



Technical Guide: YORK® Sun™ Select YV28 to YV50



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Description

The YORK® Sun™ Select 27.5 ton to 50 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 Select units meet the latest U.S. Department of Energy (DOE) efficiency requirements in the base constant volume configuration, while the optional IntelliSpeed and variable air volume (VAV) airflow options deliver energy efficiency exceeding the DOE mandates for 2023. Achieving efficiencies as high as 16 IEER (cooling only) and 15.8 IEER (gas heat), the standard efficiency Select 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, IntelliSpeed discrete fan control, and VAV blower configurations. All tonnages can be configured for cooling only or staged gas heating.

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 16 IEER, designed to meet DOE 2023 efficiency requirements
- Two independent refrigerant circuits
- Two stages of cooling (constant volume and IntelliSpeed) and four stages of cooling (VAV) to meet advanced building code requirements
- The industry's widest range of airflow options in each tonnage. Constant volume, IntelliSpeed, and VAV
- Footprint design allows for direct replacement of the Trane Voyager III product family 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-installed staged gas heat

Unit components

Figure 1: Component location

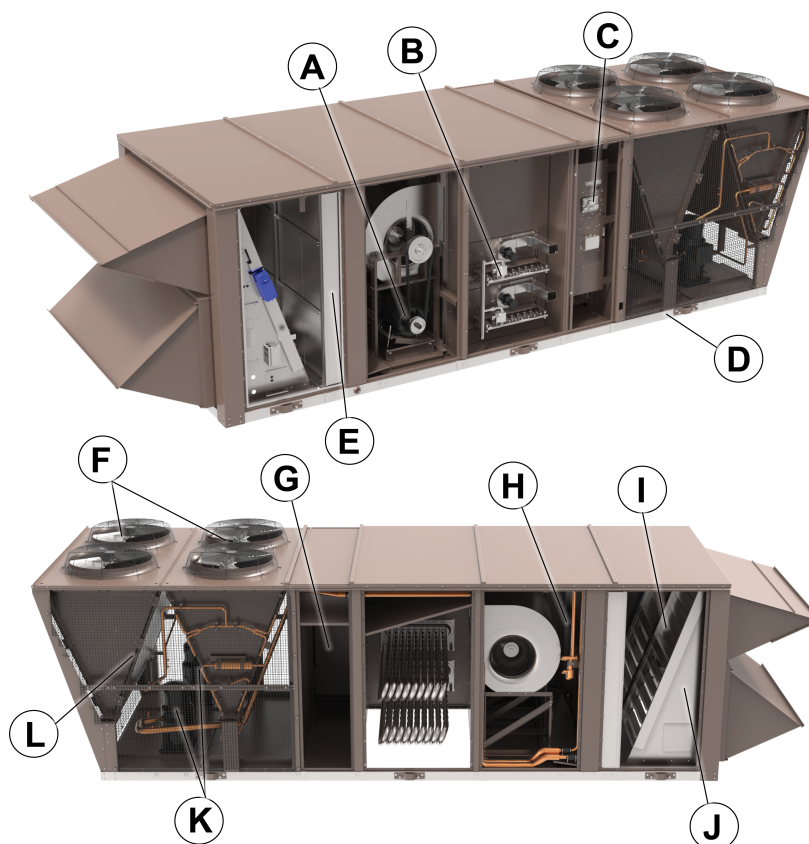


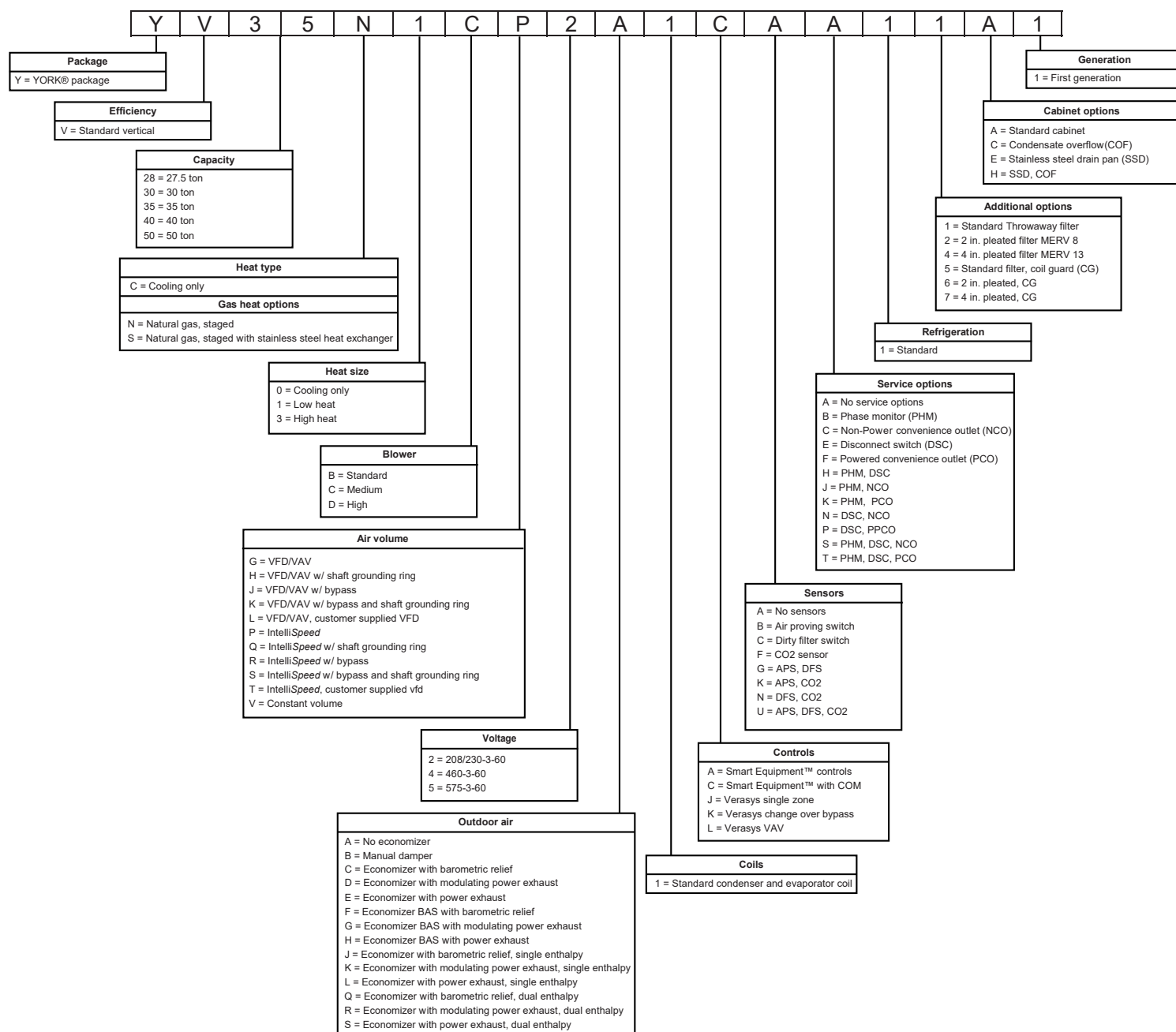
Table 1: Component location table

Item	Description	Item	Description
A	Belt drive blower motor with dual centrifugal fan design	G	Optional variable frequency drive location (VFD not shown)
B	Optional staged gas heat with aluminized or stainless steel heat exchanger	H	Copper tube/aluminum fin evaporator coil
C	Smart Equipment™ controls	I	Optional economizer. Optional manual outside air dampers not shown
D	Full perimeter base rails with attached lifting lugs	J	Optional powered exhaust or barometric relief location (not visible)
E	Filter access, 2-in. or 4-in. filter options	K	Scroll compressors in various arrangements to produce two stages or four stages of cooling, depending on the selected model
F	Condenser fans	L	MicroChannel condenser coils

Nomenclature

Figure 2: Product nomenclature

YORK® model number nomenclature



Features and benefits

Standard features

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

Efficiency

Available in standard efficiency cooling only and gas heat, Select units achieve up to 11.1 EER. IEER ratings as high as 16 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 selection of indoor airflow options available for maximum customization to meet the needs of each job site. Constant volume, IntelliSpeed, and variable air volume (VAV) configurations each have a dedicated airflow and compressor staging algorithm designed to maximize efficiency and reliability. Variable airflow models, IntelliSpeed or VAV, 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 IntelliSpeed models have two stages of cooling operation, and VAV models have four stages of cooling operation.

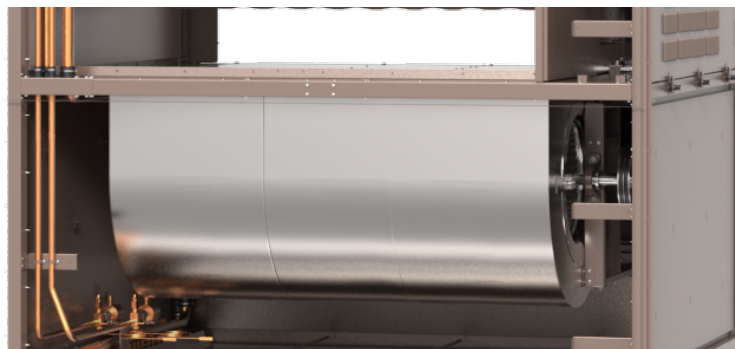
Variable frequency drive

Factory-installed variable frequency drives (VFD) provide higher efficiency through both IntelliSpeed and VAV 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 plate with vertical adjustment for simplified adjustments to belt tension and easier belt replacement.

Figure 3: Indoor blower



Evaporator coils

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

Condenser coils

All units come with microChannel condenser coils.

Balanced staged heating

All gas heat units are of a tubular design with in-shot burners and induced draft. Standard controls provide two stages of capacity control. Each section includes a durable heat exchanger with aluminized steel or optional stainless steel tubes, a redundant gas valve, spark ignition, power venting, an ignition module for 100% shut-off, and all of the safety controls required to meet the latest ANSI standards. You can route the gas supply piping into the heating compartment through a hole in the base pan of the unit or through a hole in the piping panel on the front of the unit.

Advanced, versatile controls

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

Figure 4: Smart Equipment™ control board



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

You can configure the Smart Equipment™ control for use with a standard thermostat or zone sensor using the convenient screw terminals. 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. Aluminized steel heat exchangers have a 10-year warranty and stainless steel heat exchangers have a 15-year warranty.

Replacement opportunity with footprint

All tonnages have a meticulously designed footprint providing the ability to directly replace, without the need for a transition curb, the existing 27.5 ton to 50 ton Trane Voyager footprint. When replacing the high gas heat model in 27.5 tons to 35 tons, a roof curb block-off kit may be required. This block-off kit is available directly from the Select unit manufacturer.

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

Gas and electrical utility entries are 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 removable single direction sloped condensate drain pan with 1 in. I.D. female connection. Drain pans are sloped in accordance with ASHRAE 62 and are available in galvanized or stainless steel configurations.

Color-coded and numbered wiring

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

Convertible filter rack

Units are provided with the selected 2-in. or 4-in. 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, 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. Gas heat is rated to operate in outdoor temperatures down to -40°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. On units with heating, the gas valve and high temperature limit switches are monitored on gas and electric heating units. 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 much trip three times within 2 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.		✓
Coil/hail guard	✓	✓
Aluminized steel gas heat exchanger	✓	
Stainless steel gas heat exchanger	✓	
Flue exhaust extension		✓
Propane conversion		✓
High altitude kit for propane		✓
High altitude kit for natural gas		✓
Stainless steel drain pan	✓	
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	✓	
Multi-zone variable air volume (VAV)	✓	
CRSZ control single zone VAV	✓	
Standard, medium, or high static indoor blower motor	✓	
Non-fused disconnect switch	✓	
Powered convenience outlet	✓	
Non-powered convenience outlet	✓	
Phase monitor	✓	

Fresh air option or accessory	Factory option	Field-installed option
Manual outside air damper	✓	
Low leak economizer	✓	
Single or dual enthalpy economizer control	✓	✓
Barometric relief damper	✓	
Constant volume power exhaust	✓	
Modulating power exhaust	✓	

Controls option or accessory	Factory option	Field-installed option
Air proving switch	✓	✓
Dirty filter switch	✓	✓
CO ₂ sensor	✓	✓
Condensate overflow switch	✓	✓
Smart Equipment™ control communication card	✓	✓
MAP (Mobile Access Portal) Gateway for use with Smart Equipment™ control		✓
Verasys	✓	✓

Factory and field-installed options

YORK® Sun™ Select 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 Select 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.

Multi-zone variable air volume (VAV)

Factory option

Intended for job applications where multiple zones are serviced by a single rooftop with zone dampers in the ductwork to control airflow to each zone. Similar to the IntelliSpeed blower control method, the VAV blower control option uses a VFD to control modulation of the supply fan airflow. Unlike IntelliSpeed, VAV operation provides full modulation of the supply fan speed to provide both a constant supply air temperature and a constant duct static pressure. This modulation is controlled by the VFD based on readings from a pressure transducer mounted in the unit supply duct.

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

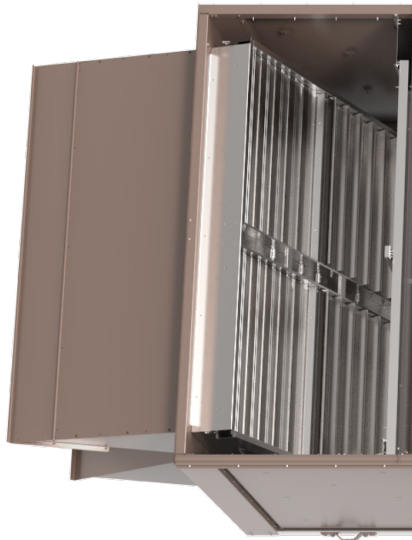
For applications with high static restrictions, units are offered with optional indoor motors that provide higher static output to varying degrees based on the application requirements.

Low leak economizer with fresh air hood

Factory 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 in. 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.

Figure 5: Economizer



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 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%.

Barometric relief damper

Factory 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 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.

Modulating power exhaust

Factory option

For more precise control over a unit's exhaust performance, you can select a modulating power exhaust as a factory 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.

Staged gas heat

Factory option in aluminized steel or stainless steel

Staged gas heating is available in two sizes, each with two stages of operation. The standard gas heat exchanger comes in aluminized steel for applications in non-corrosive environments with an optional stainless steel gas heat exchanger available for application in corrosive environments.

Flue exhaust extension

Field-installed option

In locations with wind or weather conditions that may interfere with the proper exhausting of furnace combustion products, this accessory can prevent the flue exhaust from entering nearby fresh air intakes.

Propane conversion kit

Field-installed option

Use this kit to convert a gas-fired heater from natural gas to propane. It contains the main burner orifices and gas valve replacement springs.

Gas heat high altitude kit

Field-installed option

Use this kit to convert a gas heat unit to operate at high altitudes from 2,000 ft to 10,000 ft. Conversion kits are available for natural gas and propane.

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.

Figure 6: Coil guard



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.

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 120 V 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 option

The non-powered convenience outlet option provides a 120 V single-phase GFCI outlet with a cover on the exterior of the unit. The outlet requires the installer to provide the 120 V single-phase power source and wiring.

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.

CO₂ sensor

Factory or field-installed option

The provided CO₂ sensor detects CO₂ 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.

Filters

Factory option

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

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: YV28 to YV30 physical data

Component	Models			
	YV28		YV30	
Nominal tonnage	27.5		30	
ARI cooling performance	2 Stage	4 Stage	2 Stage	4 Stage
Gross capacity @ ARI A point (Btu)	320,163	318,311	344,378	339,064
ARI net capacity (Btu)	308,000	306,000	336,000	330,000
EER	10.8 ¹ / 10.5 ²	10.8 ¹ / 10.5 ²	10.9 ¹ / 10.8 ²	10.9 ¹ / 10.8 ²
IEER CV	12.5 ¹ / 11.8 ²	n/a	13.3 ¹ / 13.0 ²	n/a
IEER with Intellispeed	14.4 ¹ / 13.8 ²	n/a	14.4 ¹ / 14.0 ²	n/a
IEER with VAV	n/a	15.2 ¹ / 14.6 ²	n/a	15.1 ¹ / 14.6 ²
CFM	10517	10590	9362	9683
System power (KW)	25.2	24.6	28.4	27.4
Refrigerant type	R-410A	R-410A	R-410A	R-410A
Refrigerant charge (lb-oz)				
System 1	14-12	14-04	14-12	14-12
System 2	13-08	13-14	14-00	13-15
ARI heating performance				
Heating model	N(S)1	N(S)3	N(S)1	N(S)3
Heating type	Stg. Low	Stg. High	Stg. Low	Stg. High
1st stage heat input (K Btu)	320	400	320	400
2nd stage heat input (K Btu)	400	220	400	220
1st stage heat output (K Btu)	259	324	259	324
2nd stage heat output (K Btu)	324	178	324	178
AFUE %	-	-	-	-
Steady state efficiency (%)	81	81	81	81
No. of burners	9	9/5	9	9/5
No. of stages / Turn down	2/1.25	2/1.82	2/1.25	2/1.82
Temperature rise range (°F)	25-40	35-60	20-35	35-55
Gas limit setting (°F) (top/bottom)	150	150/150	150	150/170
Gas piping connection (in.)	3/4	1-1/4	3/4	1-1/4
Dimensions (in.)				
Length	180			
Width	90			
Height	70			
Operating weight (lb)	4078		4105	
Compressors	2 Stage	4 Stage	2 Stage	4 Stage
Type	Scroll	Scroll	Scroll	Scroll
Quantity	2	3	2	3
Unit capacity steps (%)	50 / 100	24 / 51 / 76 /100	50 / 100	24 / 52 / 76 /100
Condenser coil data				
Face area (Sq. Ft.)	51.2		61.6	
Type	MCHX		MCHX	
Thickness (mm)	20		20	
FPI	23		23	
Circuitry type	2-Pass		2-Pass	
Evaporator coil data				
Face area (sq. ft.)	34.4		34.4	
Rows	3		3	
Fins per inch	15		15	
Tube diameter	3/8		3/8	
Circuitry type	Intertwined		Intertwined	
Refrigerant control	TXV		TXV	
Condenser fan data				
Quantity	4		4	
Fan diameter (in.)	30		30	
Type	Prop		Prop	
Drive type	Direct		Direct	
Number of motors	4		4	
Motor HP each	1		1	

Table 2: YV28 to YV30 physical data

Component	Models					
	YV28			YV30		
Nominal tonnage	27.5			30		
RPM	1140			1140		
Nominal total CFM	28530			29800		
Belt drive evap fan data						
Quantity	2			2		
Fan size (in.)	18x18			18x18		
Type	Centrifugal			Centrifugal		
Static range	Std	Med	High	Std	Med	High
Motor sheave	1VP65	2VP60	2VP60	1VP60	1VP68	2VP60
Blower sheave	1B5V124	2B5V94	2B5V86	1B5V124	1B5V110	2B5V90
Belt	BX82	BX75	5VX780	5VX830	5VX830	BX76
Motor HP each	7.5	10.0	15.0	7.5	10.0	15.0
Motor RPM	1800	1800	1800	1800	1800	1800
Frame size	213T	215T	254T	213T	215T	254T
Filters						
Quantity - size	9 - (20 x 20 x 2) ^{3,4}			9 - (20 x 20 x 2) ^{3,4}		
	9 - (20 x 20 x 4) ⁵			9 - (20 x 20 x 4) ⁵		
	3 - (20 x 25 x 2) ^{3,4}			3 - (20 x 25 x 2) ^{3,4}		
	3 - (20 x 25 x 4) ⁵			3 - (20 x 25 x 4) ⁵		
ID Blower power (kW)	2937 / 3565		2905 / 3608	2199 / 2455		2393 / 2656

- 1 Cooling only unit or cooling unit with electric heat
2 Cooling unit with gas heat
3 2 in. throwaway, standard, MERV (Minimum Efficiency Reporting Value) 3
4 Optional 2 in. pleated, MERV 8
5 Optional 4 in. pleated, MERV 13

Table 3: YV35 to YV40 physical data

Component	Models			
	YV35		YV40	
Nominal tonnage	35		40	
ARI cooling performance	2 Stage	4 Stage	2 Stage	4 Stage
Gross capacity @ ARI A point (Btu)	400,295	400,592	436,406	435,211
ARI net capacity (Btu)	388,000	388,000	414,000	414,000
EER	10.7 ¹ / 10.5 ²	10.8 ¹ / 10.5 ²	11.1 ¹ / 10.8 ²	11.1 ¹ / 10.8 ²
IEER CV	13.0 ¹ / 12.5 ²	n/a	12.0 ¹ / 11.4 ²	n/a
IEER with Intellispeed	15.1 ¹ / 14.6 ²	n/a	14.9 ¹ / 14.6 ²	n/a
IEER with VAV	n/a	15.4 ¹ / 15.0 ²	n/a	15.4 ¹ / 15.2 ²
CFM	10679	10517	15348	15093
System power (KW)	32.4	31.9	31.40	30.8
Refrigerant type	R-410A	R-410A	R-410A	R-410A
Refrigerant charge (lb-oz)				
System 1	19-02	19-02	26-08	26.00
System 2	17-13	17-08	25.00	24-08
ARI heating performance				
Heating model	N(S)1	N(S)3	N(S)1	N(S)3
Heating type	Stg. Low	Stg. High	Stg. Low	Stg. High
1st stage heat input (K Btu)	320	400	320	400
2nd stage heat input (K Btu)	400	400	400	400
1st stage heat output (K Btu)	259	324	259	324
2nd stage heat output (K Btu)	324	324	324	324
AFUE %	-	-	-	-
Steady state efficiency (%)	81	81	81	81
No. of burners	9	9/9	9	9/9
No. of stages/turn down	2/1.25	2/1	2/1.25	2/1
Temperature rise range (°F)	20-30	35-60	15-25	35-50
Gas limit setting (°F) (top/bottom)	140	140/160	140	140/140
Gas piping connection (in.)	3/4	1-1/4	3/4	1-1/4

