.9	117.1	108.0	117.2	92.1	117.0	75.9	116.7	58.6
	57	131.2	131.2	124.0	124.0	117.1	117.1	111.7	108.4	112.3	92.6	112.1	77.1	123.0	123.0	116.1	116.1	109.2	109.2	102.7	101.7	102.5	87.6	102.3	71.5
4375	77	186.7	115.3	186.4	93.2	186.2	73.0	-	-	-	-	-	-	172.5	110.0	172.2	89.6	171.8	67.5	-	-	-	-	-	-
	72	167.6	131.5	167.6	111.8	167.3	92.0	167.0	70.6	-	-	-	-	154.3	127.2	154.5	107.7	154.4	86.5	154.0	66.7	-	-	-	-
	67	149.6	146.7	149.7	127.8	149.6	108.7	149.4	89.6	149.2	69.1	-	-	139.4	139.4	137.5	124.1	137.7	104.2	137.6	83.9	137.1	64.9	-	-
	62	144.1	144.1	136.5	136.5	132.6	123.6	133.1	105.8	132.7	86.2	132.5	68.0	135.2	135.2	127.7	127.7	121.6	118.1	121.8	100.5	121.6	81.4	121.1	62.3
	57	140.2	140.2	132.6	132.6	125.0	125.0	117.6	117.6	117.1	101.2	117.2	83.1	131.3	131.3	123.9	123.9	116.5	116.5	109.3	109.3	106.7	95.4	106.6	77.7
5000	77	190.9	121.9	190.7	99.4	190.4	75.1	-	-	-	-	-	-	176.3	117.9	176.1	93.7	175.6	71.2	-	-	-	-	-	-
	72	172.1	143.6	172.0	120.0	171.9	96.5	171.6	74.6	-	-	-	-	158.0	138.1	158.1	115.1	158.1	92.0	157.6	68.7	-	-	-	-
	67	155.9	155.9	153.6	138.6	153.8	116.4	153.7	95.4	153.3	72.9	-	-	146.3	146.3	141.1	134.3	141.2	112.5	141.1	89.1	140.6	67.0	-	-
	62	151.6	151.6	143.7	143.7	136.8	134.2	136.9	113.0	136.8	91.7	136.5	70.4	142.1	142.1	134.2	134.2	126.5	126.5	125.5	107.3	125.2	86.5	124.8	65.7
	57	147.9	147.9	139.9	139.9	131.7	131.7	124.0	124.0	120.8	109.2	121.0	88.3	138.4	138.4	130.4	130.4	122.7	122.7	115.0	115.0	110.1	103.7	110.1	82.5
5625	77	194.4	130.2	194.3	105.6	193.7	78.9	-	-	-	-	-	-	179.0	126.9	178.9	99.1	178.3	72.9	-	-	-	-	-	-
	72	175.1	153.0	175.3	127.8	175.2	102.2	174.8	76.5	-	-	-	-	161.0	148.6	161.3	122.3	161.1	97.3	160.6	72.1	-	-	-	-
	67	162.4	162.4	156.7	149.1	157.4	123.9	157.2	99.5	156.8	75.0	-	-	152.1	152.1	144.8	142.0	144.2	119.2	144.2	95.6	143.4	70.2	-	-
	62	158.2	158.2	149.6	149.6	141.1	141.1	140.2	121.3	139.9	96.8	139.8	73.9	148.0	148.0	139.7	139.7	131.6	131.6	128.1	114.6	128.0	91.2	127.5	67.6
	57	154.5	154.5	145.8	145.8	137.3	137.3	129.3	129.3	123.7	116.6	124.1	93.2	144.3	144.3	135.9	135.9	127.9	127.9	119.8	119.8	112.9	109.7	112.8	88.1
6250	77	197.3	138.2	197.3	109.7	196.7	80.8	-	-	-	-	-	-	181.6	134.4	181.4	104.6	180.9	76.4	-	-	-	-	-	-
	72	177.5	163.9	178.4	135.4	177.9	107.7	177.5	80.1	-	-	-	-	163.5	157.2	163.5	130.6	163.4	102.3	163.0	75.5	-	-	-	-
	67	168.0	168.0	160.1	157.0	160.2	132.6	160.0	104.8	159.6	78.5	-	-	157.1	157.1	148.5	148.5	146.4	126.8	146.5	100.4	145.9	73.4	-	-
	62	163.8	163.8	154.8	154.8	146.1	146.1	142.7	127.7	142.7	101.9	142.3	75.7	152.8	152.8	144.4	144.4	136.0	136.0	130.2	122.8	130.2	96.8	129.7	70.6
	57	160.2	160.2	151.1	151.1	142.3	142.3	133.7	133.7	126.5	122.9	126.6	97.7	149.4	149.4	140.8	140.8	132.3	132.3	123.9	123.9	115.7	115.7	115.1	92.3

Table 6: HV13 cooling performance 115°F and 125°F

Air on evap. coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
CFM	WB (°F)	90		85		80		75		70		65		90		85		80		75		70		65	
		TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH
		115 (°F)												125 (°F)											
3125	77	147.6	86.6	147.3	72.0	147.1	55.9	-	-	-	-	-	-	136.2	81.4	136.2	68.0	136.0	53.2	-	-	-	-	-	-
	72	130.8	97.4	130.7	83.2	130.5	69.0	130.2	54.8	-	-	-	-	119.9	92.9	120.1	78.9	120.0	64.7	119.9	50.6	-	-	-	-
	67	114.9	107.0	114.9	93.5	114.8	80.0	114.5	66.3	114.4	52.8	-	-	103.9	101.8	104.4	89.1	104.5	74.9	104.2	61.4	104.3	48.2	-	-
	62	106.7	106.7	100.6	100.6	99.9	89.2	100.0	76.5	99.7	62.7	99.4	49.9	98.7	98.7	92.5	92.5	89.7	83.6	89.9	70.6	89.9	58.4	89.7	45.2
	57	103.0	103.0	96.7	96.7	90.5	90.5	85.5	83.1	85.9	71.7	85.8	59.1	94.9	94.9	88.7	88.7	82.5	82.5	76.5	76.5	75.9	65.6	76.1	54.0
3750	77	153.5	94.8	153.2	78.1	152.8	59.9	-	-	-	-	-	-	141.8	90.4	141.7	73.7	141.5	55.6	-	-	-	-	-	-
	72	136.7	108.6	136.5	92.4	136.4	75.0	136.1	57.5	-	-	-	-	125.4	104.6	125.4	87.4	125.2	70.2	124.9	54.1	-	-	-	-
	67	121.0	119.8	120.7	105.4	120.6	88.8	120.4	72.2	119.9	55.5	-	-	111.8	111.8	109.3	99.7	109.7	84.1	109.7	68.0	109.5	51.9	-	-
	62	116.3	116.3	109.5	109.5	105.2	100.1	105.2	84.7	105.1	69.3	104.8	53.8	107.6	107.6	100.9	100.9	94.5	93.6	94.7	79.1	94.8	63.5	94.5	48.7
	57	112.5	112.5	105.7	105.7	99.0	99.0	92.3	92.3	90.9	79.5	90.9	65.4	103.9	103.9	97.1	97.1	90.4	90.4	83.8	83.8	80.5	73.5	80.6	59.6
4375	77	158.0	104.0	157.8	83.8	157.2	62.0	-	-	-	-	-	-	145.7	98.8	145.7	78.9	145.5	58.9	-	-	-	-	-	-
	72	140.8	120.2	140.7	100.9	140.7	80.3	140.1	60.9	-	-	-	-	128.8	115.0	129.3	95.4	129.4	76.5	128.9	56.2	-	-	-	-
	67	128.1	128.1	124.4	116.0	124.7	96.9	124.6	78.6	124.2	59.0	-	-	118.8	118.8	112.9	110.7	113.6	91.6	113.5	72.8	113.1	53.9	-	-
	62	123.9	123.9	116.7	116.7	109.8	108.8	109.5	92.5	109.3	74.4	108.8	56.1	114.8	114.8	107.7	107.7	100.6	100.6	98.1	87.7	98.5	69.1	98.3	51.8
	57	120.2	120.2	112.9	112.9	105.8	105.8	98.6	98.6	94.7	87.4	94.8	70.1	111.1	111.1	103.9	103.9	96.8	96.8	89.7	89.7	83.8	81.4	84.3	64.9
5000	77	161.3	111.1	161.3	89.2	160.8	65.4	-	-	-	-	-	-	148.6	106.8	148.7	83.8	148.4	62.0	-	-	-	-	-	-
	72	144.1	130.1	144.3	107.9	144.1	86.8	143.5	64.2	-	-	-	-	131.1	126.0	132.1	104.0	132.4	81.2	132.0	59.3	-	-	-	-
	67	134.4	134.4	127.9	124.2	127.9	104.4	127.8	83.4	127.3	62.1	-	-	124.7	124.7	117.3	117.3	116.3	99.5	116.5	78.3	116.1	56.9	-	-
	62	130.3	130.3	122.7	122.7	115.3	115.3	112.4	100.5	112.4	79.9	111.9	59.2	120.7	120.7	113.2	113.2	105.8	105.8	100.8	94.1	101.4	74.2	101.1	54.6
	57	126.6	126.6	118.9	118.9	111.6	111.6	103.8	103.8	97.8	95.0	98.0	75.5	117.1	117.1	109.6	109.6	102.1	102.1	94.8	94.8	87.4	87.4	87.0	69.7
5625	77	163.8	119.5	163.8	94.1	163.1	68.6	-	-	-	-	-	-	151.0	114.6	151.3	90.1	151.0	63.7	-	-	-	-	-	-
	72	146.5	140.8	146.8	115.7	146.7	91.6	146.2	66.0	-	-	-	-	134.2	134.2	134.4	111.2	134.7	86.8	134.4	62.2	-	-	-	-
	67	139.8	139.8	132.0	132.0	130.5	111.7	130.4	87.9	129.8	63.8	-	-	129.8	129.8	122.1	122.1	118.5	106.0	118.9	82.6	118.6	59.7	-	-
	62	135.8	135.8	127.9	127.9	119.9	119.9	114.8	107.1	115.0	84.3	114.5	62.1	125.8	125.8	118.0	118.0	110.2	110.2	103.3	101.4	103.9	79.2	103.3	57.2
	57	132.1	132.1	124.2	124.2	116.3	116.3	108.4	108.4	100.9	100.9	100.4	80.4	122.2	122.2	114.4	114.4	106.5	106.5	98.9	98.9	91.3	91.3	89.4	74.3
6250	77	166.1	126.3	166.1	99.2	165.5	70.3	-	-	-	-	-	-	152.9	122.2	153.3	94.7	153.2	66.8	-	-	-	-	-	-
	72	149.7	146.8	148.9	123.3	148.8	96.2	148.5	69.1	-	-	-	-	138.4	138.4	136.2	118.0	136.7	91.2	136.4	65.0	-	-	-	-
	67	144.4	144.4	136.4	136.4	132.5	118.7	132.6	93.5	132.1	66.8	-	-	134.1	134.1	126.1	126.1	120.3	114.6	120.9	87.7	120.6	62.5	-	-
	62	140.4	140.4	132.3	132.3	124.0	124.0	117.1	113.8	117.0	89.4	116.7	64.9	130.1	130.1	122.1	122.1	114.0	114.0	106.1	106.1	105.7	83.9	105.5	59.0
	57	136.8	136.8	128.7	128.7	120.3	120.3	112.3	112.3	104.4	104.4	102.5	85.2	126.7	126.7	118.5	118.5	110.4	110.4	102.5	102.5	94.6	94.6	91.4	79.5

HV15 cooling capacity performance

Table 7: HV15 cooling performance 75°F and 85°F

Air on evap. coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
CFM	WB (°F)	90		85		80		75		70		65		90		85		80		75		70		65	
		TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH
		75 (°F)												85 (°F)											
3750	77	219.9	116.8	219.5	98.9	219.2	80.9	-	-	-	-	-	-	212.3	113.6	211.9	95.4	211.5	77.1	-	-	-	-	-	-
	72	200.8	134.6	200.5	116.7	200.3	98.9	199.9	80.9	-	-	-	-	193.9	131.7	193.5	113.5	193.1	95.3	192.8	77.0	-	-	-	-
	67	183.3	152.2	183.0	134.4	182.6	116.6	182.3	98.7	182.0	80.8	-	-	176.7	149.6	176.3	131.5	175.9	113.3	175.6	95.1	175.4	76.8	-	-
	62	166.7	166.7	166.7	151.8	166.4	134.0	166.2	116.3	165.7	98.3	165.4	80.4	161.8	161.8	160.4	149.0	160.1	131.0	159.8	112.9	159.5	94.7	159.2	76.4
	57	164.8	164.8	157.2	157.2	150.9	150.7	151.0	133.3	150.9	115.6	150.6	97.8	160.4	160.4	152.7	152.7	145.3	145.3	145.2	130.4	144.8	112.2	144.5	94.0
4500	77	229.7	126.7	229.3	105.7	228.9	84.6	-	-	-	-	-	-	221.5	123.6	221.0	102.2	220.6	80.6	-	-	-	-	-	-
	72	210.3	147.7	209.9	126.8	209.6	105.8	209.2	84.6	-	-	-	-	202.5	145.0	202.3	123.6	201.8	102.2	201.4	80.6	-	-	-	-
	67	192.2	168.5	192.1	147.7	191.6	126.7	191.2	105.8	190.9	84.6	-	-	184.8	165.9	184.7	144.9	184.2	123.4	183.9	102.1	183.5	80.5	-	-
	62	179.4	179.4	174.9	168.0	175.0	147.6	174.6	126.5	174.1	105.5	173.8	84.3	174.6	174.6	167.6	165.6	168.2	144.7	167.6	123.1	167.3	101.8	166.9	80.2
	57	178.0	178.0	169.5	169.5	161.1	161.1	159.0	146.8	158.7	125.8	158.2	104.9	173.2	173.2	164.7	164.7	156.3	156.3	152.4	143.8	152.2	122.6	151.8	101.2
5250	77	237.2	135.8	236.7	111.9	236.1	87.6	-	-	-	-	-	-	228.2	132.8	227.8	108.4	227.5	83.6	-	-	-	-	-	-
	72	217.5	159.9	217.1	135.9	216.6	112.0	216.2	87.8	-	-	-	-	209.2	157.4	208.9	133.0	208.4	108.4	207.8	83.7	-	-	-	-
	67	198.9	183.4	198.8	159.9	198.3	135.9	197.8	111.9	197.5	87.8	-	-	190.9	181.1	190.9	157.3	190.6	132.9	190.1	108.2	189.8	83.7	-	-
	62	190.4	190.4	181.7	181.7	181.5	159.8	181.1	135.9	180.5	111.8	180.1	87.7	185.1	185.1	175.8	175.8	174.0	157.0	173.6	132.6	173.1	108.1	172.7	83.4
	57	189.1	189.1	179.8	179.7	170.6	170.6	164.9	159.1	164.8	135.4	164.3	111.3	183.8	183.8	174.4	174.4	165.3	165.3	157.6	156.7	158.1	132.3	157.4	107.6
6000	77	243.2	144.5	242.4	117.5	242.0	90.4	-	-	-	-	-	-	233.4	141.3	233.0	114.1	232.4	86.2	-	-	-	-	-	-
	72	223.1	171.4	222.8	144.6	222.3	117.7	221.8	90.6	-	-	-	-	214.3	169.2	214.0	141.7	213.4	114.1	212.7	86.4	-	-	-	-
	67	204.0	197.9	204.1	171.5	203.7	144.6	203.1	117.7	202.7	90.7	-	-	196.4	195.0	195.8	169.1	195.6	141.8	195.1	114.2	194.2	86.3	-	-
	62	199.6	199.6	189.8	189.8	186.3	171.2	186.1	144.5	185.5	117.6	184.9	90.6	193.8	193.8	183.9	183.9	178.4	168.7	178.1	141.4	177.7	113.8	177.4	86.4
	57	198.2	198.2	188.2	188.2	178.6	178.6	169.9	169.9	169.8	144.3	169.0	117.2	192.4	192.4	182.7	182.7	172.9	172.9	163.5	163.5	162.5	141.2	161.9	113.6
6750	77	247.8	152.6	247.0	122.8	246.6	92.9	-	-	-	-	-	-	237.7	149.7	237.5	119.5	236.6	88.8	-	-	-	-	-	-
	72	227.4	182.2	227.2	152.8	226.6	123.0	226.1	93.1	-	-	-	-	218.2	180.2	218.1	150.1	217.4	119.5	216.8	89.0	-	-	-	-
	67	209.1	209.1	208.5	182.5	208.2	153.0	207.6	123.1	207.0	93.3	-	-	203.0	203.0	199.8	180.3	199.5	150.1	199.0	119.6	198.1	89.0	-	-
	62	207.4	207.4	197.1	197.1	190.1	182.3	190.0	152.6	189.6	123.0	189.0	93.2	201.5	201.5	191.1	191.1	181.9	180.0	181.9	149.8	181.5	119.4	180.9	89.0
	57	206.0	206.0	195.6	195.6	185.4	185.4	175.5	175.5	173.5	152.4	173.0	122.7	200.1	200.1	189.7	189.7	179.5	179.5	169.6	169.6	165.8	149.4	165.3	119.0
7500	77	251.4	160.2	250.7	127.7	250.2	95.3	-	-	-	-	-	-	241.0	157.7	240.9	124.6	240.0	91.1	-	-	-	-	-	-
	72	231.3	192.8	231.0	160.5	230.3	128.0	229.5	95.4	-	-	-	-	221.6	190.9	221.5	158.0	220.8	124.6	220.2	91.3	-	-	-	-
	67	215.8	215.8	212.1	193.0	211.7	160.7	211.2	128.3	210.3	95.6	-	-	209.5	209.5	203.0	191.1	202.8	158.1	202.2	124.7	201.3	91.3	-	-
	62	214.3	214.3	203.5	203.5	193.7	192.2	193.5	160.5	192.7	127.9	192.2	95.6	208.0	208.0	197.2	197.2	186.6	186.6	185.0	157.9	184.7	124.7	183.9	91.3
	57	212.9	212.9	202.2	202.2	191.4	191.4	180.9	180.9	176.7	160.3	176.0	127.8	206.6	206.6	195.8	195.8	185.2	185.2	174.8	174.8	168.4	157.5	168.1	124.1

Table 8: HV15 cooling performance 95°F and 105°F

Air on evap. coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
CFM	WB (°F)	90		85		80		75		70		65		90		85		80		75		70		65	
		TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH
		95 (°F)												105 (°F)											
3750	77	204.6	110.4	204.0	91.8	204.0	73.3	-	-	-	-	-	-	195.2	106.5	194.9	87.8	194.7	68.9	-	-	-	-	-	-
	72	186.7	128.7	186.5	110.2	186.1	91.8	185.8	73.1	-	-	-	-	178.1	125.2	177.8	106.4	177.5	87.7	177.1	68.7	-	-	-	-
	67	170.1	146.9	169.8	128.5	169.5	110.0	169.0	91.5	168.6	72.8	-	-	161.7	143.5	161.7	125.0	161.5	106.2	161.0	87.3	160.7	68.4	-	-
	62	157.3	157.3	154.2	146.2	153.9	128.1	153.6	109.6	153.2	91.1	152.9	72.4	151.6	151.6	146.1	142.9	146.4	124.5	146.1	105.7	145.7	86.8	145.4	67.9
	57	155.9	155.9	148.2	148.2	140.6	140.6	139.1	127.2	139.0	108.9	138.7	90.4	150.3	150.3	142.6	142.6	135.1	135.1	131.9	123.5	131.9	105.0	131.6	86.1
4500	77	213.1	120.4	212.6	98.7	212.2	76.7	-	-	-	-	-	-	203.2	116.7	202.7	94.6	202.2	72.2	-	-	-	-	-	-
	72	194.8	142.1	194.5	120.4	194.1	98.6	193.8	76.7	-	-	-	-	185.3	138.8	185.2	116.7	184.9	94.5	184.3	72.1	-	-	-	-
	67	177.8	163.5	177.5	142.1	177.2	120.3	176.8	98.6	176.3	76.5	-	-	168.8	160.3	168.6	138.7	168.5	116.5	168.1	94.3	167.7	71.9	-	-
	62	169.6	169.6	161.1	161.1	161.3	141.7	161.0	119.9	160.6	98.1	160.2	76.2	163.4	163.4	155.0	155.0	153.0	138.1	152.8	116.2	152.5	93.9	152.0	71.6
	57	168.2	168.2	159.6	159.6	151.3	151.3	146.0	140.8	145.9	119.4	145.4	97.3	162.0	162.0	153.6	153.6	145.3	145.3	137.7	137.4	138.2	115.6	137.8	93.2
5250	77	219.6	129.8	219.1	104.9	218.5	79.7	-	-	-	-	-	-	209.0	126.4	208.4	100.8	207.9	75.2	-	-	-	-	-	-
	72	201.0	154.8	200.6	129.9	200.3	104.8	199.6	79.7	-	-	-	-	190.9	151.7	190.8	126.3	190.3	100.6	189.7	75.2	-	-	-	-
	67	182.9	179.3	183.3	154.8	182.9	129.7	182.5	104.7	181.9	79.6	-	-	174.7	174.7	174.0	151.5	173.7	126.2	173.3	100.6	172.6	74.8	-	-
	62	179.7	179.7	170.4	170.4	166.8	154.3	166.4	129.4	165.9	104.4	165.4	79.3	173.0	173.0	163.9	163.9	157.7	151.1	158.0	125.9	157.4	100.3	156.9	74.6
	57	178.3	178.3	169.0	169.0	160.1	160.1	151.2	151.2	151.2	129.1	150.7	104.0	171.7	171.7	162.5	162.5	153.6	153.6	144.8	144.8	143.0	125.3	142.7	99.8
6000	77	224.5	138.7	224.1	110.7	223.2	82.4	-	-	-	-	-	-	213.2	135.4	212.9	106.6	212.2	77.8	-	-	-	-	-	-
	72	205.5	166.6	205.4	138.8	205.0	110.7	204.3	82.5	-	-	-	-	195.2	163.7	194.9	135.4	194.7	106.6	193.6	77.7	-	-	-	-
	67	188.8	188.8	184.8	163.6	181.5	132.7	181.1	104.7	180.3	78.4	-	-	182.6	182.6	177.8	163.9	177.9	135.4	177.3	106.4	176.9	77.7	-	-
	62	188.2	188.2	178.4	178.4	170.6	166.5	170.8	138.5	170.4	110.4	169.6	82.2	181.0	181.0	171.4	171.4	161.9	161.9	161.5	135.0	161.2	106.2	160.5	77.3
	57	186.8	186.8	177.0	177.0	167.3	167.3	157.9	157.9	155.2	137.9	154.6	109.9	179.6	179.6	170.0	170.0	160.5	160.5	151.2	151.2	146.4	134.3	146.2	105.7
6750	77	228.4	147.1	227.9	116.1	226.9	84.7	-	-	-	-	-	-	216.9	144.1	216.4	112.2	215.6	80.2	-	-	-	-	-	-
	72	209.6	178.2	209.1	147.2	208.5	116.1	207.9	84.9	-	-	-	-	198.5	175.6	198.5	144.0	198.0	112.3	197.2	80.2	-	-	-	-
	67	196.0	196.0	187.5	173.9	184.2	140.3	183.6	111.0	183.0	80.9	-	-	189.4	189.4	180.6	176.3	181.1	144.1	180.6	112.1	180.0	80.2	-	-
	62	195.5	195.5	185.1	185.1	175.0	175.0	174.1	147.1	173.7	115.9	173.0	84.7	187.9	187.9	177.7	177.7	167.7	167.7	164.7	143.7	164.3	111.9	163.7	79.8
	57	194.1	194.1	183.7	183.7	173.6	173.6	163.8	163.8	158.3	146.4	157.8	115.4	186.5	186.5	176.4	176.4	166.3	166.3	156.6	156.6	148.9	143.5	149.0	111.4
7500	77	231.8	155.5	231.2	121.3	230.2	87.2	-	-	-	-	-	-	219.8	152.5	219.3	117.4	218.4	82.5	-	-	-	-	-	-
	72	212.5	189.1	212.1	155.2	211.7	121.3	210.9	87.2	-	-	-	-	200.7	187.0	201.1	152.5	200.7	117.5	199.8	82.5	-	-	-	-
	67	203.2	203.2	193.9	189.7	194.1	155.5	193.6	121.3	192.8	87.3	-	-	195.3	195.3	184.7	184.5	183.8	152.5	183.2	117.5	182.5	82.5	-	-
	62	201.6	201.6	191.0	191.0	180.4	180.4	177.0	155.2	176.6	121.2	175.7	87.0	193.8	193.8	182.9	182.9	172.9	172.9	167.1	152.3	166.9	117.2	166.1	82.2
	57	200.3	200.3	189.6	189.6	179.0	179.0	168.7	168.7	160.5	155.1	160.5	120.7	192.5	192.5	181.6	181.6	171.2	171.2	161.3	161.3	151.5	151.5	151.5	116.8

Table 9: HV15 cooling performance 115°F and 125°F

Air on evap. coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
CFM	WB (°F)	90		85		80		75		70		65		90		85		80		75		70		65	
		TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH
		115 (°F)												125 (°F)											
3750	77	183.8	102.6	183.5	83.4	183.3	64.1	-	-	-	-	-	-	171.1	97.6	171.1	78.3	170.9	58.9	-	-	-	-	-	-
	72	167.4	121.7	167.2	102.5	166.9	83.3	166.7	63.9	-	-	-	-	155.7	116.8	155.4	97.5	155.4	78.2	155.0	58.6	-	-	-	-
	67	151.7	140.2	151.9	121.5	151.6	102.3	151.1	82.9	150.7	63.5	-	-	140.3	135.4	141.0	116.6	140.8	97.3	140.5	77.8	140.2	58.3	-	-
	62	144.8	144.8	137.0	137.0	137.0	121.0	136.8	101.7	136.5	82.4	136.1	63.0	136.3	136.3	128.9	128.9	126.5	116.1	126.7	96.6	126.3	77.1	126.1	57.7
	57	143.4	143.4	135.6	135.6	128.2	128.2	122.6	119.9	123.0	100.9	122.7	81.5	134.9	134.9	127.6	127.6	120.1	120.1	113.0	113.0	113.6	95.8	113.2	76.3
4500	77	191.0	113.1	190.6	90.3	190.4	67.5	-	-	-	-	-	-	177.7	108.3	177.5	85.3	177.1	62.1	-	-	-	-	-	-
	72	173.9	135.7	173.8	113.0	173.5	90.2	173.1	67.2	-	-	-	-	161.4	130.8	161.4	108.0	161.3	85.0	160.9	61.8	-	-	-	-
	67	157.3	157.3	157.9	135.5	157.7	112.8	157.6	89.9	157.2	67.0	-	-	148.3	148.3	146.1	130.5	146.3	107.8	146.0	84.7	145.8	61.6	-	-
	62	155.8	155.8	147.5	147.5	142.6	134.9	142.9	112.4	142.6	89.5	142.2	66.5	146.8	146.8	138.6	138.6	131.1	131.0	132.2	107.5	131.9	84.3	131.4	61.1
	57	154.5	154.5	146.0	146.0	137.8	137.8	129.7	129.7	128.7	111.7	128.5	88.8	145.3	145.3	137.2	137.2	129.2	129.2	121.3	121.3	118.7	106.6	118.4	83.5
5250	77	196.0	123.0	195.6	96.7	195.1	70.3	-	-	-	-	-	-	182.2	118.1	182.0	91.6	181.6	65.0	-	-	-	-	-	-
	72	179.0	149.1	179.0	123.1	178.6	96.6	178.1	70.2	-	-	-	-	166.0	144.3	165.9	118.0	165.9	91.5	165.4	64.8	-	-	-	-
	67	166.4	166.4	162.3	148.9	162.5	122.8	162.2	96.4	161.8	70.0	-	-	156.7	156.7	149.7	144.6	150.3	117.8	150.0	91.1	149.7	64.4	-	-
	62	164.8	164.8	156.0	156.0	147.0	147.0	147.1	122.4	147.0	96.1	146.4	69.5	155.2	155.2	146.2	146.2	137.9	137.9	135.7	117.3	135.7	90.7	135.3	64.0
	57	163.4	163.4	154.5	154.5	145.6	145.6	137.0	137.0	132.8	121.7	132.8	95.5	153.8	153.8	144.9	144.9	136.5	136.5	127.9	127.9	121.9	116.8	122.3	90.1
6000	77	199.9	132.5	199.7	102.7	199.1	73.0	-	-	-	-	-	-	185.6	127.7	185.2	97.5	185.0	67.6	-	-	-	-	-	-
	72	182.5	161.7	182.7	132.5	182.4	102.8	181.8	72.9	-	-	-	-	168.9	157.4	169.1	127.6	169.2	97.6	168.6	67.4	-	-	-	-
	67	173.9	173.9	165.5	162.8	166.1	132.3	165.9	102.5	165.3	72.7	-	-	163.6	163.6	154.3	154.3	153.8	127.4	153.4	97.2	152.9	67.1	-	-
	62	172.4	172.4	162.9	162.9	153.5	153.5	150.3	131.8	150.4	102.2	149.6	72.2	162.0	162.0	152.9	152.9	143.8	143.8	138.6	127.2	138.6	96.8	138.3	66.6
	57	171.0	171.0	161.5	161.5	152.2	152.2	143.0	143.0	135.6	131.6	136.0	101.7	160.6	160.6	151.5	151.5	142.2	142.2	133.3	133.3	124.8	124.8	124.9	96.3
6750	77	203.1	141.6	202.8	108.5	202.2	75.5	-	-	-	-	-	-	188.1	136.9	188.3	103.5	187.6	70.0	-	-	-	-	-	-
	72	185.3	174.3	185.5	141.6	185.2	108.5	184.6	75.3	-	-	-	-	170.9	170.2	171.8	136.8	171.7	103.4	171.2	69.8	-	-	-	-
	67	180.5	180.5	170.3	170.3	169.2	141.4	168.9	108.4	168.2	75.2	-	-	169.3	169.3	159.7	159.7	156.1	136.9	156.1	103.2	155.6	69.6	-	-
	62	179.0	179.0	168.8	168.8	159.0	159.0	153.2	141.2	153.1	108.0	152.5	74.8	167.6	167.6	158.2	158.2	148.7	148.7	140.4	137.7	141.2	102.7	140.5	69.1
	57	177.6	177.6	167.4	167.4	157.5	157.5	148.0	148.0	138.6	138.6	138.4	107.5	166.3	166.3	156.8	156.8	147.3	147.3	138.0	138.0	129.0	129.0	127.0	102.2
7500	77	205.3	150.3	205.4	114.1	204.7	77.8	-	-	-	-	-	-	190.2	145.8	190.4	109.1	189.9	72.3	-	-	-	-	-	-
	72	187.5	186.6	187.9	150.3	187.8	114.1	187.0	77.6	-	-	-	-	175.9	175.2	173.6	145.7	173.8	108.9	173.4	72.2	-	-	-	-
	67	185.7	185.7	175.3	175.3	171.3	150.4	171.1	114.0	170.4	77.5	-	-	174.3	174.3	164.6	164.6	157.9	146.0	158.0	108.8	157.4	71.8	-	-
	62	184.2	184.2	173.9	173.9	163.6	163.6	155.0	150.9	155.4	113.6	154.7	77.1	172.8	172.8	162.9	162.9	152.9	152.9	143.4	143.4	143.2	108.5	142.6	71.5
	57	182.8	182.8	172.4	172.4	162.2	162.2	152.3	152.3	142.6	142.6	140.5	113.2	171.4	171.4	161.5	161.5	151.5	151.5	142.0	142.0	132.5	132.5	128.9	107.8