Table 3: YV35 to YV40 physical data

Component	Models					
	YV35			YV40		
Nominal tonnage	35			40		
Dimensions (in.)						
Length	180			232		
Width	90			90		
Height	70			77		
Operating weight (lb)	4191			5742		
Compressors	2 Stage	4 Stage		2 Stage	4 Stage	
Type	Scroll	Scroll		Scroll	Scroll	
Quantity	2	3		2	3	
Unit capacity steps (%)	50 / 100	25 / 50/ 75 / 100		50 / 100	25 / 50/ 75 / 100	
Condenser coil data						
Face area (sq. ft)	61.6			112.4		
Type	MCHX			MCHX		
Thickness (mm)	20			20		
FPI	23			23		
Circuitry type	2-Pass			2-Pass		
Evaporator coil data						
Face area (sq. ft)	34.4			38.9		
Rows	4			4		
Fins per inch	15			15		
Tube diameter	3/8			3/8		
Circuitry type	Intertwined			Intertwined		
Refrigerant control	TXV			TXV		
Condenser fan data						
Quantity	4			4		
Fan diameter (in.)	30			30		
Type	Prop			Prop		
Drive type	Direct			Direct		
Number of motors	4			4		
Motor HP each	1			1		
RPM	1140			1140		
Nominal total CFM	29800			34109		
Belt drive evap fan data						
Quantity	2			2		
Fan size (in.)	18x18			`		
Type	Centrifugal			Centrifugal		
Static range	Std	Med	High	Std	Med	High
Motor sheave	1VP65	2VP60	2VP60	1VP60	1VP75	2VP60
Blower sheave	1B5V124	2B5V94	2B5V86	1B5V124	1B5V136	2B5V94
Belt	BX82	BX75	5VX780	5VX830	5VX880	5VX780
Motor HP each	7.5	10.0	15.0	10.0	15.0	20.0
Motor RPM	1800	1800	1800	1800	1800	1800
Frame size	213T	215T	254T	215T	254T	256T
Filters						
Quantity - size	9 - (20 x 20 x 2) ^{3,4}			4 - (20 x 20 x 2) ^{3,4}		
	9 - (20 x 20 x 4) ⁵			4 - (20 x 20 x 4) ⁵		
	3 - (20 x 25 x 2) ^{3,4}			8 - (20 x 25 x 2) ^{3,4}		
	3 - (20 x 25 x 4) ⁵			8 - (20 x 25 x 4) ⁵		
ID Blower power (kW)	3089 / 3603	3046 / 3690		5778 / 6566	5470 / 6217	

Table 4: YV50 physical data

Component	Models	
	YV50	
Nominal tonnage	50	
ARI cooling performance	2 Stage	4 Stage
Gross capacity @ ARI A point (Btu)	567,149	563,983
ARI net capacity (Btu)	540,000	538,000
EER	10.6 ¹ / 10.4 ²	10.8 ¹ / 10.4 ²
IEER CV	12.2 ¹ / 11.4 ²	n/a
IEER with Intellispeed	15.1 ¹ / 14.9 ²	n/a
IEER with VAV	n/a	16.0 ¹ / 15.8 ²
CFM	16144	15918
System power (KW)	44.4	43.30
Refrigerant type	R-410A	R-410A
Refrigerant charge (lb-oz)		
System 1	35-08	35-08
System 2	32-14	32-08
ARI heating performance		
Heating model	N(S)1	N(S)3
Heating type	Stg. Low	Stg. High
1st stage heat input (K Btu)	320	400
2nd stage heat input (K Btu)	400	400
1st stage heat output (K Btu)	259	324
2nd stage heat output (K Btu)	324	324
AFUE %	-	-
Steady state efficiency (%)	81	81
No. of burners	9	9/9
No. of stages / turn down	2/1.25	2/1
Temperature rise range (°F)	15-20	30-40
Gas limit setting (°F) (top/bottom)	150	150/150
Gas piping connection (in.)	3/4	1-1/4
Dimensions (in.)		
Length	232	
Width	90	
Height	77	
Operating weight (lb)	5984	
Compressors	2 Stage	4 Stage
Type	Scroll	Scroll
Quantity	2	3
Unit capacity steps (%)	50 / 100	25 / 50/ 75 / 100
Condenser coil data		
Face area (sq. ft)	112.4	
Type	MCHX	
Thickness (mm)	25	
FPI	23	
Circuitry type	2-Pass	
Evaporator coil data		
Face area (sq. ft)	38.9	
Rows	5	
Fins per inch	15	
Tube diameter	3/8	
Circuitry type	Intertwined	
Refrigerant control	TXV	
Condenser fan data		
Quantity	4	
Fan diameter (in.)	30	
Type	Prop	
Drive type	Direct	
Number of motors	4	
Motor HP each	2	
RPM	1200	
Nominal total CFM	41676	

Table 4: YV50 physical data

Component	Models		
	YV50		
Nominal tonnage	50		
Belt drive evap fan data			
Quantity	2		
Fan size (in.)	20x18		
Type	Centrifugal		
Static range	Std	Med	High
Motor sheave	1VP60	1VP75	2VP60
Blower sheave	1B5V124	1B5V136	2B5V94
Belt	5VX830	5VX880	5VX780
Motor HP each	10.0	15.0	20.0
Motor RPM	1800	1800	1800
Frame size	215T	254T	256T
Filters			
Quantity - size	4 - (20 x 20 x 2) ^{3,4}		
	4 - (20 x 20 x 4) ⁵		
	8 - (20 x 25 x 2) ^{3,4}		
	8 - (20 x 25 x 4) ⁵		
ID Blower power (kW)	6361 / 7957	6734 / 7615	

Unit limitations

Table 5: YV28 to YV50 unit limitations

Unit voltage	Applied voltage		Outdoor DB temperature
	Minimum	Maximum	Maximum (°F)
208/230-3-60	187	252	125
460-3-60	432	504	125
575-3-60	540	630	125

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.

① Note:

- TC = Total capacity
- SC = Sensible capacity

YV28 Cooling capacity performance

Table 6: YV28 Cooling capacity performance

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temp (°F)												Return dry bulb temp (°F)											
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		75 (°F)												85 (°F)											
6875	77	367.2	179.4	365.6	152.5	365.4	125.4	-	-	-	-	-	-	353.1	174.6	353.2	148.2	353.1	121.2	-	-	-	-	-	-
	72	338.0	209.1	338.0	182.9	337.7	156.1	337.3	128.7	-	-	-	-	326.4	204.6	326.4	178.4	326.1	151.6	325.5	124.1	-	-	-	-
	67	311.7	239.2	311.4	212.8	310.9	186.1	310.3	158.9	309.5	131.1	-	-	300.6	234.3	300.1	208.0	299.6	181.2	298.9	154.0	298.0	126.1	-	-
	62	287.2	262.4	285.3	241.9	285.3	215.6	284.6	188.4	283.9	161.0	283.0	132.8	278.6	254.6	274.6	236.4	274.3	210.1	273.6	183.0	272.9	155.6	271.8	127.5
	57	287.0	263.4	273.1	252.6	259.3	242.2	260.0	216.9	259.1	189.4	258.2	161.6	278.4	255.5	264.6	244.6	250.7	233.5	249.4	211.0	248.5	183.7	247.4	155.8
8250	77	382.1	194.0	381.4	162.9	380.2	130.6	-	-	-	-	-	-	367.0	189.5	367.5	158.4	367.7	126.5	-	-	-	-	-	-
	72	352.2	229.3	352.4	198.3	352.6	166.8	352.4	134.4	-	-	-	-	339.9	224.7	340.0	193.6	340.1	162.1	339.9	129.7	-	-	-	-
	67	325.3	264.4	325.5	233.7	325.3	202.1	325.1	170.2	324.4	137.3	-	-	313.0	259.2	313.5	228.7	313.3	197.1	312.9	165.1	312.3	132.3	-	-
	62	308.8	282.1	298.5	267.7	299.2	237.1	298.5	205.0	297.8	172.4	296.9	139.2	299.6	273.6	286.8	261.2	287.5	231.5	286.8	199.5	285.9	166.9	285.1	133.7
	57	308.6	283.1	293.8	271.5	278.8	259.7	273.1	238.9	272.7	206.7	271.9	173.8	299.4	274.7	284.6	263.0	269.5	250.9	262.0	232.7	261.3	200.6	260.5	167.8
9625	77	384.3	194.9	396.0	173.3	398.9	137.6	-	-	-	-	-	-	377.5	203.5	377.5	167.5	378.2	130.9	-	-	-	-	-	-
	72	363.4	248.4	363.7	212.7	363.9	176.5	363.8	139.3	-	-	-	-	350.5	243.9	350.8	208.1	350.9	171.9	350.6	134.6	-	-	-	-
	67	335.9	288.2	336.2	253.1	336.2	217.0	336.2	180.3	335.8	142.6	-	-	322.6	283.1	323.6	248.0	323.4	211.8	323.3	175.0	322.9	137.4	-	-
	62	326.5	298.1	310.9	286.0	309.1	256.7	309.2	220.3	308.8	183.0	308.0	144.8	316.8	289.2	301.1	277.0	296.5	251.0	296.7	214.5	296.2	177.2	295.4	139.1
	57	326.4	299.3	310.8	287.1	294.9	274.5	282.7	259.1	283.0	222.5	282.0	184.5	316.6	290.3	300.9	278.0	285.1	265.2	270.5	251.8	271.0	216.2	270.0	178.4
11000	77	386.5	195.9	416.2	184.8	405.2	140.8	-	-	-	-	-	-	385.6	216.7	386.0	176.3	386.2	134.9	-	-	-	-	-	-
	72	371.5	266.3	371.9	226.2	372.4	185.4	372.5	143.5	-	-	-	-	358.0	261.6	358.4	221.5	358.8	180.5	359.0	138.8	-	-	-	-
	67	343.1	309.3	345.1	271.7	345.1	231.0	344.9	189.5	344.5	147.1	-	-	331.2	300.8	331.6	266.5	331.9	225.7	331.7	184.3	331.5	142.0	-	-
	62	341.3	311.3	325.1	298.9	317.7	275.6	317.5	234.5	317.3	192.6	316.7	149.8	331.1	302.0	314.8	289.4	304.4	269.7	304.5	228.6	304.2	186.7	303.5	144.0
	57	341.1	312.6	325.0	300.0	308.4	287.0	291.7	273.4	290.9	236.9	290.2	194.4	330.9	303.2	315.0	290.7	298.1	277.3	281.4	263.8	278.3	230.6	277.7	188.2
12375	77	405.8	233.3	418.6	191.6	410.6	144.0	-	-	-	-	-	-	395.6	230.3	392.6	184.3	393.0	138.6	-	-	-	-	-	-
	72	378.8	283.7	378.7	239.0	379.3	193.8	379.5	147.5	-	-	-	-	364.5	278.8	365.0	234.3	365.5	189.0	365.6	142.7	-	-	-	-
	67	353.9	321.3	351.6	289.4	351.9	244.3	352.0	198.3	351.7	151.3	-	-	343.3	311.6	338.6	284.2	338.5	239.1	338.3	192.8	338.0	146.0	-	-
	62	353.8	322.7	337.2	309.8	323.8	293.2	324.5	248.1	324.0	201.4	323.4	154.0	343.1	312.9	326.4	299.8	310.1	286.3	311.3	242.1	310.6	195.5	309.9	148.1
	57	353.6	324.1	337.0	311.0	319.9	297.6	302.6	283.5	296.8	250.5	296.8	203.5	343.0	314.1	326.3	301.1	309.2	287.5	291.8	273.3	283.8	244.3	283.8	197.2
		95 (°F)												105 (°F)											
6875	77	339.1	169.8	339.3	143.4	339.1	116.3	-	-	-	-	-	-	323.2	164.4	323.3	138.0	323.2	111.0	-	-	-	-	-	-
	72	313.2	199.5	313.0	173.3	312.8	146.5	312.2	119.0	-	-	-	-	298.2	193.8	298.0	167.5	297.7	140.7	297.0	113.3	-	-	-	-
	67	287.9	228.8	287.5	202.5	286.9	175.7	286.2	148.5	285.2	120.6	-	-	273.4	222.3	273.3	196.4	272.7	169.6	272.0	142.5	270.9	114.7	-	-
	62	269.0	245.8	262.6	230.2	262.1	204.2	261.4	177.1	260.6	149.8	259.6	121.6	258.4	236.1	248.4	223.5	248.7	197.6	248.0	170.6	247.2	143.3	246.1	115.4
	57	268.8	246.7	255.1	235.7	241.3	224.7	237.5	204.5	236.9	177.4	235.8	149.7	258.3	236.9	244.6	226.1	230.9	215.0	224.9	197.5	224.3	170.6	223.2	143.0
8250	77	352.3	184.7	352.6	153.5	352.3	121.4	-	-	-	-	-	-	335.6	179.3	335.7	148.1	335.7	116.0	-	-	-	-	-	-
	72	325.7	219.5	325.7	188.3	325.7	156.8	325.5	124.4	-	-	-	-	309.8	213.6	309.6	182.4	309.4	150.8	308.9	118.5	-	-	-	-
	67	299.6	253.6	299.8	223.0	299.5	191.3	299.1	159.3	298.4	126.6	-	-	284.2	246.9	284.5	216.6	284.3	185.1	283.8	153.0	282.7	120.2	-	-
	62	289.2	264.1	274.4	252.5	274.4	225.3	273.7	193.4	272.8	160.8	271.8	127.7	277.6	253.4	263.0	241.9	259.6	218.4	259.4	186.6	258.4	154.2	257.2	121.1
	57	289.1	265.1	274.2	253.4	259.3	241.3	248.9	226.1	248.8	194.1	247.9	161.4	277.4	254.4	262.8	242.8	248.0	230.8	235.1	218.2	235.2	187.0	234.3	154.4
9625	77	361.4	198.4	362.1	162.6	362.3	125.8	-	-	-	-	-	-	343.6	192.7	344.3	157.0	344.7	120.3	-	-	-	-	-	-
	72	335.7	238.6	335.9	202.8	335.9	166.4	336.6	129.5	-	-	-	-	319.0	232.5	319.0	196.8	319.1	160.4	318.6	123.2	-	-	-	-
	67	308.4	276.2	309.3	242.1	308.9	205.9	308.7	169.1	308.0	131.5	-	-	293.3	266.4	292.8	235.4	292.9	199.4	292.4	162.6	291.9	125.1	-	-
	62	305.6	279.0	290.1	246.6	283.0	244.5	282.9	208.2	282.2	170.9	281.3	132.9	293.1	267.6	277.8	255.3	267.4	237.7	267.6	201.3	266.9	164.0	266.0	126.2
	57	305.5	280.0	289.9	267.7	274.1	255.0	258.3	242.1	257.8	209.5	256.8	171.7	293.0	268.5	277.6	256.2	262.0	243.7	246.4	230.9	243.4	202.1	242.4	164.5

Table 7: YV28 Cooling capacity performance

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temp (°F)												Return dry bulb temp (°F)											
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		95 (°F)												105 (°F)											
11000	77	369.0	211.6	370.0	171.3	370.2	129.9	-	-	-	-	-	-	350.7	205.8	356.3	166.8	352.0	124.3	-	-	-	-	-	-
	72	342.7	256.2	342.9	216.0	343.3	175.2	343.3	133.4	-	-	-	-	325.1	250.1	325.4	209.9	325.6	168.9	325.7	127.3	-	-	-	-
	67	319.4	290.0	316.7	260.5	316.9	219.8	316.6	178.3	316.2	136.0	-	-	306.2	277.9	300.1	253.6	300.2	213.1	299.9	171.8	299.3	129.6	-	-
	62	319.3	291.3	303.1	278.6	289.9	262.9	290.1	222.2	289.6	180.2	289.0	137.7	306.0	279.1	290.1	266.6	273.9	253.5	274.3	215.0	273.6	173.2	273.0	130.7
	57	319.1	292.4	303.0	279.6	286.5	266.4	269.9	252.9	264.0	223.6	263.8	181.4	305.8	280.2	289.9	267.5	273.7	254.4	257.3	241.0	249.1	215.8	248.7	173.8
12375	77	374.7	223.9	375.6	179.1	376.3	133.5	-	-	-	-	-	-	355.9	218.2	356.8	173.4	357.1	127.6	-	-	-	-	-	-
	72	348.4	273.5	349.0	228.9	349.4	183.3	349.6	137.3	-	-	-	-	330.3	267.3	331.2	222.6	331.7	177.4	331.1	130.9	-	-	-	-
	67	330.9	300.3	322.3	277.8	323.1	233.1	322.8	186.9	322.4	140.1	-	-	317.0	287.5	304.6	271.0	305.9	226.1	305.4	180.0	304.7	133.3	-	-
	62	330.8	301.6	314.2	288.5	297.3	275.0	296.3	235.5	295.7	189.0	294.8	141.7	316.8	288.7	300.6	275.9	283.8	262.5	279.5	228.4	279.3	181.8	278.3	134.6
	57	330.7	302.8	314.1	289.7	297.1	276.3	279.9	262.0	270.1	237.0	269.5	190.2	316.7	289.9	300.4	277.0	283.7	263.5	266.7	249.6	254.1	229.9	254.0	182.6
		115 (°F)												125 (°F)											
6875	77	305.3	158.5	305.3	132.1	305.3	105.1	-	-	-	-	-	-	285.5	160.0	285.6	131.1	285.2	102.0	-	-	-	-	-	-
	72	281.5	187.5	281.2	161.2	280.9	134.5	280.2	107.0	-	-	-	-	262.8	189.6	262.7	160.6	262.4	131.8	261.7	102.6	-	-	-	-
	67	257.6	215.5	257.6	189.6	257.1	163.0	256.3	135.9	255.2	108.1	-	-	239.9	217.7	240.4	189.4	239.8	160.4	239.0	131.5	237.9	102.4	-	-
	62	246.7	225.3	233.3	214.6	234.1	190.5	233.3	163.6	232.4	136.4	231.3	108.5	233.6	223.1	220.5	210.4	217.5	187.7	217.2	158.9	216.1	130.1	215.0	101.4
	57	246.5	226.1	233.0	215.4	219.6	204.4	211.2	189.9	210.5	163.2	209.4	135.8	233.4	223.5	220.3	210.7	207.1	197.8	195.4	184.7	195.4	156.5	194.3	127.9
8250	77	316.5	173.1	316.8	141.9	316.5	109.9	-	-	-	-	-	-	295.4	175.1	295.7	141.2	295.5	106.9	-	-	-	-	-	-
	72	292.0	207.1	291.8	175.9	291.6	144.4	291.2	112.1	-	-	-	-	272.3	209.9	272.1	175.8	271.9	141.8	271.4	107.5	-	-	-	-
	67	266.9	239.5	267.6	209.4	267.5	178.1	267.0	146.2	266.3	113.7	-	-	250.4	238.3	248.7	209.5	248.7	175.5	248.5	141.7	247.6	107.6	-	-
	62	264.7	241.5	250.3	230.1	243.7	210.6	243.6	179.2	242.6	146.9	241.4	114.1	250.2	238.8	236.2	225.2	225.8	208.4	226.3	174.5	225.3	140.4	224.2	106.7
	57	264.5	242.4	250.1	231.0	235.6	219.2	221.1	207.3	220.3	179.1	219.3	146.7	250.0	239.2	236.0	225.5	221.9	211.8	207.8	198.1	204.1	172.1	203.2	138.6
9625	77	323.7	186.5	324.3	150.8	324.6	114.1	-	-	-	-	-	-	301.7	189.0	302.2	150.2	302.1	110.8	-	-	-	-	-	-
	72	300.2	225.7	300.2	190.0	300.1	153.6	304.9	118.3	-	-	-	-	279.2	229.2	279.6	190.2	279.5	151.3	279.2	112.1	-	-	-	-
	67	279.3	253.6	275.5	228.4	275.3	192.2	274.7	155.5	274.0	118.1	-	-	263.7	250.9	255.7	229.0	256.0	190.0	255.4	150.8	254.5	112.0	-	-
	62	279.2	254.6	264.1	242.7	250.6	229.4	250.8	193.4	250.3	156.5	249.3	118.9	263.5	251.3	249.0	237.1	234.1	222.8	232.6	188.7	232.1	150.0	231.1	111.3
	57	279.0	255.7	264.0	243.6	248.7	231.3	233.3	218.6	227.4	194.1	226.8	156.6	263.4	251.8	248.8	237.6	234.0	223.2	219.1	208.7	210.2	186.3	209.8	148.1
11000	77	330.3	199.4	331.1	159.2	331.3	117.9	-	-	-	-	-	-	307.5	202.4	308.3	158.8	308.6	115.0	-	-	-	-	-	-
	72	305.8	243.4	306.0	203.0	306.2	162.2	313.9	123.2	-	-	-	-	284.1	247.5	284.7	203.6	284.5	159.6	284.5	115.9	-	-	-	-
	67	291.3	264.4	280.7	246.6	281.8	205.8	281.3	164.3	280.7	122.3	-	-	274.6	261.2	259.8	247.0	261.8	203.6	261.3	159.9	260.7	116.2	-	-
	62	291.1	265.4	275.6	253.1	259.7	240.3	256.8	207.1	256.0	165.2	255.4	123.3	274.5	261.7	259.5	247.1	244.1	232.1	238.0	202.7	237.2	158.6	236.4	115.3
	57	291.0	266.5	275.4	254.1	259.6	241.2	243.6	228.1	233.0	207.6	232.4	165.7	274.3	262.3	259.3	247.5	244.0	232.6	228.4	217.4	214.9	200.5	214.6	156.7
12375	77	334.8	222.9	335.7	174.4	336.8	125.9	-	-	-	-	-	-	311.4	215.2	312.4	166.8	312.6	118.4	-	-	-	-	-	-
	72	309.8	273.3	311.2	224.6	311.5	175.9	311.3	127.3	-	-	-	-	287.0	264.9	289.3	216.6	288.7	167.8	289.3	119.6	-	-	-	-
	67	301.3	286.5	285.5	270.9	286.9	225.2	287.1	176.8	286.1	127.9	-	-	283.8	269.6	268.5	254.7	265.9	217.0	265.8	168.2	265.2	119.9	-	-
	62	301.2	287.1	286.2	272.5	269.0	255.7	262.0	224.7	261.4	175.6	260.5	127.4	283.6	270.3	268.4	255.2	252.5	240.0	242.1	216.3	242.2	167.3	241.1	119.2
	57	301.0	287.6	285.2	272.2	268.8	256.2	252.3	240.1	237.2	222.7	236.8	174.1	283.5	270.8	268.2	255.8	252.4	240.4	236.4	224.9	220.4	209.2	219.0	165.1

YV30 Cooling capacity performance

Table 8: YV30 Cooling capacity performance

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temp (°F)												Return dry bulb temp (°F)											
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		75 (°F)												85 (°F)											
7500	77	424.9	210.0	423.3	177.6	422.5	145.0	-	-	-	-	-	-	407.4	203.7	406.3	171.8	404.8	139.0	-	-	-	-	-	-
	72	394.6	247.6	393.2	215.2	391.6	182.2	389.9	148.7	-	-	-	-	378.4	240.9	377.0	208.6	375.3	175.8	373.5	142.5	-	-	-	-
	67	365.0	285.3	364.0	252.6	362.1	219.4	360.2	185.8	358.1	151.7	-	-	349.5	277.7	348.2	245.3	346.2	212.4	344.3	179.0	342.3	144.9	-	-
	62	341.0	311.6	335.2	289.0	333.4	256.0	331.6	222.3	329.4	188.1	327.2	153.4	329.0	300.5	320.3	280.7	318.4	248.3	316.6	214.8	314.5	180.9	312.2	146.4
	57	342.3	314.1	324.8	300.2	307.2	286.0	304.3	258.1	302.9	224.3	300.6	189.6	330.2	302.9	312.7	289.1	295.3	274.9	290.6	250.1	288.8	216.5	287.6	182.5
9000	77	441.0	222.0	440.5	190.5	439.7	151.4	-	-	-	-	-	-	423.5	222.6	422.3	184.2	420.6	145.1	-	-	-	-	-	-
	72	411.6	273.7	410.3	234.9	408.6	195.6	406.6	155.4	-	-	-	-	394.2	266.9	392.7	228.1	391.0	188.8	388.7	148.7	-	-	-	-
	67	381.8	317.9	380.2	279.4	378.5	239.8	376.6	199.6	373.9	158.6	-	-	365.3	310.1	363.2	271.7	361.8	232.4	359.6	192.4	357.2	151.7	-	-
	62	367.7	335.7	351.0	320.2	349.3	283.6	347.7	243.4	345.4	202.7	342.6	161.0	354.5	323.7	335.4	308.5	333.6	275.4	331.9	235.8	329.4	194.9	326.6	153.7
	57	369.0	338.6	350.0	323.3	330.9	308.0	319.9	286.3	317.5	245.8	315.2	204.3	355.7	326.3	337.0	311.3	318.1	296.0	304.1	276.6	302.3	237.4	300.2	196.4
10500	77	445.8	243.9	453.5	202.4	452.1	156.9	-	-	-	-	-	-	435.6	240.6	434.0	195.9	432.4	150.5	-	-	-	-	-	-
	72	423.9	298.8	422.7	253.4	421.1	207.8	418.7	161.1	-	-	-	-	405.2	291.5	404.4	246.5	402.6	200.8	400.0	154.4	-	-	-	-
	67	393.7	347.4	392.2	304.5	391.4	258.8	388.7	212.3	385.8	164.7	-	-	376.3	338.0	374.9	296.9	373.4	251.4	371.2	204.9	367.9	157.5	-	-
	62	389.4	355.4	369.1	339.5	361.9	309.5	359.7	263.3	357.2	215.6	353.8	167.3	375.2	342.6	355.3	326.7	345.1	301.0	342.8	255.2	340.4	207.9	337.0	159.7
	57	390.8	358.5	370.5	342.2	350.3	326.1	330.7	309.9	328.4	266.0	326.7	217.9	376.8	345.4	356.7	329.4	336.6	313.1	316.5	296.6	312.8	257.2	310.8	209.8
12000	77	449.5	254.1	463.8	213.6	461.4	161.8	-	-	-	-	-	-	444.2	257.6	442.9	206.8	441.1	155.3	-	-	-	-	-	-
	72	433.1	322.5	432.4	270.9	430.8	219.3	428.1	166.3	-	-	-	-	414.3	314.7	413.5	264.2	411.9	212.4	408.8	159.6	-	-	-	-
	67	405.6	368.4	402.0	328.5	400.4	277.1	398.3	224.1	394.7	170.1	-	-	390.7	354.9	383.8	320.6	382.2	269.3	380.0	216.5	376.4	162.9	-	-
	62	407.5	371.9	386.3	355.2	370.7	332.6	368.4	281.8	366.2	227.9	362.3	172.8	392.4	358.2	371.6	341.6	353.6	322.4	350.5	273.2	348.7	219.8	344.8	165.3
	57	409.1	375.1	387.8	358.3	366.5	340.9	345.1	323.4	338.1	284.8	335.3	230.4	394.1	361.1	373.1	344.5	352.0	327.5	330.9	309.9	321.6	276.3	319.0	222.2
13500	77	453.3	264.5	470.7	224.0	469.1	166.5	-	-	-	-	-	-	451.8	274.4	450.4	217.5	448.2	159.8	-	-	-	-	-	-
	72	441.4	344.6	439.9	288.2	438.5	230.2	435.3	171.1	-	-	-	-	421.4	336.9	420.2	280.7	418.8	223.0	415.3	164.1	-	-	-	-
	67	420.6	382.3	409.6	351.9	408.1	294.7	406.0	235.3	402.0	175.0	-	-	405.2	368.1	390.7	342.6	388.8	286.8	387.3	227.8	383.3	167.8	-	-
	62	422.7	385.9	400.8	368.7	378.9	350.6	376.0	299.5	373.7	239.3	369.4	178.0	406.9	371.3	385.4	354.3	363.5	336.5	358.2	290.6	355.7	231.2	351.6	170.3
	57	424.8	389.3	402.5	371.6	380.3	353.5	357.8	335.2	345.1	303.0	342.0	242.1	408.6	374.5	387.1	357.2	365.1	339.3	343.0	321.3	327.9	293.5	325.0	233.3
		95 (°F)												105 (°F)											
7500	77	388.5	196.9	387.0	164.9	385.7	132.5	-	-	-	-	-	-	367.7	189.6	366.2	157.8	364.7	125.5	-	-	-	-	-	-
	72	360.4	233.6	358.7	201.3	357.1	168.7	355.0	135.4	-	-	-	-	340.8	225.6	339.5	193.6	337.4	161.1	335.2	128.0	-	-	-	-
	67	332.7	269.5	331.2	237.6	329.4	204.7	327.2	171.4	324.9	137.5	-	-	314.5	261.1	312.7	229.0	311.1	196.5	308.8	163.4	306.6	129.9	-	-
	62	315.8	288.4	303.7	271.7	301.6	239.6	300.5	206.7	298.3	173.0	295.9	138.8	301.5	275.6	286.4	261.7	284.8	230.9	283.2	198.1	281.1	164.8	278.6	130.8
	57	317.0	290.8	299.7	276.9	282.6	263.0	275.4	241.5	273.6	208.0	271.4	173.9	302.8	277.6	285.8	264.0	269.1	250.3	259.2	231.9	257.6	199.2	255.4	165.4
9000	77	403.2	215.5	401.8	177.4	400.0	138.2	-	-	-	-	-	-	381.0	207.9	379.7	169.9	377.7	131.1	-	-	-	-	-	-
	72	374.7	259.0	373.5	220.6	371.6	181.5	369.3	141.7	-	-	-	-	353.8	250.7	352.6	212.6	350.6	173.7	348.1	134.0	-	-	-	-
	67	346.3	301.2	344.5	263.5	343.7	224.5	341.3	184.7	338.6	144.2	-	-	327.1	291.1	325.4	254.7	323.9	215.8	321.6	176.4	318.7	136.1	-	-
	62	340.1	310.3	321.4	295.3	316.5	266.7	314.6	227.3	312.1	186.8	309.1	145.8	324.5	295.8	306.3	281.4	298.1	257.4	296.2	218.4	293.8	178.2	290.6	137.5
	57	341.2	312.9	322.7	297.9	304.1	282.8	288.0	266.6	285.7	228.5	283.8	187.8	325.7	298.4	307.4	283.8	289.3	269.0	271.1	253.9	268.5	219.0	266.5	178.7
10500	77	413.8	233.1	412.6	188.8	410.7	143.6	-	-	-	-	-	-	390.6	225.4	389.5	181.2	387.2	136.2	-	-	-	-	-	-
	72	385.0	283.5	384.2	238.8	382.4	193.3	379.3	147.1	-	-	-	-	363.3	274.6	362.3	230.3	360.2	185.1	357.0	139.1	-	-	-	-
	67	358.1	325.1	356.0	288.4	354.2	243.1	351.9	196.9	348.6	149.8	-	-	341.4	309.8	335.2	278.8	333.6	234.4	331.2	188.3	327.8	141.6	-	-
	62	359.7	328.2	340.0	312.6	326.6	291.4	324.5	246.3	322.2	199.5	318.9	151.8	342.8	312.8	323.7	297.4	307.1	280.1	304.8	236.9	302.8	190.5	299.3	143.2
	57	361.1	331.0	341.3	315.1	321.8	299.3	301.9	282.9	296.1	247.9	293.7	200.8	344.2	315.4	324.9	299.8	305.7	284.1	286.3	268.1	278.1	238.3	275.6	191.6
12000	77	422.2	250.3	421.0	199.7	418.6	148.3	-	-	-	-	-	-	398.3	242.2	397.0	191.9	394.5	140.8	-	-	-	-	-	-
	72	393.6	306.2	392.5	256.1	390.7	204.5	387.3	152.0	-	-	-	-	370.5	297.1	369.7	247.6	368.1	196.3	364.5	144.1	-	-	-	-
	67	374.4	339.9	363.7	311.8	362.1	260.7	359.9	208.3	356.1	154.9	-	-	356.6	323.4	342.3	301.1	340.2	251.6	338.8	199.6	334.5	146.5	-	-
	62	376.1	343.0	355.5	326.6	334.8	309.8	332.1	264.1	329.7	211.0	325.9	157.0	358.1	326.6	338.1	310.4	317.9	294.0	312.5	254.5	309.9	201.9	305.8	148.3
	57	377.5	345.9	356.8	329.4	335.9	312.5	315.5	295.4	303.7	266.4	301.2	212.9	359.4	329.4	339.5	313.0	319.3	296.5	299.0	279.7	284.9	256.1	282.5	203.4

Table 9: YV30 Cooling capacity performance continued

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temp (°F)												Return dry bulb temp (°F)											
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		115 (°F)												125 (°F)											
7500	77	345.1	181.7	343.8	150.2	342.1	117.9	-	-	-	-	-	-	320.3	182.4	319.3	148.3	317.6	113.9	-	-	-	-	-	-
	72	319.7	217.1	318.1	185.4	316.3	153.0	314.0	120.1	-	-	-	-	296.8	218.6	303.1	187.1	293.5	149.2	291.2	114.6	-	-	-	-
	67	294.6	251.8	292.9	220.2	291.4	187.8	289.3	155.1	286.8	121.8	-	-	272.6	252.7	271.6	218.8	270.4	184.1	268.3	149.4	265.6	114.6	-	-
	62	286.3	261.2	269.8	248.1	266.9	221.6	265.1	189.2	262.7	156.0	260.1	122.4	269.7	257.3	253.8	241.8	247.5	217.9	245.5	183.1	243.3	148.4	240.6	113.8
	57	287.5	263.4	270.9	250.1	254.6	236.7	241.7	221.4	240.4	189.6	238.4	156.4	270.7	258.9	254.8	243.4	238.9	227.9	223.3	212.6	221.7	181.0	220.1	146.8
9000	77	357.0	199.8	355.6	162.0	353.6	123.4	-	-	-	-	-	-	331.0	201.1	329.8	160.3	327.9	119.4	-	-	-	-	-	-
	72	330.9	242.0	330.1	203.8	328.1	165.2	325.4	125.9	-	-	-	-	306.9	244.1	305.9	202.7	304.1	161.5	301.5	120.3	-	-	-	-
	67	306.1	277.9	304.8	245.2	302.9	206.8	300.6	167.6	297.6	127.7	-	-	287.6	273.6	282.0	244.4	280.4	203.2	278.1	161.6	275.0	120.3	-	-
	62	307.4	280.5	289.8	266.3	277.9	246.9	276.5	208.9	274.3	169.2	271.0	128.8	289.0	275.9	272.0	259.1	256.7	242.1	255.3	202.5	253.5	161.2	250.1	119.9
	57	308.6	282.9	291.0	268.5	273.3	254.0	255.8	239.4	250.5	208.9	248.4	169.4	290.1	277.4	273.1	260.8	256.1	244.1	239.2	227.6	231.5	200.7	229.2	159.5
10500	77	365.5	216.9	364.3	172.9	362.1	128.3	-	-	-	-	-	-	338.4	218.9	337.3	171.5	335.0	124.2	-	-	-	-	-	-
	72	339.9	265.1	338.9	221.5	336.8	176.6	333.6	131.0	-	-	-	-	314.3	268.0	313.5	220.7	311.7	172.8	308.4	125.2	-	-	-	-
	67	323.0	293.2	312.6	269.1	311.4	224.8	309.3	179.2	305.5	132.8	-	-	303.2	288.1	289.2	267.5	287.7	221.3	286.0	173.4	282.3	125.5	-	-
	62	324.5	295.8	306.0	280.8	287.4	265.6	284.7	227.0	282.3	181.0	279.2	135.6	304.6	290.3	286.9	272.8	268.9	255.4	263.0	220.7	260.4	172.7	256.6	124.8
	57	325.8	298.5	307.2	283.3	288.5	267.9	269.8	252.4	258.9	227.7	256.6	181.8	305.8	292.2	287.9	274.6	270.0	257.2	251.9	239.6	238.4	218.4	236.3	171.3
12000	77	372.3	233.4	371.3	183.5	368.2	132.7	-	-	-	-	-	-	344.3	236.1	343.5	182.3	340.5	128.7	-	-	-	-	-	-
	72	346.0	287.9	345.2	238.3	343.7	187.4	340.0	135.7	-	-	-	-	319.4	290.4	319.0	238.2	317.7	183.7	313.8	129.6	-	-	-	-
	67	337.2	305.5	319.2	289.5	317.8	242.0	315.7	190.1	311.5	137.7	-	-	315.9	300.1	297.6	282.0	293.8	238.3	291.7	184.3	287.3	130.0	-	-
	62	338.7	308.5	319.4	292.9	299.8	277.1	290.9	244.3	288.6	192.2	284.4	139.0	317.3	302.4	298.9	284.3	280.2	265.9	268.3	238.1	266.1	183.7	263.0	130.0
	57	340.1	311.2	320.6	295.6	300.9	279.3	281.4	263.1	264.8	244.3	262.6	193.1	318.8	304.4	299.7	285.7	281.4	267.8	262.6	249.5	244.2	231.5	241.6	182.4
13500	77	377.3	262.6	376.6	202.1	373.3	141.7	-	-	-	-	-	-	348.7	252.7	348.3	192.4	344.7	132.7	-	-	-	-	-	-
	72	351.5	323.0	350.2	265.3	348.7	204.1	344.8	143.3	-	-	-	-	325.0	307.4	323.9	254.1	322.1	193.9	318.0	133.7	-	-	-	-
	67	348.9	331.3	329.0	312.1	323.6	266.1	321.1	205.1	316.7	143.9	-	-	326.7	310.0	307.8	291.3	298.2	255.3	296.4	194.6	291.6	134.2	-	-
	62	350.4	333.9	330.6	314.4	310.4	294.5	296.0	266.1	293.8	204.9	289.2	143.7	328.3	312.3	309.2	293.5	289.7	274.8	272.9	253.1	270.8	194.3	266.1	133.7
	57	351.9	336.3	331.9	316.3	311.7	296.7	291.3	276.7	271.2	257.1	267.0	203.7	329.6	314.4	310.4	295.5	290.9	276.6	271.5	257.6	252.3	238.7	245.5	192.7

YV35 Cooling capacity performance

Table 10: YV35 Cooling capacity performance

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temp (°F)												Return dry bulb temp (°F)											
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
75 (°F)														85 (°F)											
8750	77	492.8	245.0	490.1	205.9	487.4	166.9	-	-	-	-	-	-	455.8	243.2	459.0	197.1	469.4	160.7	-	-	-	-	-	-
	72	444.3	284.6	446.2	247.8	448.1	211.0	452.0	172.0	-	-	-	-	422.5	290.0	433.0	242.2	431.5	203.2	432.5	164.5	-	-	-	-
	67	404.5	325.2	411.8	290.8	419.0	256.4	418.8	216.7	419.4	177.1	-	-	390.3	337.7	399.8	287.0	400.5	248.3	401.2	209.0	401.5	169.5	-	-
	62	390.5	360.0	389.1	331.0	387.6	301.9	387.9	262.4	388.1	222.4	388.2	181.6	379.2	360.0	370.7	331.6	371.0	293.3	371.2	254.0	371.2	214.1	371.0	173.6
	57	400.2	370.6	381.6	353.5	363.4	338.8	358.0	307.1	357.7	266.7	357.2	225.9	380.7	363.1	367.7	340.3	349.9	326.3	341.8	298.2	341.5	257.9	340.8	217.1
10500	77	498.2	263.6	519.7	233.4	541.2	203.2	-	-	-	-	-	-	473.8	260.9	474.5	212.2	482.9	166.5	-	-	-	-	-	-
	72	465.6	317.9	467.8	271.0	470.1	224.2	471.0	179.7	-	-	-	-	441.9	319.7	442.9	267.1	448.1	218.3	450.0	172.1	-	-	-	-
	67	427.0	365.2	432.6	324.1	438.2	283.0	436.1	232.7	437.3	185.1	-	-	420.1	364.9	411.2	322.8	416.6	271.8	417.6	224.9	418.3	177.3	-	-
	62	416.0	383.4	409.8	359.1	403.6	334.7	404.8	286.8	405.0	238.6	405.1	189.9	421.9	368.3	392.1	361.2	385.6	325.8	386.7	278.1	386.8	230.1	386.6	181.6
	57	415.2	384.2	402.3	373.7	389.3	363.1	374.2	341.1	374.6	292.9	374.6	243.6	423.7	371.4	393.6	364.3	374.8	349.5	357.9	330.3	357.0	283.6	356.9	234.4
12250	77	511.3	285.5	513.1	232.5	515.0	179.6	-	-	-	-	-	-	486.9	277.5	490.9	225.0	494.8	172.5	-	-	-	-	-	-
	72	477.7	347.8	480.3	294.1	482.9	240.4	485.5	186.7	-	-	-	-	454.9	338.1	457.2	291.6	460.2	232.9	462.0	178.4	-	-	-	-
	67	448.0	408.0	449.4	356.0	450.9	304.1	449.7	248.0	451.0	192.3	-	-	433.3	386.3	424.3	355.5	428.5	294.8	429.7	239.9	431.2	184.6	-	-
	62	450.2	411.2	431.8	391.2	413.5	371.1	417.1	310.7	417.9	254.4	418.3	197.5	435.4	389.4	414.8	382.0	397.3	356.5	398.3	301.6	399.0	245.7	399.2	189.0
	57	451.7	414.7	431.3	398.8	410.9	382.9	390.0	366.3	386.3	317.3	386.7	259.6	436.9	392.7	416.5	385.2	394.8	367.9	374.6	351.8	368.1	307.7	368.2	250.2
14000	77	520.9	306.8	527.4	247.3	533.9	187.9	-	-	-	-	-	-	495.6	298.6	501.1	238.8	506.6	178.9	-	-	-	-	-	-
	72	487.7	377.4	482.5	313.3	477.2	249.2	494.8	192.6	-	-	-	-	463.9	369.4	463.5	307.7	470.8	247.2	472.5	184.8	-	-	-	-
	67	467.4	425.3	464.1	375.9	460.7	326.4	458.9	262.3	460.9	198.7	-	-	453.4	399.0	430.3	377.0	436.4	316.4	438.4	253.9	440.2	190.6	-	-
	62	469.6	429.2	455.3	397.3	441.0	365.4	426.7	333.4	427.8	269.4	428.4	204.3	455.5	402.8	429.2	389.0	409.8	380.1	407.1	324.1	407.9	260.3	408.3	195.5
	57	471.5	433.0	449.8	416.0	428.2	398.9	406.5	381.9	395.8	340.3	396.3	275.0	457.3	406.3	430.6	392.2	411.5	383.4	390.5	366.6	377.1	330.6	377.3	265.4
15750	77	528.3	327.6	530.4	259.5	532.6	191.3	-	-	-	-	-	-	502.3	318.9	507.1	251.4	512.0	183.8	-	-	-	-	-	-
	72	494.6	403.0	495.9	337.0	497.2	271.0	502.3	198.1	-	-	-	-	474.4	390.5	472.6	332.0	477.9	260.5	480.0	190.5	-	-	-	-
	67	474.0	454.2	467.9	403.0	461.7	351.8	468.4	276.7	469.4	204.9	-	-	477.4	394.9	449.9	394.0	443.8	338.1	446.1	267.9	448.1	196.7	-	-
	62	476.2	458.4	462.8	426.1	448.3	391.0	433.9	355.8	435.8	283.9	436.8	210.7	479.2	398.6	452.1	398.0	423.6	392.8	413.9	346.4	415.8	274.9	416.2	201.9
	57	478.1	462.5	464.6	429.8	442.4	412.2	420.3	394.6	403.0	363.1	403.9	289.7	481.1	402.1	453.8	401.4	425.3	396.1	403.6	378.7	384.4	353.1	384.4	280.0
95 (°F)														105 (°F)											
8750	77	443.1	227.6	440.3	189.1	442.2	151.7	-	-	-	-	-	-	415.3	218.5	416.5	181.1	418.7	143.9	-	-	-	-	-	-
	72	410.7	271.4	409.7	233.5	411.1	195.3	412.1	156.9	-	-	-	-	385.7	262.3	387.4	224.8	388.7	186.8	389.7	148.5	-	-	-	-
	67	379.4	316.1	380.5	278.3	381.2	239.8	381.7	200.9	382.0	161.3	-	-	358.0	306.8	359.3	268.8	360.1	230.6	360.4	191.8	360.7	152.5	-	-
	62	368.6	336.9	353.5	320.7	352.9	284.1	352.7	244.9	352.5	205.2	352.2	164.8	352.0	321.7	335.1	308.5	332.4	274.1	332.6	235.2	332.4	195.6	331.9	155.5
	57	370.0	339.8	352.7	326.4	335.2	312.4	324.3	287.9	323.7	248.1	323.0	207.6	353.3	324.3	336.3	311.1	319.1	297.4	305.3	277.5	304.8	237.8	304.0	197.7
10500	77	441.3	254.5	454.9	203.4	457.7	158.3	-	-	-	-	-	-	472.8	254.0	429.5	195.1	432.9	150.3	-	-	-	-	-	-
	72	411.7	311.9	424.6	256.0	426.1	210.3	428.2	164.2	-	-	-	-	398.3	292.5	400.9	247.0	402.5	201.5	404.4	155.6	-	-	-	-
	67	391.3	356.0	394.2	309.4	396.0	262.9	396.5	216.1	397.4	168.9	-	-	374.2	340.8	371.5	299.6	373.3	253.4	374.0	206.8	374.6	159.8	-	-
	62	393.0	359.3	376.0	346.2	366.3	315.9	366.9	268.8	367.0	221.0	366.6	172.5	375.8	343.6	358.2	329.7	343.6	305.4	345.3	258.8	347.6	211.9	345.0	162.9
	57	394.7	362.4	377.4	349.1	358.8	334.3	339.8	319.6	338.2	273.5	337.9	224.8	377.3	346.4	359.5	332.5	341.2	318.0	322.5	302.8	317.9	262.5	317.5	214.2
12250	77	451.2	277.8	468.4	218.0	469.4	164.5	-	-	-	-	-	-	440.4	261.8	439.4	208.8	443.6	156.4	-	-	-	-	-	-
	72	420.0	343.9	436.0	278.1	436.4	224.2	439.2	170.4	-	-	-	-	410.0	324.0	409.7	268.5	412.0	215.4	414.5	161.8	-	-	-	-
	67	410.9	373.3	404.7	339.0	406.7	285.5	408.0	231.0	409.1	175.7	-	-	394.3	358.6	381.0	329.8	383.0	275.8	384.4	221.3	385.3	166.4	-	-
	62	412.9	377.2	395.5	364.2	377.9	345.5	377.3	292.2	378.1	236.2	378.0	179.8	394.8	360.8	376.5	346.8	357.4	331.5	354.8	281.8	355.5	226.0	355.3	169.9
	57	414.3	380.4	397.2	367.3	377.6	351.8	357.8	335.9	348.4	297.3	348.3	240.0	396.9	364.3	378.2	349.8	359.0	334.4	339.5	318.6	327.3	285.8	327.1	229.3
14000	77	457.1	300.5	480.9	232.6	478.3	170.2	-	-	-	-	-	-	447.6	282.8	447.1	222.0	452.0	162.1	-	-	-	-	-	-
	72	427.7	373.8	444.8	299.8	446.0	238.3	448.9	176.6	-	-	-	-	419.0	347.9	417.0	289.6	420.3	229.2	423.2	167.7	-	-	-	-
	67	426.5	387.6	413.0	367.3	414.1	307.2	416.0	245.0	418.1	182.0	-	-	396.8	376.0	390.1	356.7	389.5	296.8	391.7	235.2	392.9	172.4	-	-
	62	428.5	391.5	411.9	378.9	391.8	363.4	385.7	314.7	386.5	250.7	386.6	186.2	410.8	375.3	391.8	360.4	372.0	344.8	361.9	304.2	363.2	240.4	363.2	176.1
	57	430.2	394.8	413.3	382.0	393.4	366.4	372.6	349.6	356.4	320.1	356.5	255.0	402.4	385.0	393.2	363.5	373.5	347.8	353.3	331.3	335.1	308.3	334.4	243.9