HV20 cooling capacity performance

Table 10: HV20 cooling performance 75°F and 85°F

Air on evap. coil		Temperature of air on condenser coil																					
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)									
CFM	WB (°F)	90		85		80		75		70		65		90		85		80		75		70		65	
		TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH
		75 (°F)												85 (°F)											
5000	77	311.4	162.5	311.8	138.4	312.2	113.8	-	-	-	-	-	-	297.4	155.4	298.1	131.0	298.5	106.4	-	-	-	-	-	-
	72	281.7	187.0	282.5	162.7	282.8	138.2	283.1	113.3	-	-	-	-	268.7	179.9	269.2	155.6	269.9	130.7	270.4	105.9	-	-	-	-
	67	253.8	211.3	254.3	187.2	255.3	162.4	255.7	137.7	255.9	112.5	-	-	242.0	204.1	242.4	179.9	242.8	155.5	243.5	130.1	243.9	104.9	-	-
	62	230.0	230.0	228.5	211.3	229.1	186.8	229.8	162.1	230.3	136.7	230.4	111.2	219.8	219.8	217.6	203.9	217.9	179.7	218.3	154.9	218.9	129.4	219.2	103.6
	57	224.3	224.3	213.9	213.9	206.8	206.8	205.8	186.2	206.2	161.1	206.8	135.3	215.1	215.1	205.0	205.0	196.9	196.9	195.5	179.0	195.9	153.8	196.0	128.3
6000	77	326.0	176.4	326.5	148.0	327.0	119.2	-	-	-	-	-	-	311.1	169.1	311.7	140.4	312.0	111.4	-	-	-	-	-	-
	72	295.6	205.7	296.5	176.9	296.9	148.2	297.2	118.9	-	-	-	-	282.0	198.7	282.6	170.1	283.2	140.5	283.5	111.2	-	-	-	-
	67	267.2	235.0	267.7	206.4	268.6	177.2	269.1	148.0	269.3	118.3	-	-	254.3	227.8	255.1	199.2	255.4	170.2	256.2	140.3	256.3	110.5	-	-
	62	246.8	246.8	241.9	234.0	241.6	206.7	242.2	177.1	242.8	147.2	243.0	117.2	237.0	237.0	230.9	224.6	229.8	199.3	230.2	169.9	230.7	139.6	230.7	109.3
	57	243.5	243.5	232.1	232.1	220.6	220.6	217.5	206.2	217.8	176.5	218.3	146.0	233.7	233.7	222.3	222.3	211.1	211.1	206.5	197.9	206.6	169.0	206.8	138.9
7000	77	337.4	189.5	337.6	156.8	338.0	123.6	-	-	-	-	-	-	321.5	182.1	322.2	149.2	322.3	115.8	-	-	-	-	-	-
	72	306.2	223.5	307.2	190.2	307.6	157.2	307.8	123.5	-	-	-	-	291.6	216.1	292.2	183.3	293.2	149.4	293.3	115.7	-	-	-	-
	67	277.0	257.2	278.0	224.5	278.6	190.8	279.1	157.1	279.3	123.0	-	-	264.7	247.6	264.1	217.3	264.9	184.0	265.7	149.4	265.9	115.2	-	-
	62	263.1	263.1	252.8	252.8	251.3	225.3	251.8	191.3	252.4	156.6	252.6	122.2	252.3	252.3	240.8	240.8	238.3	217.6	239.2	183.6	239.7	149.3	239.9	114.3
	57	259.8	259.8	247.2	247.2	234.8	234.8	227.1	223.0	226.9	190.9	227.4	155.7	249.0	249.0	236.9	236.9	224.5	224.5	215.8	213.6	214.7	183.4	215.1	148.5
8000	77	346.3	201.9	346.3	165.0	346.6	127.6	-	-	-	-	-	-	329.7	194.6	330.3	157.3	330.4	119.7	-	-	-	-	-	-
	72	315.0	240.5	315.8	202.9	316.0	165.5	316.2	127.6	-	-	-	-	299.0	233.4	299.8	195.9	300.9	157.6	300.8	119.6	-	-	-	-
	67	286.9	275.1	285.8	242.1	286.3	203.9	287.0	165.6	287.1	127.3	-	-	273.5	265.1	271.1	234.8	272.0	196.6	272.8	157.9	273.1	119.3	-	-
	62	276.7	276.7	263.4	263.4	258.6	242.6	259.3	204.5	259.8	165.4	260.0	126.5	265.4	265.4	252.2	252.2	246.2	232.6	245.6	197.3	246.4	158.2	246.9	118.6
	57	273.4	273.4	260.0	260.0	246.8	246.8	234.8	234.8	233.8	204.7	234.6	164.9	262.1	262.1	248.8	248.8	235.8	235.8	223.0	223.0	221.0	197.1	221.7	157.5
9000	77	353.5	213.8	353.8	172.9	353.6	131.2	-	-	-	-	-	-	335.7	206.7	336.8	165.0	336.7	123.2	-	-	-	-	-	-
	72	321.6	257.0	322.4	215.1	322.7	173.4	322.7	131.3	-	-	-	-	305.2	249.9	306.0	208.0	307.2	165.5	307.2	123.3	-	-	-	-
	67	294.3	292.1	292.1	258.8	293.1	216.6	293.4	173.6	293.6	131.1	-	-	280.3	280.3	277.3	250.8	277.8	208.9	278.6	165.9	278.9	123.0	-	-
	62	288.7	288.7	274.4	274.4	265.9	256.3	265.2	217.1	266.0	173.6	266.0	130.5	276.4	276.4	262.7	262.7	252.8	246.4	251.1	209.7	251.8	166.4	252.7	122.5
	57	285.3	285.3	271.1	271.1	257.1	257.1	243.0	243.0	239.2	217.7	240.0	173.4	273.0	273.0	259.3	259.3	245.5	245.5	232.0	232.0	226.2	209.7	226.8	165.9
10000	77	358.9	225.3	359.3	180.2	359.2	134.6	-	-	-	-	-	-	340.8	218.3	342.0	172.3	342.1	126.6	-	-	-	-	-	-
	72	326.9	272.9	328.0	226.9	328.4	181.0	328.3	134.8	-	-	-	-	310.4	265.9	311.2	219.8	312.3	173.0	312.1	126.6	-	-	-	-
	67	302.5	302.5	297.5	274.2	298.4	228.4	298.8	181.3	298.8	134.6	-	-	289.9	289.9	283.5	263.6	282.4	221.4	283.5	173.6	283.8	126.5	-	-
	62	298.7	298.7	284.0	284.0	271.4	269.8	270.2	229.7	271.0	181.3	271.0	134.1	286.3	286.3	271.8	271.8	258.1	258.1	255.7	222.4	256.4	174.3	256.8	125.8
	57	295.5	295.5	280.6	280.6	265.9	265.9	251.4	251.4	243.8	229.7	244.4	181.5	282.9	282.9	268.4	268.4	254.0	254.0	239.7	239.7	231.4	219.5	231.1	173.8

Table 11: HV20 cooling performance 95°F and 105°F

Air on evap. coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
CFM	WB (°F)	90		85		80		75		70		65		90		85		80		75		70		65	
		TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH
		95 (°F)												105 (°F)											
5000	77	281.8	148.0	282.7	123.7	283.6	98.6	-	-	-	-	-	-	272.0	144.1	271.8	118.0	271.4	91.6	-	-	-	-	-	-
	72	254.8	172.1	255.0	148.1	255.5	123.4	256.3	98.0	-	-	-	-	244.1	169.1	244.4	142.8	244.0	116.7	243.7	90.4	-	-	-	-
	67	229.0	196.4	229.2	172.3	229.7	147.7	230.0	122.9	230.7	97.0	-	-	218.4	193.2	218.1	167.6	218.0	141.6	217.8	115.1	217.6	88.8	-	-
	62	208.5	208.5	206.4	195.1	205.9	172.0	206.4	147.1	206.6	122.1	207.0	95.9	200.7	200.7	196.3	187.5	194.0	165.5	193.7	139.6	193.5	113.1	193.1	86.8
	57	205.1	205.1	195.1	195.1	186.0	186.0	184.1	170.9	184.3	146.2	184.6	120.6	196.3	196.3	185.6	185.6	175.1	175.1	172.1	161.9	171.1	137.2	171.0	110.7
6000	77	294.6	161.9	295.3	133.0	296.2	103.5	-	-	-	-	-	-	283.1	158.4	283.0	127.7	282.9	96.5	-	-	-	-	-	-
	72	267.0	191.0	267.3	162.3	267.9	133.3	268.7	103.2	-	-	-	-	255.1	188.8	255.2	157.8	255.2	126.8	255.0	95.5	-	-	-	-
	67	235.7	214.1	235.9	186.4	235.4	158.2	236.7	128.9	237.5	98.4	-	-	231.1	213.2	228.7	187.4	228.7	156.7	228.6	125.3	228.4	94.2	-	-
	62	226.0	226.0	218.6	215.1	216.6	191.3	217.0	161.8	217.2	132.1	217.7	101.2	217.6	217.6	207.9	207.6	204.4	184.3	203.7	154.8	203.6	123.4	203.2	92.2
	57	222.7	222.7	211.6	211.6	200.5	200.5	195.1	188.3	194.0	161.2	194.3	130.9	213.2	213.2	201.4	201.4	189.9	189.9	182.9	178.3	180.4	152.3	180.4	121.2
7000	77	303.7	174.8	304.5	141.2	305.1	107.5	-	-	-	-	-	-	291.7	172.2	291.6	136.7	291.6	100.1	-	-	-	-	-	-
	72	275.4	208.6	276.1	175.3	276.6	141.9	277.5	107.4	-	-	-	-	263.2	207.6	263.1	171.9	263.3	135.7	263.4	100.0	-	-	-	-
	67	246.1	232.1	244.3	204.5	244.1	170.6	245.3	138.0	246.2	103.0	-	-	240.5	231.5	236.8	205.4	236.7	170.6	236.9	134.6	236.7	98.8	-	-
	62	240.5	240.5	228.5	228.5	225.2	208.2	225.1	176.0	225.2	141.4	226.0	105.9	231.3	231.3	218.8	218.8	213.5	199.2	211.3	169.2	211.6	132.9	211.2	97.1
	57	237.1	237.1	225.0	225.0	213.3	213.3	203.6	203.6	201.7	175.4	201.9	140.3	226.9	226.9	214.4	214.4	202.0	202.0	190.8	190.8	187.6	166.7	187.4	131.1
8000	77	311.2	187.1	312.0	149.1	312.5	111.4	-	-	-	-	-	-	298.1	186.1	298.3	145.3	298.8	104.2	-	-	-	-	-	-
	72	282.2	225.5	283.0	187.9	283.4	150.0	284.1	111.1	-	-	-	-	269.4	225.2	269.4	185.0	269.8	144.3	269.5	103.4	-	-	-	-
	67	259.3	254.4	255.8	226.4	256.4	188.9	256.9	150.3	257.6	110.8	-	-	248.0	248.0	244.4	219.3	242.5	184.4	243.0	143.2	242.7	102.6	-	-
	62	252.7	252.7	240.0	240.0	232.8	222.1	231.4	189.1	231.7	150.0	232.5	110.1	243.0	243.0	229.8	229.8	220.2	213.4	217.1	182.7	217.3	142.2	217.4	101.3
	57	249.3	249.3	236.6	236.6	223.7	223.7	211.3	211.3	207.7	188.7	208.1	149.1	238.6	238.6	225.4	225.4	212.3	212.3	199.2	199.2	193.9	177.9	193.1	140.2
9000	77	317.6	199.1	317.9	157.1	318.4	114.8	-	-	-	-	-	-	303.2	198.7	304.0	153.4	304.2	107.9	-	-	-	-	-	-
	72	288.0	241.8	288.9	200.0	289.4	157.8	290.0	114.7	-	-	-	-	275.9	238.6	274.8	198.0	275.2	152.6	275.5	107.1	-	-	-	-
	67	267.0	267.0	262.6	239.7	261.7	201.3	262.1	158.3	262.8	114.4	-	-	257.7	257.7	250.6	232.3	247.3	196.9	247.8	151.4	247.7	106.2	-	-
	62	263.3	263.3	249.6	249.6	238.7	235.7	236.4	201.8	236.7	158.1	237.6	113.8	252.9	252.9	239.0	239.0	225.7	225.7	222.0	194.3	221.9	150.8	222.2	105.0
	57	259.9	259.9	246.2	246.2	232.9	232.9	219.8	219.8	213.1	199.3	212.8	157.7	248.5	248.5	234.5	234.5	220.7	220.7	207.2	207.2	199.3	187.8	197.6	148.8
10000	77	322.0	210.4	322.5	164.5	323.3	118.1	-	-	-	-	-	-	307.4	211.1	308.1	161.3	308.9	111.0	-	-	-	-	-	-
	72	293.0	256.6	293.1	212.6	294.1	165.5	294.7	118.1	-	-	-	-	281.2	250.7	278.8	210.9	279.3	160.6	279.8	110.4	-	-	-	-
	67	275.9	275.9	268.0	252.2	266.1	213.6	266.6	165.7	267.2	117.7	-	-	266.2	266.2	255.4	244.9	251.3	209.2	251.5	160.1	252.0	109.4	-	-
	62	272.1	272.1	258.0	258.0	244.3	244.3	240.4	213.9	240.8	165.9	241.5	117.1	261.4	261.4	246.9	246.9	232.6	232.6	226.8	203.5	225.5	158.9	225.8	108.4
	57	268.8	268.8	254.8	254.8	240.8	240.8	226.9	226.9	217.7	209.0	216.7	166.3	257.0	257.0	242.5	242.5	228.1	228.1	214.1	214.1	203.4	197.5	200.9	157.3

Table 12: HV20 cooling performance 115°F and 125°F

Air on evap. coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
CFM	WB (°F)	90		85		80		75		70		65		90		85		80		75		70		65	
		TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH
		115 (°F)												125 (°F)											
5000	77	251.6	135.0	251.3	108.8	251.1	82.6	-	-	-	-	-	-	233.6	127.2	233.6	101.0	233.5	74.3	-	-	-	-	-	-
	72	225.1	160.1	225.1	134.0	224.9	107.5	224.8	81.3	-	-	-	-	208.6	152.0	208.3	126.1	208.2	99.6	208.2	72.9	-	-	-	-
	67	201.4	182.5	200.4	158.4	200.2	132.3	200.0	105.9	199.7	79.5	-	-	187.2	172.0	184.9	150.1	184.5	124.3	184.2	97.9	184.2	71.2	-	-
	62	186.3	186.3	180.0	177.2	177.2	156.2	176.8	130.5	176.8	103.9	176.4	77.6	173.7	173.7	166.3	166.3	163.0	146.9	162.2	122.0	161.8	95.8	162.4	69.4
	57	181.9	181.9	171.5	171.5	161.3	161.3	156.8	151.4	155.3	127.8	154.9	101.8	169.2	169.2	159.1	159.1	149.1	149.1	143.6	141.3	141.4	119.2	140.8	93.4
6000	77	261.2	149.2	261.2	118.2	261.2	87.2	-	-	-	-	-	-	242.5	141.5	242.7	110.2	242.8	79.0	-	-	-	-	-	-
	72	234.7	179.3	234.8	148.5	234.9	117.2	234.9	86.1	-	-	-	-	217.5	171.5	217.3	140.5	217.2	109.4	217.3	77.8	-	-	-	-
	67	212.8	201.9	209.6	177.8	209.6	147.1	209.7	115.7	209.4	84.7	-	-	197.4	190.9	194.0	168.1	193.2	138.8	193.1	107.7	192.9	76.1	-	-
	62	201.9	201.9	190.6	190.6	187.2	173.2	186.0	145.2	185.7	114.0	185.5	82.8	188.2	188.2	177.2	177.2	172.8	162.4	170.4	136.7	170.0	105.7	169.8	74.1
	57	197.6	197.6	186.2	186.2	175.0	175.0	166.3	166.3	163.7	142.7	163.2	111.8	183.8	183.8	172.8	172.8	161.8	161.8	152.1	152.1	149.0	133.9	148.3	103.4
7000	77	268.3	163.2	268.6	127.1	268.7	91.1	-	-	-	-	-	-	249.5	155.4	249.2	119.4	249.5	83.1	-	-	-	-	-	-
	72	241.7	197.8	241.5	162.0	242.0	126.0	242.0	90.2	-	-	-	-	224.5	188.1	223.7	154.4	223.7	118.5	223.9	81.9	-	-	-	-
	67	221.0	219.7	217.7	193.7	216.6	160.9	216.8	124.8	216.5	89.1	-	-	205.1	205.1	201.9	182.2	199.6	152.8	199.5	116.9	199.4	80.5	-	-
	62	214.5	214.5	202.5	202.5	195.1	187.9	192.7	159.2	192.4	123.5	192.3	87.3	200.2	200.2	188.3	188.3	179.8	176.6	176.4	150.8	176.3	115.3	176.1	78.7
	57	210.1	210.1	198.1	198.1	186.0	186.0	174.3	174.3	170.4	155.9	169.7	121.3	195.7	195.7	183.9	183.9	172.3	172.3	160.6	160.6	155.8	144.8	154.3	112.8
8000	77	274.3	176.1	274.8	135.5	275.0	94.7	-	-	-	-	-	-	254.2	168.9	254.6	128.0	254.8	87.0	-	-	-	-	-	-
	72	248.1	213.0	247.4	175.3	247.7	134.5	247.4	93.9	-	-	-	-	230.9	200.9	228.6	167.6	228.8	127.0	229.0	85.8	-	-	-	-
	67	230.1	230.1	224.5	207.2	221.7	174.3	222.0	133.3	222.0	92.7	-	-	214.8	214.8	207.7	195.5	204.2	166.0	204.4	125.6	204.4	84.4	-	-
	62	225.2	225.2	212.4	212.4	201.2	201.2	197.8	172.4	197.8	132.4	197.9	91.4	209.9	209.9	197.7	197.7	185.5	185.5	181.9	161.1	180.9	124.0	181.0	82.6
	57	220.8	220.8	208.0	208.0	195.5	195.5	182.9	182.9	176.0	166.1	174.8	130.3	205.6	205.6	193.3	193.3	180.9	180.9	168.7	168.7	160.9	155.1	158.7	121.8
9000	77	279.0	188.7	279.4	143.5	280.0	98.2	-	-	-	-	-	-	258.4	181.5	258.7	136.4	259.3	90.5	-	-	-	-	-	-
	72	253.9	225.7	251.7	188.3	252.4	142.8	252.5	97.3	-	-	-	-	235.9	213.4	232.6	180.7	232.9	135.4	233.1	89.5	-	-	-	-
	67	239.1	239.1	229.6	220.0	226.1	187.0	226.2	142.1	226.4	96.2	-	-	223.2	223.2	212.4	207.9	208.6	176.7	208.0	133.8	208.1	88.0	-	-
	62	234.2	234.2	221.0	221.0	207.7	207.7	202.6	181.9	201.9	140.7	202.0	95.0	218.3	218.3	205.4	205.4	192.6	192.6	186.5	170.5	184.5	132.8	184.8	86.3
	57	229.8	229.8	216.6	216.6	203.3	203.3	190.1	190.1	180.7	176.1	178.7	139.1	214.0	214.0	201.0	201.0	188.1	188.1	175.5	175.5	165.1	164.6	162.2	130.0
10000	77	282.2	201.5	283.5	151.4	283.8	101.1	-	-	-	-	-	-	261.5	194.4	262.1	144.4	264.6	93.5	-	-	-	-	-	-
	72	258.2	238.1	254.9	200.8	255.9	151.1	256.8	100.5	-	-	-	-	240.2	225.2	236.2	191.7	236.3	143.1	236.6	92.9	-	-	-	-
	67	246.7	246.7	233.7	232.3	230.1	197.7	229.8	150.4	230.2	99.5	-	-	230.3	230.3	217.0	217.0	212.9	185.5	211.2	142.7	211.5	91.5	-	-
	62	241.9	241.9	228.1	228.1	214.3	214.3	207.0	191.3	205.2	148.5	205.2	98.0	225.4	225.4	212.1	212.1	198.9	198.9	190.2	179.5	187.4	140.6	187.6	89.7
	57	237.7	237.7	223.7	223.7	209.9	209.9	196.5	196.5	184.3	184.3	182.0	147.1	221.1	221.1	207.7	207.7	194.5	194.5	181.2	181.2	168.6	168.6	165.1	138.4

HV25 cooling capacity performance

Table 13: HV25 cooling performance 75°F and 85°F

Air on evap. coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
CFM	WB (°F)	90		85		80		75		70		65		90		85		80		75		70		65	
		TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH
		75 (°F)												85 (°F)											
6250	77	375.8	198.9	375.5	167.1	374.6	135.0	-	-	-	-	-	-	358.6	188.7	357.6	156.6	357.2	124.6	-	-	-	-	-	-
	72	338.7	229.4	338.5	197.4	338.3	165.8	337.8	133.7	-	-	-	-	321.1	219.4	320.9	187.4	321.2	155.1	320.4	122.8	-	-	-	-
	67	303.1	260.1	302.9	228.1	303.2	195.9	303.2	163.9	302.8	131.8	-	-	286.8	249.7	287.2	217.7	286.6	185.5	286.7	153.2	286.5	120.9	-	-
	62	272.3	272.3	270.1	257.7	270.5	225.9	269.7	193.6	269.8	161.2	269.4	129.2	259.4	259.4	254.6	247.3	255.1	215.4	254.8	183.1	254.2	150.8	254.0	118.2
	57	264.6	264.6	251.7	251.7	240.9	240.9	239.6	223.0	239.4	190.8	239.2	158.3	252.0	252.0	239.2	239.2	227.2	227.2	224.9	212.3	224.7	180.0	224.3	147.6
7500	77	396.9	218.6	396.5	181.1	396.1	143.1	-	-	-	-	-	-	378.5	208.5	377.4	170.3	376.9	132.3	-	-	-	-	-	-
	72	358.5	255.6	358.6	217.5	358.2	179.8	357.8	141.9	-	-	-	-	340.1	245.6	340.1	207.2	340.1	168.9	338.9	130.6	-	-	-	-
	67	321.5	292.4	321.6	254.5	321.9	215.9	321.6	178.0	321.2	140.1	-	-	304.4	282.0	304.4	244.2	304.3	205.5	304.3	166.9	303.9	128.8	-	-
	62	297.7	297.7	288.6	287.6	287.7	253.0	288.0	214.7	287.9	175.9	287.3	137.8	284.1	284.1	273.4	273.4	271.1	242.4	271.8	203.7	271.1	165.2	270.9	126.5
	57	290.6	290.6	276.0	276.0	261.9	261.9	255.8	250.1	256.4	212.1	256.3	173.4	276.7	276.7	262.7	262.7	248.6	248.6	240.8	238.2	240.6	201.3	240.5	162.5
8750	77	412.6	237.0	412.0	193.4	411.4	149.6	-	-	-	-	-	-	393.3	226.7	391.9	182.5	391.2	138.6	-	-	-	-	-	-
	72	373.7	280.7	373.7	236.1	373.8	192.7	372.7	148.6	-	-	-	-	354.2	270.5	354.5	225.6	354.5	181.5	353.0	137.2	-	-	-	-
	67	335.8	321.7	336.0	279.8	336.2	234.6	336.1	190.8	335.5	147.0	-	-	319.3	308.0	318.1	269.1	318.0	224.4	317.6	179.4	316.7	135.3	-	-
	62	319.0	319.0	303.9	303.9	301.1	278.0	301.1	233.6	301.0	188.7	300.5	144.9	304.6	304.6	289.2	289.2	283.3	267.0	284.0	222.5	283.7	177.5	282.9	133.1
	57	311.8	311.8	296.2	296.2	280.8	280.8	269.5	269.5	268.5	231.7	269.4	186.7	297.3	297.3	281.7	281.7	266.5	266.5	254.3	254.3	252.2	220.6	252.7	175.7
10000	77	424.7	254.2	424.1	204.8	423.7	155.4	-	-	-	-	-	-	404.6	243.7	403.1	193.7	402.2	144.2	-	-	-	-	-	-
	72	384.5	304.1	385.5	253.5	385.4	204.2	384.3	154.5	-	-	-	-	365.0	294.1	365.1	243.1	365.4	192.9	363.3	142.7	-	-	-	-
	67	349.6	344.3	347.5	303.3	347.6	252.8	347.6	202.6	346.8	153.1	-	-	331.5	330.5	328.2	292.4	328.7	242.1	328.4	191.1	327.1	141.2	-	-
	62	337.2	337.2	320.2	320.2	311.9	300.4	311.9	251.6	311.7	200.7	311.0	151.1	321.6	321.6	304.9	304.9	294.8	286.2	293.4	241.2	293.6	189.0	292.6	139.1
	57	330.0	330.0	313.1	313.1	296.5	296.5	280.9	280.9	278.5	249.6	279.1	198.6	314.3	314.3	297.5	297.5	281.4	281.4	265.7	265.7	261.3	237.9	261.6	187.3
11250	77	434.2	270.5	434.2	215.6	433.1	160.5	-	-	-	-	-	-	412.9	259.8	412.3	204.4	410.6	149.1	-	-	-	-	-	-
	72	393.3	326.5	394.3	269.8	394.1	214.7	393.4	159.7	-	-	-	-	373.2	315.5	373.7	259.0	374.1	203.5	371.6	147.8	-	-	-	-
	67	360.4	360.4	355.7	326.1	356.4	269.8	356.4	213.7	355.8	158.5	-	-	344.2	344.2	336.5	313.3	336.7	259.4	336.8	201.9	334.9	146.3	-	-
	62	352.3	352.3	334.7	334.7	322.0	317.8	320.3	269.8	320.5	212.0	320.0	156.8	336.0	336.0	318.6	318.6	304.2	303.6	301.4	258.3	301.8	200.1	300.4	144.4
	57	344.3	344.3	327.4	327.4	309.9	309.9	292.9	292.9	286.2	266.8	287.1	209.8	328.9	328.9	311.3	311.3	294.2	294.2	277.3	277.3	268.6	255.3	269.1	198.3
12500	77	439.0	286.0	439.7	225.9	441.1	165.4	-	-	-	-	-	-	420.2	275.4	419.9	214.4	417.6	153.6	-	-	-	-	-	-
	72	400.9	346.9	401.8	285.6	402.1	225.0	401.0	164.5	-	-	-	-	379.6	338.8	380.4	275.1	381.3	213.6	378.6	152.4	-	-	-	-
	67	373.3	373.3	363.4	343.6	363.8	286.5	363.7	224.0	362.9	163.3	-	-	356.4	356.4	344.5	328.8	343.3	275.6	343.3	212.0	341.2	150.8	-	-
	62	365.2	365.2	347.2	347.2	330.2	330.2	327.6	285.6	327.6	222.5	326.8	161.7	348.4	348.4	330.4	330.4	312.2	312.2	307.8	274.4	309.0	210.5	306.3	149.0
	57	358.0	358.0	340.0	340.0	321.3	321.3	303.7	303.7	293.0	282.2	293.7	220.8	341.2	341.2	322.9	322.9	305.0	305.0	287.6	287.6	275.6	267.8	275.4	209.0

Table 14: HV25 cooling performance 95°F and 105°F

Air on evap. coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
CFM	WB (°F)	90		85		80		75		70		65		90		85		80		75		70		65	
		TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH
		95 (°F)												105 (°F)											
6250	77	337.2	178.4	337.4	146.0	337.3	113.7	-	-	-	-	-	-	312.5	164.6	312.7	132.4	312.6	100.1	-	-	-	-	-	-
	72	302.2	208.8	301.8	176.7	301.6	144.4	301.5	111.8	-	-	-	-	279.3	195.0	279.1	162.9	278.5	130.6	278.8	98.2	-	-	-	-
	67	269.4	239.4	269.4	207.1	269.4	174.8	268.7	142.4	268.8	109.8	-	-	247.4	224.7	247.8	193.0	247.7	160.8	247.3	128.6	247.1	96.1	-	-
	62	245.4	245.4	238.7	235.1	238.2	204.6	238.0	172.2	237.7	139.7	237.3	107.3	228.4	228.4	219.0	219.0	217.9	190.6	217.7	158.4	217.8	125.9	217.1	93.2
	57	238.1	238.1	225.7	225.7	213.3	213.3	209.3	201.4	209.3	169.0	208.8	136.5	221.0	221.0	208.9	208.9	196.9	196.9	190.2	187.0	190.1	155.0	189.6	122.3
7500	77	355.2	198.0	356.0	159.5	355.9	120.8	-	-	-	-	-	-	329.0	183.8	329.4	145.1	328.8	107.0	-	-	-	-	-	-
	72	319.4	235.6	319.2	196.7	319.0	158.0	319.4	119.0	-	-	-	-	294.4	220.7	294.7	182.1	294.4	143.4	294.0	105.0	-	-	-	-
	67	285.4	270.3	285.3	233.5	285.6	195.0	284.8	156.3	284.9	117.3	-	-	263.1	253.1	261.6	219.1	262.1	180.3	261.8	141.7	262.0	103.1	-	-
	62	269.1	269.1	256.0	256.0	253.3	231.1	253.3	193.0	253.3	154.1	253.3	115.1	250.0	250.0	236.6	236.6	230.9	216.6	231.5	178.2	231.9	139.6	231.2	100.5
	57	261.6	261.6	248.0	248.0	234.0	234.0	224.6	224.6	223.4	190.1	223.4	151.1	242.6	242.6	229.3	229.3	215.8	215.8	204.4	204.4	202.9	175.4	202.6	136.4
8750	77	369.0	216.6	369.3	171.4	368.9	126.8	-	-	-	-	-	-	341.4	201.6	341.1	156.6	340.7	112.9	-	-	-	-	-	-
	72	332.6	260.3	332.4	215.3	332.1	170.5	332.6	125.4	-	-	-	-	305.4	245.6	306.4	200.2	306.3	155.3	305.7	111.1	-	-	-	-
	67	289.7	284.6	287.4	248.4	287.9	204.1	287.6	159.0	288.5	113.9	-	-	275.6	275.6	272.3	242.8	272.7	199.1	272.8	153.6	272.5	109.1	-	-
	62	288.2	288.2	273.3	273.3	265.4	254.4	264.8	212.0	264.9	167.0	264.5	121.4	267.6	267.6	253.0	253.0	243.0	236.7	241.5	196.7	242.0	151.7	241.6	106.7
	57	280.9	280.9	265.9	265.9	251.0	251.0	236.9	236.9	234.2	209.5	234.4	164.4	260.2	260.2	245.6	245.6	231.5	231.5	217.3	217.3	212.3	193.9	212.4	149.2
10000	77	379.2	233.9	379.8	182.5	379.1	132.3	-	-	-	-	-	-	350.4	218.2	350.6	167.6	348.7	117.6	-	-	-	-	-	-
	72	341.8	284.0	342.7	233.2	342.7	181.8	342.4	131.0	-	-	-	-	314.3	267.4	315.1	217.8	315.2	166.3	314.7	116.4	-	-	-	-
	67	302.5	302.5	296.6	271.5	297.4	222.5	297.3	170.8	297.5	119.4	-	-	290.4	290.4	281.6	262.7	281.1	216.5	281.6	164.9	280.8	114.3	-	-
	62	304.5	304.5	288.3	288.3	276.0	273.1	273.6	230.3	274.1	178.7	273.8	127.1	282.3	282.3	266.8	266.8	252.0	252.0	249.3	214.5	250.0	162.9	249.1	111.9
	57	297.5	297.5	280.9	280.9	265.3	265.3	249.5	249.5	242.5	227.9	242.8	176.5	275.0	275.0	259.5	259.5	244.3	244.3	229.3	229.3	220.1	210.3	219.6	161.3
11250	77	387.9	250.4	388.2	193.1	387.8	137.4	-	-	-	-	-	-	357.0	234.6	358.3	177.8	356.8	122.6	-	-	-	-	-	-
	72	349.2	307.0	350.3	250.4	350.9	192.4	349.9	135.9	-	-	-	-	320.6	288.5	321.4	234.8	322.7	176.5	320.9	121.0	-	-	-	-
	67	326.2	326.2	315.9	298.6	314.6	249.1	315.5	191.9	314.8	134.5	-	-	302.7	302.7	289.4	280.5	287.6	233.4	288.7	175.3	287.7	119.3	-	-
	62	318.2	318.2	301.1	301.1	284.9	284.9	280.8	246.9	281.6	189.9	281.4	132.5	294.6	294.6	278.5	278.5	262.6	262.6	255.5	231.4	256.6	173.6	255.3	116.8
	57	310.8	310.8	293.8	293.8	277.5	277.5	260.7	260.7	250.3	241.7	249.3	188.2	287.3	287.3	271.1	271.1	255.2	255.2	239.1	239.1	227.3	223.5	225.5	172.3
12500	77	393.8	266.6	394.9	203.3	394.4	141.9	-	-	-	-	-	-	362.4	250.8	364.0	187.6	362.1	126.7	-	-	-	-	-	-
	72	356.3	324.0	355.9	267.1	357.3	202.6	356.5	140.6	-	-	-	-	327.8	304.2	327.0	249.8	328.1	186.3	326.7	125.3	-	-	-	-
	67	338.0	338.0	323.0	315.0	320.9	265.6	321.6	202.2	320.9	139.1	-	-	313.4	313.4	296.5	295.1	293.0	248.6	294.1	185.4	292.7	123.5	-	-
	62	329.9	329.9	312.1	312.1	294.9	294.9	286.8	263.3	287.3	201.3	287.8	137.4	305.3	305.3	288.3	288.3	271.6	271.6	261.4	244.2	261.5	184.8	260.7	121.3
	57	322.5	322.5	304.8	304.8	287.5	287.5	270.1	270.1	257.2	254.4	255.1	199.6	298.1	298.1	281.0	281.0	264.4	264.4	247.6	247.6	232.8	232.8	230.7	182.7