Table 11: YV35 Cooling capacity performance continued

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temp (°F)												Return dry bulb temp (°F)											
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		115 (°F)												125 (°F)											
8750	77	388.2	209.2	391.0	172.5	393.1	135.5	-	-	-	-	-	-	360.3	199.8	362.6	163.2	365.5	126.5	-	-	-	-	-	-
	72	361.5	252.8	363.1	215.4	364.4	177.8	365.7	139.7	-	-	-	-	335.0	242.5	338.4	206.1	338.1	168.0	339.3	130.2	-	-	-	-
	67	336.6	295.5	336.5	258.5	337.2	220.8	337.4	182.1	337.6	143.1	-	-	312.8	284.0	311.2	248.1	312.5	210.2	312.8	171.8	313.0	133.1	-	-
	62	333.8	305.1	322.2	284.2	310.6	263.3	310.8	224.6	310.6	185.4	310.0	145.5	313.9	286.8	298.0	274.2	286.9	252.5	287.3	213.5	287.3	174.6	286.7	135.0
	57	335.0	307.5	318.6	294.7	301.8	281.2	285.9	265.2	284.3	227.0	283.6	187.2	315.2	289.2	299.2	276.5	282.8	263.4	266.3	249.6	262.3	215.8	261.6	176.1
10500	77	399.6	230.4	402.3	186.3	406.2	141.9	-	-	-	-	-	-	370.7	220.7	373.5	176.9	377.2	132.9	-	-	-	-	-	-
	72	372.7	282.3	374.8	237.2	376.8	192.1	378.9	146.6	-	-	-	-	343.9	271.8	346.6	227.1	348.8	181.9	351.1	136.8	-	-	-	-
	67	354.3	322.2	347.4	289.0	348.7	243.4	349.7	196.9	350.2	150.1	-	-	332.7	302.2	321.1	278.5	322.4	232.5	323.6	186.2	324.0	139.9	-	-
	62	355.8	325.2	338.7	311.6	323.3	293.6	322.2	247.9	322.5	200.6	321.9	152.7	334.3	305.3	317.7	292.3	300.4	278.5	297.6	236.4	297.9	189.4	297.2	142.0
	57	357.3	328.0	340.1	314.3	322.2	300.2	304.1	285.3	295.8	251.4	295.6	203.2	335.6	307.8	318.9	294.8	301.6	280.9	284.1	266.4	272.7	238.9	272.2	191.4
12250	77	408.5	251.5	411.7	199.9	415.8	147.7	-	-	-	-	-	-	376.9	241.2	381.3	190.2	385.6	138.5	-	-	-	-	-	-
	72	380.3	311.2	383.9	258.8	385.4	205.7	387.8	152.5	-	-	-	-	351.5	300.4	353.8	248.4	357.0	195.6	359.2	142.7	-	-	-	-
	67	372.0	337.8	356.8	317.7	357.2	265.5	359.0	211.1	359.9	156.5	-	-	348.6	316.7	331.6	303.6	329.8	253.9	331.7	200.2	332.5	146.1	-	-
	62	373.8	341.4	355.7	327.3	337.3	312.6	330.7	270.6	331.4	215.1	331.1	159.3	350.1	319.8	333.1	306.3	315.4	291.9	305.1	258.3	305.8	203.6	305.1	148.4
	57	375.1	344.3	357.2	330.2	338.5	315.2	319.7	299.7	304.1	274.6	304.0	217.7	351.6	322.5	334.5	308.9	316.7	294.5	298.3	279.6	280.9	261.2	279.8	205.9
14000	77	413.8	271.9	417.7	212.6	423.3	153.4	-	-	-	-	-	-	381.8	261.4	387.2	203.0	392.3	144.1	-	-	-	-	-	-
	72	387.3	338.3	389.6	279.5	392.8	219.3	395.5	158.3	-	-	-	-	359.6	324.6	359.6	269.2	363.3	208.9	365.8	148.4	-	-	-	-
	67	386.1	350.8	368.0	336.5	363.4	286.4	365.3	224.6	366.4	162.3	-	-	361.5	328.1	344.3	314.7	335.4	275.2	337.3	213.6	338.2	151.6	-	-
	62	387.9	354.4	369.7	339.8	350.8	324.8	336.4	292.5	338.3	229.2	338.1	165.5	363.2	331.5	345.9	317.7	327.7	303.2	311.5	280.1	312.0	217.5	311.6	154.4
	57	389.5	357.3	371.2	342.7	352.1	327.7	332.5	311.6	312.4	295.0	310.9	232.4	364.7	334.2	347.3	320.4	329.1	306.0	310.1	290.3	290.7	274.1	285.7	220.1
15750	77	419.2	291.8	423.7	225.6	429.7	158.8	-	-	-	-	-	-	386.7	281.4	391.8	215.4	397.6	149.4	-	-	-	-	-	-
	72	396.0	357.3	394.1	300.0	398.2	232.3	401.3	163.7	-	-	-	-	370.3	333.8	363.8	289.5	368.0	221.7	371.0	153.5	-	-	-	-
	67	398.5	361.3	379.7	346.8	369.2	307.2	371.3	238.3	372.5	168.1	-	-	372.4	337.8	355.0	324.0	340.4	296.1	342.9	227.0	343.7	157.2	-	-
	62	400.0	364.7	381.6	350.4	362.0	335.0	343.7	313.4	343.9	242.8	343.7	171.2	374.1	341.1	356.5	327.3	337.9	312.4	318.7	296.9	316.5	230.8	316.7	160.0
57	401.6	367.9	383.1	353.4	363.5	337.9	343.3	321.5	322.8	304.4	216.3	246.3	375.7	344.1	357.9	330.2	339.3	315.2	320.0	298.9	300.1	282.2	290.4	233.4	

YV40 Cooling capacity performance

Table 12: YV40 Cooling capacity performance

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temp (°F)												Return dry bulb temp (°F)											
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		75 (°F)												85 (°F)											
10000	77	550.3	276.7	547.1	232.0	545.4	187.2	-	-	-	-	-	-	524.0	267.0	520.8	222.6	517.5	177.7	-	-	-	-	-	-
	72	505.9	325.1	502.9	280.2	499.4	234.8	496.1	189.1	-	-	-	-	481.2	314.4	478.2	270.0	474.7	225.0	471.3	179.7	-	-	-	-
	67	463.6	372.5	460.5	327.8	457.6	282.5	454.1	236.8	450.6	190.7	-	-	440.4	360.9	437.4	316.6	434.6	271.8	431.2	226.6	427.7	181.0	-	-
	62	437.7	401.1	420.3	373.5	417.4	329.0	414.4	283.5	411.3	237.4	407.9	191.2	419.8	384.5	400.2	360.7	396.5	317.6	393.5	272.6	390.3	227.1	386.9	181.3
	57	436.9	402.1	412.7	382.7	389.2	363.6	378.3	329.5	375.7	284.0	372.6	237.7	419.0	385.5	395.2	366.4	372.0	347.3	358.0	317.9	355.7	272.4	352.6	226.7
12000	77	570.8	301.9	567.5	248.5	565.5	195.2	-	-	-	-	-	-	543.2	291.8	539.8	238.9	536.3	185.6	-	-	-	-	-	-
	72	525.5	359.1	522.4	305.7	519.2	251.9	515.6	197.5	-	-	-	-	498.8	347.6	496.3	295.0	492.9	241.6	489.4	187.9	-	-	-	-
	67	482.5	415.1	479.8	362.5	476.7	308.8	473.1	254.1	469.6	199.6	-	-	458.2	402.1	455.4	350.6	452.0	297.4	448.7	243.6	445.0	189.5	-	-
	62	470.2	430.9	443.9	409.8	436.0	364.3	432.9	310.2	429.4	255.5	425.8	200.4	450.3	412.6	424.8	391.9	413.2	352.0	410.4	298.7	407.1	244.6	403.5	190.3
	57	469.4	431.8	443.1	410.9	417.1	389.7	395.6	363.8	391.9	310.5	389.1	255.9	449.6	413.7	424.1	392.8	398.6	372.2	375.6	349.1	371.0	298.6	367.9	244.5
14000	77	585.5	325.5	582.5	264.0	580.5	202.2	-	-	-	-	-	-	556.7	315.1	553.5	254.1	549.7	192.5	-	-	-	-	-	-
	72	540.2	391.4	537.4	329.8	534.1	267.7	530.3	204.9	-	-	-	-	513.2	379.5	510.2	318.8	506.9	257.2	502.9	195.1	-	-	-	-
	67	500.6	450.1	493.9	394.9	490.6	332.8	487.5	270.4	483.6	207.1	-	-	476.4	434.3	468.1	382.2	464.9	321.2	461.7	259.2	458.0	196.9	-	-
	62	496.7	455.1	468.7	432.8	449.4	397.3	446.4	335.2	443.2	272.0	439.3	208.5	475.6	435.7	448.1	413.5	426.3	383.7	422.9	323.1	419.6	260.7	415.8	198.0
	57	495.8	456.3	467.9	433.9	440.3	411.2	412.8	388.6	405.0	335.8	401.7	272.5	474.8	436.5	447.2	414.5	420.5	392.4	393.9	370.6	383.0	323.3	379.7	260.8
16000	77	596.9	348.2	593.8	278.6	591.6	208.8	-	-	-	-	-	-	567.3	337.5	564.1	268.3	560.3	198.8	-	-	-	-	-	-
	72	551.6	422.3	548.6	352.8	545.3	282.5	541.1	211.5	-	-	-	-	523.2	410.0	520.4	341.3	517.2	271.8	512.9	201.4	-	-	-	-
	67	519.6	473.9	504.4	426.7	501.6	356.6	498.3	285.5	494.3	214.0	-	-	496.9	453.1	478.1	413.3	475.1	344.4	472.0	274.3	467.7	203.6	-	-
	62	518.6	475.2	489.4	451.7	463.1	424.1	457.2	358.6	453.7	287.4	449.8	215.6	496.4	454.5	467.5	431.4	439.5	408.4	432.9	346.4	429.2	275.7	425.1	204.7
	57	517.7	476.6	488.6	452.8	459.4	429.1	430.9	405.2	414.7	360.1	412.0	288.3	495.6	455.6	466.9	432.3	438.7	409.1	410.9	386.1	392.0	347.4	389.4	276.4
18000	77	605.8	370.1	602.8	292.5	600.5	214.8	-	-	-	-	-	-	575.3	359.0	572.2	281.9	568.3	204.4	-	-	-	-	-	-
	72	560.6	452.0	557.2	375.1	554.2	296.6	550.2	217.7	-	-	-	-	531.1	440.3	528.4	363.3	525.4	285.7	521.2	207.6	-	-	-	-
	67	538.1	490.7	514.0	455.4	510.7	378.9	507.4	300.0	502.9	220.4	-	-	514.8	469.1	488.5	439.0	483.6	366.3	480.3	288.5	476.0	209.7	-	-
	62	537.3	492.3	506.8	467.8	476.8	442.9	465.8	381.7	462.3	302.2	458.1	222.1	513.9	470.7	484.3	446.3	454.6	422.3	440.3	368.4	437.1	290.1	432.9	211.0
	57	536.4	493.7	506.0	469.0	476.1	444.1	446.1	419.5	423.1	382.8	419.7	303.0	513.2	471.9	483.5	447.5	454.0	423.5	425.1	399.3	400.5	368.5	396.9	290.9
95 (°F)														105 (°F)											
10000	77	495.7	256.8	492.4	212.6	489.3	168.2	-	-	-	-	-	-	465.5	245.7	462.4	202.2	459.2	158.3	-	-	-	-	-	-
	72	454.8	303.1	451.8	259.1	448.5	214.7	445.1	169.9	-	-	-	-	426.9	291.3	424.1	247.8	420.7	203.9	417.4	159.7	-	-	-	-
	67	415.6	348.5	412.8	304.8	410.1	260.6	406.8	215.8	403.5	170.9	-	-	389.7	335.7	387.3	292.6	384.3	248.7	381.3	204.8	377.8	160.3	-	-
	62	400.5	366.6	379.3	346.0	374.1	305.6	371.1	261.1	367.9	216.1	364.5	171.1	379.9	347.8	357.6	329.7	349.8	293.0	347.4	249.1	344.2	204.7	340.9	160.3
	57	399.7	367.5	376.7	349.1	354.0	330.5	337.4	305.1	335.1	260.7	332.1	215.7	379.2	348.6	356.9	330.5	334.9	312.6	316.4	291.1	313.1	248.3	310.4	204.0
12000	77	513.3	281.0	509.9	228.6	506.3	175.8	-	-	-	-	-	-	481.4	269.5	478.1	217.7	474.6	165.6	-	-	-	-	-	-
	72	471.0	335.8	468.4	283.7	465.1	230.9	461.4	177.7	-	-	-	-	441.7	323.2	438.9	271.8	435.6	219.6	431.9	167.1	-	-	-	-
	67	434.2	386.9	429.4	338.2	426.1	285.4	422.8	232.4	419.1	179.0	-	-	408.0	371.1	402.1	325.2	399.0	273.4	395.7	220.9	391.9	168.1	-	-
	62	429.2	393.1	404.2	372.9	388.7	339.3	386.2	286.4	383.2	233.2	379.5	179.4	406.8	372.4	382.5	352.7	363.6	325.5	361.1	273.8	358.0	221.1	354.4	168.3
	57	428.5	394.0	403.5	373.8	379.1	353.7	354.9	333.9	349.3	286.3	346.1	232.9	406.1	373.6	381.8	353.5	358.0	334.0	334.8	314.6	325.6	273.5	322.8	220.5
14000	77	525.5	303.8	522.2	243.3	518.6	182.5	-	-	-	-	-	-	492.5	291.9	489.3	232.3	485.5	171.9	-	-	-	-	-	-
	72	484.0	367.1	481.1	307.1	477.8	246.2	473.8	184.7	-	-	-	-	452.9	353.9	450.2	294.8	447.0	234.4	443.1	173.9	-	-	-	-
	67	453.3	413.3	440.4	370.0	437.7	309.1	434.7	247.8	430.8	186.1	-	-	429.6	391.3	412.1	356.0	409.4	296.3	406.3	235.7	402.4	175.0	-	-
	62	452.5	414.6	426.1	392.9	402.6	367.7	398.0	310.2	394.5	248.9	390.7	186.9	428.6	392.4	403.1	371.4	377.6	350.6	371.9	297.3	368.4	236.5	364.5	175.3
	57	451.9	415.4	425.3	393.8	399.2	372.3	373.7	351.2	359.7	310.4	356.8	248.7	428.1	393.4	402.4	372.4	377.0	351.3	352.2	330.7	335.1	297.0	332.6	235.9
16000	77	535.1	325.7	532.1	257.4	528.0	188.5	-	-	-	-	-	-	500.8	313.5	498.1	246.0	494.2	177.9	-	-	-	-	-	-
	72	493.1	396.8	490.2	329.3	487.0	260.2	482.9	190.9	-	-	-	-	461.0	384.0	458.3	316.6	455.5	248.3	451.4	179.8	-	-	-	-
	67	473.4	431.1	450.8	399.3	447.4	331.6	444.0	262.4	439.9	192.6	-	-	448.0	407.6	423.4	381.2	418.0	318.2	414.7	250.0	410.5	181.0	-	-
	62	472.5	432.5	444.5	409.7	416.9	387.1	406.8	333.2	403.4	263.5	399.3	193.4	447.2	408.6	420.0	386.9	393.3	364.9	379.3	319.5	376.3	250.7	372.3	181.6
	57	471.6	433.6	443.8	410.7	416.3	388.2	389.4	365.6	368.4	333.0	365.7	263.8	446.4	409.8	419.3	387.9	392.7	365.9	366.7	344.0	344.0	317.9	340.5	250.5
18000	77	542.4	347.0	539.7	271.0	535.4	194.1	-	-	-	-	-	-	508.0	334.8	505.0	259.3	500.7	183.5	-	-	-	-	-	-
	72	500.7	425.7	497.9	350.6	494.5	273.8	490.4	196.7	-	-	-	-	469.0	409.7	465.8	337.2	462.4	261.8	458.1	185.5	-	-	-	-
	67	490.0	445.9	461.3	421.6	454.7	353.3	451.7	276.4	447.2	198.4	-	-	463.4	421.6	435.2	398.4	424.2	339.3	421.6	263.4	417.3	186.8	-	-
	62	489.2	447.2	460.0	423.8	431.4	400.1	413.3	355.4	410.6	277.5	406.3	199.4	462.6	422.7	434.5	399.5	406.6	377.0	385.8	340.7	384.9	265.4	378.7	187.4
	57	488.4	448.7	459.3	425.0	430.8	401.3	402.7	377.7	376.															

Table 13: YV40 Cooling capacity performance continued

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temp (°F)												Return dry bulb temp (°F)											
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		115 (°F)												125 (°F)											
10000	77	433.7	234.3	430.7	191.3	427.4	147.9	-	-	-	-	-	-	400.3	234.1	397.4	187.9	394.1	142.1	-	-	-	-	-	-
	72	401.8	280.7	394.7	235.9	391.5	192.6	388.2	149.0	-	-	-	-	366.8	279.7	363.9	232.9	360.9	187.0	357.7	141.3	-	-	-	-
	67	363.6	321.0	360.4	279.7	357.5	236.6	354.4	193.2	351.1	149.5	-	-	336.6	319.7	331.3	277.2	329.2	230.8	326.4	185.2	323.1	140.0	-	-
	62	357.7	327.5	336.6	310.3	324.5	279.9	322.5	236.5	319.5	192.9	316.1	149.0	335.2	320.8	314.3	300.3	298.3	273.5	296.4	227.7	293.8	182.7	290.5	137.9
	57	357.6	328.6	336.0	311.0	314.7	293.5	294.3	275.7	290.2	235.3	287.5	191.7	334.6	320.9	313.6	300.5	293.3	280.6	273.3	261.1	265.9	224.3	263.6	179.2
12000	77	447.8	257.6	444.7	206.5	441.5	155.0	-	-	-	-	-	-	412.4	258.3	409.5	203.2	405.8	148.8	-	-	-	-	-	-
	72	410.7	310.3	407.9	259.5	404.7	207.9	401.1	156.0	-	-	-	-	377.9	311.6	374.9	256.6	372.4	202.2	369.0	148.2	-	-	-	-
	67	383.7	349.5	372.7	312.4	370.3	260.6	367.3	208.8	363.5	156.7	-	-	358.7	342.0	342.7	309.1	340.3	254.6	337.4	200.5	333.7	146.8	-	-
	62	382.9	350.5	359.6	331.3	338.9	309.3	335.0	260.6	331.8	208.8	328.2	156.7	358.1	342.3	335.5	320.5	313.3	298.7	307.0	252.1	304.5	197.9	301.1	145.1
	57	382.5	351.4	359.1	332.2	336.1	313.3	313.7	294.3	301.1	259.5	298.6	207.7	357.4	342.5	334.8	320.6	312.8	299.0	291.2	277.8	275.4	247.7	273.4	194.4
14000	77	457.4	279.5	454.7	220.6	450.9	161.1	-	-	-	-	-	-	420.8	281.0	418.1	217.6	414.6	155.1	-	-	-	-	-	-
	72	420.2	340.6	417.7	281.8	415.0	222.4	411.0	162.6	-	-	-	-	386.1	342.8	384.2	279.7	381.3	216.8	377.6	154.6	-	-	-	-
	67	404.1	367.7	383.6	340.7	379.7	282.8	376.5	223.3	372.8	163.3	-	-	377.0	359.4	353.1	335.6	348.5	277.0	345.8	215.0	342.2	153.3	-	-
	62	403.4	368.8	378.5	348.5	354.0	328.3	344.0	283.8	340.9	223.5	337.1	163.4	376.3	359.8	352.6	336.3	329.0	313.5	315.3	275.0	312.6	212.5	308.8	151.3
	57	402.7	369.8	377.9	349.5	353.5	329.2	329.6	309.2	315.8	285.1	307.4	222.6	375.7	360.0	352.1	336.5	328.5	313.7	305.6	291.4	284.8	267.9	281.0	208.8
16000	77	465.1	301.0	462.5	234.2	458.5	166.8	-	-	-	-	-	-	427.8	303.0	424.9	231.2	421.3	160.8	-	-	-	-	-	-
	72	428.1	369.1	425.2	302.7	422.5	236.0	418.3	168.4	-	-	-	-	395.3	368.2	390.8	301.3	387.8	230.3	384.3	160.3	-	-	-	-
	67	420.8	382.8	394.9	361.3	387.2	304.6	384.3	237.1	380.5	169.3	-	-	392.2	373.5	367.8	349.8	355.6	299.9	352.6	228.7	347.9	158.7	-	-
	62	420.1	384.0	394.2	362.3	368.5	341.3	351.0	305.8	348.0	237.3	344.1	169.3	391.6	374.1	366.5	349.5	342.2	325.7	321.8	295.6	318.8	226.1	315.0	157.1
	57	419.5	385.1	393.6	363.4	367.9	342.3	342.9	321.3	318.6	300.6	314.4	236.9	391.0	374.2	366.2	349.8	341.7	325.9	317.9	302.6	294.7	279.7	287.7	222.5
18000	77	471.8	338.5	468.6	257.9	464.5	178.3	-	-	-	-	-	-	433.3	323.9	430.7	244.7	426.6	166.2	-	-	-	-	-	-
	72	437.3	410.9	431.8	337.6	428.7	257.3	424.3	177.9	-	-	-	-	405.7	385.2	396.1	322.7	393.4	243.4	389.7	165.6	-	-	-	-
	67	435.1	414.2	407.9	388.1	396.3	337.9	390.5	255.9	386.1	177.0	-	-	404.9	385.3	379.4	360.3	360.2	320.4	357.9	241.8	353.6	164.2	-	-
	62	434.3	414.9	407.2	388.4	380.7	362.5	357.7	331.2	353.5	253.4	350.4	175.4	404.4	385.9	378.7	360.6	353.4	335.8	328.9	311.8	324.1	239.0	320.2	162.4
	57	433.7	415.2	406.7	388.8	380.1	362.6	354.3	337.3	329.0	312.4	320.3	250.1	403.9	386.4	378.3	361.0	353.0	336.2	328.3	311.9	304.1	288.3	292.7	236.1