Table 15: HV25 cooling performance 115°F and 125°F

Air on evap. coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
CFM	WB (°F)	90		85		80		75		70		65		90		85		80		75		70		65	
		TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH	TC MBH	SC MBH
		115 (°F)												125 (°F)											
6250	77	286.9	152.8	287.1	120.7	287.0	88.2	-	-	-	-	-	-	257.1	138.4	256.8	106.2	256.7	74.2	-	-	-	-	-	-
	72	255.0	183.5	254.8	150.8	254.4	118.6	254.6	86.2	-	-	-	-	226.6	168.6	226.5	136.6	226.5	104.3	226.3	72.0	-	-	-	-
	67	224.4	213.0	224.8	181.2	224.4	149.0	224.3	116.5	224.1	83.9	-	-	198.3	196.5	197.9	166.3	197.7	134.4	197.9	101.9	197.7	69.5	-	-
	62	209.1	209.1	197.6	197.6	196.0	178.2	195.9	146.1	195.7	113.6	195.2	81.1	187.2	187.2	175.7	175.7	170.6	163.5	171.1	131.5	170.6	99.0	170.1	66.5
	57	201.6	201.6	189.8	189.8	178.0	178.0	169.7	169.7	169.1	142.9	168.7	110.4	179.8	179.8	168.2	168.2	157.0	157.0	146.0	146.0	145.3	128.0	145.0	95.7
7500	77	301.8	171.5	302.1	133.1	301.5	94.7	-	-	-	-	-	-	269.8	156.5	270.1	118.1	269.3	80.3	-	-	-	-	-	-
	72	268.8	208.6	268.7	169.8	268.6	131.2	268.4	92.7	-	-	-	-	238.1	193.4	238.5	154.9	238.5	116.3	238.2	78.1	-	-	-	-
	67	239.1	238.6	237.2	206.4	237.5	168.3	237.3	129.2	237.2	90.4	-	-	213.3	213.3	209.2	191.2	208.8	153.0	209.1	114.1	208.8	75.7	-	-
	62	229.2	229.2	216.3	216.3	208.3	202.4	208.3	165.6	208.3	126.9	208.2	87.9	205.1	205.1	192.7	192.7	182.0	182.0	181.5	150.4	181.3	111.8	181.3	73.0
	57	222.0	222.0	208.9	208.9	195.8	195.8	183.3	183.3	180.6	162.6	180.3	124.1	197.7	197.7	185.5	185.5	172.8	172.8	160.6	160.6	154.9	147.2	155.0	108.9
8750	77	312.8	189.0	313.2	144.2	312.3	100.4	-	-	-	-	-	-	278.7	174.1	279.5	128.9	278.6	85.6	-	-	-	-	-	-
	72	278.5	232.7	279.0	188.6	279.3	142.8	278.6	98.4	-	-	-	-	246.4	216.7	246.9	172.8	247.8	127.3	247.0	83.4	-	-	-	-
	67	253.8	253.8	246.9	229.7	247.3	186.5	247.4	140.8	247.0	96.3	-	-	227.7	227.7	217.6	211.6	217.3	170.5	217.8	125.3	217.2	81.1	-	-
	62	245.7	245.7	231.4	231.4	218.9	218.9	216.8	184.6	217.5	138.6	217.3	93.8	219.6	219.6	206.4	206.4	193.0	193.0	189.3	167.6	189.1	123.3	189.0	78.3
	57	238.4	238.4	224.1	224.1	210.3	210.3	196.5	196.5	189.2	181.2	189.2	136.7	212.4	212.4	198.9	198.9	185.6	185.6	172.7	172.7	162.7	162.7	162.6	120.7
10000	77	320.3	206.1	321.5	154.9	320.1	105.3	-	-	-	-	-	-	285.1	191.0	286.9	139.1	285.5	90.1	-	-	-	-	-	-
	72	285.6	255.7	287.0	205.7	288.0	153.5	286.8	103.6	-	-	-	-	253.4	236.6	253.6	189.3	254.8	137.5	253.7	88.2	-	-	-	-
	67	267.2	267.2	255.6	247.6	254.4	204.0	255.4	151.9	254.7	101.4	-	-	239.7	239.7	225.5	225.5	223.4	187.8	224.8	135.8	223.5	85.8	-	-
	62	259.0	259.0	244.1	244.1	229.6	229.6	224.1	201.5	224.6	150.1	224.1	98.9	231.6	231.6	217.5	217.5	203.4	203.4	194.8	184.5	195.2	134.4	194.9	83.0
	57	251.6	251.6	236.7	236.7	222.3	222.3	207.4	207.4	196.9	195.0	195.8	148.1	224.3	224.3	210.0	210.0	196.0	196.0	182.2	182.2	169.0	169.0	168.2	131.8
11250	77	326.1	222.7	327.9	164.8	326.9	109.7	-	-	-	-	-	-	290.2	206.7	292.2	148.8	290.8	94.0	-	-	-	-	-	-
	72	293.2	271.6	293.0	222.1	294.1	163.5	292.6	107.9	-	-	-	-	259.6	252.5	258.3	205.4	260.6	147.2	259.3	92.2	-	-	-	-
	67	278.3	278.3	262.8	262.8	260.9	219.4	261.4	162.2	260.7	106.1	-	-	249.6	249.6	234.9	234.9	228.9	203.6	229.5	146.6	228.5	89.8	-	-
	62	270.2	270.2	254.7	254.7	239.5	239.5	230.2	216.3	230.2	161.6	229.7	103.5	241.6	241.5	226.7	226.7	212.4	212.4	200.4	197.7	200.1	145.1	199.7	87.2
	57	262.9	262.9	247.6	247.6	231.9	231.9	216.5	216.5	202.8	202.8	201.3	158.9	234.2	234.2	219.5	219.5	205.0	205.0	190.4	190.4	176.3	176.3	172.9	141.9
12500	77	331.2	238.2	332.9	174.3	331.6	113.5	-	-	-	-	-	-	294.9	221.8	296.6	158.0	295.2	97.5	-	-	-	-	-	-
	72	298.9	287.2	297.2	237.6	299.1	173.1	297.7	112.1	-	-	-	-	267.1	263.2	262.4	220.3	265.3	156.6	262.7	95.7	-	-	-	-
	67	287.9	287.9	272.3	272.3	264.9	236.3	267.3	173.1	265.2	110.0	-	-	258.1	258.1	242.9	242.9	232.9	217.0	234.0	156.6	232.6	93.4	-	-
	62	279.8	279.8	264.1	264.1	247.8	247.8	235.5	228.4	234.9	172.1	234.3	107.5	249.9	249.9	234.7	234.7	219.8	219.8	205.0	205.0	204.1	155.1	203.1	90.6
	57	272.4	272.4	256.7	256.7	240.5	240.5	224.5	224.5	208.9	208.9	205.6	169.6	242.6	242.6	227.4	227.4	212.5	212.5	197.4	197.4	182.6	182.6	176.5	152.7

HV13 heating capacity performance

Table 16: HV13 heating performance

Air on indoor Coil		Total Capacity & kW	Outdoor temperature (°F @ 72% RH)							
CFM	DB (°F)		-5	0	10	20	30	40	50	60
3750	55	MBH	52.1	61.6	71.1	84.5	103.0	123.0	141.5	162.8
		kW	7.9	8.1	8.3	8.6	9.0	9.5	9.9	10.5
	70	MBH	47.1	56.7	66.2	79.6	97.3	116.3	134.0	154.2
		kW	9.0	9.2	9.5	9.8	10.3	10.9	11.4	12.0
	80	MBH	43.0	52.4	61.9	75.5	92.9	111.3	128.6	148.2
		kW	9.8	10.1	10.4	10.8	11.4	12.0	12.5	13.1
4375	55	MBH	52.3	62.1	71.9	85.2	104.4	125.0	144.2	166.5
		kW	7.7	7.9	8.1	8.3	8.7	9.1	9.4	9.9
	70	MBH	47.8	57.7	67.6	80.8	98.8	118.3	136.6	157.7
		kW	8.8	9.0	9.2	9.5	10.0	10.5	10.9	11.4
	80	MBH	43.7	53.4	63.1	76.7	94.5	113.4	131.1	151.6
		kW	9.6	9.9	10.1	10.5	11.0	11.6	11.9	12.5
5000	55	MBH	52.6	62.4	72.2	86.1	105.4	126.5	146.3	169.2
		kW	7.6	7.8	7.9	8.1	8.5	8.8	9.1	9.6
	70	MBH	48.4	58.1	67.9	81.5	99.8	119.8	138.7	160.3
		kW	8.5	8.8	9.0	9.3	9.7	10.2	10.5	11.0
	80	MBH	44.2	54.8	65.5	77.7	95.8	115.0	133.2	154.0
		kW	9.5	9.7	9.9	10.2	10.7	11.2	11.5	12.1
5625	55	MBH	52.9	62.7	72.4	86.7	106.3	127.7	148.0	171.6
		kW	7.4	7.6	7.8	8.0	8.3	8.6	8.9	9.2
	70	MBH	48.5	58.4	68.2	82.1	100.7	120.9	140.1	162.3
		kW	8.5	8.7	8.9	9.1	9.5	9.9	10.2	10.6
	80	MBH	44.6	54.4	64.3	78.5	96.4	116.2	134.8	156.2
		kW	9.4	9.6	9.8	10.0	10.5	10.9	11.2	11.7
6250	55	MBH	53.2	63.0	72.8	87.0	107.0	128.7	149.5	173.4
		kW	7.2	7.4	7.7	7.9	8.1	8.4	8.7	9.0
	70	MBH	48.8	58.8	68.7	82.7	101.4	121.8	141.4	164.0
		kW	8.5	8.6	8.8	9.0	9.4	9.7	10.0	10.4
	80	MBH	44.8	54.7	64.7	78.8	97.2	117.1	135.9	157.8
		kW	9.3	9.5	9.6	9.9	10.3	10.7	11.0	11.4

HV15 heating capacity performance

Table 17: HV15 heating performance

Air on indoor Coil		Total Capacity & kW	Outdoor temperature (°F @ 72% RH)							
CFM	DB (°F)		-5	0	10	20	30	40	50	60
4500	55	MBH	63.7	70.9	85.3	101.4	123.0	147.0	168.1	190.5
		kW	10.3	10.6	11.0	11.5	11.7	12.0	12.6	13.3
	70	MBH	60.1	66.9	80.6	95.7	116.0	138.8	159.0	180.5
		kW	12.0	12.3	12.8	13.3	13.5	13.8	14.4	15.1
	80	MBH	57.8	64.4	77.6	92.1	111.4	133.2	152.8	173.7
		kW	13.4	13.7	14.2	14.7	15.0	15.3	15.9	16.6
5250	55	MBH	64.1	71.5	86.2	102.6	124.9	149.6	171.4	194.4
		kW	10.0	10.2	10.6	11.1	11.2	11.5	12.1	12.6
	70	MBH	60.4	67.4	81.2	96.7	117.7	141.2	162.2	184.4
		kW	11.7	11.9	12.4	12.8	13.0	13.2	13.8	14.4
	80	MBH	58.0	64.7	78.1	92.9	112.9	135.4	155.8	177.5
		kW	13.0	13.2	13.7	14.1	14.3	14.6	15.1	15.8
6000	55	MBH	64.2	71.5	86.2	103.6	126.2	151.6	174.0	197.5
		kW	9.8	10.0	10.4	10.7	10.9	11.1	11.6	12.2
	70	MBH	60.7	67.9	82.2	97.5	119.1	142.9	164.6	187.4
		kW	11.4	11.6	12.0	12.4	12.6	12.8	13.3	13.8
	80	MBH	58.1	64.9	78.4	93.9	114.0	137.2	158.1	180.3
		kW	12.7	12.9	13.3	13.7	13.9	14.1	14.6	15.2
6750	55	MBH	64.5	72.0	87.1	104.3	127.3	152.9	176.0	199.9
		kW	9.6	9.8	10.1	10.5	10.6	10.9	11.3	11.8
	70	MBH	60.9	68.1	82.6	98.2	120.1	144.4	166.5	189.7
		kW	11.2	11.4	11.8	12.1	12.2	12.5	12.9	13.4
	80	MBH	58.2	65.0	78.7	94.1	115.0	138.6	159.9	182.6
		kW	12.4	12.6	13.0	13.4	13.5	13.7	14.2	14.7
7500	55	MBH	64.6	72.2	87.4	105.1	128.1	154.1	177.6	201.8
		kW	9.5	9.6	10.0	10.3	10.4	10.6	11.1	11.5
	70	MBH	60.8	68.0	82.3	98.7	120.8	145.7	168.1	191.6
		kW	11.0	11.2	11.6	11.9	12.0	12.2	12.6	13.1
	80	MBH	58.2	65.1	78.9	94.6	115.8	139.7	161.5	184.5
		kW	12.2	12.4	12.8	13.1	13.2	13.5	13.9	14.3

HV20 heating capacity performance

Table 18: HV20 heating performance

Air on indoor coil		Total Capacity & kW	Outdoor temperature (°F @ 72% RH)							
CFM	DB (°F)		-5	0	10	20	30	40	50	60
6000	55	MBH	72.8	84.9	108.0	133.2	163.3	196.0	229.8	266.6
		kW	11.9	12.5	12.7	13.2	13.9	14.9	15.8	16.7
	70	MBH	64.0	75.9	98.8	123.0	151.7	183.0	214.9	250.2
		kW	14.7	15.4	15.2	15.7	16.3	17.3	18.2	19.3
	80	MBH	58.3	69.7	92.2	116.2	143.3	173.7	204.7	238.8
		kW	17.8	17.5	17.6	17.7	18.2	19.2	20.2	21.3
7000	55	MBH	73.0	84.9	108.7	134.7	165.4	198.9	233.4	271.4
		kW	11.8	12.1	12.3	12.8	13.4	14.2	15.0	15.9
	70	MBH	64.2	76.3	99.3	124.7	153.5	185.5	218.5	254.8
		kW	14.5	14.7	14.7	15.0	15.6	16.5	17.3	18.2
	80	MBH	58.5	70.0	92.4	117.0	145.0	176.1	207.9	243.2
		kW	16.9	17.0	17.1	17.1	17.4	18.3	19.1	20.1
8000	55	MBH	73.4	85.3	109.8	135.4	166.6	200.7	236.4	275.2
		kW	11.7	11.8	12.0	12.4	13.0	13.7	14.4	15.2
	70	MBH	64.4	76.8	99.9	125.5	154.8	187.2	221.2	258.5
		kW	14.3	14.4	14.3	14.7	15.1	15.9	16.6	17.5
	80	MBH	58.7	70.4	92.8	117.7	146.3	177.7	210.5	246.7
		kW	16.9	17.0	17.1	17.2	17.3	17.7	18.4	19.2
9000	55	MBH	73.4	85.7	109.8	136.2	167.7	202.1	238.5	278.2
		kW	11.5	11.6	11.8	12.2	12.7	13.4	14.0	14.8
	70	MBH	65.0	78.0	100.7	126.1	155.8	188.7	223.2	261.3
		kW	14.1	14.1	14.0	14.3	14.8	15.5	16.2	16.9
	80	MBH	58.9	70.5	93.4	118.2	147.1	179.1	212.5	249.3
		kW	16.5	16.6	16.5	16.5	16.5	17.2	17.8	18.6
10000	55	MBH	74.3	86.1	110.2	137.1	168.7	203.2	240.2	280.4
		kW	11.4	11.5	11.6	12.0	12.5	13.1	13.7	14.4
	70	MBH	65.2	78.4	100.6	126.4	156.6	189.8	224.9	263.4
		kW	13.9	13.9	13.8	14.1	14.5	15.2	15.8	16.5
	80	MBH	59.0	70.7	93.8	118.3	148.1	180.2	214.1	251.2
		kW	16.5	16.2	16.3	16.4	16.2	16.8	17.4	18.1

HV25 heating capacity performance

Table 19: HV25 heating performance

Air on indoor Coil		Total Capacity & kW	Outdoor temperature (°F @ 72% RH)							
CFM	DB (°F)		-5	0	10	20	30	40	50	60
7500	55	MBH	106.0	117.9	140.2	166.4	207.7	249.0	287.8	335.6
		kW	14.4	14.7	15.2	15.7	16.9	18.1	18.9	20.2
	70	MBH	98.2	110.0	134.1	157.8	196.6	235.3	272.8	318.5
		kW	17.4	17.6	18.0	18.6	20.2	21.7	22.6	24.0
	80	MBH	93.0	104.7	127.6	152.4	189.4	226.4	263.2	307.3
		kW	19.8	20.2	20.3	20.9	23.1	25.3	25.9	27.5
8750	55	MBH	106.4	123.8	141.2	167.7	210.2	252.7	292.5	341.8
		kW	14.1	14.4	14.7	15.3	16.3	17.2	18.0	19.0
	70	MBH	98.8	116.0	133.2	159.0	198.6	238.3	276.8	323.5
		kW	17.0	17.2	17.5	18.0	19.2	20.5	21.3	22.4
	80	MBH	93.2	105.0	129.6	153.1	191.0	228.8	266.3	311.8
		kW	19.4	19.6	19.7	20.2	22.0	23.8	24.3	25.5
10000	55	MBH	106.8	118.9	142.0	168.6	211.9	255.3	296.2	346.8
		kW	13.8	14.1	14.4	14.9	15.8	16.6	17.3	18.2
	70	MBH	99.1	116.5	133.9	160.0	200.2	240.4	279.9	328.2
		kW	16.7	16.9	17.1	17.6	18.7	19.8	20.4	21.4
	80	MBH	93.5	105.4	128.4	153.9	192.3	230.7	269.1	315.4
		kW	19.0	19.1	19.3	19.7	21.2	22.6	23.1	24.2
11250	55	MBH	107.1	119.2	143.1	169.7	213.5	257.4	299.2	350.8
		kW	13.6	13.8	14.2	14.6	15.4	16.2	16.8	17.7
	70	MBH	100.4	112.4	134.3	160.8	201.5	242.3	282.4	331.7
		kW	16.2	16.3	16.8	17.3	18.2	19.2	19.8	20.7
	80	MBH	93.7	105.6	128.7	154.5	193.4	232.3	271.2	318.6
		kW	18.7	18.8	19.0	19.3	20.6	21.8	22.4	23.3
12500	55	MBH	107.4	125.2	143.0	170.2	214.6	259.0	301.8	354.2
		kW	13.4	13.7	14.0	14.4	15.1	15.8	16.5	17.2
	70	MBH	99.5	111.5	135.5	161.1	202.5	243.8	284.4	334.6
		kW	16.2	16.3	16.6	17.0	17.9	18.8	19.3	20.1
	80	MBH	94.0	111.6	129.3	155.1	194.3	233.6	273.0	321.2
		kW	18.5	18.6	18.7	19.0	20.2	21.3	21.8	22.6

Airflow performance

Table 20: HV13 bottom duct application

Available external static pressure - IWG[1]																				
SCFM	0.2		0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 2 HP and field drive		Standard static 2 HP and drive						Medium static 3 HP and drive						High static 5 HP and drive					
3250	611	0.55	721	0.78	813	1.01	898	1.24	982	1.51	1067	1.63	1152	1.76	1217	2.04	1279	2.25	1339	2.40
3500	617	0.62	726	0.85	818	1.08	902	1.31	986	1.58	1070	1.71	1155	1.85	1219	2.14	1281	2.35	1341	2.50
3750	625	0.69	732	0.92	823	1.15	907	1.38	991	1.65	1074	1.80	1158	1.95	1222	2.24	1284	2.45	1343	2.60
4000	635	0.76	741	1.00	831	1.23	914	1.46	997	1.72	1079	1.89	1161	2.06	1225	2.34	1287	2.56	1346	2.71
4250	647	0.85	751	1.08	840	1.31	923	1.54	1005	1.81	1085	1.99	1165	2.17	1228	2.46	1290	2.67	1349	2.82
4500	662	0.94	764	1.18	851	1.40	933	1.64	1014	1.90	1092	2.10	1169	2.30	1232	2.58	1294	2.79	1353	2.94
4750	678	1.05	778	1.29	864	1.51	945	1.75	1025	2.01	1100	2.22	1174	2.43	1237	2.71	1298	2.93	1357	3.08
5000	697	1.17	795	1.41	879	1.63	958	1.87	1038	2.13	1109	2.35	1180	2.57	1243	2.86	1304	3.07	1362	3.22
5250	717	1.31	813	1.55	895	1.78	973	2.01	1051	2.27	1119	2.50	1186	2.73	1249	3.01	1309	3.22	1368	3.37
5500	739	1.47	832	1.71	913	1.93	989	2.17	1066	2.43	1130	2.66	1193	2.89	1256	3.17	1316	3.39	1374	3.54
5750	761	1.65	852	1.89	931	2.11	1006	2.35	1082	2.61	1142	2.84	1201	3.07	1263	3.35	1323	3.57	1381	3.72
6000	785	1.85	873	2.09	950	2.31	1024	2.55	1098	2.81	1154	3.04	1210	3.26	1272	3.54	1331	3.76	1389	3.91
6250	808	2.07	894	2.31	970	2.53	1042	2.77	1115	3.03	1167	3.25	1220	3.47	1281	3.75	1340	3.96	1397	4.11

Note:

1. Blower performance includes 2 in. filters and does not include electrical heaters. See static resistance table for additional applications. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP. kW = BHP x 0.918
2. Refer to Table 29 for electric heat minimum air flow requirements.

Table 21: HV15 bottom duct application

Available external static pressure - IWG[1]																				
SCFM	0.2		0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 2 HP and field drive		Standard static 2 HP and drive				Medium static 3 HP and drive						High static 5 HP and drive							
3900	549	0.42	648	0.82	738	1.24	818	1.66	890	2.05	952	2.39	1005	2.65	1048	2.91	1081	3.17	1101	3.43
4200	566	0.51	663	0.90	750	1.32	830	1.74	900	2.14	962	2.48	1015	2.74	1057	3.00	1089	3.26	1110	3.52
4500	582	0.62	676	1.02	762	1.44	840	1.86	910	2.25	972	2.59	1024	2.85	1066	3.11	1098	3.37	1118	3.63
4800	598	0.76	690	1.15	774	1.57	851	1.99	920	2.39	981	2.73	1033	2.99	1075	3.25	1106	3.51	1126	3.77
5100	614	0.91	704	1.31	787	1.73	863	2.15	931	2.54	991	2.88	1042	3.14	1084	3.40	1115	3.66	1135	3.92
5400	632	1.09	719	1.48	801	1.90	876	2.32	943	2.72	1002	3.06	1053	3.32	1094	3.58	1125	3.84	1145	4.10
5700	651	1.27	736	1.67	816	2.09	889	2.51	955	2.91	1014	3.24	1064	3.50	1105	3.76	1135	4.02	1155	4.28
6000	671	1.47	754	1.87	832	2.29	904	2.71	969	3.11	1027	3.45	1076	3.70	1117	3.96	1147	4.22	1166	4.48
6300	692	1.69	772	2.08	849	2.50	920	2.92	984	3.32	1041	3.66	1090	3.92	1129	4.18	1159	4.44	1179	4.70
6600	713	1.91	792	2.31	867	2.73	936	3.15	999	3.54	1055	3.88	1104	4.14	1143	4.40	1173	4.66	1192	4.92
6900	736	2.14	812	2.54	885	2.96	953	3.24	1015	3.77	1071	4.11	1118	4.37	1157	4.63	1186	4.89	1205	5.15
7200	758	2.38	832	2.78	904	3.06	971	3.62	1032	4.02	1086	4.36	1133	4.62	1171	4.88	1200	5.14	1219	5.40
7500	780	2.64	853	3.03	922	3.27	988	3.88	1048	4.27	1101	4.61	1148	4.87	1186	5.13	1214	5.39	1233	5.65
																	High static 5 HP and field drive			

Note:

1. Blower performance includes 2 in. filters and does not include electrical heaters. See static resistance table for additional applications. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP. kW = BHP x 0.918
2. Refer to Table 29 for electric heat minimum air flow requirements.

Table 22: HV20 bottom duct application

Available external static pressure - IWG[1]																				
SCFM	0.2		0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 5 HP and field drive						Standard static 5 HP and drive						Medium static 5 HP and drive							
5000	492	0.68	607	1.06	696	1.44	769	1.84	832	2.24	888	2.66	940	3.10	988	3.56	1035	4.05	1080	4.57
5500	522	0.85	631	1.23	717	1.61	788	2.00	850	2.41	905	2.83	955	3.26	1003	3.73	1049	4.21	1094	4.73
6000	557	0.99	661	1.37	743	1.75	812	2.14	872	2.54	926	2.96	975	3.40	1022	3.86	1067	4.35	1111	4.87
6500	594	1.13	692	1.51	771	1.90	838	2.29	896	2.69	949	3.11	997	3.55	1042	4.01	1087	4.50	1130	5.02
7000	630	1.32	723	1.70	799	2.08	864	2.48	920	2.88	971	3.30	1018	3.74	1063	4.20	1107	4.69	1149	5.21
7500	663	1.56	752	1.94	826	2.32	888	2.72	944	3.12	993	3.54	1040	3.98	1083	4.44	1126	4.93	1168	5.45
8000	694	1.86	780	2.24	851	2.63	912	3.02	965	3.42	1014	3.84	1060	4.28	1103	4.74	1144	5.23	1186	5.75
8500	723	2.23	805	2.61	874	2.99	934	3.38	986	3.79	1034	4.21	1078	4.64	1121	5.11	1162	5.59	1203	6.11
9000	749	2.66	829	3.03	896	3.42	954	3.81	1006	4.21	1053	4.63	1096	5.07	1138	5.53	1179	6.02	1219	6.54
9500	774	3.14	852	3.52	917	3.90	974	4.29	1024	4.69	1071	5.11	1114	5.55	1155	6.01	1195	6.50	1234	7.02
10000	798	3.66	874	4.04	938	4.43	993	4.82	1043	5.22	1088	5.64	1131	6.08	1171	6.54	1210	7.03	1250	7.55
											High static 7.5 HP and drive									

Note:

1. Blower performance includes 2 in. filters and does not include electrical heaters. See static resistance table for additional applications. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP. kW = BHP x 0.893
2. Refer to Table 29 for electric heat minimum air flow requirements.

Table 23: HV25 bottom duct application

Available external static pressure - IWG[1]																				
SCFM	0.2		0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 5 HP and field drive						Standard static 5 HP and drive								Medium static 5 HP and drive					
6250	576	1.06	676	1.44	757	1.82	825	2.21	884	2.61	937	3.03	986	3.47	1032	3.93	1077	4.42	1121	4.94
6875	621	1.27	715	1.65	792	2.03	857	2.42	914	2.83	966	3.25	1013	3.69	1058	4.15	1102	4.64	1145	5.15
7500	663	1.56	752	1.94	826	2.32	888	2.72	944	3.12	993	3.54	1040	3.98	1083	4.44	1126	4.93	1168	5.45
8000	694	1.86	780	2.24	851	2.63	912	3.02	965	3.42	1014	3.84	1060	4.28	1103	4.74	1144	5.23	1186	5.75
8500	723	2.23	805	2.61	874	2.99	934	3.38	986	3.79	1034	4.21	1078	4.64	1121	5.11	1162	5.59	1203	6.11
9000	749	2.66	829	3.03	896	3.42	954	3.81	1006	4.21	1053	4.63	1096	5.07	1138	5.53	1179	6.02	1219	6.54
9500	774	3.14	852	3.52	917	3.90	974	4.29	1024	4.69	1071	5.11	1114	5.55	1155	6.01	1195	6.50	1234	7.02
10000	798	3.66	874	4.04	938	4.43	993	4.82	1043	5.22	1088	5.64	1131	6.08	1171	6.54	1210	7.03	1250	7.55
10500	823	4.22	896	4.60	958	4.98	1013	5.38	1062	5.78	1106	6.20	1148	6.64	1188	7.10	1226	7.59	1265	8.11
11000	847	4.80	919	5.18	980	5.56	1033	5.95	1081	6.36	1125	6.78	1166	7.21	1205	7.68	1243	8.16	1282	8.68
11500	874	5.28	943	5.76	1003	6.14	1055	6.53	1102	6.94	1145	7.36	1185	7.79	1224	8.26	1261	8.75	1299	9.26
12000	921	5.95	970	6.33	1028	6.71	1079	7.10	1124	7.51	1167	7.92	1206	8.36	1244	8.83	1281	9.31	1319	9.83
12500	934	6.49	999	6.86	1055	7.25	1105	7.64	1150	8.04	1191	8.46	1230	8.90	1267	9.36	1304	9.85	1340	10.37
											High static 10 HP and drive									

Note:

1. Blower performance includes 2 in. filters and does not include electrical heaters. See static resistance table for additional applications. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP. kW = BHP x 0.893.
2. Refer to Table 29 for electric heat minimum air flow requirements.

RPM selection and static resistance

Table 24: RPM selection

Model	Static	HP	Max BHP	Motor sheave	Blower sheave	6 turns open	5 turns open	4 turns open	3 turns open	2 turns open	1 turn open	Fully closed
12.5 ton	Standard	2	2.3	1VP40	1B5V66	NA	711	766	820	875	929	984
	Medium	3	3.45	1VP40	1B5V54	860	921	983	1044	1106	1167	NA
	High	5	5.75	1VP56	1B5V64	1149	1201	1253	1306	1358	1410	NA
15 ton	Standard	2	2.3	1VL44	1B5V90	NA	596	636	676	716	756	796
	Medium	3	3.45	1VL44	1B5V74	NA	729	778	826	875	923	972
	High	5	5.75	1VM50	1B5V66	964	1015	1065	1116	1166	1217	NA
20 ton	Standard	5	5.75	1VM50	1B5V90	723	761	799	837	875	913	NA
	Medium	5	5.75	1VM50	1B5V74	924	973	1021	1070	1118	1167	NA
	High	7.5	8.63	1VP60	1B5V80	1056	1101	1146	1191	1236	1281	1326
25 ton	Standard	5	5.75	1VM50	1B5V80	801	843	885	927	969	1011	NA
	Medium	7.5	8.63	1VP60	1B5V80	933	973	1013	1053	1092	1132	1172
	High	10	11.5	1VP60	1B5V70	1158	1207	1257	1306	1355	1405	1454

Note:

- For cooling only models, add the cooling only value to the available static resistance in the respective blower performance tables.
- For models with electric heat, add the electric heat value for your heater size to the available static resistance in the respective blower performance tables.
- If the unit contains an economizer, deduct the corresponding value from the available external static pressure shown in the respective blower performance tables
- The pressure drop through the economizer is greater for 100% outdoor air than for 100% return air. If the resistance of the return air duct is less than 0.25 IWG, the unit delivers less CFM during full economizer operation.

Table 25: Additional static resistance

Model	CFM	Economizer	Electric heat kW		
			25	50	75
HV13 HV15	3500	0.01	0.00	0.01	0.02
	4000	0.01	0.00	0.01	0.02
	5000	0.02	0.03	0.03	0.04
	6000	0.07	0.04	0.04	0.05
	7000	0.11	0.05	0.06	0.07
	8000	0.14	0.07	0.08	0.09
HV20 HV25	6000	0.07	0.04	0.04	0.05
	7000	0.11	0.05	0.06	0.07
	8000	0.16	0.07	0.08	0.09
	9000	0.16	0.09	0.10	0.11
	10000	0.19	0.12	0.13	0.14
	11000	0.23	0.18	0.20	0.22
	12000	0.28	0.26	0.29	0.32
	13000	0.34	0.38	0.41	0.45

Drive selection

1. Determine the required airflow.
2. Calculate or measure the amount of external static pressure.
3. With the operating point determined from the previous steps, locate this point on the appropriate supply air blower performance table. Linear interpolation may be necessary.
4. Note the RPM and BHP from the previous step and locate the appropriate motor and/or drive.
5. Review the BHP compared to the motor options available. Select the appropriate motor and/or drive.
6. Review the RPM range for the motor options available. Select the appropriate drive if multiple drives are available for the chosen motor.
7. Determine the turns open to obtain the required operation point.

Example:

1. 4500 CFM
2. 1 iwg
3. Using the supply air blower performance table below, the following data point was located: 1014 RPM and 1.90 BHP.
4. Using the RPM selection table below, Size X and Model Y is found.
5. 1.90 BHP does not exceed the maximum continuous BHP rating of any of the 3 motor options, so all 3 motors are still eligible for selection.
6. 1014 RPM falls within the range of the 3 HP drive.
7. Using the 3 HP motor, 3.5 turns open achieves 1014 RPM.

Table 26: Example supply air blower performance

SCFM	Available external static pressure - IWG [1]																			
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 2 HP and field drive		Standard static 2 HP and drive						Medium static 3 HP and drive						High static 5 HP and drive					
3750	625	0.69	732	0.92	823	1.15	907	1.38	991	1.65	1074	1.80	1158	1.95	1222	2.24	1284	2.45	1343	2.60
4000	635	0.76	741	1.00	831	1.23	914	1.46	997	1.72	1079	1.89	1161	2.06	1225	2.34	1287	2.56	1346	2.71
4250	647	0.85	751	1.08	840	1.31	923	1.54	1005	1.81	1085	1.99	1165	2.17	1228	2.46	1290	2.67	1349	2.82
4500	662	0.94	764	1.18	851	1.40	933	1.64	1014	1.90	1092	2.10	1169	2.30	1232	2.58	1294	2.79	1353	2.94

1 Blower performance includes 2 in. filters and does not include electrical heaters. See static resistance table for additional applications. See the RPM selection table to determine the required motor sheave setting and to determine the maximum continuous BHP. kW = BHP x 0.918

Table 27: Example RPM selection

Model	HP	Max BHP	Motor sheave	Blower sheave	6 turns open	5 turns open	4 turns open	3 turns open	2 turns open	1 turn open	Fully closed
HV13	2	2.3	1VP40	1B5V66	N/A	711	766	820	875	929	984
	3	3.45	1VP40	1B5V54	860	921	983	1044	1106	1167	NA
	5	5.75	1VP56	1B5V64	1149	1201	1253	1306	1358	1410	NA

Airflow specifications

Table 28: Altitude/temperature correction factors

Air temp.	Altitude (ft)										
	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
40	1.060	1.022	0.986	0.950	0.916	0.882	0.849	0.818	0.788	0.758	0.729

Table 28: Altitude/temperature correction factors

Air temp.	Altitude (ft)										
	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
50	1.039	1.002	0.966	0.931	0.898	0.864	0.832	0.802	0.772	0.743	0.715
60	1.019	0.982	0.948	0.913	0.880	0.848	0.816	0.787	0.757	0.729	0.701
70	1.000	0.964	0.930	0.896	0.864	0.832	0.801	0.772	0.743	0.715	0.688
80	0.982	0.947	0.913	0.880	0.848	0.817	0.787	0.758	0.730	0.702	0.676
90	0.964	0.929	0.897	0.864	0.833	0.802	0.772	0.744	0.716	0.689	0.663
100	0.946	0.912	0.880	0.848	0.817	0.787	0.758	0.730	0.703	0.676	0.651

Figure 3: Altitude/temperature correction factors

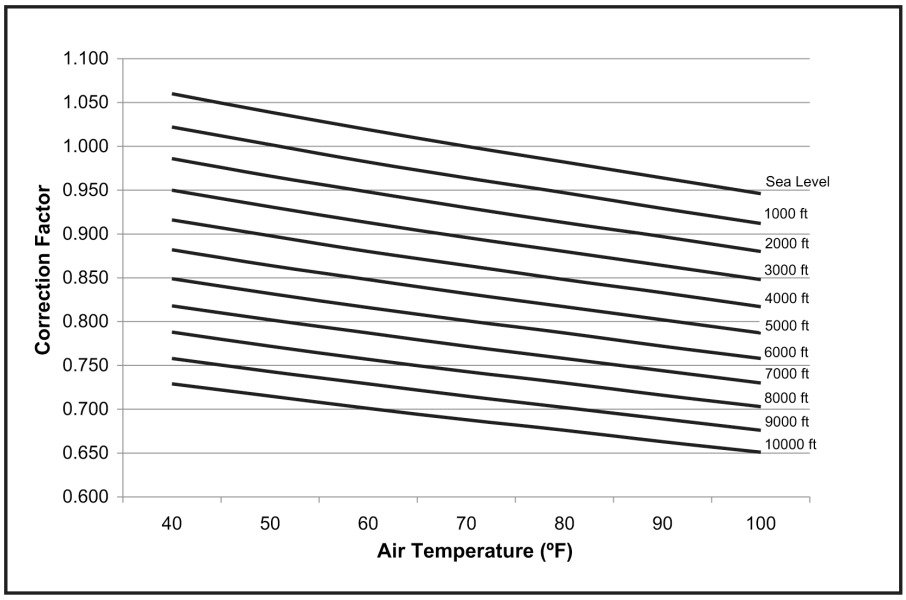


Table 29: Electric heat minimum air flow requirements

Size (tons)	Heat size		
	75 kW	50 kW	25 kW
12.5	-	3750	3750
15	6000	4500	4500
20	6000	6000	6000
25	7500	7500	7500

Table 30: Indoor blower specifications

Model	Motor					Motor sheave			Blower sheave			Belt
	HP	RPM	Eff.	SF	Frame	Datum dia. (in.)	Bore (in.)	Model	Datum dia. (in.)	Bore (in.)	Blower sheave	
HV13	2	1750	0.81	1.15	56	2.4 - 3.4	7/8	1VP40	6.2	1 7/16	1B5V66	AX36
	3	1750	0.83	1.15	56	2.7 - 3.7	7/8	1VP40	5.4	1 7/16	1B5V54	BX34
	5	1750	0.84	1.15	145T	4.3 - 5.3	7/8	1VP56	6.4	1 7/16	1B5V64	BX40
HV15	2	1750	0.81	1.15	56	2.8 - 3.8	7/8	1VL44	8.6	1 7/16	1B5V90	AX41
	3	1750	0.83	1.15	56	2.8 - 3.8	7/8	1VL44	7	1 7/16	1B5V74	AX41
	5	1750	0.84	1.15	145T	3.7 - 4.7	7/8	1VM50	6.6	1 7/16	1B5V66	BX40
HV20	5	1750	0.84	1.15	56	3.7 - 4.7	7/8	1VM50	9.0	1 7/16	1B5V90	BX43
	5	1750	0.84	1.15	145T	3.7 - 4.7	7/8	1VM50	7.4	1 7/16	1B5V74	BX40
	7.5	1750	0.91	1.15	213T	4.3 - 5.5	1 3/8	1VP60	8	1 7/16	1B5V80	BX43
HV25	5	1750	0.84	1.15	145T	3.7 - 4.7	7/8	1VM50	8	1 7/16	1B5V80	BX43
	7.5	1750	0.91	1.15	213T	4.3 - 5.5	1 3/8	1VP60	8	1 7/16	1B5V80	BX43
	10	1750	0.92	1.15	215T	4.7 - 5.9	1 3/8	1VP60	7.1	1 7/16	1B5V70	5VX450

Table 31: Standard CFM constant volume power exhaust (208V) airflow

Motor speed	Available return static - IWG																	
	0.1			0.2			0.3			0.4			0.5			0.6		
	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM
Low	3029	1150	809	2978	1116	878	2913	1093	924	2828	1061	956	2716	1014	982	-	-	-
Med.	3293	1280	868	3196	1224	915	3093	1179	948	2982	1129	980	2852	1075	1009	-	-	-
High	3794	1527	968	3628	1437	1006	3501	1386	1023	3345	1323	1040	3170	1260	1057	-	-	-

Table 32: Standard CFM constant volume power exhaust (230, 460, 575V) airflow

Motor speed	Available return static - IWG																	
	0.1			0.2			0.3			0.4			0.5			0.6		
	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM
Low	3395	1308	886	3297	1265	937	3191	1228	969	3071	1171	990	2931	1105	1010	2765	1076	1039
Med.	3667	1454	940	3518	1368	983	3386	1307	1008	3251	1257	1026	3103	1207	1041	2944	1148	1051
High	4093	1702	1044	3910	1637	1064	3754	1576	1074	3577	1503	1086	3367	1430	1096	3152	1360	1105

Note:

- The following values represent the maximum power exhaust capability (maximum motor speed @ 10 VDC input signal from building pressure sensor [0-1 in. WC, 0-10 VDC])
- Airflow, watts, and RPM modulate as building pressure fluctuates below 1 in. WC

Table 33: Standard CFM modulating power exhaust airflow

Motor speed	Available return static - IWG																	
	0.1			0.2			0.3			0.4			0.5			0.6		
	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM
Max. (10 VDC)	3054	498	740	3152	630	829	3227	751	902	3278	861	962	3302	957	1012	3300	1039	1056

Table 34: Standard CFM modulating power exhaust airflow - continued

Motor speed	Available return static - IWG																	
	0.7			0.8			0.9			1.0			1.1			1.2		
	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM
Max. (10 VDC)	3273	1107	1096	3222	1162	1133	3149	1204	1168	3060	1236	1202	2958	1259	1235	2849	1277	1266

Table 35: High CFM constant volume and modulating power exhaust (208V) airflow - field-installed only

CFM	Available external static pressure - IWG											
	0		0.1		0.2		0.3		0.4		0.5	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2500	-	-	-	-	-	-	494	0.68	532	0.74	527	0.89
2750	-	-	-	-	-	-	511	0.71	549	0.78	543	0.93
3000	-	-	-	-	471	0.76	529	0.80	567	0.86	562	1.01
3250	-	-	-	-	492	0.87	549	0.91	587	0.97	582	1.12
3500	-	-	459	0.95	513	1.00	571	1.03	-	-	-	-
3750	-	-	482	1.08	536	1.14	-	-	-	-	-	-
4000	479	1.09	506	1.22	560	1.27	-	-	-	-	-	-
4250	504	1.22	531	1.35	585	1.40	-	-	-	-	-	-
4500	530	1.34	557	1.47	-	-	-	-	-	-	-	-
4750	556	1.45	583	1.59	-	-	-	-	-	-	-	-
5000	583	1.56	-	-	-	-	-	-	-	-	-	-

Table 36: High CFM constant volume and modulating power exhaust (230, 460, 575V) airflow - field-installed only

CFM	Available external static pressure - IWG											
	0		0.1		0.2		0.3		0.4		0.5	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2500	-	-	-	-	-	-	488	0.84	531	0.86	541	0.70
2750	-	-	-	-	-	-	508	0.93	550	0.94	560	0.78
3000	-	-	-	-	471	0.91	527	1.02	569	1.04	580	0.87
3250	-	-	-	-	491	1.01	547	1.12	589	1.13	-	-
3500	-	-	457	0.99	512	1.11	568	1.22	-	-	-	-
3750	-	-	480	1.09	534	1.22	591	1.32	-	-	-	-
4000	469	1.14	504	1.20	558	1.32	-	-	-	-	-	-
4250	495	1.25	529	1.31	583	1.44	-	-	-	-	-	-
4500	522	1.37	557	1.43	-	-	-	-	-	-	-	-
4750	551	1.49	586	1.55	-	-	-	-	-	-	-	-
5000	582	1.61	-	-	-	-	-	-	-	-	-	-

Table 37: Electric heat multipliers

Voltage		kW Capacity multipliers[1]
Nominal	Applied	
240	208	0.75
	230	0.92
480	460	0.92
600	575	0.92

1 Electric heaters are rated at nominal voltage. Use this table to determine the electric heat capacity for heaters applied at lower voltages.

Sound performance

Table 38: Indoor sound performance

Size (tons)	CFM	Type	Sound power, dB (10^{-12}) watts							
			Octave band centerline frequency (Hz)							
			63	125	250	500	1000	2000	4000	8000
HV13 (12.5)	5000	Ducted discharge	86	82	76	74	72	71	69	62
		Ducted inlet	85	72	66	60	58	52	46	37
HV15 (15)	6000	Ducted discharge	89	83	77	75	73	72	69	61
		Ducted inlet	86	72	70	58	57	53	49	38
HV20 (20)	8000	Ducted discharge	92	83	80	76	75	74	73	66
		Ducted inlet	90	77	72	63	61	55	51	43
HV25 (25)	10000	Ducted discharge	92	87	83	81	82	80	79	72
		Ducted)nlet	92	76	70	67	65	60	56	46

Note:

- Rated in accordance with AHRI 260-2017.
- Ratings include duct end correction E1.
- Ratings include compressor sound.
- *Ratings determined at External Static Pressure of 1.0 iwg

Table 39: Outdoor sound performance

Size (tons)	Sound power, dB (10^{-12}) watts								
	Sound rating dB (A)	Octave band centerline frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
HV13 (12.5)	85	88	86	85	83	80	76	71	65
HV15 (15)	84	89	87	87	80	77	73	68	64
HV20 (20)	83	94	87	84	81	78	74	69	65
HV25 (25)	87	90	86	87	86	82	79	74	66

Note:

- Tested in accordance with AHRI 370-2015.

Electrical data

Constant volume standard static without power exhaust

Table 40: Constant volume standard static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	7.5	9.6	None	-	-	-	62.1	80	65	398	71.7	90	76	407
									2EH04522525	18.8	1	52.2	127.4	150	125	398	137.0	150	136	407
									2EH04525025	37.6	2	104.4	148.1	150	144	398	157.7	175	155	407
	230-3-60	22.4	149	22.4	190	2.1	7.5	8.7	None	-	-	-	62.1	80	65	404	70.8	90	75	413
									2EH04522525	23.0	1	57.7	134.2	150	131	404	142.9	150	141	413
									2EH04525025	45.9	2	115.2	157.2	175	152	404	165.9	175	162	413
	460-3-60	10.6	75	11.5	100	1.1	3.4	4.3	None	-	-	-	30.6	40	32	208	34.9	45	37	212
									2EH04522546	23.0	1	28.9	66.7	70	65	208	71.0	80	70	212
									2EH04525046	45.9	2	57.6	78.1	80	76	208	82.4	90	81	212
	575-3-60	7.7	54	11.5	100	0.9	2.8	3.5	None	-	-	-	26.7	35	27	180	30.2	40	31	184
									2EH04522558	23.0	1	23.1	55.6	60	54	180	59.1	60	58	184
									2EH04525058	45.9	2	46.1	64.7	70	62	180	68.2	70	66	184
15 (15)	208-3-60	25.0	164	25.0	164	2.0	7.5	9.6	None	-	-	-	71.8	90	75	394	81.4	100	86	404
									2EH04502525	18.8	1	52.2	137.0	150	135	394	146.6	150	146	404
									2EH04505025	37.6	2	104.4	157.8	175	154	394	167.4	175	165	404
									2EH04507525	56.3	2	156.3	169.6	200	188	394	179.2	200	199	404
	230-3-60	25.0	164	25.0	164	2.3	7.5	8.7	None	-	-	-	73.0	90	77	403	81.7	100	87	411
									2EH04502525	23.0	1	57.7	145.1	150	143	403	153.8	175	153	411
									2EH04505025	45.9	2	115.2	168.1	175	164	403	176.8	200	174	411
									2EH04507525	68.9	2	173.0	182.4	200	208	403	193.3	200	218	411
	460-3-60	12.2	100	12.2	100	1.3	3.4	4.3	None	-	-	-	36.1	45	38	239	40.4	50	43	243
									2EH04502546	23.0	1	28.9	72.2	80	71	239	76.5	80	76	243
									2EH04505046	45.9	2	57.6	83.6	90	82	239	87.9	90	87	243
									2EH04507546	68.9	2	86.5	90.8	100	103	239	96.1	100	108	243
	575-3-60	9.0	78	9.0	78	1.0	2.8	3.5	None	-	-	-	27.1	35	29	187	30.6	35	33	191
									2EH04502558	23.0	1	23.1	55.9	60	55	187	59.4	60	59	191
									2EH04505058	45.9	2	46.1	65.1	70	63	187	68.6	70	68	191
									2EH04507558	68.9	2	69.2	72.7	80	83	187	77.1	80	87	191
20 (20)	208-3-60	28.2	240	34.0	240	2.0	14.9	9.6	None	-	-	-	93.6	125	98	579	103.2	125	109	589
									2EH04502525	18.8	1	52.2	158.9	175	158	579	168.5	175	169	589
									2EH04505025	37.6	2	104.4	179.6	200	177	579	189.2	200	188	589
									2EH04507525	56.3	2	156.3	191.5	200	197	579	201.1	225	208	589
	230-3-60	28.2	240	34.0	240	2.3	15.0	8.7	None	-	-	-	94.9	125	99	583	103.6	125	109	591
									2EH04502525	23.0	1	57.7	167.0	175	166	583	175.7	200	176	591
									2EH04505025	45.9	2	115.2	190.0	200	187	583	198.7	200	197	591
									2EH04507525	68.9	2	173.0	202.9	225	216	583	211.6	225	226	591
	460-3-60	14.7	130	16.0	140	1.3	7.5	4.3	None	-	-	-	47.4	60	50	326	51.7	60	55	330
									2EH04502546	23.0	1	28.9	83.5	90	83	326	87.8	90	88	330
									2EH04505046	45.9	2	57.6	94.9	100	94	326	99.2	100	99	330
									2EH04507546	68.9	2	86.5	101.4	110	108	326	105.7	110	113	330
	575-3-60	11.3	93.7	12.9	107.6	1.0	5.6	3.5	None	-	-	-	37.0	45	39	246	40.5	50	43	249
									2EH04502558	23.0	1	23.1	65.9	70	65	246	69.4	70	69	249
									2EH04505058	45.9	2	46.1	75.0	80	74	246	78.5	80	78	249
									2EH04507558	68.9	2	69.2	80.2	90	86	246	83.7	90	90	249

Table 40: Constant volume standard static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	14.9	9.6	None	-	-	-	131.5	175	137	591	141.1	175	148	601
									2EH04502525	18.8	1	52.2	196.8	225	197	591	206.4	225	208	601
									2EH04505025	37.6	2	104.4	217.5	225	217	591	227.1	250	228	601
									2EH04507525	56.3	2	156.3	229.4	250	227	591	239.0	250	239	601
	230-3-60	48.1	245	48.1	245	2.1	15.0	8.7	None	-	-	-	131.6	175	138	593	140.3	175	148	602
									2EH04502525	23.0	1	57.7	203.8	225	204	593	212.5	225	214	602
									2EH04505025	45.9	2	115.2	226.8	250	225	593	235.5	250	235	602
									2EH04507525	68.9	2	173.0	239.6	250	237	593	248.3	250	247	602
	460-3-60	18.6	125	18.6	125	1.1	7.5	4.3	None	-	-	-	53.8	70	56	305	58.1	70	61	310
									2EH04502546	23.0	1	28.9	89.9	100	90	305	94.2	100	95	310
									2EH04505046	45.9	2	57.6	101.3	110	100	305	105.6	110	105	310
									2EH04507546	68.9	2	86.5	107.8	110	108	305	112.1	125	113	310
	575-3-60	14.7	100	14.7	100	0.9	5.6	3.5	None	-	-	-	42.3	50	44	243	45.8	60	48	247
									2EH04502558	23.0	1	23.1	71.2	80	71	243	74.7	80	75	247
									2EH04505058	45.9	2	46.1	80.3	90	79	243	83.8	90	83	247
									2EH04507558	68.9	2	69.2	85.4	90	86	243	88.9	90	90	247

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

Constant volume standard static with on/off power exhaust

Table 41: Constant volume standard static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	7.5	5.0	9.6	None	-	-	-	72.1	90	76	419	81.7	100	88	428
										2EH04522525	18.8	1	52.2	137.4	150	137	419	147.0	150	148	428
										2EH04525025	37.6	2	104.4	158.1	175	156	419	167.7	175	167	428
	230-3-60	22.4	149	22.4	190	2.1	7.5	5.0	8.7	None	-	-	-	72.1	90	76	425	80.8	100	86	434
										2EH04522525	23.0	1	57.7	144.2	150	143	425	152.9	175	153	434
										2EH04525025	45.9	2	115.2	167.2	175	164	425	176.8	200	174	434
	460-3-60	10.6	75	11.5	100	1.1	3.4	2.2	4.3	None	-	-	-	35.0	45	37	217	39.3	50	42	222
										2EH04522546	23.0	1	28.9	71.1	80	70	217	75.4	80	75	222
										2EH04525046	45.9	2	57.6	82.5	90	81	217	87.1	90	86	222
	575-3-60	7.7	54	11.5	100	0.9	2.8	1.5	3.5	None	-	-	-	29.7	40	31	186	33.2	40	35	190
										2EH04522558	23.0	1	23.1	58.6	60	57	186	62.1	70	61	190
										2EH04525058	45.9	2	46.1	67.7	70	66	186	71.2	80	70	190
15 (15)	208-3-60	25.0	164	25.0	164	2.0	7.5	5.0	9.6	None	-	-	-	81.8	100	87	415	91.4	110	98	425
										2EH04502525	18.8	1	52.2	147.0	150	147	415	156.6	175	158	425
										2EH04505025	37.6	2	104.4	167.8	175	166	415	177.4	200	177	425
										2EH04507525	56.3	2	156.3	179.6	200	200	415	190.2	200	211	425
	230-3-60	25.0	164	25.0	164	2.3	7.5	5.0	8.7	None	-	-	-	83.0	100	88	424	91.7	110	98	432
										2EH04502525	23.0	1	57.7	155.1	175	155	424	163.8	175	165	432
										2EH04505025	45.9	2	115.2	178.1	200	176	424	186.8	200	186	432
										2EH04507525	68.9	2	173.0	194.9	200	219	424	205.8	225	229	432
	460-3-60	12.2	100	12.2	100	1.3	3.4	2.2	4.3	None	-	-	-	40.5	50	43	248	44.8	50	48	253
										2EH04502546	23.0	1	28.9	76.6	80	76	248	80.9	90	81	253
										2EH04505046	45.9	2	57.6	88.0	90	87	248	92.3	100	92	253
										2EH04507546	68.9	2	86.5	96.3	100	108	248	101.6	110	113	253
	575-3-60	9.0	78	9.0	78	1.0	2.8	1.5	3.5	None	-	-	-	30.1	35	32	194	33.6	40	36	197
										2EH04502558	23.0	1	23.1	58.9	60	59	194	62.4	70	63	197
										2EH04505058	45.9	2	46.1	68.1	70	67	194	71.6	80	71	197
										2EH04507558	68.9	2	69.2	76.5	80	86	194	80.8	90	90	197
20 (20)	208-3-60	28.2	240	34.0	240	2.0	14.9	5.0	9.6	None	-	-	-	103.6	125	109	600	113.2	125	120	610
										2EH04502525	18.8	1	52.2	168.9	175	169	600	178.5	200	180	610
										2EH04505025	37.6	2	104.4	189.6	200	188	600	199.2	200	200	610
										2EH04507525	56.3	2	156.3	201.5	225	208	600	211.1	225	219	610
	230-3-60	28.2	240	34.0	240	2.3	15.0	5.0	8.7	None	-	-	-	104.9	125	111	604	113.6	125	121	612
										2EH04502525	23.0	1	57.7	177.0	200	177	604	185.7	200	187	612
										2EH04505025	45.9	2	115.2	200.0	200	198	604	208.7	225	208	612
										2EH04507525	68.9	2	173.0	212.9	225	228	604	221.6	225	238	612
	460-3-60	14.7	130	16.0	140	1.3	7.5	2.2	4.3	None	-	-	-	51.8	60	55	335	56.1	70	60	339
										2EH04502546	23.0	1	28.9	87.9	90	88	335	92.2	100	93	339
										2EH04505046	45.9	2	57.6	99.3	100	99	335	103.6	110	104	339
										2EH04507546	68.9	2	86.5	105.8	110	113	335	110.1	125	118	339
	575-3-60	11.3	93.7	12.9	107.6	1.0	5.6	1.5	3.5	None	-	-	-	40.0	50	42	252	43.5	50	46	256
										2EH04502558	23.0	1	23.1	68.9	70	69	252	72.4	80	73	256
										2EH04505058	45.9	2	46.1	78.0	80	77	252	81.5	90	81	256
										2EH04507558	68.9	2	69.2	83.2	90	89	252	86.7	90	93	256

Table 41: Constant volume standard static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	14.9	5.0	9.6	None	-	-	-	141.5	175	149	612	151.1	175	160	622
										2EH04502525	18.8	1	52.2	206.8	225	209	612	216.4	250	220	622
										2EH04505025	37.6	2	104.4	227.5	250	228	612	237.1	250	239	622
										2EH04507525	56.3	2	156.3	239.4	250	239	612	249.0	250	250	622
	230-3-60	48.1	245	48.1	245	2.1	15.0	5.0	8.7	None	-	-	-	141.6	175	149	614	150.3	175	159	623
										2EH04502525	23.0	1	57.7	213.8	225	215	614	222.5	250	225	623
										2EH04505025	45.9	2	115.2	236.8	250	237	614	245.5	250	247	623
										2EH04507525	68.9	2	173.0	249.6	250	248	614	258.3	300	258	623
	460-3-60	18.6	125	18.6	125	1.1	7.5	2.2	4.3	None	-	-	-	58.2	70	62	314	62.5	80	66	319
										2EH04502546	23.0	1	28.9	94.3	100	95	314	98.6	110	100	319
										2EH04505046	45.9	2	57.6	105.7	110	105	314	110.0	110	110	319
										2EH04507546	68.9	2	86.5	112.2	125	113	314	116.5	125	118	319
	575-3-60	14.7	100	14.7	100	0.9	5.6	1.5	3.5	None	-	-	-	45.3	60	48	250	48.8	60	52	253
										2EH04502558	23.0	1	23.1	74.2	80	74	250	77.7	80	78	253
										2EH04505058	45.9	2	46.1	83.3	90	83	250	86.8	90	87	253
										2EH04507558	68.9	2	69.2	88.4	90	89	250	91.9	100	93	253

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

Constant volume standard static with mod power exhaust

Table 42: Constant volume standard static with mod power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	7.5	6.7	9.6	None	-	-	-	75.5	90	80	411	85.1	100	91	421
										2EH04522525	18.8	1	52.2	140.8	150	140	411	150.4	175	151	421
										2EH04525025	37.6	2	104.4	161.5	175	160	411	171.1	175	171	421
	230-3-60	22.4	149	22.4	190	2.1	7.5	6.7	8.7	None	-	-	-	75.5	90	80	417	84.2	100	90	426
										2EH04522525	23.0	1	57.7	147.6	150	147	417	156.3	175	157	426
										2EH04525025	45.9	2	115.2	170.6	175	168	417	181.0	200	178	426
	460-3-60	10.6	75	11.5	100	1.1	3.4	3.4	4.3	None	-	-	-	37.4	45	40	215	41.7	50	45	219
										2EH04522546	23.0	1	28.9	73.5	80	73	215	77.8	80	78	219
										2EH04525046	45.9	2	57.6	84.9	90	83	215	90.1	100	88	219
	575-3-60	7.7	54	11.5	100	0.9	2.8	2.7	3.5	None	-	-	-	32.1	40	34	185	35.6	45	38	189
										2EH04522558	23.0	1	23.1	61.0	70	60	185	64.5	70	64	189
										2EH04525058	45.9	2	46.1	70.1	80	69	185	73.6	80	73	189
15 (15)	208-3-60	25.0	164	25.0	164	2.0	7.5	6.7	9.6	None	-	-	-	85.2	110	91	408	94.8	110	102	417
										2EH04502525	18.8	1	52.2	150.4	175	151	408	160.0	175	162	417
										2EH04505025	37.6	2	104.4	171.2	175	170	408	180.8	200	181	417
										2EH04507525	56.3	2	156.3	183.0	200	204	408	194.4	200	215	417
	230-3-60	25.0	164	25.0	164	2.3	7.5	6.7	8.7	None	-	-	-	86.4	110	92	416	95.1	110	102	425
										2EH04502525	23.0	1	57.7	158.5	175	158	416	167.2	175	168	425
										2EH04505025	45.9	2	115.2	181.5	200	180	416	190.2	200	190	425
										2EH04507525	68.9	2	173.0	199.1	225	223	416	210.0	225	233	425
	460-3-60	12.2	100	12.2	100	1.3	3.4	3.4	4.3	None	-	-	-	42.9	50	46	246	47.2	50	51	250
										2EH04502546	23.0	1	28.9	79.0	80	79	246	83.3	90	84	250
										2EH04505046	45.9	2	57.6	90.4	100	89	246	94.7	100	94	250
										2EH04507546	68.9	2	86.5	99.3	110	111	246	104.6	110	116	250
	575-3-60	9.0	78	9.0	78	1.0	2.8	2.7	3.5	None	-	-	-	32.5	40	35	193	36.0	45	39	196
										2EH04502558	23.0	1	23.1	61.3	70	61	193	64.8	70	65	196
										2EH04505058	45.9	2	46.1	70.5	80	70	193	74.0	80	74	196
										2EH04507558	68.9	2	69.2	79.5	90	89	193	83.8	90	93	196
20 (20)	208-3-60	28.2	240	34.0	240	2.0	14.9	6.7	9.6	None	-	-	-	107.0	125	113	592	116.6	150	124	602
										2EH04502525	18.8	1	52.2	172.3	175	173	592	181.9	200	184	602
										2EH04505025	37.6	2	104.4	193.0	200	192	592	202.6	225	203	602
										2EH04507525	56.3	2	156.3	204.9	225	212	592	214.5	225	223	602
	230-3-60	28.2	240	34.0	240	2.3	15.0	6.7	8.7	None	-	-	-	108.3	125	115	596	117.0	150	125	605
										2EH04502525	23.0	1	57.7	180.4	200	181	596	189.1	200	191	605
										2EH04505025	45.9	2	115.2	203.4	225	202	596	212.1	225	212	605
										2EH04507525	68.9	2	173.0	216.3	225	232	596	225.0	225	242	605
	460-3-60	14.7	130	16.0	140	1.3	7.5	3.4	4.3	None	-	-	-	54.2	70	58	332	58.5	70	63	337
										2EH04502546	23.0	1	28.9	90.3	100	91	332	94.6	100	96	337
										2EH04505046	45.9	2	57.6	101.7	110	101	332	106.0	110	106	337
										2EH04507546	68.9	2	86.5	108.2	110	116	332	112.5	125	121	337
	575-3-60	11.3	93.7	12.9	107.6	1.0	5.6	2.7	3.5	None	-	-	-	42.4	50	45	251	45.9	50	49	255
										2EH04502558	23.0	1	23.1	71.3	80	72	251	74.8	80	76	255
										2EH04505058	45.9	2	46.1	80.4	90	80	251	83.9	90	84	255
										2EH04507558	68.9	2	69.2	85.6	90	92	251	89.1	90	96	255

Table 42: Constant volume standard static with mod power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	14.9	6.7	9.6	None	-	-	-	144.9	175	153	605	154.5	200	164	614
										2EH04502525	18.8	1	52.2	210.2	225	213	605	219.8	250	224	614
										2EH04505025	37.6	2	104.4	230.9	250	232	605	240.5	250	243	614
										2EH04507525	56.3	2	156.3	242.8	250	243	605	252.4	300	254	614
	230-3-60	48.1	245	48.1	245	2.1	15.0	6.7	8.7	None	-	-	-	145.0	175	153	606	153.7	200	163	615
										2EH04502525	23.0	1	57.7	217.2	250	219	606	225.9	250	229	615
										2EH04505025	45.9	2	115.2	240.2	250	240	606	248.9	250	250	615
										2EH04507525	68.9	2	173.0	253.0	300	252	606	261.7	300	262	615
	460-3-60	18.6	125	18.6	125	1.1	7.5	3.4	4.3	None	-	-	-	60.6	70	64	312	64.9	80	69	316
										2EH04502546	23.0	1	28.9	96.7	100	98	312	101.0	110	102	316
										2EH04505046	45.9	2	57.6	108.1	110	108	312	112.4	125	113	316
										2EH04507546	68.9	2	86.5	114.6	125	116	312	118.9	125	121	316
	575-3-60	14.7	100	14.7	100	0.9	5.6	2.7	3.5	None	-	-	-	47.7	60	51	249	51.2	60	55	252
										2EH04502558	23.0	1	23.1	76.6	80	77	249	80.1	90	81	252
										2EH04505058	45.9	2	46.1	85.7	90	86	249	89.2	90	90	252
										2EH04507558	68.9	2	69.2	90.8	100	92	249	94.3	100	96	252