YV50 Cooling capacity performance

Table 14: YV50 Cooling capacity performance

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temp (°F)												Return dry bulb temp (°F)											
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		75 (°F)												85 (°F)											
12500	77	677.3	341.4	677.6	287.3	677.9	232.4	-	-	-	-	-	-	650.1	332.1	650.1	277.9	650.2	223.1	-	-	-	-	-	-
	72	631.4	406.1	631.0	351.5	630.4	296.1	630.3	240.1	-	-	-	-	605.5	395.0	605.3	341.6	604.9	286.4	604.3	230.2	-	-	-	-
	67	585.4	471.2	585.0	416.0	584.5	360.3	583.8	303.8	582.9	246.4	-	-	560.3	461.7	560.6	405.6	560.0	349.7	559.1	293.2	558.1	235.9	-	-
	62	558.4	510.4	539.1	481.5	539.0	425.9	538.2	367.9	537.3	309.8	535.5	250.9	539.8	493.3	516.2	469.5	515.4	414.7	514.9	357.1	514.2	299.5	512.9	240.8
	57	560.4	514.7	533.3	493.2	505.5	471.2	492.1	431.5	491.8	372.5	490.7	313.5	541.7	497.3	515.0	476.2	488.2	455.0	471.9	419.6	470.9	362.0	469.8	302.8
15000	77	702.1	373.6	702.4	308.4	702.9	242.3	-	-	-	-	-	-	673.0	364.1	673.2	298.9	673.5	232.8	-	-	-	-	-	-
	72	654.9	450.1	654.3	384.5	653.9	317.7	654.0	250.2	-	-	-	-	626.8	439.7	626.8	374.0	626.9	307.8	626.5	240.2	-	-	-	-
	67	608.3	526.7	608.6	461.2	608.1	394.4	607.5	326.4	606.7	257.4	-	-	582.8	514.5	582.7	450.2	581.8	383.3	581.1	315.6	580.1	246.7	-	-
	62	599.2	547.6	570.5	524.9	562.6	471.6	561.8	402.6	560.7	333.2	559.4	262.9	578.7	528.7	550.2	506.4	537.2	460.9	536.9	391.0	535.7	321.8	534.3	251.6
	57	601.5	551.9	572.5	529.4	543.4	506.2	516.2	477.6	515.4	409.6	514.8	338.2	581.0	533.2	552.3	510.6	523.3	487.3	494.5	464.2	492.6	398.7	491.8	327.0
17500	77	719.1	404.3	719.8	328.3	720.3	250.9	-	-	-	-	-	-	688.9	394.4	689.3	318.5	690.0	241.4	-	-	-	-	-	-
	72	672.8	492.7	672.8	416.5	672.6	338.5	672.6	259.6	-	-	-	-	644.2	482.0	643.7	405.9	643.9	328.2	643.8	249.6	-	-	-	-
	67	630.2	572.0	625.5	504.7	625.4	427.2	625.2	347.9	624.4	267.1	-	-	607.8	552.0	598.3	493.4	598.2	416.0	597.7	336.9	596.7	256.3	-	-
	62	632.9	577.5	601.7	553.4	579.4	516.0	579.0	436.4	577.8	355.4	576.3	273.2	610.3	557.1	580.2	533.7	554.0	502.6	552.9	424.4	551.5	343.6	550.0	261.6
	57	635.1	582.3	604.1	557.9	573.4	533.7	541.9	508.4	532.6	443.2	531.4	360.9	612.6	561.8	582.4	538.1	551.9	513.6	521.2	488.8	508.4	432.1	507.0	348.8
20000	77	732.5	434.2	733.4	347.3	734.6	259.3	-	-	-	-	-	-	701.1	424.2	702.0	337.3	703.1	249.5	-	-	-	-	-	-
	72	686.3	534.1	686.2	447.1	686.2	358.2	686.2	268.1	-	-	-	-	656.7	523.1	656.2	436.4	656.3	347.7	656.3	257.9	-	-	-	-
	67	657.6	596.5	639.6	546.1	638.0	458.4	638.7	368.2	637.9	276.1	-	-	634.0	575.2	610.7	535.5	610.5	447.0	609.9	356.8	608.7	264.7	-	-
	62	660.3	602.3	628.1	577.3	595.9	551.7	593.0	468.7	591.8	376.8	590.3	282.8	636.8	580.5	605.3	555.9	573.6	530.4	565.7	456.9	564.5	364.6	562.9	270.9
	57	662.9	607.7	630.4	582.1	598.1	556.4	565.7	530.2	546.0	477.4	544.6	383.1	639.1	585.7	607.7	560.4	575.6	535.2	543.5	508.7	520.5	465.0	519.4	370.7
		95 (°F)												105 (°F)											
12500	77	619.6	321.7	619.7	267.7	619.9	213.0	-	-	-	-	-	-	586.0	310.4	586.1	256.4	586.2	201.9	-	-	-	-	-	-
	72	577.0	385.0	576.7	330.7	576.1	275.5	575.5	219.5	-	-	-	-	545.2	373.9	545.2	318.9	544.7	264.0	544.3	208.0	-	-	-	-
	67	532.8	450.4	532.7	395.2	532.7	338.5	532.0	281.9	531.0	224.8	-	-	502.8	438.8	503.1	383.4	503.1	326.8	502.3	270.3	501.5	213.0	-	-
	62	518.9	474.2	492.8	453.7	490.0	402.9	489.0	345.4	488.5	287.7	487.3	229.2	496.2	453.3	470.7	433.2	462.1	390.4	461.4	333.3	461.1	275.4	459.8	217.0
	57	520.8	478.2	494.7	457.3	468.4	436.4	448.2	407.7	447.3	350.3	446.4	291.2	498.0	457.1	472.3	436.8	446.7	416.1	422.6	394.2	421.9	337.1	420.8	278.6
15000	77	640.4	353.2	640.9	288.4	641.3	222.5	-	-	-	-	-	-	604.9	341.7	605.0	277.0	605.7	211.2	-	-	-	-	-	-
	72	596.3	428.1	596.4	362.9	596.2	296.5	596.0	229.3	-	-	-	-	563.0	415.7	562.9	350.7	562.8	284.6	562.3	217.4	-	-	-	-
	67	554.0	504.3	554.0	438.2	553.1	371.5	552.3	303.9	551.4	235.2	-	-	528.6	480.2	520.8	427.4	522.0	358.8	521.1	291.3	519.9	222.8	-	-
	62	556.1	507.9	527.9	485.4	509.8	448.2	509.7	378.8	508.6	309.6	507.0	239.4	530.8	484.7	503.3	463.2	480.8	433.4	479.7	367.0	479.2	296.5	477.8	226.7
	57	558.0	512.0	529.9	489.6	501.5	467.0	473.2	444.0	467.0	385.7	466.1	314.7	532.4	488.0	505.3	467.0	477.7	444.7	450.1	422.3	438.9	372.8	438.7	301.3
17500	77	654.6	383.4	655.6	307.7	656.2	230.8	-	-	-	-	-	-	617.9	371.7	618.7	296.1	619.2	219.4	-	-	-	-	-	-
	72	612.0	470.3	611.8	394.2	612.0	316.8	611.2	238.2	-	-	-	-	576.5	458.8	577.0	381.8	576.9	304.7	576.7	226.1	-	-	-	-
	67	583.3	529.8	568.3	480.4	567.8	403.7	567.3	324.7	566.5	244.5	-	-	556.4	504.8	534.6	469.3	533.9	390.0	534.7	311.7	533.6	231.9	-	-
	62	585.9	534.6	556.8	511.7	526.4	487.3	524.5	411.4	523.1	330.9	521.4	249.2	558.7	509.6	530.0	486.9	501.0	463.5	493.5	397.9	492.5	317.4	491.9	236.5
	57	588.1	539.1	558.4	515.7	528.4	491.4	498.5	467.0	481.0	419.9	480.3	335.7	560.9	513.9	531.9	491.0	502.8	467.4	473.8	443.6	451.7	406.5	451.8	321.8
20000	77	665.9	412.9	667.2	326.6	668.9	239.0	-	-	-	-	-	-	627.6	400.7	628.8	314.8	630.0	227.3	-	-	-	-	-	-
	72	623.7	510.6	623.3	424.6	623.5	336.3	623.0	246.5	-	-	-	-	586.0	500.1	587.5	412.0	587.5	323.8	587.2	234.2	-	-	-	-
	67	608.0	551.4	580.0	522.7	579.4	434.6	578.5	344.4	577.3	252.8	-	-	579.1	525.3	549.3	501.6	545.5	421.0	544.7	331.5	543.5	240.0	-	-
	62	610.5	556.7	579.8	532.6	548.5	507.4	536.0	444.1	534.9	351.8	533.2	258.2	581.6	530.2	551.7	506.5	521.7	482.6	503.9	430.0	503.2	338.1	501.5	245.1
	57	612.9	561.4	581.9	536.9	550.6	511.8	519.4	486.0	493.1	450.0	491.5	357.0	583.9	534.7	553.8	510.7	523.6	486.3	492.9	461.3	462.9	437.2	461.9	342.8

Table 15: YV50 Cooling capacity performance continued

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temp (°F)												Return dry bulb temp (°F)											
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		115 (°F)												125 (°F)											
12500	77	549.1	298.2	549.5	244.5	549.9	190.1	-	-	-	-	-	-	509.8	285.8	510.1	231.9	510.5	177.6	-	-	-	-	-	-
	72	510.0	362.6	510.8	307.3	510.7	251.8	510.3	195.9	-	-	-	-	472.8	349.4	473.4	294.3	473.7	239.0	473.7	183.0	-	-	-	-
	67	471.1	424.5	471.7	370.4	471.0	314.2	470.5	257.7	469.9	200.4	-	-	442.2	401.8	436.5	356.7	436.3	301.0	436.3	244.3	435.8	186.9	-	-
	62	471.3	430.5	446.5	411.0	432.7	376.4	432.0	319.9	431.2	262.2	430.3	203.8	444.0	405.5	420.1	386.6	401.0	360.8	400.2	305.4	399.5	248.1	398.8	189.9
	57	474.7	435.4	448.1	414.3	423.3	394.1	398.5	374.0	394.4	323.3	393.3	265.1	445.6	408.9	421.5	389.7	397.8	370.4	373.9	350.7	365.0	308.5	364.0	251.0
15000	77	566.1	329.2	566.6	264.5	567.5	199.3	-	-	-	-	-	-	526.1	316.2	525.0	251.4	525.8	186.3	-	-	-	-	-	-
	72	526.9	402.6	526.7	337.5	526.5	271.4	526.2	204.7	-	-	-	-	486.3	391.6	487.6	323.7	487.8	257.8	487.4	191.2	-	-	-	-
	67	501.3	454.9	487.6	413.9	487.5	346.2	487.4	277.8	486.3	209.6	-	-	471.0	427.5	451.0	398.3	450.8	333.0	451.2	264.3	450.5	195.8	-	-
	62	503.4	459.3	476.8	438.5	450.3	417.0	448.0	353.3	447.7	283.5	446.5	213.2	473.1	431.7	447.8	411.2	422.3	390.8	413.7	339.7	413.9	269.2	413.1	199.1
	57	505.3	463.2	478.6	442.0	452.0	420.5	425.3	398.6	410.1	357.9	409.1	287.6	474.9	435.3	449.6	414.7	424.0	394.2	398.4	373.2	382.4	344.7	377.6	272.8
17500	77	577.3	358.8	578.6	283.5	580.4	207.5	-	-	-	-	-	-	533.8	345.0	535.2	270.1	536.3	194.1	-	-	-	-	-	-
	72	538.8	444.3	539.2	368.2	539.3	291.4	538.9	213.2	-	-	-	-	498.1	430.4	498.6	354.7	499.0	277.3	498.9	199.6	-	-	-	-
	67	526.6	477.5	499.7	455.8	499.3	376.4	499.1	297.6	498.4	218.3	-	-	493.9	448.0	467.6	427.2	461.2	363.6	461.5	283.0	460.5	203.9	-	-
	62	528.9	482.0	501.2	460.4	473.1	437.7	459.5	385.9	459.7	303.0	458.1	222.2	496.3	452.5	469.7	431.2	443.2	409.7	423.9	371.9	425.5	288.6	423.3	207.4
	57	530.8	486.2	503.1	464.2	475.1	441.4	446.9	418.4	422.1	390.3	420.8	308.1	498.1	456.2	471.6	435.0	444.8	413.2	417.9	390.9	391.2	368.2	389.0	294.3
20000	77	585.9	387.9	587.7	302.0	588.9	214.7	-	-	-	-	-	-	541.3	373.8	545.5	288.9	544.8	201.5	-	-	-	-	-	-
	72	553.2	485.7	549.1	398.2	549.0	310.6	548.3	221.2	-	-	-	-	510.3	459.4	506.5	385.1	507.4	296.1	507.4	207.4	-	-	-	-
	67	547.6	495.9	519.2	473.6	508.7	408.6	508.6	317.3	507.5	226.3	-	-	512.9	464.4	485.9	443.1	469.5	393.8	470.0	302.5	469.1	212.0	-	-
	62	549.9	500.6	521.3	478.0	492.4	454.5	469.4	416.6	469.5	323.4	467.7	230.8	515.1	469.0	487.9	447.2	460.3	424.7	433.0	402.1	432.9	308.6	431.8	215.8
	57	551.9	505.1	523.2	482.3	494.1	458.4	464.8	434.3	435.6	409.8	429.9	328.6	517.0	473.1	489.7	451.2	462.0	428.6	434.1	405.5	406.2	382.0	396.9	312.9

Airflow performance

Table 16: YV28 bottom duct application

Air flow (CFM)	Available external static pressure - IWG																									
	0.3		0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2		2.2		2.4		2.5	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 7.5HP and field drive						Standard 7.5HP and drive								Medium 10HP and drive								High 20 HP and drive			
8000	573	2.29	599	2.53	649	2.98	696	3.39	742	3.78	786	4.16	828	4.55	869	4.95	910	5.36	949	5.79	988	6.25	1026	6.75	1045	7.00
9000	606	2.92	631	3.15	678	3.59	724	4.01	768	4.41	810	4.82	851	5.24	892	5.67	931	6.13	970	6.60	1007	7.12	1045	7.66	1063	7.95
10000	642	3.62	665	3.85	711	4.29	754	4.72	796	5.15	837	5.58	877	6.04	916	6.51	955	7.00	992	7.53	1029	8.09	1066	8.69	1084	9.01
11000	680	4.41	702	4.64	745	5.09	787	5.54	827	6.00	867	6.47	906	6.96	943	7.47	981	8.01	1017	8.59	1054	9.21	1089	9.87	1107	10.21
12000	721	5.31	741	5.55	782	6.02	822	6.50	861	6.99	899	7.49	936	8.02	973	8.58	1009	9.18	1045	9.81	1080	10.49	1115	11.21	1132	11.58
13000	763	6.36	783	6.60	822	7.10	860	7.61	897	8.14	933	8.69	969	9.26	1005	9.88	1040	10.52	1075	11.22	1109	11.95	1143	12.74	-	-

- ① **Note:** Blower performance includes gas heat exchangers and 2-inch filters. See the 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. $kW = BHP \times 0.93$

Table 17: YV30 bottom duct application

Air Flow (CFM)	Available External Static Pressure - IWG																									
	0.3		0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2		2.2		2.4		2.5	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 7.5HP and field drive						Standard 7.5HP and drive								Medium 10HP and drive								High 20 HP and drive			
8000	540	1.98	567	2.24	618	2.71	667	3.13	713	3.53	757	3.91	800	4.29	842	4.68	882	5.076	922	5.49	961	5.93	999	6.39	1018	6.64
9000	565	2.52	591	2.77	640	3.24	687	3.67	732	4.08	775	4.49	817	4.89	858	5.31	898	5.742	937	6.20	975	6.68	1012	7.19	1031	7.45
10000	594	3.14	619	3.39	666	3.85	711	4.29	754	4.72	796	5.15	837	5.59	877	6.03	916	6.50	954	7.00	992	7.52	1029	8.08	1047	8.38
11000	626	3.85	650	4.09	695	4.56	738	5.02	780	5.47	821	5.92	860	6.39	899	6.87	937	7.383	975	7.92	1011	8.49	1048	9.10	1066	9.42
12000	662	4.65	684	4.9	727	5.38	768	5.86	809	6.34	848	6.82	887	7.32	924	7.85	961	8.40	998	8.99	1034	9.61	1069	10.27	1087	10.62
13000	700	5.59	721	5.84	762	6.34	802	6.84	841	7.35	879	7.87	916	8.42	952	8.99	988	9.585	1024	10.22	1059	10.89	1094	11.61	1111	11.99
14000	742	6.68	761	6.94	800	7.47	838	8.00	875	8.54	912	9.10	948	9.69	983	10.3	1018	10.96	1053	11.64	1087	12.38	-	-	-	-

- ① **Note:** Blower performance includes gas heat exchangers and 2-inch filters. See the 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. $kW = BHP \times 0.93$

Table 18: YV35 bottom duct application

Air Flow (CFM)	Available External Static Pressure - IWG																									
	0.3		0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2		2.2		2.4		2.5	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 7.5HP and field drive						Standard 7.5HP and drive								Medium 10HP and drive								High 20 HP and drive			
9000	611	2.96	636	3.2	683	3.63	729	4.05	772	4.46	815	4.87	856	5.29	896	5.72	935	6.18	974	6.66	1012	7.17	1049	7.72	1067	8.01
10000	648	3.68	671	3.91	716	4.34	760	4.77	802	5.2	843	5.64	882	6.1	921	6.57	960	7.07	997	7.6	1034	8.17	1071	8.78	1089	9.1
11000	687	4.48	709	4.71	752	5.16	793	5.61	834	6.07	873	6.54	912	7.04	949	7.55	987	8.1	1023	8.69	1059	9.31	1095	9.98	1113	10.3
12000	729	5.41	749	5.64	790	6.11	830	6.59	868	7.08	906	7.59	943	8.13	980	8.69	1016	9.3	1052	9.93	1087	10.6	1121	11.3	1139	11.7
13000	772	6.47	792	6.72	831	7.22	868	7.73	905	8.26	942	8.82	977	9.4	1013	10	1048	10.7	1082	11.4	1116	12.1	1150	12.9	-	-
14000	818	7.72	837	7.98	873	8.51	909	9.06	944	9.64	979	10.2	1014	10.9	1048	11.6	1082	12.3	1115	13	1149	13.9	-	-	-	-
15000	865	9.17	883	9.45	918	10	952	10.6	986	11.2	1019	11.9	1052	12.6	1085	13.3	1118	14.1	-	-	-	-	-	-	-	-
16000	914	10.9	931	11.2	964	11.8	996	12.4	1029	13.1	1061	13.8	1093	14.6	1125	15.4	-	-	-	-	-	-	-	-	-	-

- ① **Note:** Blower performance includes gas heat exchangers and 2-inch filters. See the 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. $kW = BHP \times 0.93$

Table 19: YV40 bottom duct application

Air Flow (CFM)	Available External Static Pressure - IWG																							
	0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2		2.2		2.4		2.5	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 10HP and field drive				Std 10HP and drive										Medium 15HP and drive						High 20 HP and drive			
12000	600	4.41	633	4.818	666	5.255	699	5.72	731	6.227	764	6.765	796	7.34	828	7.95	860	8.59	892	9.28	924	10	940	10.4
13000	621	5.08	654	5.536	687	6.023	720	6.54	753	7.10	785	7.692	817	8.32	850	8.99	882	9.7	914	10.4	945	11.2	961	11.6
14000	645	5.89	678	6.391	711	6.928	743	7.50	776	8.11	809	8.763	841	9.45	873	10.2	905	11	937	11.8	969	12.6	985	13.1
15000	670	6.84	703	7.393	736	7.982	769	8.61	802	9.28	834	10.00	866	10.8	899	11.6	931	12.4	963	13.3	994	14.3	1010	14.8
16000	698	7.95	731	8.554	764	9.20	797	9.89	829	10.63	862	11.42	894	12.3	926	13.1	958	14.1	990	15.1	1022	16.2	1038	16.7
17000	727	9.23	760	9.885	793	10.60	826	11.36	859	12.18	891	13.05	923	14	956	15	988	16	1020	17.2	1051	18.4	-	-
18000	759	10.7	792	11.41	825	12.20	857	13.05	890	13.96	922	14.95	955	16	987	17.1	1019	18.3	1051	19.6	-	-	-	-
19000	792	12.3	825	13.15	858	14.04	890	15.00	923	16.04	956	17.16	988	18.4	1020	19.7	1052	21	-	-	-	-	-	-
20000	827	14.2	860	15.16	892	16.17	925	17.28	958	18.48	990	19.78	1023	21.2	1055	22.7	-	-	-	-	-	-	-	-

- ① **Note:** Blower performance includes gas heat exchangers and 2-inch filters. See the 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. $\text{kW} = \text{BHP} \times 0.93$

Table 20: YV50 bottom duct application

Air Flow (CFM)	Available External Static Pressure - IWG																							
	0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2		2.2		2.4		2.5	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 10HP and field drive				Standard 10HP and drive										Medium 15HP and drive						High 20 HP and drive			
12000	616	4.61	649	5.02	681	5.47	714	5.95	746	6.47	778	7.02	811	7.61	843	8.24	875	8.9	907	9.6	939	10.3	954	10.7
13000	639	5.33	672	5.8	705	6.3	737	6.84	770	7.41	802	8.02	834	8.67	866	9.35	898	10.1	930	10.9	962	11.7	978	12.1
14000	665	6.2	698	6.72	731	7.27	763	7.87	796	8.5	828	9.17	860	9.89	892	10.6	924	11.4	956	12.3	988	13.2	1004	13.7
15000	693	7.22	726	7.79	759	8.41	791	9.06	824	9.76	856	10.5	888	11.3	920	12.1	952	13	984	14	1016	14.9	1032	15.5
16000	723	8.41	756	9.04	789	9.72	821	10.4	854	11.2	886	12	918	12.9	950	13.9	982	14.8	1014	15.9	1046	17	1062	17.6
17000	756	9.79	788	10.5	821	11.2	853	12	886	12.9	918	13.8	950	14.8	983	15.9	1015	17	1046	18.2	-	-	-	-
18000	790	11.4	822	12.1	855	13	888	13.9	920	14.9	952	15.9	985	17	1017	18.2	1049	19.5	-	-	-	-	-	-
19000	826	13.2	858	14.1	891	15	924	16.1	956	17.2	988	18.4	1020	19.7	1053	21	-	-	-	-	-	-	-	-
20000	863	15.3	896	16.3	929	17.4	961	18.6	994	19.9	1026	21.3	-	-	-	-	-	-	-	-	-	-	-	-

- ① **Note:** Blower performance includes gas heat exchangers and 2-inch filters. See the 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. $\text{kW} = \text{BHP} \times 0.93$

RPM selection and static resistance

Table 21: 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
YV28	7.5	8.24	1VP65 - 1 3/8	1B5V124	717	745	772	800	827	855	882
	10	10.90	2VP60 - 1 3/8	2B5V94	848	884	920	956	992	1028	1064
	15	16.13	2VP60 - 1 5/8	2B5V86	945	985	1026	1066	1106	1147	n/a
YV30	7.5	8.24	1VP60 - 1 3/8	1B5V124	658	686	714	742	770	798	826
	10	10.90	1VP68 - 1 3/8	1B5V110	820	850	880	911	941	971	1001
	15	16.13	2VP60 - 1 5/8	2B5V90	884	922	959	997	1035	1072	1110
YV35	7.5	8.24	1VP65 - 1 3/8	1B5V124	717	745	772	800	827	855	882
	10	10.90	2VP60 - 1 3/8	2B5V94	848	884	920	956	992	1028	1064
	15	16.13	2VP60 - 1 5/8	2B5V86	945	985	1026	1066	1106	1147	n/a
YV40	10	10.90	1VP60 - 1 3/8	1B5V124	658	686	714	742	770	798	826
	15	16.13	1VP75 - 1 5/8	1B5V136	792	818	843	869	894	920	945
	20	21.50	2VP60 - 1 5/8	2B5V94	866	903	940	977	1013	1050	n/a
YV50	10	10.90	1VP60 - 1 3/8	1B5V124	658	686	714	742	770	798	826
	15	16.13	1VP75 - 1 5/8	1B5V136	792	818	843	869	894	920	945
	20	21.50	2VP60 - 1 5/8	2B5V94	866	903	940	977	1013	1050	n/a

Additional static resistance

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 a reheat coil or 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 22: Additional static resistance

Model	CFM	Cooling Only	Economizer
YV28 YV30 YV35	6000	0.15	0.09
	7000	0.19	0.12
	8000	0.23	0.15
	9000	0.28	0.19
	10000	0.33	0.23
	11000	0.39	0.28
	12000	0.45	0.33
	13000	0.52	0.38
	14000	0.59	0.44
	15000	0.67	0.50
YV40 YV50	16000	0.75	0.57
	10000	0.33	0.08
	11000	0.39	0.10
	12000	0.44	0.11
	13000	0.50	0.13
	14000	0.57	0.15
	15000	0.63	0.17
	16000	0.70	0.20
	17000	0.78	0.22
	18000	0.86	0.25
	19000	0.94	0.27
	20000	1.02	0.30

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.

- Determine the turns open to obtain the required operation point.

Example

- 9000 CFM
- 1.2 iwg
- Using the supply air blower performance table below, the following data point was located: 810 RPM and 4.82 BHP.
- Using the following RPM selection table, Size X and Model Y is found.
- 4.82 BHP does not exceed the maximum continuous BHP rating of any of the three motor options, so all three motors are still eligible for selection.
- 810 RPM falls within the range of the 7.5-HP drive.
- Using the 7.5-HP motor, 2.5 turns open achieves 810 RPM.

Table 23: Example supply air blower performance

Air flow (CFM)	Available external static pressure - IWG																									
	0.3		0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2		2.2		2.4		2.5	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	Standard 7.5HP and field drive						Standard 7.5HP and drive								Medium 10HP and drive								High 20 HP and drive			
8000	573	2.29	599	2.53	649	2.98	696	3.39	742	3.78	786	4.16	828	4.55	869	4.95	910	5.36	949	5.79	988	6.25	1026	6.75	1045	7.00
9000	606	2.92	631	3.15	678	3.59	724	4.01	768	4.41	810	4.82	851	5.24	892	5.67	931	6.13	970	6.60	1007	7.12	1045	7.66	1063	7.95
10000	642	3.62	665	3.85	711	4.29	754	4.72	796	5.15	837	5.58	877	6.04	916	6.51	955	7.00	992	7.53	1029	8.09	1066	8.69	1084	9.01
11000	680	4.41	702	4.64	745	5.09	787	5.54	827	6.00	867	6.47	906	6.96	943	7.47	981	8.01	1017	8.59	1054	9.21	1089	9.87	1107	10.21
12000	721	5.31	741	5.55	782	6.02	822	6.50	861	6.99	899	7.49	936	8.02	973	8.58	1009	9.18	1045	9.81	1080	10.49	1115	11.21	1132	11.58
13000	763	6.36	783	6.60	822	7.10	860	7.61	897	8.14	933	8.69	969	9.26	1005	9.88	1040	10.52	1075	11.22	1109	11.95	1143	12.74	-	-

- ① **Note:** Blower performance includes gas heat exchangers and 2-inch filters. See the 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. $\text{kW} = \text{BHP} \times 0.93$

Table 24: 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
YV28	7.5	8.24	1VP65 - 1 3/8	1B5V124	717	745	772	800	827	855	882
	10	10.90	2VP60- 1 3/8	2B5V94	848	884	920	956	992	1028	1064
	15	16.13	2VP60- 1 5/8	2B5V86	945	985	1026	1066	1106	1147	n/a

Airflow specifications

Table 25: 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
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 7: Altitude/temperature correction factors

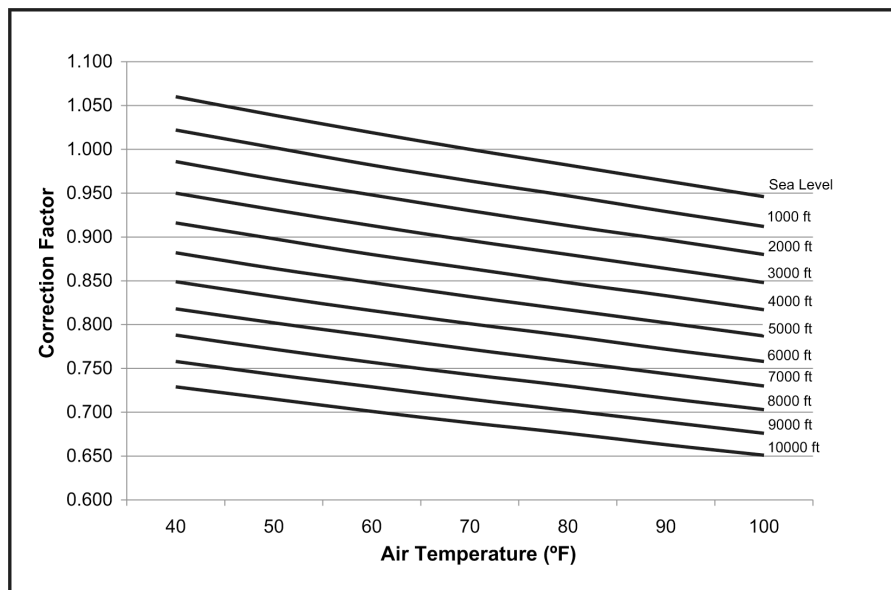


Table 26: Gas heat allowable air flow

Model	Heat size	Supply air (CFM) Heating	
		Min	Max
YV28	(N,S)1	8250	12375
	(N,S)3	8250	12375
YV30	(N,S)1	9000	13500
	(N,S)3	9000	13500
YV35	(N,S)1	10500	15750
	(N,S)3	10500	15750
YV40	(N,S)1	12000	18000
	(N,S)3	12000	18000
YV50	(N,S)1	15000	20000
	(N,S)3	15000	20000

CAUTION

For units with VFD and staged gas heat, the speed of the indoor blower motor continues to be controlled by duct static pressure through the VAV control board. If there are VAV boxes present in the duct system, the boxes must be driven to the full-open position using a customer-supplied power source to ensure adequate airflow across the gas heat furnace.

Indoor blower specifications

Table 27: 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	Model	No. of qty
YV28	7.5	1770	91.00	1.3	213T	4.8-6	1 3/8	1VP65	12.4	1 11/16	1B5V124	BX82	1
	10.0	1770	91.70	1.3	215T	4.3-5.5	1 3/8	2VP60	9.4	1 11/16	2B5V94	BX75	2
	15.0	1765	93.00	1.3	254T	4.7-5.9	1 5/8	2VP60	8.7	1 11/16	2B5V86	5VX780	2

Table 27: 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	Model	No. of qty
YV30	7.5	1770	91.00	1.3	213T	4.7-5.9	1 3/8	1VP60	12.5	1 11/16	1B5V124	5VX830	1
	10.0	1770	91.70	1.3	215T	5.2-6.4	1 3/8	1VP68	11.1	1 11/16	1B5V110	5VX830	1
	15.0	1765	93.00	1.3	254T	4.3-5.5	1 5/8	2VP60	9.0	1 11/16	2B5V90	BX76	2
YV35	7.5	1770	91.00	1.3	213T	4.8-6	1 3/8	1VP65	12.4	1 11/16	1B5V124	BX82	1
	10.0	1770	91.70	1.3	215T	4.3-5.5	1 3/8	2VP60	9.4	1 11/16	2B5V94	BX75	2
	15.0	1765	93.00	1.3	254T	4.7-5.9	1 5/8	2VP60	8.7	1 11/16	2B5V86	5VX780	2
YV40	10.0	1770	91.70	1.3	215T	4.7-5.9	1 3/8	1VP60	12.5	1 11/16	1B5V124	5VX830	1
	15.0	1765	93.00	1.3	254T	6.2-7.4	1 5/8	1VP75	13.7	1 11/16	1B5V136	5VX880	1
	20.0	1765	93.00	1.3	256T	4.7-5.9	1 5/8	2VP60	9.5	1 11/16	2B5V94	5VX780	2
YV50	10.0	1770	91.70	1.3	215T	4.7-5.9	1 3/8	1VP60	12.5	1 11/16	1B5V124	5VX830	1
	15.0	1765	93.00	1.3	254T	6.2-7.4	1 5/8	1VP75	13.7	1 11/16	1B5V136	5VX880	1
	20.0	1765	93.00	1.3	256T	4.7-5.9	1 5/8	2VP60	9.5	1 11/16	2B5V94	5VX780	2

Power exhaust airflow

Table 28: Power exhaust airflow

Tonnage	Available Return Static (IWG)														
	0.1			0.2			0.3			0.4			0.5		
	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM	CFM	Watts	RPM
28	11680	1887	1140	10504	1913	1140	8675	1939	1140	6593	1965	1140	4658	1991	1140
30	11680	1887	1140	10504	1913	1140	8675	1939	1140	6593	1965	1140	4658	1991	1140
35	11680	1887	1140	10504	1913	1140	8675	1939	1140	6593	1965	1140	4658	1991	1140
40	15493	2659	1140	14447	2736	1140	13513	2814	1140	12760	2892	1140	12259	2970	1140
50	15493	2659	1140	14447	2736	1140	13513	2814	1140	12760	2892	1140	12259	2970	1140

Sound performance

Indoor sound performance

Table 29: Indoor sound performance

Model	CFM	Type	Sound power, dB (10 ⁻¹²) watts							
			Octave band centerline frequency (Hz)							
			63	125	250	500	1000	2000	4000	8000
YV28	11000	Ducted discharge	84	82	78	79	77	76	72	64
		Ducted inlet	82	75	64	66	67	65	64	54
YV30	12000	Ducted Discharge	87	83	79	79	78	76	72	65
		Ducted Inlet	86	75	64	66	68	65	65	55
YV35	14000	Ducted Discharge	87	87	83	83	84	82	78	72
		Ducted Inlet	83	78	68	70	72	70	67	58
YV40	16000	Ducted Discharge	90	84	80	80	79	76	70	62
		Ducted Inlet	85	78	68	66	64	61	61	53
YV50	20000	Ducted Discharge	92	84	81	81	80	77	71	65
		Ducted Inlet	87	80	70	67	66	64	62	55

Note:

- 30 ton and 50 ton models tested in accordance with AHRI 260-2017. 27.5 ton, 35 ton, and 40 ton models interpolated from tests made in accordance with AHRI 260-2017.
- Ratings include duct end correction E1.

- Ratings include compressor noise.

Outdoor sound

Table 30: Outdoor sound performance

Model	Sound power, dB (10 ⁻¹²) watts								
	Sound Rating (dBA)	Octave band centerline frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
YV28	89	91.5	85.0	85.5	86.0	85.0	81.0	78.5	74.0
YV30	89	91.5	85.0	85.5	86.0	85.0	81.0	78.5	74.0
YV35	89	91.5	85.0	85.5	86.0	85.0	81.0	78.5	74.0
YV40	89	91.5	85.0	85.5	86.0	85.0	81.0	78.5	74.0
YV50	91	96.0	91.0	86.5	87.0	86.5	84.0	79.5	75.0

Note:

- 30 ton and 50 ton models tested in accordance with AHRI 370-2015. 27.5 ton, 35 ton, and 40 ton models interpolated from tests made in accordance with AHRI 370-2015.
- Ratings include compressor noise.

Electrical data

Constant volume standard static

① Note:

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

Table 31: YV28 to YV50 Constant volume standard static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA								FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	19.4	144.4	14.4	128	150	135	836.4	142	175	151.6	850.8
	230-3-60	41.0	304	41.0	304	4.2	21.0	19.4	144.4	13.0	128	150	136	836.4	141	175	150.9	849.4
	460-3-60	19.2	147	19.2	147	2.1	10.5	9.7	72.2	6.5	61	80	65	408.2	68	80	72.5	414.7
	575-3-60	16.7	122	16.7	122	1.6	7.8	8.0	59.1	5.2	52	60	55	334.3	57	70	61.0	339.5
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	19.4	144.4	14.4	135	175	142	858.4	149	175	158.9	872.8
	230-3-60	44.2	315	44.2	315	4.2	21.0	19.4	144.4	13.0	136	175	143	858.4	149	175	158.2	871.4
	460-3-60	22.4	158	22.4	158	2.1	10.5	9.7	72.2	6.5	69	90	72	430.2	75	90	79.8	436.7
	575-3-60	18.6	136	18.6	136	1.6	7.8	8.0	59.1	5.2	56	70	59	362.3	61	80	65.3	367.5
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	19.4	144.4	14.4	144	175	151	930.4	158	200	167.9	944.8
	230-3-60	48.1	351	48.1	351	4.2	21.0	19.4	144.4	13.0	144	175	152	930.4	157	200	167.2	943.4
	460-3-60	24.7	197	24.7	197	2.1	10.5	9.7	72.2	6.5	74	90	78	508.2	80	100	85.1	514.7
	575-3-60	22.4	135	22.4	135	1.6	7.8	8.0	59.1	5.2	65	80	68	360.3	70	90	74.1	365.5
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	25.0	173.44	14.4	149	175	158	959.4	164	200	174.3	973.8
	230-3-60	48.1	351	48.1	351	4.2	21.0	25.0	173.44	13.0	150	175	159	959.4	163	200	173.7	972.4
	460-3-60	24.7	197	24.7	197	2.1	10.5	12.5	86.72	6.5	76	100	81	522.7	83	100	88.3	529.2
	575-3-60	22.4	135	22.4	135	1.6	7.8	10.0	71.77	5.2	67	80	70	373.0	72	90	76.4	378.2
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	25.0	173.44	14.4	205	250	217	1301.8	220	275	233.2	1316.2
	230-3-60	67.3	485	67.3	485	6.8	39.6	25.0	173.44	13.0	204	250	215	1301.8	217	275	229.8	1314.8
	460-3-60	32.7	215	32.7	215	3.4	19.8	12.5	86.72	6.5	100	125	105	595.9	106	125	112.7	602.4
	575-3-60	26.3	175	26.3	175	2.7	15.8	10.0	71.77	5.2	80	100	84	485.0	85	110	90.4	490.2

Table 32: YV28 to YV50 Constant volume standard static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	Power exhaust VFD FLA	Power exhaust motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	19.4	144.4	4.0	21.0	14.4	136	175	144	878	150	175	161	893
	230-3-60	41.0	304	41.0	304	4.2	21.0	19.4	144.4	4.2	21.0	13.0	137	175	146	878	150	175	161	891
	460-3-60	19.2	147	19.2	147	2.1	10.5	9.7	72.2	2.1	10.5	6.5	66	80	70	429	72	90	77	436
	575-3-60	16.7	122	16.7	122	1.6	7.8	8.0	59.1	1.6	7.8	5.2	55	70	59	350	60	75	65	355
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	19.4	144.4	4.0	21.0	14.4	143	175	152	900	157	200	168	915
	230-3-60	44.2	315	44.2	315	4.2	21.0	19.4	144.4	4.2	21.0	13.0	144	175	153	900	157	200	168	913
	460-3-60	22.4	158	22.4	158	2.1	10.5	9.7	72.2	2.1	10.5	6.5	73	90	77	451	79	100	85	458
	575-3-60	18.6	136	18.6	136	1.6	7.8	8.0	59.1	1.6	7.8	5.2	59	75	63	378	65	80	69	383
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	19.4	144.4	4	21.0	14.4	152	175	161	972	166	200	177	987
	230-3-60	48.1	351	48.1	351	4.2	21.0	19.4	144.4	4.2	21.0	13.0	153	200	162	972	166	200	177	985
	460-3-60	24.7	197	24.7	197	2.1	10.5	9.7	72.2	2.1	10.5	6.5	78	100	82	529	84	100	90	536
	575-3-60	22.4	135	22.4	135	1.6	7.8	8.0	59.1	1.6	7.8	5.2	68	90	72	376	73	90	78	381

Table 32: YV28 to YV50 Constant volume standard static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaust VFD FLA	Power exhaust motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	25.0	173.44	7.2	39.6	14.4	164	200	174	1039	178	225	191	1053
	230-3-60	48.1	351	48.1	351	4.2	21.0	25.0	173.44	6.8	39.6	13.0	164	200	174	1039	177	200	189	1052
	460-3-60	24.7	197	24.7	197	2.1	10.5	12.5	86.72	3.4	19.8	6.5	83	100	89	562	90	110	96	569
	575-3-60	22.4	135	22.4	135	1.6	7.8	10.0	71.77	2.7	15.8	5.2	72	90	77	405	77	90	83	410
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	25.0	173.44	7.2	39.6	14.4	220	275	233	1381	234	300	250	1395
	230-3-60	67.3	485	67.3	485	6.8	39.6	25.0	173.44	6.8	39.6	13.0	217	275	230	1381	230	275	245	1394
	460-3-60	32.7	215	32.7	215	3.4	19.8	12.5	86.72	3.4	19.8	6.5	106	125	113	636	113	125	121	642
	575-3-60	26.3	175	26.3	175	2.7	15.8	10.0	71.77	2.7	15.8	5.2	85	110	91	517	91	110	97	522

Table 33: YV28 to YV50 Constant volume standard static with modulating power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exh VFD FLA	Power exh motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120 V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	19.4	144.4	9.6	21.0	14.4	137	175	146	878	152	175	163	893
	230-3-60	41.0	304	41.0	304	4.2	21.0	19.4	144.4	9.6	21.0	13.0	138	175	147	878	151	175	162	891
	460-3-60	19.2	147	19.2	147	2.1	10.5	9.7	72.2	4.8	10.5	6.5	66	80	70	429	73	90	78	436
	575-3-60	16.7	122	16.7	122	1.6	7.8	8.0	59.1	4.9	7.8	5.2	57	70	61	350	62	75	67	355
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	19.4	144.4	9.6	21.0	14.4	144	175	153	900	159	200	170	915
	230-3-60	44.2	315	44.2	315	4.2	21.0	19.4	144.4	9.6	21.0	13.0	145	175	154	900	158	200	169	913
	460-3-60	22.4	158	22.4	158	2.1	10.5	9.7	72.2	4.8	10.5	6.5	73	90	78	451	80	100	85	458
	575-3-60	18.6	136	18.6	136	1.6	7.8	8.0	59.1	4.9	7.8	5.2	61	75	65	378	66	80	71	383
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	19.4	144.4	9.6	21.0	14.4	153	200	162	972	168	200	179	987
	230-3-60	48.1	351	48.1	351	4.2	21.0	19.4	144.4	9.6	21.0	13.0	154	200	163	972	167	200	178	985
	460-3-60	24.7	197	24.7	197	2.1	10.5	9.7	72.2	4.8	10.5	6.5	78	100	83	529	85	100	91	536
	575-3-60	22.4	135	22.4	135	1.6	7.8	8.0	59.1	4.9	7.8	5.2	70	90	74	376	75	90	80	381
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	25.0	173.4	15.2	39.6	14.4	164	200	175	1039	179	225	192	1053
	230-3-60	48.1	351	48.1	351	4.2	21.0	25.0	173.4	15.2	39.6	13.0	165	200	176	1039	178	225	191	1052
	460-3-60	24.7	197	24.7	197	2.1	10.5	12.5	86.7	8.2	19.8	6.5	85	100	90	562	91	110	98	569
	575-3-60	22.4	135	22.4	135	1.6	7.8	10.0	71.8	6.1	15.8	5.2	73	90	77	405	78	100	83	410
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	25.0	173.4	15.2	39.6	14.4	220	275	234	1381	235	300	251	1395
	230-3-60	67.3	485	67.3	485	6.8	39.6	25.0	173.4	15.2	39.6	13.0	219	275	232	1381	232	275	247	1394
	460-3-60	32.7	215	32.7	215	3.4	19.8	12.5	86.7	8.2	19.8	6.5	108	125	115	636	114	125	122	642
	575-3-60	26.3	175	26.3	175	2.7	15.8	10.0	71.8	6.1	15.8	5.2	86	110	91	517	91	110	97	522

Constant volume medium static

① Note:

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

Table 34: YV28 to YV50 Constant volume medium static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120 V trans	
		RLA	LRA	RLA	LRA								FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	25.0	173.44	14.4	133	150	141	865.4	148	175	158.0	879.8
	230-3-60	41.0	304	41.0	304	4.2	21.0	25.0	173.44	13.0	134	175	142	865.4	147	175	157.3	878.4
	460-3-60	19.2	147	19.2	147	2.1	10.5	12.5	86.72	6.5	64	80	68	422.7	71	80	75.7	429.2
	575-3-60	16.7	122	16.7	122	1.6	7.8	10.0	71.77	5.2	54	70	57	347.0	59	75	63.3	352.2
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	25.0	173.44	14.4	140	175	149	887.4	155	175	165.4	901.8
	230-3-60	44.2	315	44.2	315	4.2	21.0	25.0	173.44	13.0	141	175	150	887.4	154	175	164.7	900.4
	460-3-60	22.4	158	22.4	158	2.1	10.5	12.5	86.72	6.5	71	90	76	444.7	78	100	83.0	451.2
	575-3-60	18.6	136	18.6	136	1.6	7.8	10.0	71.77	5.2	58	75	62	375.0	63	80	67.6	380.2
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	25.0	173.44	14.4	149	175	158	959.4	164	200	174.3	973.8
	230-3-60	48.1	351	48.1	351	4.2	21.0	25.0	173.44	13.0	150	175	159	959.4	163	200	173.7	972.4
	460-3-60	24.7	197	24.7	197	2.1	10.5	12.5	86.72	6.5	76	100	81	522.7	83	100	88.3	529.2
	575-3-60	22.4	135	22.4	135	1.6	7.8	10.0	71.77	5.2	67	80	70	373.0	72	90	76.4	378.2
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	36.0	234	14.4	160	200	170	1020.0	175	200	187.0	1034.4
	230-3-60	48.1	351	48.1	351	4.2	21.0	36.0	234	13.0	161	200	171	1020.0	174	200	186.3	1033.0
	460-3-60	24.7	197	24.7	197	2.1	10.5	18.0	117	6.5	82	100	87	553.0	88	110	94.6	559.5
	575-3-60	22.4	135	22.4	135	1.6	7.8	14.2	95.94	5.2	71	90	75	397.1	76	90	81.2	402.3
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	36.0	234	14.4	216	275	229	1362.4	231	275	245.9	1376.8
	230-3-60	67.3	485	67.3	485	6.8	39.6	36.0	234	13.0	215	275	227	1362.4	228	275	242.4	1375.4
	460-3-60	32.7	215	32.7	215	3.4	19.8	18.0	117	6.5	105	125	112	626.2	112	125	119.0	632.7
	575-3-60	26.3	175	26.3	175	2.7	15.8	14.2	95.94	5.2	84	110	89	509.1	89	110	95.2	514.3