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

Constant volume medium static without power exhaust

Table 43: Constant volume medium static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	10.2	9.6	None	-	-	-	64.8	80	68	412	74.4	90	79	422
									2EH04522525	18.8	1	52.2	130.1	150	128	412	139.7	150	139	422
									2EH04525025	37.6	2	104.4	150.8	175	147	412	160.4	175	158	422
	230-3-60	22.4	149	22.4	190	2.1	10.2	8.7	None	-	-	-	64.8	80	68	418	73.5	90	78	427
									2EH04522525	23.0	1	57.7	136.9	150	134	418	145.6	150	144	427
									2EH04525025	45.9	2	115.2	159.9	175	156	418	168.6	175	166	427
	460-3-60	10.6	75	11.5	100	1.1	4.8	4.3	None	-	-	-	32.0	40	33	215	36.3	45	38	219
									2EH04522546	23.0	1	28.9	68.1	70	67	215	72.4	80	72	219
									2EH04525046	45.9	2	57.6	79.5	80	77	215	83.8	90	82	219
	575-3-60	7.7	54	11.5	100	0.9	3.4	3.5	None	-	-	-	27.3	35	28	186	30.8	40	32	189
									2EH04522558	23.0	1	23.1	56.2	60	55	186	59.7	60	59	189
									2EH04525058	45.9	2	46.1	65.3	70	63	186	68.8	70	67	189
15 (15)	208-3-60	25.0	164	25.0	164	2.0	10.2	9.6	None	-	-	-	74.5	90	78	409	84.1	100	89	418
									2EH04502525	18.8	1	52.2	139.7	150	138	409	149.3	150	150	418
									2EH04505025	37.6	2	104.4	160.5	175	158	409	170.1	175	169	418
									2EH04507525	56.3	2	156.3	172.3	200	191	409	181.9	200	203	418
	230-3-60	25.0	164	25.0	164	2.3	10.2	8.7	None	-	-	-	75.7	100	80	417	84.4	100	90	425
									2EH04502525	23.0	1	57.7	147.8	150	146	417	156.5	175	156	425
									2EH04505025	45.9	2	115.2	170.8	175	167	417	179.5	200	177	425
									2EH04507525	68.9	2	173.0	185.8	200	211	417	196.6	225	221	425
	460-3-60	12.2	100	12.2	100	1.3	4.8	4.3	None	-	-	-	37.5	45	40	246	41.8	50	45	250
									2EH04502546	23.0	1	28.9	73.6	80	73	246	77.9	80	78	250
									2EH04505046	45.9	2	57.6	85.0	90	83	246	89.3	90	88	250
									2EH04507546	68.9	2	86.5	92.5	100	105	246	97.9	110	110	250
	575-3-60	9.0	78	9.0	78	1.0	3.4	3.5	None	-	-	-	27.7	35	29	193	31.2	40	33	196
									2EH04502558	23.0	1	23.1	56.5	60	56	193	60.0	60	60	196
									2EH04505058	45.9	2	46.1	65.7	70	64	193	69.2	70	68	196
									2EH04507558	68.9	2	69.2	73.5	80	83	193	77.8	90	88	196
20 (20)	208-3-60	28.2	240	34.0	240	2.0	14.9	9.6	None	-	-	-	93.6	125	98	579	103.2	125	109	589
									2EH04502525	18.8	1	52.2	158.9	175	158	579	168.5	175	169	589
									2EH04505025	37.6	2	104.4	179.6	200	177	579	189.2	200	188	589
									2EH04507525	56.3	2	156.3	191.5	200	197	579	201.1	225	208	589
	230-3-60	28.2	240	34.0	240	2.3	15.0	8.7	None	-	-	-	94.9	125	99	583	103.6	125	109	591
									2EH04502525	23.0	1	57.7	167.0	175	166	583	175.7	200	176	591
									2EH04505025	45.9	2	115.2	190.0	200	187	583	198.7	200	197	591
									2EH04507525	68.9	2	173.0	202.9	225	216	583	211.6	225	226	591
	460-3-60	14.7	130	16.0	140	1.3	7.5	4.3	None	-	-	-	47.4	60	50	326	51.7	60	55	330
									2EH04502546	23.0	1	28.9	83.5	90	83	326	87.8	90	88	330
									2EH04505046	45.9	2	57.6	94.9	100	94	326	99.2	100	99	330
									2EH04507546	68.9	2	86.5	101.4	110	108	326	105.7	110	113	330
	575-3-60	11.3	93.7	12.9	107.6	1.0	5.6	3.5	None	-	-	-	37.0	45	39	246	40.5	50	43	249
									2EH04502558	23.0	1	23.1	65.9	70	65	246	69.4	70	69	249
									2EH04505058	45.9	2	46.1	75.0	80	74	246	78.5	80	78	249
									2EH04507558	68.9	2	69.2	80.2	90	86	246	83.7	90	90	249

Table 43: Constant volume medium static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	19.8	9.6	None	-	-	-	136.4	175	143	630	146.0	175	154	640
									2EH04502525	18.8	1	52.2	201.7	225	203	630	211.3	225	214	640
									2EH04505025	37.6	2	104.4	222.4	250	222	630	232.0	250	233	640
									2EH04507525	56.3	2	156.3	234.3	250	233	630	243.9	250	244	640
	230-3-60	48.1	245	48.1	245	2.1	19.8	8.7	None	-	-	-	136.4	175	143	630	145.1	175	153	639
									2EH04502525	23.0	1	57.7	208.6	225	209	630	217.3	250	219	639
									2EH04505025	45.9	2	115.2	231.6	250	231	630	240.3	250	241	639
									2EH04507525	68.9	2	173.0	244.4	250	242	630	253.1	300	252	639
	460-3-60	18.6	125	18.6	125	1.1	9.9	4.3	None	-	-	-	56.2	70	59	321	60.5	70	64	326
									2EH04502546	23.0	1	28.9	92.3	100	92	321	96.6	100	97	326
									2EH04505046	45.9	2	57.6	103.7	110	103	321	108.0	110	108	326
									2EH04507546	68.9	2	86.5	110.2	125	111	321	114.5	125	116	326
	575-3-60	14.7	100	14.7	100	0.9	7.9	3.5	None	-	-	-	44.6	50	47	259	48.1	60	51	262
									2EH04502558	23.0	1	23.1	73.5	80	74	259	77.0	80	78	262
									2EH04505058	45.9	2	46.1	82.6	90	82	259	86.1	90	86	262
									2EH04507558	68.9	2	69.2	87.7	90	89	259	91.2	100	93	262

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

Constant volume medium static with on/off power exhaust

Table 44: Constant volume medium static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	10.2	5.0	9.6	None	-	-	-	74.8	90	80	433	84.4	100	91	443
										2EH04522525	18.8	1	52.2	140.1	150	140	433	149.7	150	151	443
										2EH04525025	37.6	2	104.4	160.8	175	159	433	170.4	175	170	443
	230-3-60	22.4	149	22.4	190	2.1	10.2	5.0	8.7	None	-	-	-	74.8	90	80	439	83.5	100	90	448
										2EH04522525	23.0	1	57.7	146.9	150	146	439	155.6	175	156	448
										2EH04525025	45.9	2	115.2	169.9	175	167	439	180.1	200	177	448
	460-3-60	10.6	75	11.5	100	1.1	4.8	2.2	4.3	None	-	-	-	36.4	45	39	224	40.7	50	43	229
										2EH04522546	23.0	1	28.9	72.5	80	72	224	76.8	80	77	229
										2EH04525046	45.9	2	57.6	83.9	90	82	224	88.9	90	87	229
	575-3-60	7.7	54	11.5	100	0.9	3.4	1.5	3.5	None	-	-	-	30.3	40	32	192	33.8	45	36	196
										2EH04522558	23.0	1	23.1	59.2	60	58	192	62.7	70	62	196
										2EH04525058	45.9	2	46.1	68.3	70	66	192	71.8	80	70	196
15 (15)	208-3-60	25.0	164	25.0	164	2.0	10.2	5.0	9.6	None	-	-	-	84.5	100	90	430	94.1	110	101	439
										2EH04502525	18.8	1	52.2	149.7	150	150	430	159.3	175	161	439
										2EH04505025	37.6	2	104.4	170.5	175	169	430	180.1	200	180	439
										2EH04507525	56.3	2	156.3	182.3	200	203	430	193.6	200	214	439
	230-3-60	25.0	164	25.0	164	2.3	10.2	5.0	8.7	None	-	-	-	85.7	110	91	438	94.4	110	101	446
										2EH04502525	23.0	1	57.7	157.8	175	158	438	166.5	175	168	446
										2EH04505025	45.9	2	115.2	180.8	200	179	438	189.5	200	189	446
										2EH04507525	68.9	2	173.0	198.3	225	222	438	209.1	225	232	446
	460-3-60	12.2	100	12.2	100	1.3	4.8	2.2	4.3	None	-	-	-	41.9	50	45	255	46.2	50	50	260
										2EH04502546	23.0	1	28.9	78.0	80	78	255	82.3	90	83	260
										2EH04505046	45.9	2	57.6	89.4	90	88	255	93.7	100	93	260
										2EH04507546	68.9	2	86.5	98.0	110	110	255	103.4	110	115	260
	575-3-60	9.0	78	9.0	78	1.0	3.4	1.5	3.5	None	-	-	-	30.7	35	33	199	34.2	40	37	203
										2EH04502558	23.0	1	23.1	59.5	60	59	199	63.0	70	63	203
										2EH04505058	45.9	2	46.1	68.7	70	68	199	72.2	80	72	203
										2EH04507558	68.9	2	69.2	77.2	80	87	199	81.6	90	91	203
20 (20)	208-3-60	28.2	240	34.0	240	2.0	14.9	5.0	9.6	None	-	-	-	103.6	125	109	600	113.2	125	120	610
										2EH04502525	18.8	1	52.2	168.9	175	169	600	178.5	200	180	610
										2EH04505025	37.6	2	104.4	189.6	200	188	600	199.2	200	200	610
										2EH04507525	56.3	2	156.3	201.5	225	208	600	211.1	225	219	610
	230-3-60	28.2	240	34.0	240	2.3	15.0	5.0	8.7	None	-	-	-	104.9	125	111	604	113.6	125	121	612
										2EH04502525	23.0	1	57.7	177.0	200	177	604	185.7	200	187	612
										2EH04505025	45.9	2	115.2	200.0	200	198	604	208.7	225	208	612
										2EH04507525	68.9	2	173.0	212.9	225	228	604	221.6	225	238	612
	460-3-60	14.7	130	16.0	140	1.3	7.5	2.2	4.3	None	-	-	-	51.8	60	55	335	56.1	70	60	339
										2EH04502546	23.0	1	28.9	87.9	90	88	335	92.2	100	93	339
										2EH04505046	45.9	2	57.6	99.3	100	99	335	103.6	110	104	339
										2EH04507546	68.9	2	86.5	105.8	110	113	335	110.1	125	118	339
	575-3-60	11.3	93.7	12.9	107.6	1.0	5.6	1.5	3.5	None	-	-	-	40.0	50	42	252	43.5	50	46	256
										2EH04502558	23.0	1	23.1	68.9	70	69	252	72.4	80	73	256
										2EH04505058	45.9	2	46.1	78.0	80	77	252	81.5	90	81	256
										2EH04507558	68.9	2	69.2	83.2	90	89	252	86.7	90	93	256

Table 44: Constant volume medium static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	19.8	5.0	9.6	None	-	-	-	146.4	175	155	651	156.0	200	166	661
										2EH04502525	18.8	1	52.2	211.7	225	215	651	221.3	250	226	661
										2EH04505025	37.6	2	104.4	232.4	250	234	651	242.0	250	245	661
										2EH04507525	56.3	2	156.3	244.3	250	245	651	253.9	300	256	661
	230-3-60	48.1	245	48.1	245	2.1	19.8	5.0	8.7	None	-	-	-	146.4	175	155	651	155.1	200	165	660
										2EH04502525	23.0	1	57.7	218.6	250	221	651	227.3	250	231	660
										2EH04505025	45.9	2	115.2	241.6	250	242	651	250.3	300	252	660
										2EH04507525	68.9	2	173.0	254.4	300	254	651	263.1	300	264	660
	460-3-60	18.6	125	18.6	125	1.1	9.9	2.2	4.3	None	-	-	-	60.6	70	64	330	64.9	80	69	335
										2EH04502546	23.0	1	28.9	96.7	100	98	330	101.0	110	102	335
										2EH04505046	45.9	2	57.6	108.1	110	108	330	112.4	125	113	335
										2EH04507546	68.9	2	86.5	114.6	125	116	330	118.9	125	121	335
	575-3-60	14.7	100	14.7	100	0.9	7.9	1.5	3.5	None	-	-	-	47.6	60	50	265	51.1	60	55	269
										2EH04502558	23.0	1	23.1	76.5	80	77	265	80.0	80	81	269
										2EH04505058	45.9	2	46.1	85.6	90	85	265	89.1	90	89	269
										2EH04507558	68.9	2	69.2	90.7	100	92	265	94.2	100	96	269

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

Constant volume medium static with mod power exhaust

Table 45: Constant volume medium static with mod power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	10.2	6.7	9.6	None	-	-	-	78.2	100	83	426	87.8	110	95	435
										2EH04522525	18.8	1	52.2	143.5	150	144	426	153.1	175	155	435
										2EH04525025	37.6	2	104.4	164.2	175	163	426	173.8	175	174	435
	230-3-60	22.4	149	22.4	190	2.1	10.2	6.7	8.7	None	-	-	-	78.2	100	83	431	86.9	100	93	440
										2EH04522525	23.0	1	57.7	150.3	175	150	431	159.0	175	160	440
										2EH04525025	45.9	2	115.2	173.5	175	171	431	184.4	200	181	440
	460-3-60	10.6	75	11.5	100	1.1	4.8	3.4	4.3	None	-	-	-	38.8	50	41	222	43.1	50	46	226
										2EH04522546	23.0	1	28.9	74.9	80	75	222	79.2	80	79	226
										2EH04525046	45.9	2	57.6	86.5	90	85	222	91.9	100	90	226
	575-3-60	7.7	54	11.5	100	0.9	3.4	2.7	3.5	None	-	-	-	32.7	40	34	191	36.2	45	38	195
										2EH04522558	23.0	1	23.1	61.6	70	61	191	65.1	70	65	195
										2EH04525058	45.9	2	46.1	70.7	80	69	191	74.2	80	73	195
15 (15)	208-3-60	25.0	164	25.0	164	2.0	10.2	6.7	9.6	None	-	-	-	87.9	110	94	422	97.5	110	105	432
										2EH04502525	18.8	1	52.2	153.1	175	154	422	162.7	175	165	432
										2EH04505025	37.6	2	104.4	173.9	175	173	422	183.5	200	184	432
										2EH04507525	56.3	2	156.3	185.8	200	207	422	197.8	200	218	432
	230-3-60	25.0	164	25.0	164	2.3	10.2	6.7	8.7	None	-	-	-	89.1	110	95	430	97.8	110	105	439
										2EH04502525	23.0	1	57.7	161.2	175	162	430	169.9	175	172	439
										2EH04505025	45.9	2	115.2	184.2	200	183	430	192.9	200	193	439
										2EH04507525	68.9	2	173.0	202.5	225	226	430	213.4	225	236	439
	460-3-60	12.2	100	12.2	100	1.3	4.8	3.4	4.3	None	-	-	-	44.3	50	47	253	48.6	60	52	257
										2EH04502546	23.0	1	28.9	80.4	90	81	253	84.7	90	86	257
										2EH04505046	45.9	2	57.6	91.8	100	91	253	96.1	100	96	257
										2EH04507546	68.9	2	86.5	101.0	110	113	253	106.4	110	118	257
	575-3-60	9.0	78	9.0	78	1.0	3.4	2.7	3.5	None	-	-	-	33.1	40	35	198	36.6	45	39	202
										2EH04502558	23.0	1	23.1	61.9	70	62	198	65.4	70	66	202
										2EH04505058	45.9	2	46.1	71.1	80	70	198	74.6	80	74	202
										2EH04507558	68.9	2	69.2	80.2	90	90	198	84.6	90	94	202
20 (20)	208-3-60	28.2	240	34.0	240	2.0	14.9	6.7	9.6	None	-	-	-	107.0	125	113	592	116.6	150	124	602
										2EH04502525	18.8	1	52.2	172.3	175	173	592	181.9	200	184	602
										2EH04505025	37.6	2	104.4	193.0	200	192	592	202.6	225	203	602
										2EH04507525	56.3	2	156.3	204.9	225	212	592	214.5	225	223	602
	230-3-60	28.2	240	34.0	240	2.3	15.0	6.7	8.7	None	-	-	-	108.3	125	115	596	117.0	150	125	605
										2EH04502525	23.0	1	57.7	180.4	200	181	596	189.1	200	191	605
										2EH04505025	45.9	2	115.2	203.4	225	202	596	212.1	225	212	605
										2EH04507525	68.9	2	173.0	216.3	225	232	596	225.0	225	242	605
	460-3-60	14.7	130	16.0	140	1.3	7.5	3.4	4.3	None	-	-	-	54.2	70	58	332	58.5	70	63	337
										2EH04502546	23.0	1	28.9	90.3	100	91	332	94.6	100	96	337
										2EH04505046	45.9	2	57.6	101.7	110	101	332	106.0	110	106	337
										2EH04507546	68.9	2	86.5	108.2	110	116	332	112.5	125	121	337
	575-3-60	11.3	93.7	12.9	107.6	1.0	5.6	2.7	3.5	None	-	-	-	42.4	50	45	251	45.9	50	49	255
										2EH04502558	23.0	1	23.1	71.3	80	72	251	74.8	80	76	255
										2EH04505058	45.9	2	46.1	80.4	90	80	251	83.9	90	84	255
										2EH04507558	68.9	2	69.2	85.6	90	92	251	89.1	90	96	255

Table 45: Constant volume medium static with mod power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	19.8	6.7	9.6	None	-	-	-	149.8	175	158	643	159.4	200	170	653
										2EH04502525	18.8	1	52.2	215.1	250	219	643	224.7	250	230	653
										2EH04505025	37.6	2	104.4	235.8	250	238	643	245.4	250	249	653
										2EH04507525	56.3	2	156.3	247.7	250	249	643	257.3	300	260	653
	230-3-60	48.1	245	48.1	245	2.1	19.8	6.7	8.7	None	-	-	-	149.8	175	158	643	158.5	200	168	652
										2EH04502525	23.0	1	57.7	222.0	250	225	643	230.7	250	235	652
										2EH04505025	45.9	2	115.2	245.0	250	246	643	253.7	300	256	652
										2EH04507525	68.9	2	173.0	257.8	300	258	643	266.5	300	268	652
	460-3-60	18.6	125	18.6	125	1.1	9.9	3.4	4.3	None	-	-	-	63.0	80	67	328	67.3	80	72	332
										2EH04502546	23.0	1	28.9	99.1	110	100	328	103.4	110	105	332
										2EH04505046	45.9	2	57.6	110.5	125	111	328	114.8	125	116	332
										2EH04507546	68.9	2	86.5	117.0	125	119	328	121.3	125	124	332
	575-3-60	14.7	100	14.7	100	0.9	7.9	2.7	3.5	None	-	-	-	50.0	60	53	264	53.5	60	57	268
										2EH04502558	23.0	1	23.1	78.9	80	80	264	82.4	90	84	268
										2EH04505058	45.9	2	46.1	88.0	90	88	264	91.5	100	92	268
										2EH04507558	68.9	2	69.2	93.1	100	95	264	96.6	100	99	268

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

Constant volume high static without power exhaust

Table 46: Constant volume high static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max fuse/breaker size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max fuse/breaker size w/ 120 V trans (amps)	Min disconnect rating/120 V trans	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	14.9	9.6	None	-	-	-	69.5	90	73	430	79.1	100	85	440
									2EH04522525	18.8	1	52.2	134.8	150	134	430	144.4	150	145	440
									2EH04525025	37.6	2	104.4	155.5	175	153	430	165.1	175	164	440
	230-3-60	22.4	149	22.4	190	2.1	15.0	8.7	None	-	-	-	69.6	90	74	432	78.3	100	84	441
									2EH04522525	23.0	1	57.7	141.7	150	140	432	150.4	175	150	441
									2EH04525025	45.9	2	115.2	164.7	175	161	432	173.6	175	171	441
	460-3-60	10.6	75	11.5	100	1.1	7.5	4.3	None	-	-	-	34.7	45	37	225	39.0	50	42	229
									2EH04522546	23.0	1	28.9	70.8	80	70	225	75.1	80	75	229
									2EH04525046	45.9	2	57.6	82.2	90	80	225	86.8	90	85	229
	575-3-60	7.7	54	11.5	100	0.9	5.6	3.5	None	-	-	-	29.5	40	31	193	33.0	40	35	197
									2EH04522558	23.0	1	23.1	58.4	60	57	193	61.9	70	61	197
									2EH04525058	45.9	2	46.1	67.5	70	66	193	71.0	80	70	197
15 (15)	208-3-60	25.0	164	25.0	164	2.0	14.9	9.6	None	-	-	-	79.2	100	84	427	88.8	110	95	437
									2EH04502525	18.8	1	52.2	144.4	150	144	427	154.0	175	155	437
									2EH04505025	37.6	2	104.4	165.2	175	163	427	174.8	175	174	437
									2EH04507525	56.3	2	156.3	177.0	200	197	427	186.9	200	208	437
	230-3-60	25.0	164	25.0	164	2.3	15.0	8.7	None	-	-	-	80.5	100	85	431	89.2	110	95	439
									2EH04502525	23.0	1	57.7	152.6	175	152	431	161.3	175	162	439
									2EH04505025	45.9	2	115.2	175.6	200	173	431	184.3	200	183	439
									2EH04507525	68.9	2	173.0	191.8	225	216	431	202.6	225	226	439
	460-3-60	12.2	100	12.2	100	1.3	7.5	4.3	None	-	-	-	40.2	50	43	256	44.5	50	48	260
									2EH04502546	23.0	1	28.9	76.3	80	76	256	80.6	90	81	260
									2EH04505046	45.9	2	57.6	87.7	90	86	256	92.0	100	91	260
									2EH04507546	68.9	2	86.5	95.9	110	108	256	101.3	110	113	260
	575-3-60	9.0	78	9.0	78	1.0	5.6	3.5	None	-	-	-	29.9	35	32	200	33.4	40	36	204
									2EH04502558	23.0	1	23.1	58.7	60	58	200	62.2	70	62	204
									2EH04505058	45.9	2	46.1	67.9	70	67	200	71.4	80	71	204
									2EH04507558	68.9	2	69.2	76.2	90	86	200	80.6	90	90	204
20 (20)	208-3-60	28.2	240	34.0	240	2.0	19.8	9.6	None	-	-	-	98.5	125	104	618	108.1	125	115	627
									2EH04502525	18.8	1	52.2	163.8	175	164	618	173.4	175	175	627
									2EH04505025	37.6	2	104.4	184.5	200	183	618	194.1	200	194	627
									2EH04507525	56.3	2	156.3	196.4	200	203	618	206.0	225	214	627
	230-3-60	28.2	240	34.0	240	2.3	19.8	8.7	None	-	-	-	99.7	125	105	620	108.4	125	115	628
									2EH04502525	23.0	1	57.7	171.8	175	171	620	180.5	200	181	628
									2EH04505025	45.9	2	115.2	194.8	200	192	620	203.5	225	202	628
									2EH04507525	68.9	2	173.0	207.7	225	222	620	216.4	225	232	628
	460-3-60	14.7	130	16.0	140	1.3	9.9	4.3	None	-	-	-	49.8	60	53	342	54.1	70	58	346
									2EH04502546	23.0	1	28.9	85.9	90	86	342	90.2	100	91	346
									2EH04505046	45.9	2	57.6	97.3	100	96	342	101.6	110	101	346
									2EH04507546	68.9	2	86.5	103.8	110	111	342	108.1	110	116	346
	575-3-60	11.3	93.7	12.9	107.6	1.0	7.9	3.5	None	-	-	-	39.3	50	42	261	42.8	50	46	265
									2EH04502558	23.0	1	23.1	68.2	70	68	261	71.7	80	72	265
									2EH04505058	45.9	2	46.1	77.3	80	76	261	80.8	90	81	265
									2EH04507558	68.9	2	69.2	82.5	90	89	261	86.0	90	93	265

Table 46: Constant volume high static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max fuse/breaker size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max fuse/breaker size w/ 120 V trans (amps)	Min disconnect rating/120 V trans	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	25.4	9.6	None	-	-	-	142.0	175	150	668	151.6	175	161	678
									2EH04502525	18.8	1	52.2	207.3	225	210	668	216.9	250	221	678
									2EH04505025	37.6	2	104.4	228.0	250	229	668	237.6	250	240	678
									2EH04507525	56.3	2	156.3	239.9	250	240	668	249.5	250	251	678
	230-3-60	48.1	245	48.1	245	2.1	25.4	8.7	None	-	-	-	142.0	175	150	668	150.7	175	160	677
									2EH04502525	23.0	1	57.7	214.2	225	216	668	222.9	250	226	677
									2EH04505025	45.9	2	115.2	237.2	250	237	668	245.9	250	247	677
									2EH04507525	68.9	2	173.0	250.0	250	249	668	258.7	300	259	677
	460-3-60	18.6	125	18.6	125	1.1	12.7	4.3	None	-	-	-	59.0	70	62	340	63.3	80	67	345
									2EH04502546	23.0	1	28.9	95.1	100	96	340	99.4	110	101	345
									2EH04505046	45.9	2	57.6	106.5	110	106	340	110.8	125	111	345
									2EH04507546	68.9	2	86.5	113.0	125	114	340	117.3	125	119	345
	575-3-60	14.7	100	14.7	100	0.9	10.5	3.5	None	-	-	-	47.2	60	50	290	50.7	60	54	293
									2EH04502558	23.0	1	23.1	76.1	80	77	290	79.6	80	81	293
									2EH04505058	45.9	2	46.1	85.2	90	85	290	88.7	90	89	293
									2EH04507558	68.9	2	69.2	90.3	100	92	290	93.8	100	96	293

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

Constant volume high static with on/off power exhaust

Table 47: Constant volume high static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	14.9	5.0	9.6	None	-	-	-	79.5	100	85	451	89.1	110	96	461
										2EH04522525	18.8	1	52.2	144.8	150	145	451	154.4	175	156	461
										2EH04525025	37.6	2	104.4	165.5	175	164	451	175.1	200	175	461
	230-3-60	22.4	149	22.4	190	2.1	15.0	5.0	8.7	None	-	-	-	79.6	100	85	453	88.3	110	95	462
										2EH04522525	23.0	1	57.7	151.7	175	151	453	160.4	175	161	462
										2EH04525025	45.9	2	115.2	175.3	200	173	453	186.1	200	183	462
	460-3-60	10.6	75	11.5	100	1.1	7.5	2.2	4.3	None	-	-	-	39.1	50	42	234	43.4	50	47	238
										2EH04522546	23.0	1	28.9	75.2	80	75	234	79.5	80	80	238
										2EH04525046	45.9	2	57.6	86.9	90	85	234	92.3	100	90	238
	575-3-60	7.7	54	11.5	100	0.9	5.6	1.5	3.5	None	-	-	-	32.5	40	34	200	36.0	45	38	203
										2EH04522558	23.0	1	23.1	61.4	70	61	200	64.9	70	65	203
										2EH04525058	45.9	2	46.1	70.5	80	69	200	74.0	80	73	203
15 (15)	208-3-60	25.0	164	25.0	164	2.0	14.9	5.0	9.6	None	-	-	-	89.2	110	95	448	98.8	110	106	458
										2EH04502525	18.8	1	52.2	154.4	175	155	448	164.0	175	166	458
										2EH04505025	37.6	2	104.4	175.2	200	174	448	184.8	200	185	458
										2EH04507525	56.3	2	156.3	187.4	200	208	448	199.4	200	219	458
	230-3-60	25.0	164	25.0	164	2.3	15.0	5.0	8.7	None	-	-	-	90.5	110	97	452	99.2	110	107	460
										2EH04502525	23.0	1	57.7	162.6	175	163	452	171.3	175	173	460
										2EH04505025	45.9	2	115.2	185.6	200	184	452	194.3	200	194	460
										2EH04507525	68.9	2	173.0	204.3	225	228	452	215.1	225	238	460
	460-3-60	12.2	100	12.2	100	1.3	7.5	2.2	4.3	None	-	-	-	44.6	50	48	265	48.9	60	53	269
										2EH04502546	23.0	1	28.9	80.7	90	81	265	85.0	90	86	269
										2EH04505046	45.9	2	57.6	92.1	100	91	265	96.4	100	96	269
										2EH04507546	68.9	2	86.5	101.4	110	113	265	106.8	110	118	269
	575-3-60	9.0	78	9.0	78	1.0	5.6	1.5	3.5	None	-	-	-	32.9	40	35	207	36.4	45	39	210
										2EH04502558	23.0	1	23.1	61.7	70	62	207	65.2	70	66	210
										2EH04505058	45.9	2	46.1	70.9	80	70	207	74.4	80	74	210
										2EH04507558	68.9	2	69.2	80.0	90	89	207	84.3	90	93	210
20 (20)	208-3-60	28.2	240	34.0	240	2.0	19.8	5.0	9.6	None	-	-	-	108.5	125	115	639	118.1	150	126	648
										2EH04502525	18.8	1	52.2	173.8	175	175	639	183.4	200	186	648
										2EH04505025	37.6	2	104.4	194.5	200	194	639	204.1	225	205	648
										2EH04507525	56.3	2	156.3	206.4	225	214	639	216.0	225	225	648
	230-3-60	28.2	240	34.0	240	2.3	19.8	5.0	8.7	None	-	-	-	109.7	125	116	641	118.4	150	126	649
										2EH04502525	23.0	1	57.7	181.8	200	183	641	190.5	200	193	649
										2EH04505025	45.9	2	115.2	204.8	225	204	641	213.5	225	214	649
										2EH04507525	68.9	2	173.0	217.7	225	233	641	226.4	250	243	649
	460-3-60	14.7	130	16.0	140	1.3	9.9	2.2	4.3	None	-	-	-	54.2	70	58	351	58.5	70	63	355
										2EH04502546	23.0	1	28.9	90.3	100	91	351	94.6	100	96	355
										2EH04505046	45.9	2	57.6	101.7	110	101	351	106.0	110	106	355
										2EH04507546	68.9	2	86.5	108.2	110	116	351	112.5	125	121	355
	575-3-60	11.3	93.7	12.9	107.6	1.0	7.9	1.5	3.5	None	-	-	-	42.3	50	45	268	45.8	50	49	271
										2EH04502558	23.0	1	23.1	71.2	80	72	268	74.7	80	76	271
										2EH04505058	45.9	2	46.1	80.3	90	80	268	83.8	90	84	271
										2EH04507558	68.9	2	69.2	85.5	90	92	268	89.0	90	96	271

Table 47: Constant volume high static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	25.4	5.0	9.6	None	-	-	-	152.0	200	161	689	161.6	200	172	699
										2EH04502525	18.8	1	52.2	217.3	250	221	689	226.9	250	232	699
										2EH04505025	37.6	2	104.4	238.0	250	240	689	247.6	250	251	699
										2EH04507525	56.3	2	156.3	249.9	250	251	689	259.5	300	262	699
	230-3-60	48.1	245	48.1	245	2.1	25.4	5.0	8.7	None	-	-	-	152.0	200	161	689	160.7	200	171	698
										2EH04502525	23.0	1	57.7	224.2	250	227	689	232.9	250	237	698
										2EH04505025	45.9	2	115.2	247.2	250	249	689	255.9	300	259	698
										2EH04507525	68.9	2	173.0	260.0	300	260	689	268.7	300	270	698
	460-3-60	18.6	125	18.6	125	1.1	12.7	2.2	4.3	None	-	-	-	63.4	80	68	349	67.7	80	72	354
										2EH04502546	23.0	1	28.9	99.5	110	101	349	103.8	110	106	354
										2EH04505046	45.9	2	57.6	110.9	125	111	349	115.2	125	116	354
										2EH04507546	68.9	2	86.5	117.4	125	119	349	121.7	125	124	354
	575-3-60	14.7	100	14.7	100	0.9	10.5	1.5	3.5	None	-	-	-	50.2	60	53	296	53.7	60	58	299
										2EH04502558	23.0	1	23.1	79.1	80	80	296	82.6	90	84	299
										2EH04505058	45.9	2	46.1	88.2	90	88	296	91.7	100	92	299
										2EH04507558	68.9	2	69.2	93.3	100	95	296	96.8	100	99	299

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

Constant volume high static with mod power exhaust

Table 48: Constant volume high static with mod power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	14.9	6.7	9.6	None	-	-	-	82.9	100	89	444	92.5	110	100	453
										2EH04522525	18.8	1	52.2	148.2	150	149	444	157.8	175	160	453
										2EH04525025	37.6	2	104.4	168.9	175	168	444	178.5	200	179	453
	230-3-60	22.4	149	22.4	190	2.1	15.0	6.7	8.7	None	-	-	-	83.0	100	89	445	91.7	110	99	454
										2EH04522525	23.0	1	57.7	155.1	175	155	445	163.8	175	165	454
										2EH04525025	45.9	2	115.2	179.5	200	177	445	190.4	200	187	454
	460-3-60	10.6	75	11.5	100	1.1	7.5	3.4	4.3	None	-	-	-	41.5	50	44	231	45.8	50	49	236
										2EH04522546	23.0	1	28.9	77.6	80	78	231	81.9	90	83	236
										2EH04525046	45.9	2	57.6	89.9	90	88	231	95.3	100	93	236
	575-3-60	7.7	54	11.5	100	0.9	5.6	2.7	3.5	None	-	-	-	34.9	45	37	199	38.4	45	41	202
										2EH04522558	23.0	1	23.1	63.8	70	63	199	67.3	70	67	202
										2EH04525058	45.9	2	46.1	72.9	80	72	199	76.4	80	76	202
15 (15)	208-3-60	25.0	164	25.0	164	2.0	14.9	6.7	9.6	None	-	-	-	92.6	110	99	440	102.2	125	110	450
										2EH04502525	18.8	1	52.2	157.8	175	159	440	167.4	175	170	450
										2EH04505025	37.6	2	104.4	178.6	200	178	440	188.2	200	189	450
										2EH04507525	56.3	2	156.3	191.7	200	212	440	203.7	225	223	450
	230-3-60	25.0	164	25.0	164	2.3	15.0	6.7	8.7	None	-	-	-	93.9	110	101	444	102.6	125	111	453
										2EH04502525	23.0	1	57.7	166.0	175	167	444	174.7	175	177	453
										2EH04505025	45.9	2	115.2	189.0	200	188	444	197.7	200	198	453
										2EH04507525	68.9	2	173.0	208.5	225	232	444	219.4	225	242	453
	460-3-60	12.2	100	12.2	100	1.3	7.5	3.4	4.3	None	-	-	-	47.0	50	50	262	51.3	60	55	267
										2EH04502546	23.0	1	28.9	83.1	90	84	262	87.4	90	89	267
										2EH04505046	45.9	2	57.6	94.5	100	94	262	98.8	100	99	267
										2EH04507546	68.9	2	86.5	104.4	110	116	262	109.8	110	121	267
	575-3-60	9.0	78	9.0	78	1.0	5.6	2.7	3.5	None	-	-	-	35.3	40	38	206	38.8	45	42	209
										2EH04502558	23.0	1	23.1	64.1	70	65	206	67.6	70	69	209
										2EH04505058	45.9	2	46.1	73.3	80	73	206	76.8	80	77	209
										2EH04507558	68.9	2	69.2	83.0	90	92	206	87.3	90	96	209
20 (20)	208-3-60	28.2	240	34.0	240	2.0	19.8	6.7	9.6	None	-	-	-	111.9	125	119	631	121.5	150	130	641
										2EH04502525	18.8	1	52.2	177.2	200	179	631	186.8	200	190	641
										2EH04505025	37.6	2	104.4	197.9	200	198	631	207.5	225	209	641
										2EH04507525	56.3	2	156.3	209.8	225	218	631	219.4	225	229	641
	230-3-60	28.2	240	34.0	240	2.3	19.8	6.7	8.7	None	-	-	-	113.1	125	120	633	121.8	150	130	642
										2EH04502525	23.0	1	57.7	185.2	200	187	633	193.9	200	197	642
										2EH04505025	45.9	2	115.2	208.2	225	208	633	216.9	225	218	642
										2EH04507525	68.9	2	173.0	221.1	225	237	633	229.8	250	247	642
	460-3-60	14.7	130	16.0	140	1.3	9.9	3.4	4.3	None	-	-	-	56.6	70	60	348	60.9	70	65	353
										2EH04502546	23.0	1	28.9	92.7	100	94	348	97.0	100	99	353
										2EH04505046	45.9	2	57.6	104.1	110	104	348	108.4	110	109	353
										2EH04507546	68.9	2	86.5	110.6	125	119	348	114.9	125	124	353
	575-3-60	11.3	93.7	12.9	107.6	1.0	7.9	2.7	3.5	None	-	-	-	44.7	50	48	267	48.2	60	52	270
										2EH04502558	23.0	1	23.1	73.6	80	74	267	77.1	80	78	270
										2EH04505058	45.9	2	46.1	82.7	90	83	267	86.2	90	87	270
										2EH04507558	68.9	2	69.2	87.9	90	95	267	91.4	100	99	270

Table 48: Constant volume high static with mod power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	25.4	6.7	9.6	None	-	-	-	155.4	200	165	681	165.0	200	176	691
										2EH04502525	18.8	1	52.2	220.7	250	225	681	230.3	250	236	691
										2EH04505025	37.6	2	104.4	241.4	250	244	681	251.0	300	255	691
										2EH04507525	56.3	2	156.3	253.3	300	255	681	262.9	300	266	691
	230-3-60	48.1	245	48.1	245	2.1	25.4	6.7	8.7	None	-	-	-	155.4	200	165	681	164.1	200	175	690
										2EH04502525	23.0	1	57.7	227.6	250	231	681	236.3	250	241	690
										2EH04505025	45.9	2	115.2	250.6	300	252	681	259.3	300	262	690
										2EH04507525	68.9	2	173.0	263.4	300	264	681	272.1	300	274	690
	460-3-60	18.6	125	18.6	125	1.1	12.7	3.4	4.3	None	-	-	-	65.8	80	70	347	70.1	80	75	351
										2EH04502546	23.0	1	28.9	101.9	110	104	347	106.2	110	108	351
										2EH04505046	45.9	2	57.6	113.3	125	114	347	117.6	125	119	351
										2EH04507546	68.9	2	86.5	119.8	125	122	347	124.1	125	127	351
	575-3-60	14.7	100	14.7	100	0.9	10.5	2.7	3.5	None	-	-	-	52.6	60	56	295	56.1	70	60	298
										2EH04502558	23.0	1	23.1	81.5	90	83	295	85.0	90	87	298
										2EH04505058	45.9	2	46.1	90.6	100	91	295	94.1	100	95	298
										2EH04507558	68.9	2	69.2	95.7	100	98	295	99.2	100	102	298

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

VFD 2 stage standard static without power exhaust

Table 49: VFD 2 stage standard static without power exhaust

Size (Tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (Amps)	Max f/b size (Amps)	Min disconnect rating		MCA w/ 120 V trans (Amps)	Max f/b size w/ 120 V trans (Amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	13.2	9.6	None	-	-	-	67.8	90	72	411	77.4	90	83	420
									2EH04522525	18.8	1	52.2	133.1	150	132	411	142.7	150	143	420
									2EH04525025	37.6	2	104.4	153.8	175	151	411	163.4	175	162	420
	230-3-60	22.4	149	22.4	190	2.1	13.2	8.7	None	-	-	-	67.8	90	72	418	76.5	90	82	427
									2EH04522525	23.0	1	57.7	139.9	150	138	418	148.6	150	148	427
									2EH04525025	45.9	2	115.2	162.9	175	159	418	171.6	175	169	427
	460-3-60	10.6	75	11.5	100	1.1	6.1	4.3	None	-	-	-	33.3	40	35	215	37.6	45	40	219
									2EH04522546	23.0	1	28.9	69.4	70	68	215	73.7	80	73	219
									2EH04525046	45.9	2	57.6	80.8	90	79	215	85.1	90	84	219
	575-3-60	7.7	54	11.5	100	0.9	4.9	3.5	None	-	-	-	28.8	40	30	184	32.3	40	34	188
									2EH04522558	23.0	1	23.1	57.7	60	56	184	61.2	70	60	188
									2EH04525058	45.9	2	46.1	66.8	70	65	184	70.3	80	69	188
15 (15)	208-3-60	25.0	164	25.0	164	2.0	13.2	9.6	None	-	-	-	77.5	100	82	407	87.1	110	93	417
									2EH04502525	18.8	1	52.2	142.7	150	142	407	152.3	175	153	417
									2EH04505025	37.6	2	104.4	163.5	175	161	407	173.1	175	172	417
									2EH04507525	56.3	2	156.3	175.3	200	195	407	184.9	200	206	417
	230-3-60	25.0	164	25.0	164	2.3	13.2	8.7	None	-	-	-	78.7	100	83	417	87.4	110	93	425
									2EH04502525	23.0	1	57.7	150.8	175	150	417	159.5	175	160	425
									2EH04505025	45.9	2	115.2	173.8	175	171	417	182.5	200	181	425
									2EH04507525	68.9	2	173.0	189.5	225	214	417	200.4	225	224	425
	460-3-60	12.2	100	12.2	100	1.3	6.1	4.3	None	-	-	-	38.8	50	41	246	43.1	50	46	250
									2EH04502546	23.0	1	28.9	74.9	80	74	246	79.2	80	79	250
									2EH04505046	45.9	2	57.6	86.3	90	85	246	90.6	100	90	250
									2EH04507546	68.9	2	86.5	94.1	110	106	246	99.5	110	111	250
	575-3-60	9.0	78	9.0	78	1.0	4.9	3.5	None	-	-	-	29.2	35	31	191	32.7	40	35	195
									2EH04502558	23.0	1	23.1	58.0	60	58	191	61.5	70	62	195
									2EH04505058	45.9	2	46.1	67.2	70	66	191	70.7	80	70	195
									2EH04507558	68.9	2	69.2	75.3	90	85	191	79.7	90	89	195
20 (20)	208-3-60	28.2	240	34.0	240	2.0	20.4	9.6	None	-	-	-	99.1	125	104	600	108.7	125	115	610
									2EH04502525	18.8	1	52.2	164.4	175	164	600	174.0	175	175	610
									2EH04505025	37.6	2	104.4	185.1	200	183	600	194.7	200	194	610
									2EH04507525	56.3	2	156.3	197.0	200	203	600	206.6	225	214	610
	230-3-60	28.2	240	34.0	240	2.3	20.4	8.7	None	-	-	-	100.3	125	106	602	109.0	125	116	610
									2EH04502525	23.0	1	57.7	172.4	175	172	602	181.1	200	182	610
									2EH04505025	45.9	2	115.2	195.4	200	193	602	204.1	225	203	610
									2EH04507525	68.9	2	173.0	208.3	225	222	602	217.0	225	232	610
	460-3-60	14.7	130	16.0	140	1.3	9.9	4.3	None	-	-	-	49.8	60	53	333	54.1	70	58	337
									2EH04502546	23.0	1	28.9	85.9	90	86	333	90.2	100	91	337
									2EH04505046	45.9	2	57.6	97.3	100	96	333	101.6	110	101	337
									2EH04507546	68.9	2	86.5	103.8	110	111	333	108.1	110	116	337
	575-3-60	11.3	93.7	12.9	107.6	1.0	7.7	3.5	None	-	-	-	39.1	50	41	251	42.6	50	45	254
									2EH04502558	23.0	1	23.1	68.0	70	68	251	71.5	80	72	254
									2EH04505058	45.9	2	46.1	77.1	80	76	251	80.6	90	80	254
									2EH04507558	68.9	2	69.2	82.3	90	88	251	85.8	90	92	254

Table 49: VFD 2 stage standard static without power exhaust

Size (Tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (Amps)	Max f/b size (Amps)	Min disconnect rating		MCA w/ 120 V trans (Amps)	Max f/b size w/ 120 V trans (Amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	20.4	9.6	None	-	-	-	137.0	175	144	613	146.6	175	155	622
									2EH04502525	18.8	1	52.2	202.3	225	204	613	211.9	225	215	622
									2EH04505025	37.6	2	104.4	223.0	250	223	613	232.6	250	234	622
									2EH04507525	56.3	2	156.3	234.9	250	234	613	244.5	250	245	622
	230-3-60	48.1	245	48.1	245	2.1	20.4	8.7	None	-	-	-	137.0	175	144	612	145.7	175	154	621
									2EH04502525	23.0	1	57.7	209.2	225	210	612	217.9	250	220	621
									2EH04505025	45.9	2	115.2	232.2	250	231	612	240.9	250	241	621
									2EH04507525	68.9	2	173.0	245.0	250	243	612	253.7	300	253	621
	460-3-60	18.6	125	18.6	125	1.1	9.9	4.3	None	-	-	-	56.2	70	59	312	60.5	70	64	317
									2EH04502546	23.0	1	28.9	92.3	100	92	312	96.6	100	97	317
									2EH04505046	45.9	2	57.6	103.7	110	103	312	108.0	110	108	317
									2EH04507546	68.9	2	86.5	110.2	125	111	312	114.5	125	116	317
	575-3-60	14.7	100	14.7	100	0.9	7.7	3.5	None	-	-	-	44.4	50	47	248	47.9	60	51	252
									2EH04502558	23.0	1	23.1	73.3	80	73	248	76.8	80	77	252
									2EH04505058	45.9	2	46.1	82.4	90	82	248	85.9	90	86	252
									2EH04507558	68.9	2	69.2	87.5	90	88	248	91.0	100	92	252

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

VFD 2 stage standard static with on/off power exhaust

Table 50: VFD 2 stage standard static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	13.2	5.0	9.6	None	-	-	-	77.8	100	83	432	87.4	100	94	441
										2EH04522525	18.8	1	52.2	143.1	150	143	432	152.7	175	154	441
										2EH04525025	37.6	2	104.4	163.8	175	162	432	173.4	175	173	441
	230-3-60	22.4	149	22.4	190	2.1	13.2	5.0	8.7	None	-	-	-	77.8	100	83	439	86.5	100	93	448
										2EH04522525	23.0	1	57.7	149.9	150	149	439	158.6	175	159	448
										2EH04525025	45.9	2	115.2	173.0	175	171	439	183.9	200	181	448
	460-3-60	10.6	75	11.5	100	1.1	6.1	2.2	4.3	None	-	-	-	37.7	45	40	224	42.0	50	45	229
										2EH04522546	23.0	1	28.9	73.8	80	73	224	78.1	80	78	229
										2EH04525046	45.9	2	57.6	85.2	90	84	224	90.5	100	89	229
	575-3-60	7.7	54	11.5	100	0.9	4.9	1.5	3.5	None	-	-	-	31.8	40	33	191	35.3	45	37	194
										2EH04522558	23.0	1	23.1	60.7	70	60	191	64.2	70	64	194
										2EH04525058	45.9	2	46.1	69.8	70	68	191	73.3	80	72	194
15 (15)	208-3-60	25.0	164	25.0	164	2.0	13.2	5.0	9.6	None	-	-	-	87.5	110	93	428	97.1	110	104	438
										2EH04502525	18.8	1	52.2	152.7	175	153	428	162.3	175	164	438
										2EH04505025	37.6	2	104.4	173.5	175	173	428	183.1	200	184	438
										2EH04507525	56.3	2	156.3	185.3	200	206	428	197.3	200	217	438
	230-3-60	25.0	164	25.0	164	2.3	13.2	5.0	8.7	None	-	-	-	88.7	110	95	438	97.4	110	105	446
										2EH04502525	23.0	1	57.7	160.8	175	161	438	169.5	175	171	446
										2EH04505025	45.9	2	115.2	183.8	200	182	438	192.5	200	192	446
										2EH04507525	68.9	2	173.0	202.0	225	226	438	212.9	225	236	446
	460-3-60	12.2	100	12.2	100	1.3	6.1	2.2	4.3	None	-	-	-	43.2	50	46	255	47.5	50	51	260
										2EH04502546	23.0	1	28.9	79.3	80	79	255	83.6	90	84	260
										2EH04505046	45.9	2	57.6	90.7	100	90	255	95.0	100	95	260
										2EH04507546	68.9	2	86.5	99.6	110	112	255	105.0	110	116	260
	575-3-60	9.0	78	9.0	78	1.0	4.9	1.5	3.5	None	-	-	-	32.2	40	34	198	35.7	40	38	201
										2EH04502558	23.0	1	23.1	61.0	70	61	198	64.5	70	65	201
										2EH04505058	45.9	2	46.1	70.2	80	69	198	73.7	80	73	201
										2EH04507558	68.9	2	69.2	79.1	90	89	198	83.5	90	93	201
20 (20)	208-3-60	28.2	240	34.0	240	2.0	20.4	5.0	9.6	None	-	-	-	109.1	125	116	621	118.7	150	127	631
										2EH04502525	18.8	1	52.2	174.4	175	176	621	184.0	200	187	631
										2EH04505025	37.6	2	104.4	195.1	200	195	621	204.7	225	206	631
										2EH04507525	56.3	2	156.3	207.0	225	215	621	216.6	225	226	631
	230-3-60	28.2	240	34.0	240	2.3	20.4	5.0	8.7	None	-	-	-	110.3	125	117	623	119.0	150	127	631
										2EH04502525	23.0	1	57.7	182.4	200	183	623	191.1	200	193	631
										2EH04505025	45.9	2	115.2	205.4	225	205	623	214.1	225	215	631
										2EH04507525	68.9	2	173.0	218.3	225	234	623	227.0	250	244	631
	460-3-60	14.7	130	16.0	140	1.3	9.9	2.2	4.3	None	-	-	-	54.2	70	58	342	58.5	70	63	346
										2EH04502546	23.0	1	28.9	90.3	100	91	342	94.6	100	96	346
										2EH04505046	45.9	2	57.6	101.7	110	101	342	106.0	110	106	346
										2EH04507546	68.9	2	86.5	108.2	110	116	342	112.5	125	121	346
	575-3-60	11.3	93.7	12.9	107.6	1.0	7.7	1.5	3.5	None	-	-	-	42.1	50	45	257	45.6	50	49	260
										2EH04502558	23.0	1	23.1	71.0	80	71	257	74.5	80	75	260
										2EH04505058	45.9	2	46.1	80.1	90	80	257	83.6	90	84	260
										2EH04507558	68.9	2	69.2	85.3	90	92	257	88.8	90	96	260

Table 50: VFD 2 stage standard static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	20.4	5.0	9.6	None	-	-	-	147.0	175	155	634	156.6	200	166	643
										2EH04502525	18.8	1	52.2	212.3	225	215	634	221.9	250	226	643
										2EH04505025	37.6	2	104.4	233.0	250	234	634	242.6	250	245	643
										2EH04507525	56.3	2	156.3	244.9	250	245	634	254.5	300	256	643
	230-3-60	48.1	245	48.1	245	2.1	20.4	5.0	8.7	None	-	-	-	147.0	175	155	633	155.7	200	165	642
										2EH04502525	23.0	1	57.7	219.2	250	222	633	227.9	250	232	642
										2EH04505025	45.9	2	115.2	242.2	250	243	633	250.9	300	253	642
										2EH04507525	68.9	2	173.0	255.0	300	255	633	263.7	300	265	642
	460-3-60	18.6	125	18.6	125	1.1	9.9	2.2	4.3	None	-	-	-	60.6	70	64	321	64.9	80	69	326
										2EH04502546	23.0	1	28.9	96.7	100	98	321	101.0	110	102	326
										2EH04505046	45.9	2	57.6	108.1	110	108	321	112.4	125	113	326
										2EH04507546	68.9	2	86.5	114.6	125	116	321	118.9	125	121	326
	575-3-60	14.7	100	14.7	100	0.9	7.7	1.5	3.5	None	-	-	-	47.4	60	50	254	50.9	60	54	258
										2EH04502558	23.0	1	23.1	76.3	80	77	254	79.8	80	81	258
										2EH04505058	45.9	2	46.1	85.4	90	85	254	88.9	90	89	258
										2EH04507558	68.9	2	69.2	90.5	100	92	254	94.0	100	96	258

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

VFD 2 stage standard static with mod power exhaust

Table 51: VFD 2 stage standard static with mod power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	13.2	6.7	9.6	None	-	-	-	81.2	100	87	424	90.8	110	98	434
										2EH04522525	18.8	1	52.2	146.5	150	147	424	156.1	175	158	434
										2EH04525025	37.6	2	104.4	167.2	175	166	424	176.8	200	177	434
	230-3-60	22.4	149	22.4	190	2.1	13.2	6.7	8.7	None	-	-	-	81.2	100	87	431	89.9	110	97	440
										2EH04522525	23.0	1	57.7	153.3	175	153	431	162.0	175	163	440
										2EH04525025	45.9	2	115.2	177.3	200	174	431	188.1	200	184	440
	460-3-60	10.6	75	11.5	100	1.1	6.1	3.4	4.3	None	-	-	-	40.1	50	43	222	44.4	50	48	226
										2EH04522546	23.0	1	28.9	76.2	80	76	222	80.5	90	81	226
										2EH04525046	45.9	2	57.6	88.1	90	86	222	93.5	100	91	226
	575-3-60	7.7	54	11.5	100	0.9	4.9	2.7	3.5	None	-	-	-	34.2	45	36	190	37.7	45	40	193
										2EH04522558	23.0	1	23.1	63.1	70	63	190	66.6	70	67	193
										2EH04525058	45.9	2	46.1	72.2	80	71	190	75.7	80	75	193
15 (15)	208-3-60	25.0	164	25.0	164	2.0	13.2	6.7	9.6	None	-	-	-	90.9	110	97	421	100.5	125	108	430
										2EH04502525	18.8	1	52.2	156.1	175	157	421	165.7	175	168	430
										2EH04505025	37.6	2	104.4	176.9	200	176	421	186.5	200	187	430
										2EH04507525	56.3	2	156.3	189.6	200	210	421	201.6	225	221	430
	230-3-60	25.0	164	25.0	164	2.3	13.2	6.7	8.7	None	-	-	-	92.1	110	99	430	100.8	125	109	439
										2EH04502525	23.0	1	57.7	164.2	175	165	430	172.9	175	175	439
										2EH04505025	45.9	2	115.2	187.2	200	186	430	195.9	200	196	439
										2EH04507525	68.9	2	173.0	206.3	225	230	430	217.1	225	240	439
	460-3-60	12.2	100	12.2	100	1.3	6.1	3.4	4.3	None	-	-	-	45.6	50	49	253	49.9	60	54	257
										2EH04502546	23.0	1	28.9	81.7	90	82	253	86.0	90	87	257
										2EH04505046	45.9	2	57.6	93.1	100	93	253	97.4	100	98	257
										2EH04507546	68.9	2	86.5	102.6	110	114	253	108.0	110	119	257
	575-3-60	9.0	78	9.0	78	1.0	4.9	2.7	3.5	None	-	-	-	34.6	40	37	197	38.1	45	41	200
										2EH04502558	23.0	1	23.1	63.4	70	64	197	66.9	70	68	200
										2EH04505058	45.9	2	46.1	72.6	80	72	197	76.1	80	76	200
										2EH04507558	68.9	2	69.2	82.1	90	91	197	86.5	90	95	200
20 (20)	208-3-60	28.2	240	34.0	240	2.0	20.4	6.7	9.6	None	-	-	-	112.5	125	120	614	122.1	150	131	623
										2EH04502525	18.8	1	52.2	177.8	200	180	614	187.4	200	191	623
										2EH04505025	37.6	2	104.4	198.5	200	199	614	208.1	225	210	623
										2EH04507525	56.3	2	156.3	210.4	225	219	614	220.0	225	230	623
	230-3-60	28.2	240	34.0	240	2.3	20.4	6.7	8.7	None	-	-	-	113.7	125	121	615	122.4	150	131	624
										2EH04502525	23.0	1	57.7	185.8	200	187	615	194.5	200	197	624
										2EH04505025	45.9	2	115.2	208.8	225	208	615	217.5	225	219	624
										2EH04507525	68.9	2	173.0	221.7	225	238	615	230.4	250	248	624
	460-3-60	14.7	130	16.0	140	1.3	9.9	3.4	4.3	None	-	-	-	56.6	70	60	339	60.9	70	65	344
										2EH04502546	23.0	1	28.9	92.7	100	94	339	97.0	100	99	344
										2EH04505046	45.9	2	57.6	104.1	110	104	339	108.4	110	109	344
										2EH04507546	68.9	2	86.5	110.6	125	119	339	114.9	125	124	344
	575-3-60	11.3	93.7	12.9	107.6	1.0	7.7	2.7	3.5	None	-	-	-	44.5	50	47	256	48.0	60	52	259
										2EH04502558	23.0	1	23.1	73.4	80	74	256	76.9	80	78	259
										2EH04505058	45.9	2	46.1	82.5	90	82	256	86.0	90	86	259
										2EH04507558	68.9	2	69.2	87.7	90	95	256	91.2	100	99	259

Table 51: VFD 2 stage standard static with mod power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	20.4	6.7	9.6	None	-	-	-	150.4	175	159	626	160.0	200	170	636
										2EH04502525	18.8	1	52.2	215.7	250	219	626	225.3	250	230	636
										2EH04505025	37.6	2	104.4	236.4	250	238	626	246.0	250	249	636
										2EH04507525	56.3	2	156.3	248.3	250	249	626	257.9	300	260	636
	230-3-60	48.1	245	48.1	245	2.1	20.4	6.7	8.7	None	-	-	-	150.4	175	159	625	159.1	200	169	634
										2EH04502525	23.0	1	57.7	222.6	250	226	625	231.3	250	236	634
										2EH04505025	45.9	2	115.2	245.6	250	247	625	254.3	300	257	634
										2EH04507525	68.9	2	173.0	258.4	300	259	625	267.1	300	269	634
	460-3-60	18.6	125	18.6	125	1.1	9.9	3.4	4.3	None	-	-	-	63.0	80	67	319	67.3	80	72	323
										2EH04502546	23.0	1	28.9	99.1	110	100	319	103.4	110	105	323
										2EH04505046	45.9	2	57.6	110.5	125	111	319	114.8	125	116	323
										2EH04507546	68.9	2	86.5	117.0	125	119	319	121.3	125	124	323
	575-3-60	14.7	100	14.7	100	0.9	7.7	2.7	3.5	None	-	-	-	49.8	60	53	253	53.3	60	57	257
										2EH04502558	23.0	1	23.1	78.7	80	80	253	82.2	90	84	257
										2EH04505058	45.9	2	46.1	87.8	90	88	253	91.3	100	92	257
										2EH04507558	68.9	2	69.2	92.9	100	95	253	96.4	100	99	257

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

VFD 2 stage medium static without power exhaust

Table 52: VFD 2 stage medium static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	13.2	9.6	None	-	-	-	67.8	90	72	422	77.4	90	83	431
									2EH04522525	18.8	1	52.2	133.1	150	132	422	142.7	150	143	431
									2EH04525025	37.6	2	104.4	153.8	175	151	422	163.4	175	162	431
	230-3-60	22.4	149	22.4	190	2.1	13.2	8.7	None	-	-	-	67.8	90	72	430	76.5	90	82	438
									2EH04522525	23.0	1	57.7	139.9	150	138	430	148.6	150	148	438
									2EH04525025	45.9	2	115.2	162.9	175	159	430	171.6	175	169	438
	460-3-60	10.6	75	11.5	100	1.1	6.1	4.3	None	-	-	-	33.3	40	35	221	37.6	45	40	225
									2EH04522546	23.0	1	28.9	69.4	70	68	221	73.7	80	73	225
									2EH04525046	45.9	2	57.6	80.8	90	79	221	85.1	90	84	225
	575-3-60	7.7	54	11.5	100	0.9	4.9	3.5	None	-	-	-	28.8	40	30	198	32.3	40	34	202
									2EH04522558	23.0	1	23.1	57.7	60	56	198	61.2	70	60	202
									2EH04525058	45.9	2	46.1	66.8	70	65	198	70.3	80	69	202
15 (15)	208-3-60	25.0	164	25.0	164	2.0	13.2	9.6	None	-	-	-	77.5	100	82	418	87.1	110	93	428
									2EH04502525	18.8	1	52.2	142.7	150	142	418	152.3	175	153	428
									2EH04505025	37.6	2	104.4	163.5	175	161	418	173.1	175	172	428
									2EH04507525	56.3	2	156.3	175.3	200	195	418	184.9	200	206	428
	230-3-60	25.0	164	25.0	164	2.3	13.2	8.7	None	-	-	-	78.7	100	83	428	87.4	110	93	437
									2EH04502525	23.0	1	57.7	150.8	175	150	428	159.5	175	160	437
									2EH04505025	45.9	2	115.2	173.8	175	171	428	182.5	200	181	437
									2EH04507525	68.9	2	173.0	189.5	225	214	428	200.4	225	224	437
	460-3-60	12.2	100	12.2	100	1.3	6.1	4.3	None	-	-	-	38.8	50	41	252	43.1	50	46	256
									2EH04502546	23.0	1	28.9	74.9	80	74	252	79.2	80	79	256
									2EH04505046	45.9	2	57.6	86.3	90	85	252	90.6	100	90	256
									2EH04507546	68.9	2	86.5	94.1	110	106	252	99.5	110	111	256
	575-3-60	9.0	78	9.0	78	1.0	4.9	3.5	None	-	-	-	29.2	35	31	205	32.7	40	35	209
									2EH04502558	23.0	1	23.1	58.0	60	58	205	61.5	70	62	209
									2EH04505058	45.9	2	46.1	67.2	70	66	205	70.7	80	70	209
									2EH04507558	68.9	2	69.2	75.3	90	85	205	79.7	90	89	209
20 (20)	208-3-60	28.2	240	34.0	240	2.0	20.4	9.6	None	-	-	-	99.1	125	104	600	108.7	125	115	610
									2EH04502525	18.8	1	52.2	164.4	175	164	600	174.0	175	175	610
									2EH04505025	37.6	2	104.4	185.1	200	183	600	194.7	200	194	610
									2EH04507525	56.3	2	156.3	197.0	200	203	600	206.6	225	214	610
	230-3-60	28.2	240	34.0	240	2.3	20.4	8.7	None	-	-	-	100.3	125	106	602	109.0	125	116	610
									2EH04502525	23.0	1	57.7	172.4	175	172	602	181.1	200	182	610
									2EH04505025	45.9	2	115.2	195.4	200	193	602	204.1	225	203	610
									2EH04507525	68.9	2	173.0	208.3	225	222	602	217.0	225	232	610
	460-3-60	14.7	130	16.0	140	1.3	9.9	4.3	None	-	-	-	49.8	60	53	333	54.1	70	58	337
									2EH04502546	23.0	1	28.9	85.9	90	86	333	90.2	100	91	337
									2EH04505046	45.9	2	57.6	97.3	100	96	333	101.6	110	101	337
									2EH04507546	68.9	2	86.5	103.8	110	111	333	108.1	110	116	337
	575-3-60	11.3	93.7	12.9	107.6	1.0	7.7	3.5	None	-	-	-	39.1	50	41	251	42.6	50	45	254
									2EH04502558	23.0	1	23.1	68.0	70	68	251	71.5	80	72	254
									2EH04505058	45.9	2	46.1	77.1	80	76	251	80.6	90	80	254
									2EH04507558	68.9	2	69.2	82.3	90	88	251	85.8	90	92	254

Table 52: VFD 2 stage medium static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	30.0	9.6	None	-	-	-	146.6	175	155	630	156.2	200	166	640
									2EH04502525	18.8	1	52.2	211.9	225	215	630	221.5	250	226	640
									2EH04505025	37.6	2	104.4	232.6	250	234	630	242.2	250	245	640
									2EH04507525	56.3	2	156.3	244.5	250	245	630	254.1	300	256	640
	230-3-60	48.1	245	48.1	245	2.1	30.0	8.7	None	-	-	-	146.6	175	155	630	155.3	200	165	639
									2EH04502525	23.0	1	57.7	218.8	250	221	630	227.5	250	231	639
									2EH04505025	45.9	2	115.2	241.8	250	242	630	250.5	300	252	639
									2EH04507525	68.9	2	173.0	254.6	300	254	630	263.3	300	264	639
	460-3-60	18.6	125	18.6	125	1.1	14.3	4.3	None	-	-	-	60.6	70	64	321	64.9	80	69	326
									2EH04502546	23.0	1	28.9	96.7	100	98	321	101.0	110	102	326
									2EH04505046	45.9	2	57.6	108.1	110	108	321	112.4	125	113	326
									2EH04507546	68.9	2	86.5	114.6	125	116	321	118.9	125	121	326
	575-3-60	14.7	100	14.7	100	0.9	11.5	3.5	None	-	-	-	48.2	60	51	259	51.7	60	55	262
									2EH04502558	23.0	1	23.1	77.1	80	78	259	80.6	90	82	262
									2EH04505058	45.9	2	46.1	86.2	90	86	259	89.7	90	90	262
									2EH04507558	68.9	2	69.2	91.3	100	93	259	94.8	100	97	262

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

VFD 2 stage medium static with on/off power exhaust

Table 53: VFD 2 stage medium static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	13.2	5.0	9.6	None	-	-	-	77.8	100	83	443	87.4	100	94	452
										2EH04522525	18.8	1	52.2	143.1	150	143	443	152.7	175	154	452
										2EH04525025	37.6	2	104.4	163.8	175	162	443	173.4	175	173	452
	230-3-60	22.4	149	22.4	190	2.1	13.2	5.0	8.7	None	-	-	-	77.8	100	83	451	86.5	100	93	459
										2EH04522525	23.0	1	57.7	149.9	150	149	451	158.6	175	159	459
										2EH04525025	45.9	2	115.2	173.0	175	171	451	183.9	200	181	459
	460-3-60	10.6	75	11.5	100	1.1	6.1	2.2	4.3	None	-	-	-	37.7	45	40	230	42.0	50	45	234
										2EH04522546	23.0	1	28.9	73.8	80	73	230	78.1	80	78	234
										2EH04525046	45.9	2	57.6	85.2	90	84	230	90.5	100	89	234
	575-3-60	7.7	54	11.5	100	0.9	4.9	1.5	3.5	None	-	-	-	31.8	40	33	204	35.3	45	37	208
										2EH04522558	23.0	1	23.1	60.7	70	60	204	64.2	70	64	208
										2EH04525058	45.9	2	46.1	69.8	70	68	204	73.3	80	72	208
15 (15)	208-3-60	25.0	164	25.0	164	2.0	13.2	5.0	9.6	None	-	-	-	87.5	110	93	439	97.1	110	104	449
										2EH04502525	18.8	1	52.2	152.7	175	153	439	162.3	175	164	449
										2EH04505025	37.6	2	104.4	173.5	175	173	439	183.1	200	184	449
										2EH04507525	56.3	2	156.3	185.3	200	206	439	197.3	200	217	449
	230-3-60	25.0	164	25.0	164	2.3	13.2	5.0	8.7	None	-	-	-	88.7	110	95	449	97.4	110	105	458
										2EH04502525	23.0	1	57.7	160.8	175	161	449	169.5	175	171	458
										2EH04505025	45.9	2	115.2	183.8	200	182	449	192.5	200	192	458
										2EH04507525	68.9	2	173.0	202.0	225	226	449	212.9	225	236	458
	460-3-60	12.2	100	12.2	100	1.3	6.1	2.2	4.3	None	-	-	-	43.2	50	46	261	47.5	50	51	265
										2EH04502546	23.0	1	28.9	79.3	80	79	261	83.6	90	84	265
										2EH04505046	45.9	2	57.6	90.7	100	90	261	95.0	100	95	265
										2EH04507546	68.9	2	86.5	99.6	110	112	261	105.0	110	116	265
	575-3-60	9.0	78	9.0	78	1.0	4.9	1.5	3.5	None	-	-	-	32.2	40	34	212	35.7	40	38	215
										2EH04502558	23.0	1	23.1	61.0	70	61	212	64.5	70	65	215
										2EH04505058	45.9	2	46.1	70.2	80	69	212	73.7	80	73	215
										2EH04507558	68.9	2	69.2	79.1	90	89	212	83.5	90	93	215
20 (20)	208-3-60	28.2	240	34.0	240	2.0	20.4	5.0	9.6	None	-	-	-	109.1	125	116	621	118.7	150	127	631
										2EH04502525	18.8	1	52.2	174.4	175	176	621	184.0	200	187	631
										2EH04505025	37.6	2	104.4	195.1	200	195	621	204.7	225	206	631
										2EH04507525	56.3	2	156.3	207.0	225	215	621	216.6	225	226	631
	230-3-60	28.2	240	34.0	240	2.3	20.4	5.0	8.7	None	-	-	-	110.3	125	117	623	119.0	150	127	631
										2EH04502525	23.0	1	57.7	182.4	200	183	623	191.1	200	193	631
										2EH04505025	45.9	2	115.2	205.4	225	205	623	214.1	225	215	631
										2EH04507525	68.9	2	173.0	218.3	225	234	623	227.0	250	244	631
	460-3-60	14.7	130	16.0	140	1.3	9.9	2.2	4.3	None	-	-	-	54.2	70	58	342	58.5	70	63	346
										2EH04502546	23.0	1	28.9	90.3	100	91	342	94.6	100	96	346
										2EH04505046	45.9	2	57.6	101.7	110	101	342	106.0	110	106	346
										2EH04507546	68.9	2	86.5	108.2	110	116	342	112.5	125	121	346
	575-3-60	11.3	93.7	12.9	107.6	1.0	7.7	1.5	3.5	None	-	-	-	42.1	50	45	257	45.6	50	49	260
										2EH04502558	23.0	1	23.1	71.0	80	71	257	74.5	80	75	260
										2EH04505058	45.9	2	46.1	80.1	90	80	257	83.6	90	84	260
										2EH04507558	68.9	2	69.2	85.3	90	92	257	88.8	90	96	260

Table 53: VFD 2 stage medium static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	30.0	5.0	9.6	None	-	-	-	156.6	200	166	651	166.2	200	177	661
										2EH04502525	18.8	1	52.2	221.9	250	226	651	231.5	250	237	661
										2EH04505025	37.6	2	104.4	242.6	250	245	651	252.2	300	256	661
										2EH04507525	56.3	2	156.3	254.5	300	256	651	264.1	300	267	661
	230-3-60	48.1	245	48.1	245	2.1	30.0	5.0	8.7	None	-	-	-	156.6	200	166	651	165.3	200	176	660
										2EH04502525	23.0	1	57.7	228.8	250	233	651	237.5	250	243	660
										2EH04505025	45.9	2	115.2	251.8	300	254	651	260.5	300	264	660
										2EH04507525	68.9	2	173.0	264.6	300	266	651	273.3	300	276	660
	460-3-60	18.6	125	18.6	125	1.1	14.3	2.2	4.3	None	-	-	-	65.0	80	69	330	69.3	80	74	335
										2EH04502546	23.0	1	28.9	101.1	110	103	330	105.4	110	108	335
										2EH04505046	45.9	2	57.6	112.5	125	113	330	116.8	125	118	335
										2EH04507546	68.9	2	86.5	119.0	125	121	330	123.3	125	126	335
	575-3-60	14.7	100	14.7	100	0.9	11.5	1.5	3.5	None	-	-	-	51.2	60	55	265	54.7	60	59	269
										2EH04502558	23.0	1	23.1	80.1	90	81	265	83.6	90	85	269
										2EH04505058	45.9	2	46.1	89.2	90	90	265	92.7	100	94	269
										2EH04507558	68.9	2	69.2	94.3	100	96	265	97.8	100	100	269

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

VFD 2 stage medium static with mod power exhaust

Table 54: VFD 2 stage medium static with mod power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	13.2	6.7	9.6	None	-	-	-	81.2	100	87	435	90.8	110	98	445
										2EH04522525	18.8	1	52.2	146.5	150	147	435	156.1	175	158	445
										2EH04525025	37.6	2	104.4	167.2	175	166	435	176.8	200	177	445
	230-3-60	22.4	149	22.4	190	2.1	13.2	6.7	8.7	None	-	-	-	81.2	100	87	443	89.9	110	97	452
										2EH04522525	23.0	1	57.7	153.3	175	153	443	162.0	175	163	452
										2EH04525025	45.9	2	115.2	177.3	200	174	443	188.1	200	184	452
	460-3-60	10.6	75	11.5	100	1.1	6.1	3.4	4.3	None	-	-	-	40.1	50	43	228	44.4	50	48	232
										2EH04522546	23.0	1	28.9	76.2	80	76	228	80.5	90	81	232
										2EH04525046	45.9	2	57.6	88.1	90	86	228	93.5	100	91	232
	575-3-60	7.7	54	11.5	100	0.9	4.9	2.7	3.5	None	-	-	-	34.2	45	36	203	37.7	45	40	207
										2EH04522558	23.0	1	23.1	63.1	70	63	203	66.6	70	67	207
										2EH04525058	45.9	2	46.1	72.2	80	71	203	75.7	80	75	207
15 (15)	208-3-60	25.0	164	25.0	164	2.0	13.2	6.7	9.6	None	-	-	-	90.9	110	97	432	100.5	125	108	441
										2EH04502525	18.8	1	52.2	156.1	175	157	432	165.7	175	168	441
										2EH04505025	37.6	2	104.4	176.9	200	176	432	186.5	200	187	441
										2EH04507525	56.3	2	156.3	189.6	200	210	432	201.6	225	221	441
	230-3-60	25.0	164	25.0	164	2.3	13.2	6.7	8.7	None	-	-	-	92.1	110	99	442	100.8	125	109	450
										2EH04502525	23.0	1	57.7	164.2	175	165	442	172.9	175	175	450
										2EH04505025	45.9	2	115.2	187.2	200	186	442	195.9	200	196	450
										2EH04507525	68.9	2	173.0	206.3	225	230	442	217.1	225	240	450
	460-3-60	12.2	100	12.2	100	1.3	6.1	3.4	4.3	None	-	-	-	45.6	50	49	259	49.9	60	54	263
										2EH04502546	23.0	1	28.9	81.7	90	82	259	86.0	90	87	263
										2EH04505046	45.9	2	57.6	93.1	100	93	259	97.4	100	98	263
										2EH04507546	68.9	2	86.5	102.6	110	114	259	108.0	110	119	263
	575-3-60	9.0	78	9.0	78	1.0	4.9	2.7	3.5	None	-	-	-	34.6	40	37	211	38.1	45	41	214
										2EH04502558	23.0	1	23.1	63.4	70	64	211	66.9	70	68	214
										2EH04505058	45.9	2	46.1	72.6	80	72	211	76.1	80	76	214
										2EH04507558	68.9	2	69.2	82.1	90	91	211	86.5	90	95	214
20 (20)	208-3-60	28.2	240	34.0	240	2.0	20.4	6.7	9.6	None	-	-	-	112.5	125	120	614	122.1	150	131	623
										2EH04502525	18.8	1	52.2	177.8	200	180	614	187.4	200	191	623
										2EH04505025	37.6	2	104.4	198.5	200	199	614	208.1	225	210	623
										2EH04507525	56.3	2	156.3	210.4	225	219	614	220.0	225	230	623
	230-3-60	28.2	240	34.0	240	2.3	20.4	6.7	8.7	None	-	-	-	113.7	125	121	615	122.4	150	131	624
										2EH04502525	23.0	1	57.7	185.8	200	187	615	194.5	200	197	624
										2EH04505025	45.9	2	115.2	208.8	225	208	615	217.5	225	219	624
										2EH04507525	68.9	2	173.0	221.7	225	238	615	230.4	250	248	624
	460-3-60	14.7	130	16.0	140	1.3	9.9	3.4	4.3	None	-	-	-	56.6	70	60	339	60.9	70	65	344
										2EH04502546	23.0	1	28.9	92.7	100	94	339	97.0	100	99	344
										2EH04505046	45.9	2	57.6	104.1	110	104	339	108.4	110	109	344
										2EH04507546	68.9	2	86.5	110.6	125	119	339	114.9	125	124	344
	575-3-60	11.3	93.7	12.9	107.6	1.0	7.7	2.7	3.5	None	-	-	-	44.5	50	47	256	48.0	60	52	259
										2EH04502558	23.0	1	23.1	73.4	80	74	256	76.9	80	78	259
										2EH04505058	45.9	2	46.1	82.5	90	82	256	86.0	90	86	259
										2EH04507558	68.9	2	69.2	87.7	90	95	256	91.2	100	99	259

Table 54: VFD 2 stage medium static with mod power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	30.0	6.7	9.6	None	-	-	-	160.0	200	170	643	169.6	200	181	653
										2EH04502525	18.8	1	52.2	225.3	250	230	643	234.9	250	241	653
										2EH04505025	37.6	2	104.4	246.0	250	249	643	255.6	300	260	653
										2EH04507525	56.3	2	156.3	257.9	300	260	643	267.5	300	271	653
	230-3-60	48.1	245	48.1	245	2.1	30.0	6.7	8.7	None	-	-	-	160.0	200	170	643	168.7	200	180	652
										2EH04502525	23.0	1	57.7	232.2	250	237	643	240.9	250	247	652
										2EH04505025	45.9	2	115.2	255.2	300	258	643	263.9	300	268	652
										2EH04507525	68.9	2	173.0	268.0	300	270	643	276.7	300	280	652
	460-3-60	18.6	125	18.6	125	1.1	14.3	3.4	4.3	None	-	-	-	67.4	80	72	328	71.7	90	77	332
										2EH04502546	23.0	1	28.9	103.5	110	105	328	107.8	110	110	332
										2EH04505046	45.9	2	57.6	114.9	125	116	328	119.2	125	121	332
										2EH04507546	68.9	2	86.5	121.4	125	124	328	125.7	150	129	332
	575-3-60	14.7	100	14.7	100	0.9	11.5	2.7	3.5	None	-	-	-	53.6	60	57	264	57.1	70	61	268
										2EH04502558	23.0	1	23.1	82.5	90	84	264	86.0	90	88	268
										2EH04505058	45.9	2	46.1	91.6	100	92	264	95.1	100	96	268
										2EH04507558	68.9	2	69.2	96.7	100	99	264	100.2	110	103	268

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

VFD 2 stage high static without power exhaust

Table 55: VFD 2 stage high static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (Amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	20.4	9.6	None	-	-	-	75.0	90	80	452	84.6	100	91	461
									2EH04522525	18.8	1	52.2	140.3	150	140	452	149.9	150	151	461
									2EH04525025	37.6	2	104.4	161.0	175	159	452	170.6	175	170	461
	230-3-60	22.4	149	22.4	190	2.1	20.4	8.7	None	-	-	-	75.0	90	80	451	83.7	100	90	460
									2EH04522525	23.0	1	57.7	147.1	150	146	451	155.8	175	156	460
									2EH04525025	45.9	2	115.2	170.1	175	167	451	180.4	200	177	460
	460-3-60	10.6	75	11.5	100	1.1	9.9	4.3	None	-	-	-	37.1	45	39	232	41.4	50	44	236
									2EH04522546	23.0	1	28.9	73.2	80	73	232	77.5	80	78	236
									2EH04525046	45.9	2	57.6	84.6	90	83	232	89.8	90	88	236
	575-3-60	7.7	54	11.5	100	0.9	7.7	3.5	None	-	-	-	31.6	40	33	198	35.1	45	37	202
									2EH04522558	23.0	1	23.1	60.5	70	60	198	64.0	70	64	202
									2EH04525058	45.9	2	46.1	69.6	70	68	198	73.1	80	72	202
15 (15)	208-3-60	25.0	164	25.0	164	2.0	20.4	9.6	None	-	-	-	84.7	100	90	448	94.3	110	101	458
									2EH04502525	18.8	1	52.2	149.9	150	150	448	159.5	175	161	458
									2EH04505025	37.6	2	104.4	170.7	175	169	448	180.3	200	180	458
									2EH04507525	56.3	2	156.3	182.5	200	203	448	193.8	200	214	458
	230-3-60	25.0	164	25.0	164	2.3	20.4	8.7	None	-	-	-	85.9	110	92	450	94.6	110	102	458
									2EH04502525	23.0	1	57.7	158.0	175	158	450	166.7	175	168	458
									2EH04505025	45.9	2	115.2	181.0	200	179	450	189.7	200	189	458
									2EH04507525	68.9	2	173.0	198.5	225	222	450	209.4	225	232	458
	460-3-60	12.2	100	12.2	100	1.3	9.9	4.3	None	-	-	-	42.6	50	45	263	46.9	50	50	267
									2EH04502546	23.0	1	28.9	78.7	80	79	263	83.0	90	84	267
									2EH04505046	45.9	2	57.6	90.1	100	89	263	94.4	100	94	267
									2EH04507546	68.9	2	86.5	98.9	110	111	263	104.3	110	116	267
	575-3-60	9.0	78	9.0	78	1.0	7.7	3.5	None	-	-	-	32.0	40	34	205	35.5	40	38	209
									2EH04502558	23.0	1	23.1	60.8	70	61	205	64.3	70	65	209
									2EH04505058	45.9	2	46.1	70.0	70	69	205	73.5	80	73	209
									2EH04507558	68.9	2	69.2	78.8	90	88	205	83.2	90	92	209
20 (20)	208-3-60	28.2	240	34.0	240	2.0	30.0	9.6	None	-	-	-	108.7	125	115	618	118.3	150	126	627
									2EH04502525	18.8	1	52.2	174.0	175	175	618	183.6	200	186	627
									2EH04505025	37.6	2	104.4	194.7	200	194	618	204.3	225	205	627
									2EH04507525	56.3	2	156.3	206.6	225	214	618	216.2	225	225	627
	230-3-60	28.2	240	34.0	240	2.3	30.0	8.7	None	-	-	-	109.9	125	117	620	118.6	150	127	628
									2EH04502525	23.0	1	57.7	182.0	200	183	620	190.7	200	193	628
									2EH04505025	45.9	2	115.2	205.0	225	204	620	213.7	225	214	628
									2EH04507525	68.9	2	173.0	217.9	225	233	620	226.6	250	243	628
	460-3-60	14.7	130	16.0	140	1.3	14.3	4.3	None	-	-	-	54.2	70	58	342	58.5	70	63	346
									2EH04502546	23.0	1	28.9	90.3	100	91	342	94.6	100	96	346
									2EH04505046	45.9	2	57.6	101.7	110	101	342	106.0	110	106	346
									2EH04507546	68.9	2	86.5	108.2	110	116	342	112.5	125	121	346
	575-3-60	11.3	93.7	12.9	107.6	1.0	11.5	3.5	None	-	-	-	42.9	50	46	261	46.4	50	50	265
									2EH04502558	23.0	1	23.1	71.8	80	72	261	75.3	80	76	265
									2EH04505058	45.9	2	46.1	80.9	90	81	261	84.4	90	85	265
									2EH04507558	68.9	2	69.2	86.1	90	93	261	89.6	90	97	265

Table 55: VFD 2 stage high static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (Amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	39.6	9.6	None	-	-	-	156.2	200	166	668	165.8	200	177	678
									2EH04502525	18.8	1	52.2	221.5	250	226	668	231.1	250	237	678
									2EH04505025	37.6	2	104.4	242.2	250	245	668	251.8	300	256	678
									2EH04507525	56.3	2	156.3	254.1	300	256	668	263.7	300	267	678
	230-3-60	48.1	245	48.1	245	2.1	39.6	8.7	None	-	-	-	156.2	200	166	668	164.9	200	176	677
									2EH04502525	23.0	1	57.7	228.4	250	232	668	237.1	250	242	677
									2EH04505025	45.9	2	115.2	251.4	300	253	668	260.1	300	263	677
									2EH04507525	68.9	2	173.0	264.2	300	265	668	272.9	300	275	677
	460-3-60	18.6	125	18.6	125	1.1	18.7	4.3	None	-	-	-	65.0	80	69	340	69.3	80	74	345
									2EH04502546	23.0	1	28.9	101.1	110	103	340	105.4	110	108	345
									2EH04505046	45.9	2	57.6	112.5	125	113	340	116.8	125	118	345
									2EH04507546	68.9	2	86.5	119.0	125	121	340	123.3	125	126	345
	575-3-60	14.7	100	14.7	100	0.9	14.2	3.5	None	-	-	-	50.9	60	54	290	54.4	60	58	293
									2EH04502558	23.0	1	23.1	79.8	80	81	290	83.3	90	85	293
									2EH04505058	45.9	2	46.1	88.9	90	89	290	92.4	100	93	293
									2EH04507558	68.9	2	69.2	94.0	100	96	290	97.5	100	100	293

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

VFD 2 stage high static with on/off power exhaust

Table 56: VFD 2 stage high static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	20.4	5.0	9.6	None	-	-	-	85.0	100	91	473	94.6	110	102	482
										2EH04522525	18.8	1	52.2	150.3	175	151	473	159.9	175	162	482
										2EH04525025	37.6	2	104.4	171.0	175	170	473	180.6	200	181	482
	230-3-60	22.4	149	22.4	190	2.1	20.4	5.0	8.7	None	-	-	-	85.0	100	91	472	93.7	110	101	481
										2EH04522525	23.0	1	57.7	157.1	175	158	472	165.8	175	168	481
										2EH04525025	45.9	2	115.2	182.0	200	179	472	192.9	200	189	481
	460-3-60	10.6	75	11.5	100	1.1	9.9	2.2	4.3	None	-	-	-	41.5	50	44	241	45.8	50	49	245
										2EH04522546	23.0	1	28.9	77.6	80	78	241	81.9	90	83	245
										2EH04525046	45.9	2	57.6	89.9	90	88	241	95.3	100	93	245
	575-3-60	7.7	54	11.5	100	0.9	7.7	1.5	3.5	None	-	-	-	34.6	45	36	204	38.1	45	40	208
										2EH04522558	23.0	1	23.1	63.5	70	63	204	67.0	70	67	208
										2EH04525058	45.9	2	46.1	72.6	80	71	204	76.1	80	75	208
15 (15)	208-3-60	25.0	164	25.0	164	2.0	20.4	5.0	9.6	None	-	-	-	94.7	110	102	469	104.3	125	113	479
										2EH04502525	18.8	1	52.2	159.9	175	162	469	169.5	175	173	479
										2EH04505025	37.6	2	104.4	180.7	200	181	469	190.3	200	192	479
										2EH04507525	56.3	2	156.3	194.3	200	215	469	206.3	225	226	479
	230-3-60	25.0	164	25.0	164	2.3	20.4	5.0	8.7	None	-	-	-	95.9	110	103	471	104.6	125	113	479
										2EH04502525	23.0	1	57.7	168.0	175	169	471	176.7	200	179	479
										2EH04505025	45.9	2	115.2	191.0	200	191	471	199.7	200	201	479
										2EH04507525	68.9	2	173.0	211.0	225	234	471	221.9	225	244	479
	460-3-60	12.2	100	12.2	100	1.3	9.9	2.2	4.3	None	-	-	-	47.0	50	50	272	51.3	60	55	276
										2EH04502546	23.0	1	28.9	83.1	90	84	272	87.4	90	89	276
										2EH04505046	45.9	2	57.6	94.5	100	94	272	98.8	100	99	276
										2EH04507546	68.9	2	86.5	104.4	110	116	272	109.8	110	121	276
	575-3-60	9.0	78	9.0	78	1.0	7.7	1.5	3.5	None	-	-	-	35.0	40	38	212	38.5	45	42	215
										2EH04502558	23.0	1	23.1	63.8	70	64	212	67.3	70	68	215
										2EH04505058	45.9	2	46.1	73.0	80	73	212	76.5	80	77	215
										2EH04507558	68.9	2	69.2	82.6	90	92	212	87.0	90	96	215
20 (20)	208-3-60	28.2	240	34.0	240	2.0	30.0	5.0	9.6	None	-	-	-	118.7	150	127	639	128.3	150	138	648
										2EH04502525	18.8	1	52.2	184.0	200	187	639	193.6	200	198	648
										2EH04505025	37.6	2	104.4	204.7	225	206	639	214.3	225	217	648
										2EH04507525	56.3	2	156.3	216.6	225	226	639	226.2	250	237	648
	230-3-60	28.2	240	34.0	240	2.3	30.0	5.0	8.7	None	-	-	-	119.9	150	128	641	128.6	150	138	649
										2EH04502525	23.0	1	57.7	192.0	200	194	641	200.7	225	204	649
										2EH04505025	45.9	2	115.2	215.0	225	216	641	223.7	225	226	649
										2EH04507525	68.9	2	173.0	227.9	250	245	641	236.6	250	255	649
	460-3-60	14.7	130	16.0	140	1.3	14.3	2.2	4.3	None	-	-	-	58.6	70	63	351	62.9	70	68	355
										2EH04502546	23.0	1	28.9	94.7	100	96	351	99.0	100	101	355
										2EH04505046	45.9	2	57.6	106.1	110	106	351	110.4	125	111	355
										2EH04507546	68.9	2	86.5	112.6	125	121	351	116.9	125	126	355
	575-3-60	11.3	93.7	12.9	107.6	1.0	11.5	1.5	3.5	None	-	-	-	45.9	50	49	268	49.4	60	53	271
										2EH04502558	23.0	1	23.1	74.8	80	76	268	78.3	80	80	271
										2EH04505058	45.9	2	46.1	83.9	90	84	268	87.4	90	88	271
										2EH04507558	68.9	2	69.2	89.1	90	96	268	92.6	100	100	271

Table 56: VFD 2 stage high static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	39.6	5.0	9.6	None	-	-	-	166.2	200	177	689	175.8	200	188	699
										2EH04502525	18.8	1	52.2	231.5	250	237	689	241.1	250	248	699
										2EH04505025	37.6	2	104.4	252.2	300	256	689	261.8	300	267	699
										2EH04507525	56.3	2	156.3	264.1	300	267	689	273.7	300	278	699
	230-3-60	48.1	245	48.1	245	2.1	39.6	5.0	8.7	None	-	-	-	166.2	200	177	689	174.9	200	187	698
										2EH04502525	23.0	1	57.7	238.4	250	244	689	247.1	250	254	698
										2EH04505025	45.9	2	115.2	261.4	300	265	689	270.1	300	275	698
										2EH04507525	68.9	2	173.0	274.2	300	277	689	282.9	300	287	698
	460-3-60	18.6	125	18.6	125	1.1	18.7	2.2	4.3	None	-	-	-	69.4	80	74	349	73.7	90	79	354
										2EH04502546	23.0	1	28.9	105.5	110	108	349	109.8	110	113	354
										2EH04505046	45.9	2	57.6	116.9	125	118	349	121.2	125	123	354
										2EH04507546	68.9	2	86.5	123.4	125	126	349	127.7	150	131	354
	575-3-60	14.7	100	14.7	100	0.9	14.2	1.5	3.5	None	-	-	-	53.9	60	58	296	57.4	70	62	299
										2EH04502558	23.0	1	23.1	82.8	90	84	296	86.3	90	88	299
										2EH04505058	45.9	2	46.1	91.9	100	93	296	95.4	100	97	299
										2EH04507558	68.9	2	69.2	97.0	100	99	296	100.5	110	103	299

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

VFD 2 stage high static with mod power exhaust

Table 57: VFD 2 stage high static with mod power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	149	22.4	190	2.1	20.4	6.7	9.6	None	-	-	-	88.4	110	95	465	98.0	110	106	475
										2EH04522525	18.8	1	52.2	153.7	175	155	465	163.3	175	166	475
										2EH04525025	37.6	2	104.4	174.4	175	174	465	184.8	200	185	475
	230-3-60	22.4	149	22.4	190	2.1	20.4	6.7	8.7	None	-	-	-	88.4	110	95	464	97.1	110	105	473
										2EH04522525	23.0	1	57.7	160.5	175	162	464	169.2	175	172	473
										2EH04525025	45.9	2	115.2	186.3	200	183	464	197.1	200	193	473
	460-3-60	10.6	75	11.5	100	1.1	9.9	3.4	4.3	None	-	-	-	43.9	50	47	238	48.2	50	52	243
										2EH04522546	23.0	1	28.9	80.0	80	80	238	84.3	90	85	243
										2EH04525046	45.9	2	57.6	92.9	100	91	238	98.3	100	96	243
	575-3-60	7.7	54	11.5	100	0.9	7.7	2.7	3.5	None	-	-	-	37.0	45	39	203	40.5	50	43	207
										2EH04522558	23.0	1	23.1	65.9	70	66	203	69.4	70	70	207
										2EH04525058	45.9	2	46.1	75.0	80	74	203	78.5	80	78	207
15 (15)	208-3-60	25.0	164	25.0	164	2.0	20.4	6.7	9.6	None	-	-	-	98.1	110	106	462	107.7	125	117	471
										2EH04502525	18.8	1	52.2	163.3	175	166	462	172.9	175	177	471
										2EH04505025	37.6	2	104.4	184.1	200	185	462	193.7	200	196	471
										2EH04507525	56.3	2	156.3	198.6	200	219	462	210.6	225	230	471
	230-3-60	25.0	164	25.0	164	2.3	20.4	6.7	8.7	None	-	-	-	99.3	110	107	463	108.0	125	117	472
										2EH04502525	23.0	1	57.7	171.4	175	173	463	180.1	200	183	472
										2EH04505025	45.9	2	115.2	194.4	200	194	463	203.1	225	204	472
										2EH04507525	68.9	2	173.0	215.3	225	238	463	226.1	250	248	472
	460-3-60	12.2	100	12.2	100	1.3	9.9	3.4	4.3	None	-	-	-	49.4	60	53	269	53.7	60	58	274
										2EH04502546	23.0	1	28.9	85.5	90	86	269	89.8	90	91	274
										2EH04505046	45.9	2	57.6	96.9	100	97	269	101.2	110	102	274
										2EH04507546	68.9	2	86.5	107.4	110	119	269	112.8	125	124	274
	575-3-60	9.0	78	9.0	78	1.0	7.7	2.7	3.5	None	-	-	-	37.4	45	40	211	40.9	45	44	214
										2EH04502558	23.0	1	23.1	66.2	70	67	211	69.7	70	71	214
										2EH04505058	45.9	2	46.1	75.4	80	75	211	78.9	80	79	214
										2EH04507558	68.9	2	69.2	85.6	90	95	211	90.0	90	99	214
20 (20)	208-3-60	28.2	240	34.0	240	2.0	30.0	6.7	9.6	None	-	-	-	122.1	150	131	631	131.7	150	142	641
										2EH04502525	18.8	1	52.2	187.4	200	191	631	197.0	200	202	641
										2EH04505025	37.6	2	104.4	208.1	225	210	631	217.7	225	221	641
										2EH04507525	56.3	2	156.3	220.0	225	230	631	229.6	250	241	641
	230-3-60	28.2	240	34.0	240	2.3	30.0	6.7	8.7	None	-	-	-	123.3	150	132	633	132.0	150	142	642
										2EH04502525	23.0	1	57.7	195.4	200	198	633	204.1	225	208	642
										2EH04505025	45.9	2	115.2	218.4	225	220	633	227.1	250	230	642
										2EH04507525	68.9	2	173.0	231.3	250	249	633	240.0	250	259	642
	460-3-60	14.7	130	16.0	140	1.3	14.3	3.4	4.3	None	-	-	-	61.0	70	66	348	65.3	80	70	353
										2EH04502546	23.0	1	28.9	97.1	100	99	348	101.4	110	104	353
										2EH04505046	45.9	2	57.6	108.5	110	109	348	112.8	125	114	353
										2EH04507546	68.9	2	86.5	115.0	125	124	348	119.3	125	129	353
	575-3-60	11.3	93.7	12.9	107.6	1.0	11.5	2.7	3.5	None	-	-	-	48.3	60	52	267	51.8	60	56	270
										2EH04502558	23.0	1	23.1	77.2	80	78	267	80.7	90	82	270
										2EH04505058	45.9	2	46.1	86.3	90	87	267	89.8	90	91	270
										2EH04507558	68.9	2	69.2	91.5	100	99	267	95.0	100	103	270

Table 57: VFD 2 stage high static with mod power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each)	Supply blower motor FLA	Pwr Exh motor	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	48.1	245	48.1	245	2.1	39.6	6.7	9.6	None	-	-	-	169.6	200	181	681	179.2	225	192	691
										2EH04502525	18.8	1	52.2	234.9	250	241	681	244.5	250	252	691
										2EH04505025	37.6	2	104.4	255.6	300	260	681	265.2	300	271	691
										2EH04507525	56.3	2	156.3	267.5	300	271	681	277.1	300	282	691
	230-3-60	48.1	245	48.1	245	2.1	39.6	6.7	8.7	None	-	-	-	169.6	200	181	681	178.3	225	191	690
										2EH04502525	23.0	1	57.7	241.8	250	248	681	250.5	300	258	690
										2EH04505025	45.9	2	115.2	264.8	300	269	681	273.5	300	279	690
										2EH04507525	68.9	2	173.0	277.6	300	281	681	286.3	300	291	690
	460-3-60	18.6	125	18.6	125	1.1	18.7	3.4	4.3	None	-	-	-	71.8	90	77	347	76.1	90	82	351
										2EH04502546	23.0	1	28.9	107.9	110	110	347	112.2	125	115	351
										2EH04505046	45.9	2	57.6	119.3	125	121	347	123.6	125	126	351
										2EH04507546	68.9	2	86.5	125.8	150	129	347	130.1	150	134	351
	575-3-60	14.7	100	14.7	100	0.9	14.2	2.7	3.5	None	-	-	-	56.3	70	60	295	59.8	70	65	298
										2EH04502558	23.0	1	23.1	85.2	90	87	295	88.7	90	91	298
										2EH04505058	45.9	2	46.1	94.3	100	95	295	97.8	100	99	298
										2EH04507558	68.9	2	69.2	99.4	100	102	295	102.9	110	106	298

Note:

- MCA = minimum circuit ampacity
- Fuse is a dual element, time delay type
- f/b = fuse/breaker
- Breaker is a HACR type per NEC

Weights and dimensions

Figure 4: HV13 physical dimensions

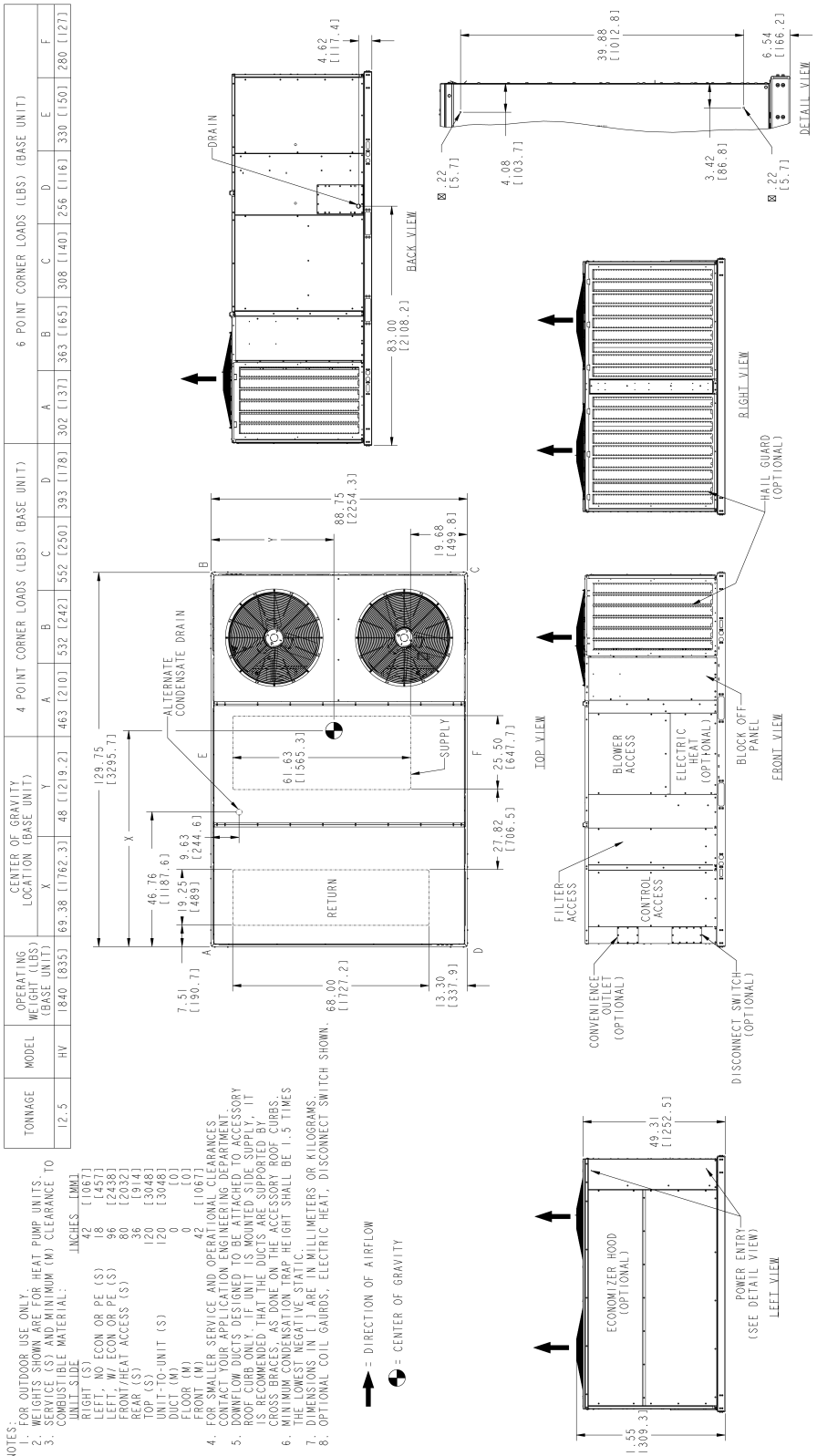


Figure 5: HV15 physical dimensions

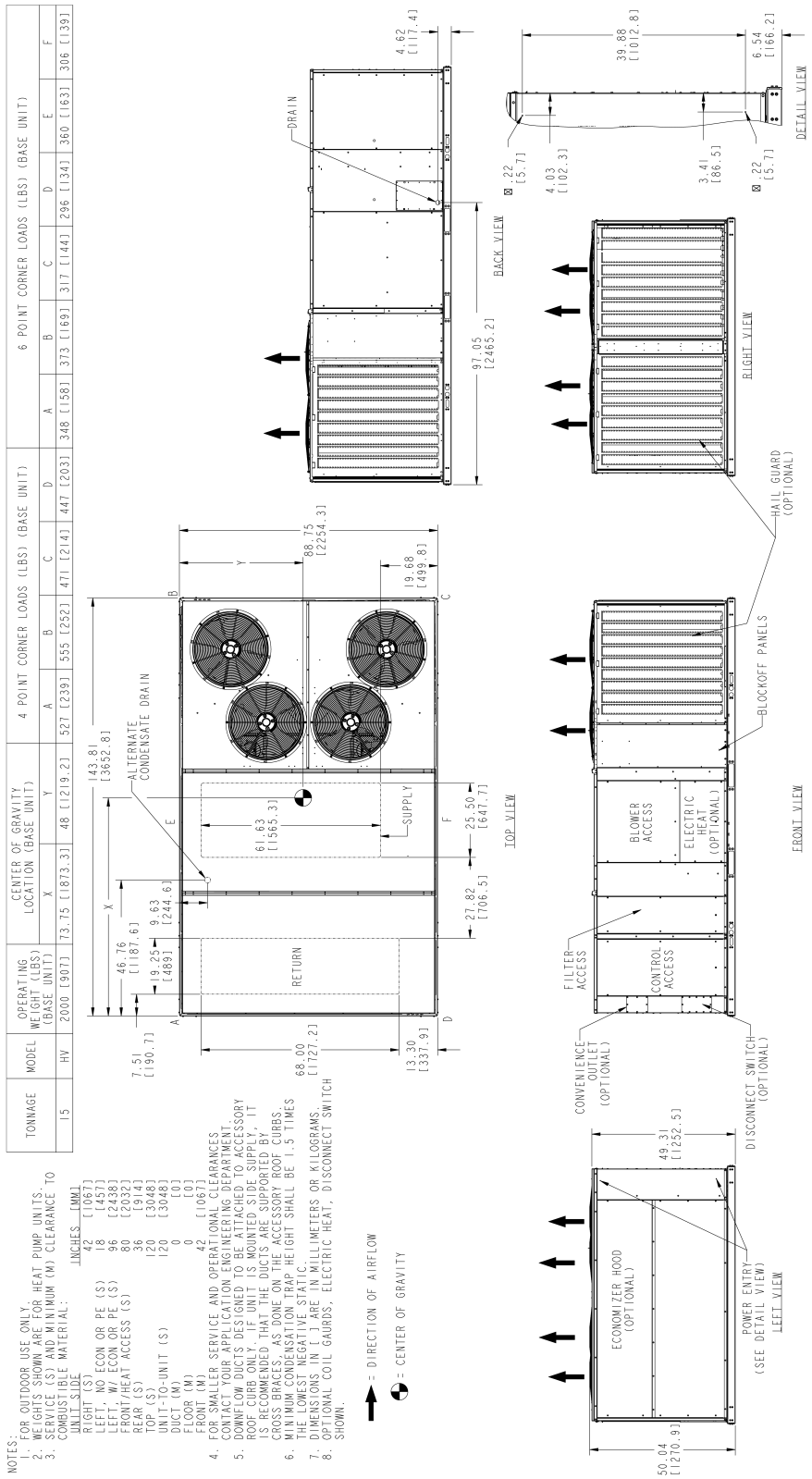


Figure 6: HV20 physical dimensions

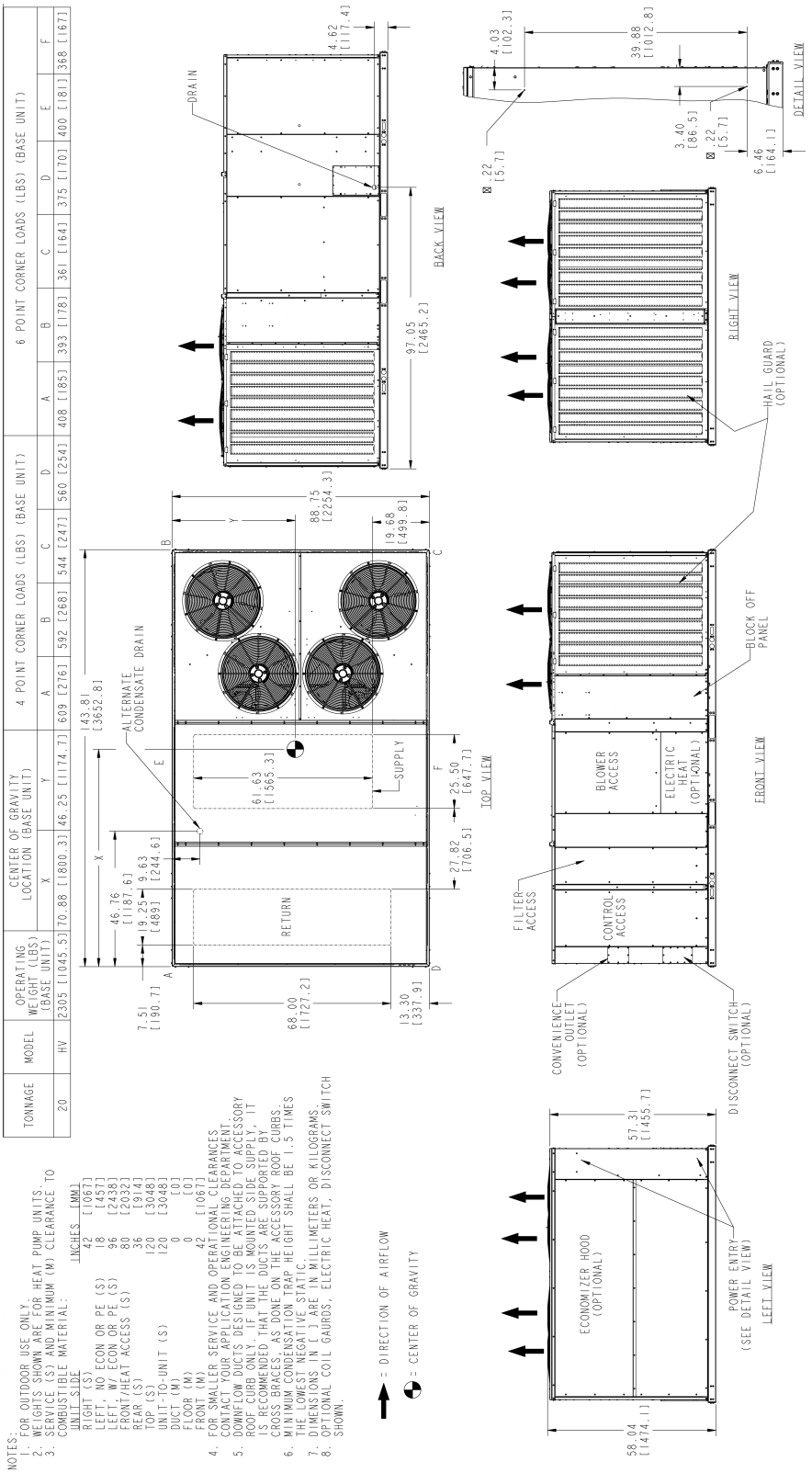
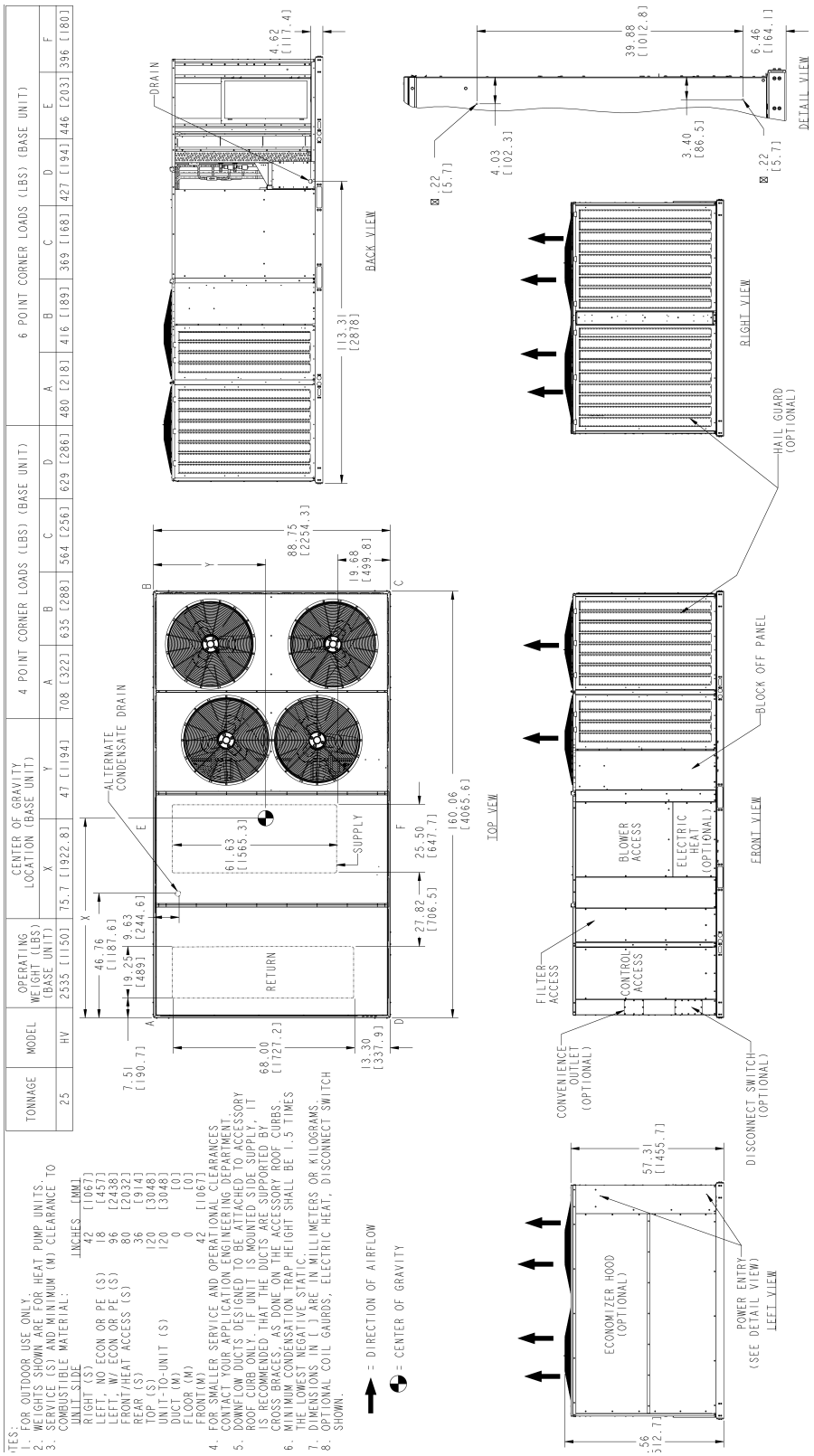
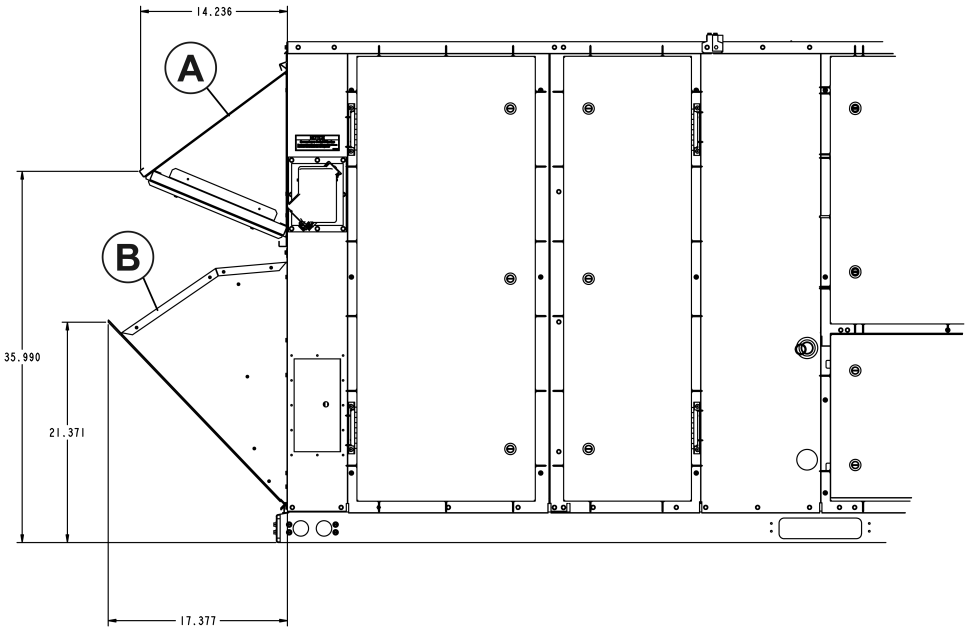


Figure 7: HV25 physical dimensions



Rain hood dimensions

Figure 8: Rain hood dimensions



Item	Description
A	Economizer, manual damper, and motorized damper rain hood
B	Power exhaust rain hood

Utilities entry

Table 58: Utilities entry

Entry description		Opening size diameter (in.)
Control wiring	Left	Field drilled[1] to maximum of 7/8 in.
	Bottom	Field drilled[1] to maximum of 7/8 in.
Power wiring	Left	Field drilled[1] to maximum of 3 in.
	Bottom	Field drilled[1] to maximum of 3 in.
Condensate drain	Front[2]	1 1/2 in. hole
	Bottom[2, 3]	2 in. hole with 1 1/4-in. grommet

1 Factory provided dimples show the hole location to facilitate the drilling of entry holes.
2 1 in. NPT female connection piping is required.
3 You must insert the piping through the factory-installed grommet for a watertight seal

ⓘ **Note:** You must field seal all entry holes to prevent rain water entry into the building.

Accessory weights

Table 59: Unit accessory weights

Unit accessory	Unit size			
	12.5 ton	15 ton	20 ton	25 ton
Economizer	145	145	165	165
Motorized damper	65	65	75	75
Power exhaust	75	75	75	75
Barometric damper	50	50	50	50
Electric heat (75 kW)	75	75	75	75
Hail guards	80	86	107	132
Wood skid and shipping brackets	60	70	70	80
Roof curb	215	230	230	250

Table 60: Supply fan VFD weights

Supply fan motor	208 V/230 V	460 V	575 V
2.9 HP	10	10	10
3.7 HP	10	10	10
5.3 HP	10	10	10
7.5 HP	15	15	15
10 HP	20	15	15
12 HP	20	15	15

Unit accessory weights

Unit Accessory	Unit Size			
	15T-17.5T	20T	25T	27.5T
Economizer	145	145	165	165
Motorized Damper	65	65	75	75
Power Exhaust	75	75	75	75
Barometric Damper	50	50	50	50
Electric Heat (75 kW)	75	75	75	75
Gas Heat (Largest)	155	155	155	155
Hail Guards	75	80	100	125
Wood Skid + Shipping Brackets	60	70	70	80
Roof Curb	215	230	230	250

Supply fan VFD weights

Supply Fan Motor	208/230V	460V	575V
2.9 HP	10	10	10
3.7 HP	10	10	10
5.3 HP	10	10	10
7.5 HP	15	15	15
10 HP	20	15	15
12 HP	20	15	15

Roof curbs

The following figures show the roof curbs for the units. All dimensions are in inches.

Return air

Supply air

Figure 9: 1RC0443 and 1RC0446 roof curb dimensions

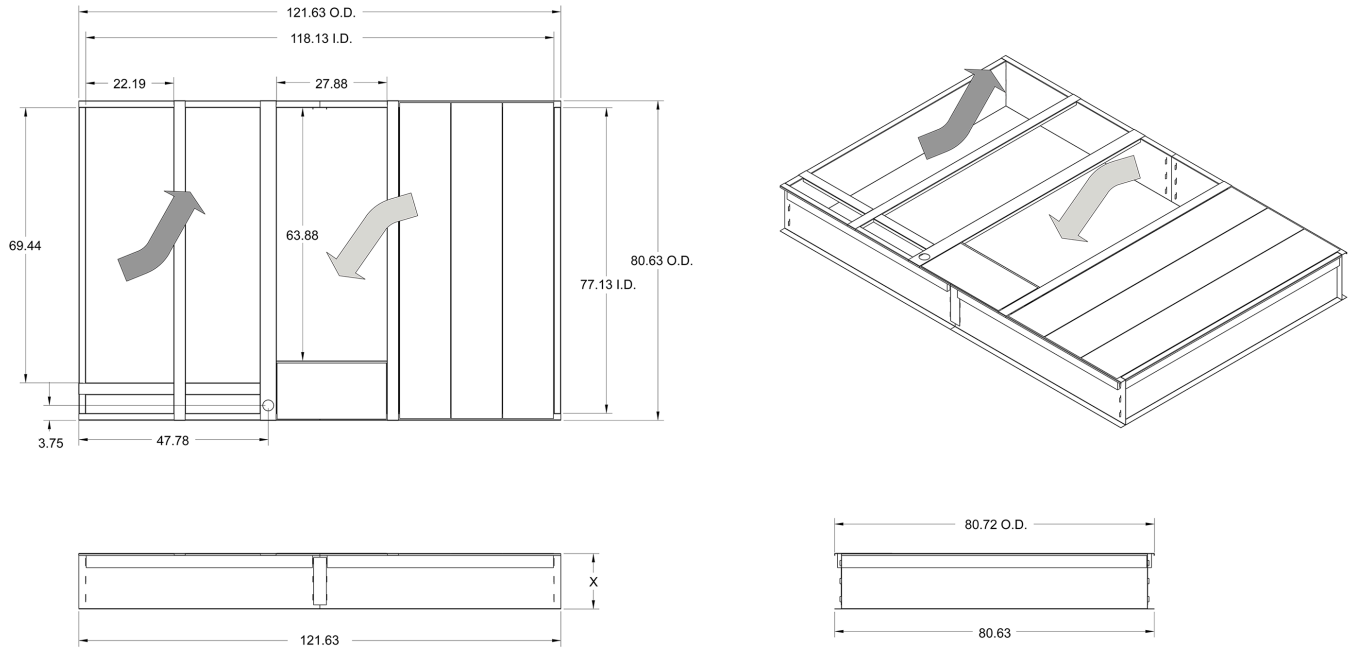


Table 61: 1RC0443 and 1RC0446 dimensions

Roof curb	X measurement (in.)
1RC0443	14
1RC0446	24

The following units are compatible with 1RC0443 and 1RC0446 roof curbs.

- AV15
- AV18
- HV13

Figure 10: 1RC0444 and 1RC0447 roof curb dimensions

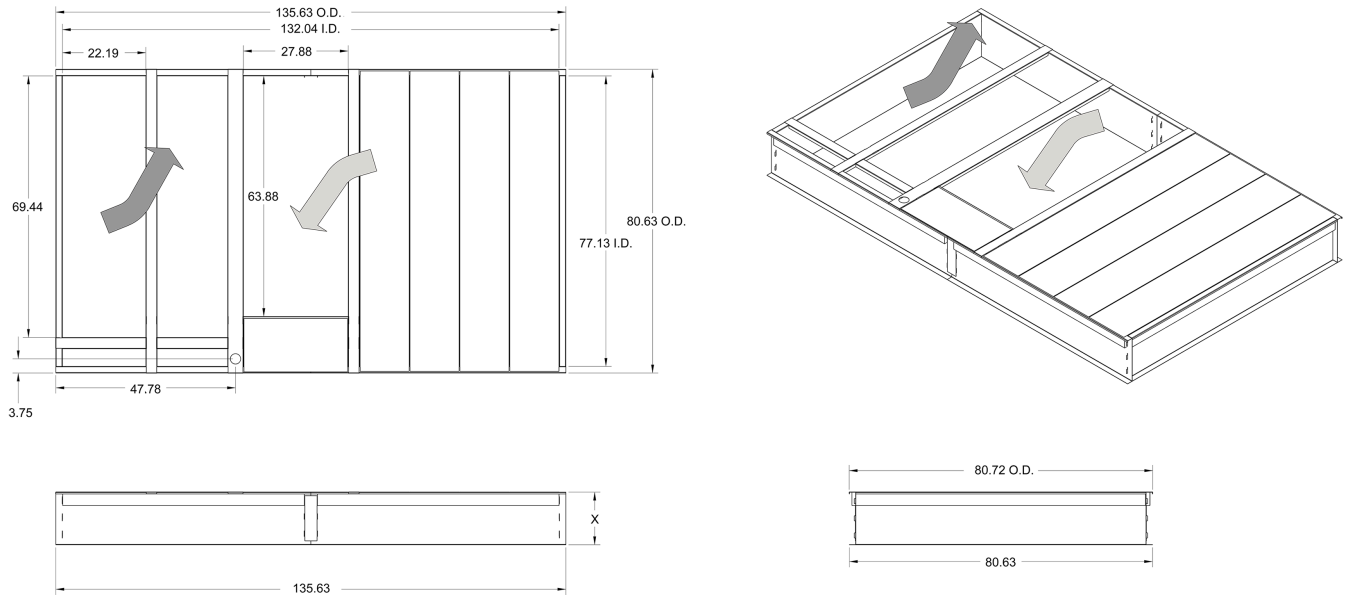


Table 62: 1RC0444 and 1RC0447 dimensions

Roof curb	X measurement (in.)
1RC0444	14
1RC0447	24

The following units are compatible with 1RC0444 and 1RC0447 roof curbs.

- AV20
- AV25
- HV15
- HV20

Figure 11: 1RC0445 and 1RC0448 roof curb dimensions

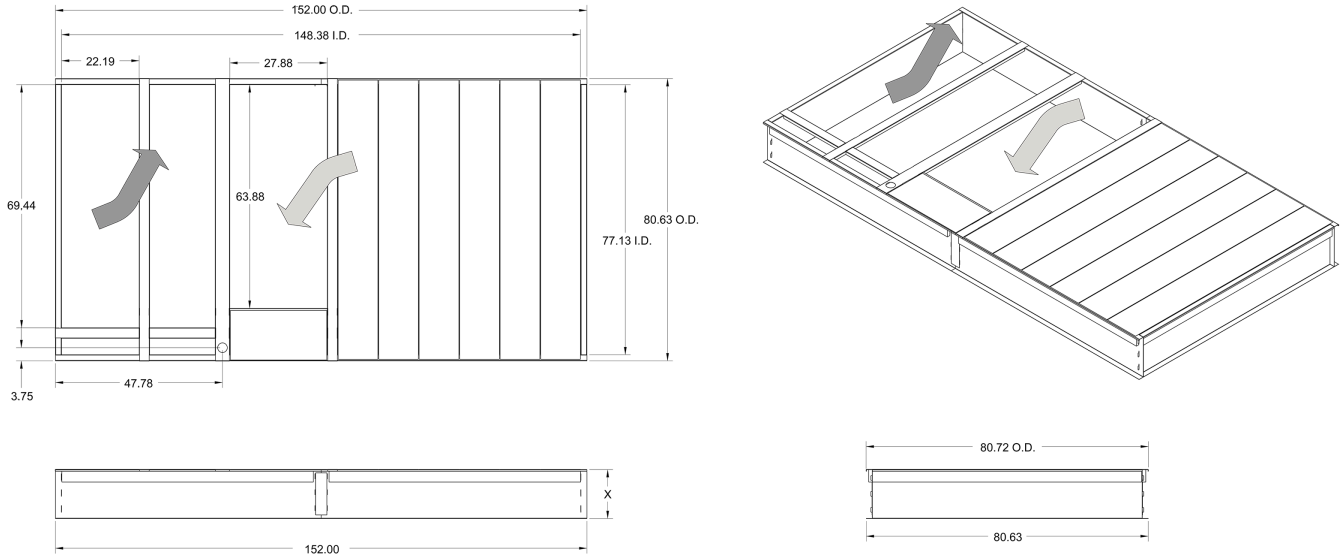


Table 63: 1RC0445 and 1RC0448 dimensions

Roof curb	X measurement (in.)
1RC0445	14
1RC0448	24

The following unit is compatible with 1RC0445 and 1RC0448 roof curbs.

- AV28
- HV25

Figure 12: Roof curb cutaway

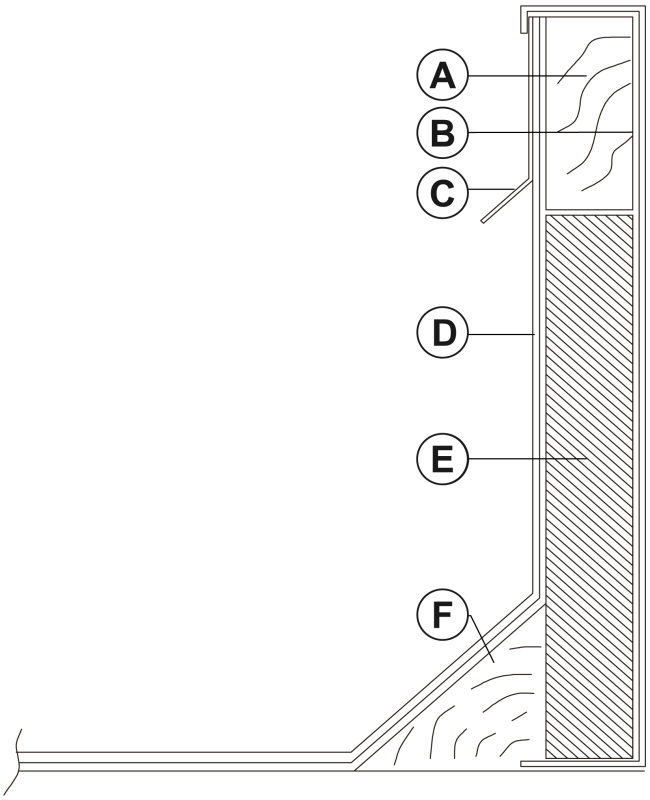


Table 64: Roof curb cutaway components

Item	Description	Item	Description
A	Wood nailer	D	Roof felt (field supplied)
B	Curb frame	E	Rigid insulation (field supplied)
C	Counter flashing (field supplied)	F	Cant strip (field supplied)

Economizer options

Figure 13: Economizer options

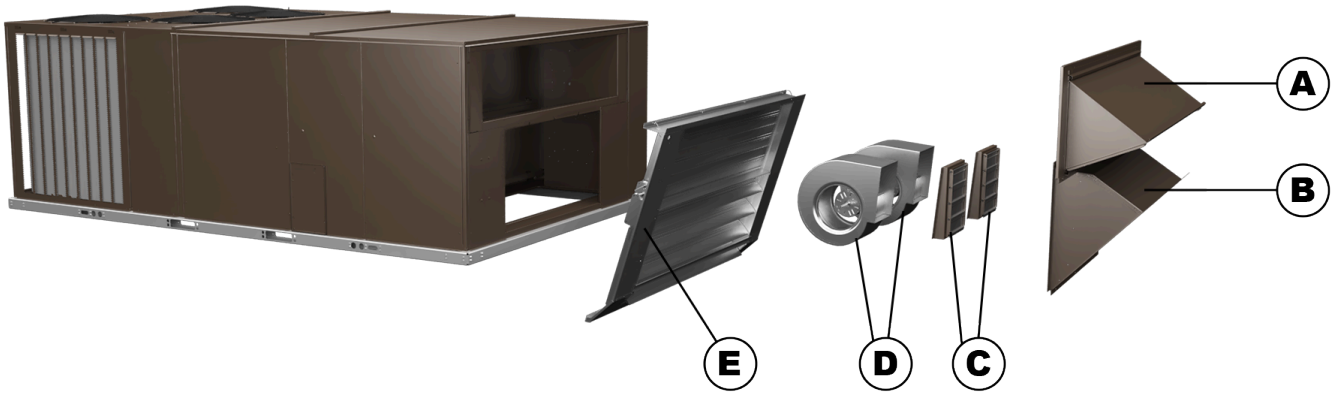


Table 65: Economizer components

Item	Description
A	Fresh air hood
B	Power exhaust hood
C	Power exhaust damper
D	Power exhaust
E	Low leak economizer

Typical installation

The following figures show the typical installations for the unit.

Figure 14: Roof jack installation

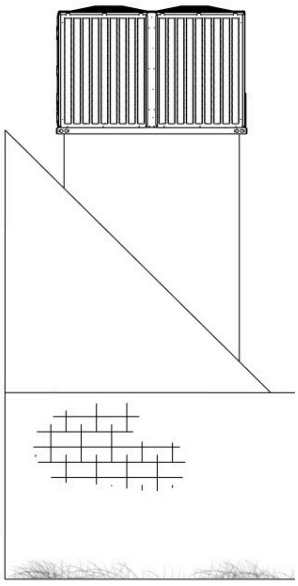


Figure 15: Roof curb installation