Table 35: YV28 to YV50 Constant volume medium static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaust VFD FLA	Power exhaust motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	25.0	173.4	4.0	21.0	14.4	141	175	151	907	156	175	167	922
	230-3-60	41.0	304	41.0	304	4.2	21.0	25.0	173.4	4.2	21.0	13.0	142	175	152	907	155	175	167	920
	460-3-60	19.2	147	19.2	147	2.1	10.5	12.5	86.7	2.1	10.5	6.5	68	80	73	444	75	90	81	450
	575-3-60	16.7	122	16.7	122	1.6	7.8	10.0	71.8	1.6	7.8	5.2	57	70	61	363	62	75	67	368
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	25.0	173.4	4.0	21.0	14.4	148	175	158	929	163	200	175	944
	230-3-60	44.2	315	44.2	315	4.2	21.0	25.0	173.4	4.2	21.0	13.0	150	175	159	929	163	200	174	942
	460-3-60	22.4	158	22.4	158	2.1	10.5	12.5	86.7	2.1	10.5	6.5	76	90	80	466	82	100	88	472
	575-3-60	18.6	136	18.6	136	1.6	7.8	10.0	71.8	1.6	7.8	5.2	61	80	65	391	67	80	71	396
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	25.0	173.4	4	21.0	14.4	157	200	167	1001	172	200	184	1016
	230-3-60	48.1	351	48.1	351	4.2	21.0	25.0	173.4	4.2	21.0	13.0	158	200	168	1001	171	200	183	1014
	460-3-60	24.7	197	24.7	197	2.1	10.5	12.5	86.7	2.1	10.5	6.5	81	100	86	544	87	110	93	550
	575-3-60	22.4	135	22.4	135	1.6	7.8	10.0	71.8	1.6	7.8	5.2	70	90	74	389	75	90	80	394
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	36.0	234.0	7.2	39.6	14.4	175	200	187	1099	189	225	204	1114
	230-3-60	48.1	351	48.1	351	4.2	21.0	36.0	234.0	6.8	39.6	13.0	175	200	187	1099	188	225	202	1112
	460-3-60	24.7	197	24.7	197	2.1	10.5	18.0	117.0	3.4	19.8	6.5	89	110	95	593	95	110	102	599
	575-3-60	22.4	135	22.4	135	1.6	7.8	14.2	95.9	2.7	15.8	5.2	76	90	81	429	82	100	87	434

Table 35: YV28 to YV50 Constant volume medium static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaust VFD FLA	Power exhaust motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	36.0	234.0	7.2	39.6	14.4	231	275	246	1442	245	300	262	1456
	230-3-60	67.3	485	67.3	485	6.8	39.6	36.0	234.0	6.8	39.6	13.0	228	275	243	1442	241	300	258	1455
	460-3-60	32.7	215	32.7	215	3.4	19.8	18.0	117.0	3.4	19.8	6.5	112	125	119	666	118	150	127	672
	575-3-60	26.3	175	26.3	175	2.7	15.8	14.2	95.9	2.7	15.8	5.2	90	110	95	541	95	110	101	546

Table 36: YV28 to YV50 Constant volume medium static modulating power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exh VFD FLA	Power exh motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	25.0	173.44	9.6	21.0	14.4	143	175	152	907	157	175	169	922
	230-3-60	41.0	304	41.0	304	4.2	21.0	25.0	173.44	9.6	21.0	13.0	144	175	153	907	157	175	168	920
	460-3-60	19.2	147	19.2	147	2.1	10.5	12.5	86.72	4.8	10.5	6.5	69	80	74	444	75	90	81	450
	575-3-60	16.7	122	16.7	122	1.6	7.8	10.0	71.77	4.9	7.8	5.2	59	75	63	363	64	80	69	368
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	25.0	173.44	9.6	21.0	14.4	150	175	160	929	164	200	176	944
	230-3-60	44.2	315	44.2	315	4.2	21.0	25.0	173.44	9.6	21.0	13.0	151	175	161	929	164	200	176	942
	460-3-60	22.4	158	22.4	158	2.1	10.5	12.5	86.72	4.8	10.5	6.5	76	90	81	466	83	100	89	472
	575-3-60	18.6	136	18.6	136	1.6	7.8	10.0	71.77	4.9	7.8	5.2	63	80	67	391	68	80	73	396
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	25.0	173.44	9.6	21.0	14.4	159	200	169	1001	173	200	185	1016
	230-3-60	48.1	351	48.1	351	4.2	21.0	25.0	173.44	9.6	21.0	13.0	160	200	170	1001	173	200	185	1014
	460-3-60	24.7	197	24.7	197	2.1	10.5	12.5	86.72	4.8	10.5	6.5	81	100	86	544	88	110	94	550
	575-3-60	22.4	135	22.4	135	1.6	7.8	10.0	71.77	4.9	7.8	5.2	72	90	76	389	77	90	82	394
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	36.0	234	15.2	39.6	14.4	175	200	188	1099	190	225	204	1114
	230-3-60	48.1	351	48.1	351	4.2	21.0	36.0	234	15.2	39.6	13.0	176	200	189	1099	189	225	204	1112
	460-3-60	24.7	197	24.7	197	2.1	10.5	18.0	117	8.2	19.8	6.5	90	110	97	593	97	110	104	599
	575-3-60	22.4	135	22.4	135	1.6	7.8	14.2	95.94	6.1	15.8	5.2	77	90	82	429	82	100	88	434
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	36.0	234	15.2	39.6	14.4	231.4	275	247	1442	246	300	263	1456
	230-3-60	67.3	485	67.3	485	6.8	39.6	36.0	234	15.2	39.6	13.0	229.8	275	245	1442	243	300	260	1455
	460-3-60	32.7	215	32.7	215	3.4	19.8	18.0	117	8.2	19.8	6.5	113	125	121	666	120	150	128	672
	575-3-60	26.3	175	26.3	175	2.7	15.8	14.2	95.94	6.1	15.8	5.2	90.3	110	96	541	95	110	102	546

Constant volume high static

① Note:

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

Table 37: YV28 to YV50 Constant volume high static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA								FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	36.0	234.0	14.4	144	175	154	926	159	175	171	940
	230-3-60	41.0	304	41.0	304	4.2	21.0	36.0	234.0	13.0	145	175	155	926	158	175	170	939
	460-3-60	19.2	147	19.2	147	2.1	10.5	18.0	117.0	6.5	70	80	75	453	76	90	82	460
	575-3-60	16.7	122	16.7	122	1.6	7.8	14.2	95.9	5.2	58	70	62	371	63	80	68	376
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	36.0	234.0	14.4	151	175	161	948	166	200	178	962
	230-3-60	44.2	315	44.2	315	4.2	21.0	36.0	234.0	13.0	152	175	162	948	165	200	177	961
	460-3-60	22.4	158	22.4	158	2.1	10.5	18.0	117.0	6.5	77	90	82	475	83	100	89	482
	575-3-60	18.6	136	18.6	136	1.6	7.8	14.2	95.9	5.2	62	80	66	399	68	80	72	404
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	36.0	234.0	14.4	160	200	170	1020	175	200	187	1034
	230-3-60	48.1	351	48.1	351	4.2	21.0	36.0	234.0	13.0	161	200	171	1020	174	200	186	1033
	460-3-60	24.7	197	24.7	197	2.1	10.5	18.0	117.0	6.5	82	100	87	553	88	110	95	560
	575-3-60	22.4	135	22.4	135	1.6	7.8	14.2	95.9	5.2	71	90	75	397	76	90	81	402
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	48.0	312.0	14.4	172	200	184	1098	187	225	201	1112
	230-3-60	48.1	351	48.1	351	4.2	21.0	48.0	312.0	13.0	173	200	185	1098	186	225	200	1111
	460-3-60	24.7	197	24.7	197	2.1	10.5	24.0	156.0	6.5	88	110	94	592	94	110	102	599
	575-3-60	22.4	135	22.4	135	1.6	7.8	19.1	126.0	5.2	76	90	81	427	81	100	87	432
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	48.0	312.0	14.4	228	275	243	1440	243	300	260	1455
	230-3-60	67.3	485	67.3	485	6.8	39.6	48.0	312.0	13.0	227	275	241	1440	240	300	256	1453
	460-3-60	32.7	215	32.7	215	3.4	19.8	24.0	156.0	6.5	111	125	118	665	118	150	126	672
	575-3-60	26.3	175	26.3	175	2.7	15.8	19.1	126.0	5.2	89	110	95	539	94	110	101	544

Table 38: YV28 to YV50 Constant volume high static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	Power exhaust VFD FLA	Power exhaust motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	36.0	234	4.0	21.0	14	152	175	163	968	167	200	180	982
	230-3-60	41.0	304	41.0	304	4.2	21.0	36.0	234	4.2	21.0	13	153	175	165	968	166	200	180	981
	460-3-60	19.2	147	19.2	147	2.1	10.5	18.0	117	2.1	10.5	7	74	90	79	474	80	90	87	481
	575-3-60	16.7	122	16.7	122	1.6	7.8	14.2	95.94	1.6	7.8	5	61	75	66	387	67	80	72	392
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	36.0	234	4.0	21.0	14	159	200	171	990	174	200	187	1004
	230-3-60	44.2	315	44.2	315	4.2	21.0	36.0	234	4.2	21.0	13	161	200	172	990	174	200	187	1003
	460-3-60	22.4	158	22.4	158	2.1	10.5	18.0	117	2.1	10.5	7	81	100	87	496	88	100	94	503
	575-3-60	18.6	136	18.6	136	1.6	7.8	14.2	95.94	1.6	7.8	5	66	80	70	415	71	80	76	420
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	36.0	234	4	21.0	14	168	200	180	1062	183	225	196	1076
	230-3-60	48.1	351	48.1	351	4.2	21.0	36.0	234	4.2	21.0	13	169	200	181	1062	182	225	196	1075
	460-3-60	24.7	197	24.7	197	2.1	10.5	18.0	117	2.1	10.5	7	86	110	92	574	93	110	99	581
	575-3-60	22.4	135	22.4	135	1.6	7.8	14.2	95.94	1.6	7.8	5	74	90	79	413	79	100	85	418
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	48.0	312	7.2	39.6	14	187	225	201	1177	201	225	217	1192
	230-3-60	48.1	351	48.1	351	4.2	21.0	48.0	312	6.8	39.6	13	187	225	201	1177	200	225	216	1190
	460-3-60	24.7	197	24.7	197	2.1	10.5	24.0	156	3.4	19.8	7	95	110	102	632	101	125	109	638
	575-3-60	22.4	135	22.4	135	1.6	7.8	19.1	126	2.7	15.8	5	81	100	87	459	87	100	93	464

Table 38: YV28 to YV50 Constant volume high static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	48.0	312	7.2	39.6	14	243	300	260	1520	257	300	276	1534
	230-3-60	67.3	485	67.3	485	6.8	39.6	48.0	312	6.8	39.6	13	240	300	257	1520	253	300	272	1533
	460-3-60	32.7	215	32.7	215	3.4	19.8	24.0	156	3.4	19.8	7	118	150	126	705	124	150	134	711
	575-3-60	26.3	175	26.3	175	2.7	15.8	19.1	126	2.7	15.8	5	94	110	101	571	100	125	107	576

Table 39: YV28 to YV50 Constant volume high static with modulating power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exh VFD FLA	Power exh motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	36.0	234	9.6	21.0	14	154	175	165	968	168	200	182	982
	230-3-60	41.0	304	41.0	304	4.2	21.0	36.0	234	9.6	21.0	13	155	175	166	968	168	200	181	981
	460-3-60	19.2	147	19.2	147	2.1	10.5	18.0	117	4.8	10.5	7	74	90	80	474	81	100	88	481
	575-3-60	16.7	122	16.7	122	1.6	7.8	14.2	95.94	4.9	7.8	5	63	75	68	387	68	80	74	392
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	36.0	234	9.6	21.0	14	161	200	173	990	175	200	189	1004
	230-3-60	44.2	315	44.2	315	4.2	21.0	36.0	234	9.6	21.0	13	162	200	173	990	175	200	188	1003
	460-3-60	22.4	158	22.4	158	2.1	10.5	18.0	117	4.8	10.5	7	82	100	87	496	88	110	95	503
	575-3-60	18.6	136	18.6	136	1.6	7.8	14.2	95.94	4.9	7.8	5	67	80	72	415	73	90	78	420
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	36.0	234	9.6	21.0	14	170	200	181	1062	184	225	198	1076
	230-3-60	48.1	351	48.1	351	4.2	21.0	36.0	234	9.6	21.0	13	171	200	182	1062	184	225	197	1075
	460-3-60	24.7	197	24.7	197	2.1	10.5	18.0	117	4.8	10.5	7	87	110	93	574	93	110	100	581
	575-3-60	22.4	135	22.4	135	1.6	7.8	14.2	95.94	4.9	7.8	5	76	90	81	413	81	100	87	418
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	48.0	312	15.2	39.6	14	187	225	202	1177	202	225	218	1192
	230-3-60	48.1	351	48.1	351	4.2	21.0	48.0	312	15.2	39.6	13	188	225	203	1177	201	225	218	1190
	460-3-60	24.7	197	24.7	197	2.1	10.5	24.0	156	8.2	19.8	7	96	110	104	632	103	125	111	638
	575-3-60	22.4	135	22.4	135	1.6	7.8	19.1	126	6.1	15.8	5	82	100	88	459	87	100	94	464
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	48.0	312	15.2	39.6	14	243	300	261	1520	258	325	277	1534
	230-3-60	67.3	485	67.3	485	6.8	39.6	48.0	312	15.2	39.6	13	242	300	259	1520	255	300	274	1533
	460-3-60	32.7	215	32.7	215	3.4	19.8	24.0	156	8.2	19.8	7	119	150	128	705	126	150	135	711
	575-3-60	26.3	175	26.3	175	2.7	15.8	19.1	126	6.1	15.8	5	95	110	102	571	100	125	108	576

VFD 2-stage standard static

① Note:

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

Table 40: YV28 to YV50 VFD 2-stage standard static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA								FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	22.0	144.4	14.4	130	150	138	836.4	145	175	154.6	850.8
	230-3-60	41.0	304	41.0	304	4.2	21.0	22.0	144.4	13.0	131	150	139	836.4	144	175	153.9	849.4
	460-3-60	19.2	147	19.2	147	2.1	10.5	11.0	72.2	6.5	63	80	66	408.2	69	80	73.9	414.7
	575-3-60	16.7	122	16.7	122	1.6	7.8	9.0	59.1	5.2	53	60	56	334.3	58	70	62.1	339.5
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	22.0	144.4	14.4	137	175	145	858.4	152	175	161.9	872.8
	230-3-60	44.2	315	44.2	315	4.2	21.0	22.0	144.4	13.0	138	175	146	858.4	151	175	161.2	871.4
	460-3-60	22.4	158	22.4	158	2.1	10.5	11.0	72.2	6.5	70	90	74	430.2	76	90	81.3	436.7
	575-3-60	18.6	136	18.6	136	1.6	7.8	9.0	59.1	5.2	57	75	60	362.3	62	80	66.5	367.5
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	22.0	144.4	14.4	146	175	154	930.4	161	200	170.9	944.8
	230-3-60	48.1	351	48.1	351	4.2	21.0	22.0	144.4	13.0	147	175	155	930.4	160	200	170.2	943.4
	460-3-60	24.7	197	24.7	197	2.1	10.5	11.0	72.2	6.5	75	90	79	508.2	81	100	86.6	514.7
	575-3-60	22.4	135	22.4	135	1.6	7.8	9.0	59.1	5.2	66	80	69	360.3	71	90	75.2	365.5
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	28.0	173.44	14.4	152	200	161	959.4	167	200	177.8	973.8
	230-3-60	48.1	351	48.1	351	4.2	21.0	28.0	173.44	13.0	153	200	162	959.4	166	200	177.1	972.4
	460-3-60	24.7	197	24.7	197	2.1	10.5	14.0	86.72	6.5	78	100	83	522.7	84	100	90.0	529.2
	575-3-60	22.4	135	22.4	135	1.6	7.8	11.0	71.77	5.2	68	90	72	373.0	73	90	77.5	378.2
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	28.0	173.44	14.4	208	275	220	1301.8	223	275	236.7	1316.2
	230-3-60	67.3	485	67.3	485	6.8	39.6	28.0	173.44	13.0	207	250	218	1301.8	220	275	233.2	1314.8
	460-3-60	32.7	215	32.7	215	3.4	19.8	14.0	86.72	6.5	101	125	107	595.9	108	125	114.4	602.4
	575-3-60	26.3	175	26.3	175	2.7	15.8	11.0	71.77	5.2	81	100	86	485.0	86	110	91.5	490.2

Table 41: YV28 to YV50 VFD 2-stage standard static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	22.0	144.4	4.0	21.0	14.4	138	175	147	878	153	175	164	893
	230-3-60	41.0	304	41.0	304	4.2	21.0	22.0	144.4	4.2	21.0	13.0	139	175	149	878	152	175	164	891
	460-3-60	19.2	147	19.2	147	2.1	10.5	11.0	72.2	2.1	10.5	6.5	67	80	71	429	73	90	79	436
	575-3-60	16.7	122	16.7	122	1.6	7.8	9.0	59.1	1.6	7.8	5.2	56	70	60	350	61	75	66	355
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	22.0	144.4	4.0	21.0	14.4	145	175	155	900	160	200	171	915
	230-3-60	44.2	315	44.2	315	4.2	21.0	22.0	144.4	4.2	21.0	13.0	147	175	156	900	160	200	171	913
	460-3-60	22.4	158	22.4	158	2.1	10.5	11.0	72.2	2.1	10.5	6.5	74	90	79	451	81	100	86	458
	575-3-60	18.6	136	18.6	136	1.6	7.8	9.0	59.1	1.6	7.8	5.2	60	75	64	378	66	80	70	383
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	22.0	144.4	4	21.0	14.4	154	200	164	972	169	200	180	987
	230-3-60	48.1	351	48.1	351	4.2	21.0	22.0	144.4	4.2	21.0	13.0	155	200	165	972	168	200	180	985
	460-3-60	24.7	197	24.7	197	2.1	10.5	11.0	72.2	2.1	10.5	6.5	79	100	84	529	86	110	91	536
	575-3-60	22.4	135	22.4	135	1.6	7.8	9.0	59.1	1.6	7.8	5.2	69	90	73	376	74	90	79	381

Table 41: YV28 to YV50 VFD 2-stage standard static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	28.0	173.44	7.2	39.6	14.4	167	200	178	1039	181	225	194	1053
	230-3-60	48.1	351	48.1	351	4.2	21.0	28.0	173.44	6.8	39.6	13.0	167	200	178	1039	180	225	193	1052
	460-3-60	24.7	197	24.7	197	2.1	10.5	14.0	86.72	3.4	19.8	6.5	85	100	90	562	91	110	98	569
	575-3-60	22.4	135	22.4	135	1.6	7.8	11.0	71.77	2.7	15.8	5.2	73	90	78	405	78	100	84	410
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	28.0	173.44	7.2	39.6	14.4	223	275	237	1381	237	300	253	1395
	230-3-60	67.3	485	67.3	485	6.8	39.6	28.0	173.44	6.8	39.6	13.0	220	275	234	1381	233	300	249	1394
	460-3-60	32.7	215	32.7	215	3.4	19.8	14.0	86.72	3.4	19.8	6.5	108	125	115	636	114	125	122	642
	575-3-60	26.3	175	26.3	175	2.7	15.8	11.0	71.77	2.7	15.8	5.2	86	110	92	517	92	110	98	522

Table 42: YV28 to YV50 VFD 2-stage standard static with modulating power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exh VFD FLA	Power exh motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	19.4	144.4	9.6	21.0	14.4	137	175	146	878	152	175	163	893
	230-3-60	41.0	304	41.0	304	4.2	21.0	19.4	144.4	9.6	21.0	13.0	138	175	147	878	151	175	162	891
	460-3-60	19.2	147	19.2	147	2.1	10.5	9.7	72.2	4.8	10.5	6.5	66	80	70	429	73	90	78	436
	575-3-60	16.7	122	16.7	122	1.6	7.8	8.0	59.1	4.9	7.8	5.2	57	70	61	350	62	75	67	355
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	19.4	144.4	9.6	21.0	14.4	144	175	153	900	159	200	170	915
	230-3-60	44.2	315	44.2	315	4.2	21.0	19.4	144.4	9.6	21.0	13.0	145	175	154	900	158	200	169	913
	460-3-60	22.4	158	22.4	158	2.1	10.5	9.7	72.2	4.8	10.5	6.5	73	90	78	451	80	100	85	458
	575-3-60	18.6	136	18.6	136	1.6	7.8	8.0	59.1	4.9	7.8	5.2	61	75	65	378	66	80	71	383
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	19.4	144.4	9.6	21.0	14.4	153	200	162	972	168	200	179	987
	230-3-60	48.1	351	48.1	351	4.2	21.0	19.4	144.4	9.6	21.0	13.0	154	200	163	972	167	200	178	985
	460-3-60	24.7	197	24.7	197	2.1	10.5	9.7	72.2	4.8	10.5	6.5	78	100	83	529	85	100	91	536
	575-3-60	22.4	135	22.4	135	1.6	7.8	8.0	59.1	4.9	7.8	5.2	70	90	74	376	75	90	80	381
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	25.0	173.4	15.2	39.6	14.4	164	200	175	1039	179	225	192	1053
	230-3-60	48.1	351	48.1	351	4.2	21.0	25.0	173.4	15.2	39.6	13.0	165	200	176	1039	178	225	191	1052
	460-3-60	24.7	197	24.7	197	2.1	10.5	12.5	86.7	8.2	19.8	6.5	85	100	90	562	91	110	98	569
	575-3-60	22.4	135	22.4	135	1.6	7.8	10.0	71.8	6.1	15.8	5.2	73	90	77	405	78	100	83	410
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	25.0	173.4	15.2	39.6	14.4	220	275	234	1381	235	300	251	1395
	230-3-60	67.3	485	67.3	485	6.8	39.6	25.0	173.4	15.2	39.6	13.0	219	275	232	1381	232	275	247	1394
	460-3-60	32.7	215	32.7	215	3.4	19.8	12.5	86.7	8.2	19.8	6.5	108	125	115	636	114	125	122	642
	575-3-60	26.3	175	26.3	175	2.7	15.8	10.0	71.8	6.1	15.8	5.2	86	110	91	517	91	110	97	522

VFD 2-stage medium static

① Note:

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

Table 43: YV28 to YV50 VFD 2-stage medium static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA								FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	28.0	173.44	14.4	136	175	145	865.4	151	175	161.5	879.8
	230-3-60	41.0	304	41.0	304	4.2	21.0	28.0	173.44	13.0	137	175	146	865.4	150	175	160.8	878.4
	460-3-60	19.2	147	19.2	147	2.1	10.5	14.0	86.72	6.5	66	80	70	422.7	72	90	77.4	429.2
	575-3-60	16.7	122	16.7	122	1.6	7.8	11.0	71.77	5.2	55	70	58	347.0	60	75	64.4	352.2
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	28.0	173.44	14.4	143	175	152	887.4	158	200	168.8	901.8
	230-3-60	44.2	315	44.2	315	4.2	21.0	28.0	173.44	13.0	144	175	153	887.4	157	200	168.1	900.4
	460-3-60	22.4	158	22.4	158	2.1	10.5	14.0	86.72	6.5	73	90	77	444.7	79	100	84.8	451.2
	575-3-60	18.6	136	18.6	136	1.6	7.8	11.0	71.77	5.2	59	75	63	375.0	64	80	68.8	380.2
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	28.0	173.44	14.4	152	200	161	959.4	167	200	177.8	973.8
	230-3-60	48.1	351	48.1	351	4.2	21.0	28.0	173.44	13.0	153	200	162	959.4	166	200	177.1	972.4
	460-3-60	24.7	197	24.7	197	2.1	10.5	14.0	86.72	6.5	78	100	83	522.7	84	100	90.0	529.2
	575-3-60	22.4	135	22.4	135	1.6	7.8	11.0	71.77	5.2	68	90	72	373.0	73	90	77.5	378.2
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	42.0	234	14.4	166	200	177	1020.0	181	225	193.9	1034.4
	230-3-60	48.1	351	48.1	351	4.2	21.0	42.0	234	13.0	167	200	178	1020.0	180	225	193.2	1033.0
	460-3-60	24.7	197	24.7	197	2.1	10.5	21.0	117	6.5	85	100	91	553.0	91	110	98.1	559.5
	575-3-60	22.4	135	22.4	135	1.6	7.8	18.0	95.94	5.2	75	90	80	397.1	80	100	85.6	402.3
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	42.0	234	14.4	222	275	236	1362.4	237	300	252.8	1376.8
	230-3-60	67.3	485	67.3	485	6.8	39.6	42.0	234	13.0	221	275	234	1362.4	234	300	249.3	1375.4
	460-3-60	32.7	215	32.7	215	3.4	19.8	21.0	117	6.5	108	125	115	626.2	115	125	122.5	632.7
	575-3-60	26.3	175	26.3	175	2.7	15.8	18.0	95.94	5.2	88	110	94	509.1	93	110	99.6	514.3

Table 44: YV28 to YV50 VFD 2-stage medium static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	28.0	173.4	4.0	21.0	14.4	144	175	154	907	159	175	171	922
	230-3-60	41.0	304	41.0	304	4.2	21.0	28.0	173.4	4.2	21.0	13.0	145	175	155	907	158	175	170	920
	460-3-60	19.2	147	19.2	147	2.1	10.5	14.0	86.7	2.1	10.5	6.5	70	80	75	444	76	90	82	450
	575-3-60	16.7	122	16.7	122	1.6	7.8	11.0	71.8	1.6	7.8	5.2	58	70	62	363	63	80	68	368
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	28.0	173.4	4.0	21.0	14.4	151	175	161	929	166	200	178	944
	230-3-60	44.2	315	44.2	315	4.2	21.0	28.0	173.4	4.2	21.0	13.0	153	175	163	929	166	200	178	942
	460-3-60	22.4	158	22.4	158	2.1	10.5	14.0	86.7	2.1	10.5	6.5	77	90	82	466	84	100	90	472
	575-3-60	18.6	136	18.6	136	1.6	7.8	11.0	71.8	1.6	7.8	5.2	62	80	66	391	68	80	72	396
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	28.0	173.4	4	21.0	14.4	160	200	170	1001	175	200	187	1016
	230-3-60	48.1	351	48.1	351	4.2	21.0	28.0	173.4	4.2	21.0	13.0	161	200	172	1001	174	200	187	1014
	460-3-60	24.7	197	24.7	197	2.1	10.5	14.0	86.7	2.1	10.5	6.5	82	100	87	544	89	110	95	550
	575-3-60	22.4	135	22.4	135	1.6	7.8	11.0	71.8	1.6	7.8	5.2	71	90	75	389	76	90	81	394
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	42.0	234.0	7.2	39.6	14.4	181	225	194	1099	195	225	210	1114
	230-3-60	48.1	351	48.1	351	4.2	21.0	42.0	234.0	6.8	39.6	13.0	181	225	194	1099	194	225	209	1112
	460-3-60	24.7	197	24.7	197	2.1	10.5	21.0	117.0	3.4	19.8	6.5	92	110	98	593	98	110	106	599
	575-3-60	22.4	135	22.4	135	1.6	7.8	18.0	95.9	2.7	15.8	5.2	80	100	86	429	85	100	92	434

Table 44: YV28 to YV50 VFD 2-stage medium static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	42.0	234.0	7.2	39.6	14.4	237	300	253	1442	251	300	269	1456
	230-3-60	67.3	485	67.3	485	6.8	39.6	42.0	234.0	6.8	39.6	13.0	234	300	250	1442	247	300	265	1455
	460-3-60	32.7	215	32.7	215	3.4	19.8	21.0	117.0	3.4	19.8	6.5	115	125	123	666	121	150	130	672
	575-3-60	26.3	175	26.3	175	2.7	15.8	18.0	95.9	2.7	15.8	5.2	93	110	100	541	99	110	106	546

Table 45: YV28 to YV50 VFD 2-stage medium static modulating power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exh VFD FLA	Power exh motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	28.0	173.44	9.6	21.0	14.4	146	175	156	907	160	200	173	922
	230-3-60	41.0	304	41.0	304	4.2	21.0	28.0	173.44	9.6	21.0	13.0	147	175	157	907	160	200	172	920
	460-3-60	19.2	147	19.2	147	2.1	10.5	14.0	86.72	4.8	10.5	6.5	70	80	75	444	77	90	83	450
	575-3-60	16.7	122	16.7	122	1.6	7.8	11.0	71.77	4.9	7.8	5.2	60	75	64	363	65	80	70	368
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	28.0	173.44	9.6	21.0	14.4	153	175	163	929	167	200	180	944
	230-3-60	44.2	315	44.2	315	4.2	21.0	28.0	173.44	9.6	21.0	13.0	154	175	164	929	167	200	179	942
	460-3-60	22.4	158	22.4	158	2.1	10.5	14.0	86.72	4.8	10.5	6.5	78	100	83	466	84	100	90	472
	575-3-60	18.6	136	18.6	136	1.6	7.8	11.0	71.77	4.9	7.8	5.2	64	80	68	391	69	80	74	396
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	28.0	173.44	9.6	21.0	14.4	162	200	172	1001	176	200	189	1016
	230-3-60	48.1	351	48.1	351	4.2	21.0	28.0	173.44	9.6	21.0	13.0	163	200	173	1001	176	200	188	1014
	460-3-60	24.7	197	24.7	197	2.1	10.5	14.0	86.72	4.8	10.5	6.5	83	100	88	544	89	110	96	550
	575-3-60	22.4	135	22.4	135	1.6	7.8	11.0	71.77	4.9	7.8	5.2	73	90	77	389	78	100	83	394
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	42.0	234	15.2	39.6	14.4	181	225	195	1099	196	225	211	1114
	230-3-60	48.1	351	48.1	351	4.2	21.0	42.0	234	15.2	39.6	13.0	182	225	196	1099	195	225	211	1112
	460-3-60	24.7	197	24.7	197	2.1	10.5	21.0	117	8.2	19.8	6.5	93	110	100	593	100	110	108	599
	575-3-60	22.4	135	22.4	135	1.6	7.8	18.0	95.94	6.1	15.8	5.2	81	100	87	429	86	100	93	434
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	42.0	234	15.2	39.6	14.4	237	300	254	1442	252	300	270	1456
	230-3-60	67.3	485	67.3	485	6.8	39.6	42.0	234	15.2	39.6	13.0	236	300	252	1442	249	300	267	1455
	460-3-60	32.7	215	32.7	215	3.4	19.8	21.0	117	8.2	19.8	6.5	116	125	124	666	123	150	132	672
	575-3-60	26.3	175	26.3	175	2.7	15.8	18.0	95.94	6.1	15.8	5.2	94	110	101	541	99	125	107	546

VFD 2-stage high static

① Note:

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

Table 46: YV28 to YV50 VFD 2-stage high static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA								FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	42.0	234.0	14.4	152	175	161	926	166	200	178	940
	230-3-60	41.0	304	41.0	304	4.2	21.0	42.0	234.0	13.0	152	175	162	926	165	200	177	939
	460-3-60	19.2	147	19.2	147	2.1	10.5	21.0	117.0	6.5	75	90	78	453	81	100	85	460
	575-3-60	16.7	122	16.7	122	1.6	7.8	18.0	95.9	5.2	64	80	66	371	69	80	72	376
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	42.0	234.0	14.4	157	200	168	948	172	200	185	962
	230-3-60	44.2	315	44.2	315	4.2	21.0	42.0	234.0	13.0	158	200	169	948	171	200	184	961
	460-3-60	22.4	158	22.4	158	2.1	10.5	21.0	117.0	6.5	80	100	85	475	86	100	93	482
	575-3-60	18.6	136	18.6	136	1.6	7.8	18.0	95.9	5.2	66	80	71	399	71	90	77	404
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	42.0	234.0	14.4	166	200	177	1020	181	225	194	1034
	230-3-60	48.1	351	48.1	351	4.2	21.0	42.0	234.0	13.0	167	200	178	1020	180	225	193	1033
	460-3-60	24.7	197	24.7	197	2.1	10.5	21.0	117.0	6.5	85	100	91	553	91	110	98	560
	575-3-60	22.4	135	22.4	135	1.6	7.8	18.0	95.9	5.2	75	90	80	397	80	100	86	402
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	59.4	312.0	14.4	198	250	197	1098	212	250	214	1112
	230-3-60	48.1	351	48.1	351	4.2	21.0	59.4	312.0	13.0	199	250	198	1098	212	250	213	1111
	460-3-60	24.7	197	24.7	197	2.1	10.5	27.0	156.0	6.5	94	110	98	592	100	125	105	599
	575-3-60	22.4	135	22.4	135	1.6	7.8	22.0	126.0	5.2	79	100	84	427	84	100	90	432
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	74.8	312.0	14.4	256.9	325	274	1440	271	325	290	1455
	230-3-60	67.3	485	67.3	485	6.8	39.6	74.8	312.0	13.0	255.3	325	272	1440	268	325	287	1453
	460-3-60	32.7	215	32.7	215	3.4	19.8	27.0	156.0	6.5	114.2	125	122	665	121	150	129	672
	575-3-60	26.3	175	26.3	175	2.7	15.8	22.0	126.0	5.2	92	110	98	539	97	110	104	544

Table 47: YV28 to YV50 VFD 2-stage high static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	42.0	234	4.0	21.0	14	160	200	170	968	174	200	187	982
	230-3-60	41.0	304	41.0	304	4.2	21.0	42.0	234	4.2	21.0	13	161	200	172	968	174	200	187	981
	460-3-60	19.2	147	19.2	147	2.1	10.5	21.0	117	2.1	10.5	7	79	100	83	474	86	100	90	481
	575-3-60	16.7	122	16.7	122	1.6	7.8	18.0	95.94	1.6	7.8	5	67	80	70	387	72	90	76	392
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	42.0	234	4.0	21.0	14	165	200	178	990	180	200	194	1004
	230-3-60	44.2	315	44.2	315	4.2	21.0	42.0	234	4.2	21.0	13	167	200	179	990	180	200	194	1003
	460-3-60	22.4	158	22.4	158	2.1	10.5	21.0	117	2.1	10.5	7	84	100	90	496	91	110	98	503
	575-3-60	18.6	136	18.6	136	1.6	7.8	18.0	95.94	1.6	7.8	5	69	80	75	415	75	90	81	420
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	42.0	234	4	21.0	14	174	200	187	1062	189	225	203	1076
	230-3-60	48.1	351	48.1	351	4.2	21.0	42.0	234	4.2	21.0	13	175	200	188	1062	188	225	203	1075
	460-3-60	24.7	197	24.7	197	2.1	10.5	21.0	117	2.1	10.5	7	89	110	95	574	96	110	103	581
	575-3-60	22.4	135	22.4	135	1.6	7.8	18.0	95.94	1.6	7.8	5	78	100	83	413	83	100	89	418
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	59.4	312	7.2	39.6	14	212	250	214	1177	227	275	230	1192
	230-3-60	48.1	351	48.1	351	4.2	21.0	59.4	312	6.8	39.6	13	212	250	214	1177	225	275	229	1190
	460-3-60	24.7	197	24.7	197	2.1	10.5	27.0	156	3.4	19.8	7	101	125	105	632	107	125	113	638
	575-3-60	22.4	135	22.4	135	1.6	7.8	22.0	126	2.7	15.8	5	84	100	90	459	89	110	96	464

Table 47: YV28 to YV50 VFD 2-stage high static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	74.8	312	7.2	39.6	14	271.3	325	290	1520	286	350	307	1534
	230-3-60	67.3	485	67.3	485	6.8	39.6	74.8	312	6.8	39.6	13	268.9	325	288	1520	282	350	303	1533
	460-3-60	32.7	215	32.7	215	3.4	19.8	27.0	156	3.4	19.8	7	121	150	130	705	127	150	137	711
	575-3-60	26.3	175	26.3	175	2.7	15.8	22.0	126	2.7	15.8	5	97	110	104	571	103	125	110	576

Table 48: YV28 to YV50 VFD 2-stage high static with modulating power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exh VFD FLA	Power exh motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	41.0	304	4.0	21.0	42.0	234	9.6	21.0	14	161	200	172	968	176	200	189	982
	230-3-60	41.0	304	41.0	304	4.2	21.0	42.0	234	9.6	21.0	13	162	200	173	968	175	200	188	981
	460-3-60	19.2	147	19.2	147	2.1	10.5	21.0	117	4.8	10.5	7	80	100	83	474	86	100	91	481
	575-3-60	16.7	122	16.7	122	1.6	7.8	18.0	95.94	4.9	7.8	5	69	80	72	387	74	90	78	392
YV30 (30)	208-3-60	44.2	315	44.2	315	4.0	21.0	42.0	234	9.6	21.0	14	167	200	179	990	181	225	196	1004
	230-3-60	44.2	315	44.2	315	4.2	21.0	42.0	234	9.6	21.0	13	168	200	180	990	181	225	195	1003
	460-3-60	22.4	158	22.4	158	2.1	10.5	21.0	117	4.8	10.5	7	85	100	91	496	91	110	98	503
	575-3-60	18.6	136	18.6	136	1.6	7.8	18.0	95.94	4.9	7.8	5	71	80	76	415	76	90	82	420
YV35 (35)	208-3-60	48.1	351	48.1	351	4	21.0	42.0	234	9.6	21.0	14	176	200	188	1062	190	225	205	1076
	230-3-60	48.1	351	48.1	351	4.2	21.0	42.0	234	9.6	21.0	13	177	200	189	1062	190	225	204	1075
	460-3-60	24.7	197	24.7	197	2.1	10.5	21.0	117	4.8	10.5	7	90	110	96	574	96	110	104	581
	575-3-60	22.4	135	22.4	135	1.6	7.8	18.0	95.94	4.9	7.8	5	80	100	85	413	85	100	91	418
YV40 (40)	208-3-60	48.1	351	48.1	351	4	21.0	59.4	312	15.2	39.6	14	213	250	215	1177	227	275	231	1192
	230-3-60	48.1	351	48.1	351	4.2	21.0	59.4	312	15.2	39.6	13	214	250	216	1177	227	275	231	1190
	460-3-60	24.7	197	24.7	197	2.1	10.5	27.0	156	8.2	19.8	7	102	125	107	632	109	125	114	638
	575-3-60	22.4	135	22.4	135	1.6	7.8	22.0	126	6.1	15.8	5	85	100	91	459	90	110	97	464
YV50 (50)	208-3-60	67.3	485	67.3	485	7.2	39.6	74.8	312	15.2	39.6	14	272.1	325	291	1520	287	350	308	1534
	230-3-60	67.3	485	67.3	485	6.8	39.6	74.8	312	15.2	39.6	13	270.5	325	290	1520	284	350	305	1533
	460-3-60	32.7	215	32.7	215	3.4	19.8	27.0	156	8.2	19.8	7	122	150	131	705	129	150	139	711
	575-3-60	26.3	175	26.3	175	2.7	15.8	22.0	126	6.1	15.8	5	98	110	105	571	103	125	111	576

VFD 4-stage standard static

① Note:

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

Table 49: YV28 to YV50 VFD 4-stage standard static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA								FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	22.0	144.4	14.4	134	175	142	830	148	175	158.9	844.8
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	22.0	144.4	13.0	135	175	143	830	148	175	158.2	843.4
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	11.0	72.2	6.5	65	80	69	411	71	90	76.2	417.7
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	9.0	59.1	5.2	52	60	55	320	57	70	60.6	325.5
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	22.0	144.4	14.4	143.3	175	152	871	158	200	168.6	885.8
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	22.0	144.4	13.0	144.1	175	153	871	157	200	167.9	884.4
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	11.0	72.2	6.5	73	90	78	472	80	100	85.0	478.7
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	9.0	59.1	5.2	58	75	61	382	63	80	67.2	387.5
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	22.0	144.4	14.4	153	200	162	961	168	200	179.1	975.8
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	22.0	144.4	13.0	154	200	163	961	167	200	178.4	974.4
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	11.0	72.2	6.5	76	100	80	511	82	100	87.6	517.7
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	9.0	59.1	5.2	63	80	66	381	68	90	71.5	386.5
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	28.0	173.44	14.4	159	200	169	990	174	200	186.0	1004.8
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	28.0	173.44	13.0	160	200	170	990	173	200	185.3	1003.4
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	14.0	86.72	6.5	79	100	84	526	85	110	91.1	532.2
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	11.0	71.77	5.2	65	80	68	394	70	90	73.8	399.2
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	28.0	173.44	14.4	219	275	233	1351	234	300	249.2	1365.2
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	28.0	173.44	13.0	218	275	231	1351	231	275	245.8	1363.8
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	14.0	86.72	6.5	106	125	112	665	112	125	119.6	671.4
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	11.0	71.77	5.2	85	110	91	516	91	110	96.7	521.2

Table 50: YV28 to YV50 VFD 4-stage standard static with on/off power exhaust exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	22.0	144.4	4.0	21.0	14.4	142	175	152	872	156	175	168	887
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	22.0	144.4	4.2	21.0	13.0	143	175	153	872	156	175	168	885
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	11.0	72.2	2.1	10.5	6.5	69	80	74	432	75	90	81	439
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	9.0	59.1	1.6	7.8	5.2	55	70	58	336	60	75	64	341
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	22.0	144.4	4.0	21.0	14.4	151	175	161	913	166	200	178	928
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	22.0	144.4	4.2	21.0	13.0	152	175	163	913	165	200	178	926
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	11.0	72.2	2.1	10.5	6.5	77	90	82	493	84	100	90	500
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	9.0	59.1	1.6	7.8	5.2	61	75	65	398	66	80	71	403
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	22.0	144.4	4	21.0	14.4	161	200	172	1003	176	200	188	1018
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	22.0	144.4	4.2	21.0	13.0	163	200	173	1003	176	200	188	1016
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	11.0	72.2	2.1	10.5	6.5	80	100	85	532	87	110	92	539
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	9.0	59.1	1.6	7.8	5.2	66	80	69	397	71	90	75	402

Table 50: YV28 to YV50 VFD 4-stage standard static with on/off power exhaust exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	28.0	173.44	7.2	39.6	14.4	174	200	186	1070	188	225	203	1084
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	28.0	173.44	6.8	39.6	13.0	174	200	186	1070	187	225	201	1083
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	14.0	86.72	3.4	19.8	6.5	86	110	91	565	92	110	99	572
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	11.0	71.77	2.7	15.8	5.2	70	90	74	426	75	90	80	431
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	28.0	173.44	7.2	39.6	14.4	234	300	249	1430	248	300	266	1444
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	28.0	173.44	6.8	39.6	13.0	231	275	246	1430	244	300	261	1443
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	14.0	86.72	3.4	19.8	6.5	112	125	120	705	119	150	127	711
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	11.0	71.77	2.7	15.8	5.2	91	110	97	548	96	110	103	553

Table 51: YV28 to YV50 VFD 4-stage standard static with modulating power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	22.0	144.4	9.6	21.0	14.4	144	175	153	872	158	175	170	887
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	22.0	144.4	9.6	21.0	13.0	144	175	154	872	157	175	169	885
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	11.0	72.2	4.8	10.5	6.5	69	80	74	432	76	90	82	439
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	9.0	59.1	4.9	7.8	5.2	57	70	60	336	62	75	66	341
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	22.0	144.4	9.6	21.0	14.4	153	175	163	913	167	200	180	928
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	22.0	144.4	9.6	21.0	13.0	154	175	164	913	167	200	179	926
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	11.0	72.2	4.8	10.5	6.5	78	100	83	493	84	100	91	500
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	9.0	59.1	4.9	7.8	5.2	63	80	67	398	68	80	73	403
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	22.0	144.4	9.6	21.0	14.4	163	200	174	1003	177	225	190	1018
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	22.0	144.4	9.6	21.0	13.0	164	200	174	1003	177	200	189	1016
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	11.0	72.2	4.8	10.5	6.5	81	100	86	532	87	110	93	539
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	9.0	59.1	4.9	7.8	5.2	68	80	71	397	73	90	77	402
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	28.0	173.44	15.2	39.6	14.4	175	200	187	1070	189	225	203	1084
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	28.0	173.44	15.2	39.6	13.0	175	200	188	1070	188	225	203	1083
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	14.0	86.72	8.2	19.8	6.5	87	110	93	565	94	110	101	572
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	11.0	71.77	6.1	15.8	5.2	71	90	75	426	76	90	81	431
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	28.0	173.44	15.2	39.6	14.4	234	300	250	1430	249	300	267	1444
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	28.0	173.44	15.2	39.6	13.0	233	300	248	1430	246	300	263	1443
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	14.0	86.72	8.2	19.8	6.5	114	125	122	705	120	150	129	711
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	11.0	71.77	6.1	15.8	5.2	92	110	98	548	97	110	104	553

VFD 4-stage medium static

① Note:

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

Table 52: YV28 to YV50 VFD 4-stage medium static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA								FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	28.0	173.44	14.4	140	175	149	859	154	175	166	874
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	28.0	173.44	13.0	141	175	150	859	154	175	165	872
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	14.0	86.72	6.5	68	80	72	426	74	90	80	432
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	11.0	71.77	5.2	54	70	57	333	59	75	63	338
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	28.0	173.44	14.4	149	175	159	900	164	200	175	915
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	28.0	173.44	13.0	150	175	160	900	163	200	175	913
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	14.0	86.72	6.5	76	90	81	487	83	100	88	493
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	11.0	71.77	5.2	60	75	63	395	65	80	69	400
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	28.0	173.44	14.4	159	200	169	990	174	200	186	1005
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	28.0	173.44	13.0	160	200	170	990	173	200	185	1003
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	14.0	86.72	6.5	79	100	84	526	85	110	91	532
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	11.0	71.77	5.2	65	80	68	394	70	90	74	399
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	42.0	234	14.4	173	200	185	1051	188	225	202	1065
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	42.0	234	13.0	174	200	186	1051	187	225	201	1064
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	21.0	117	6.5	86	110	92	556	92	110	99	563
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	18.0	95.94	5.2	72	90	76	418	77	90	82	423
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	42.0	234	14.4	233	300	249	1411	248	300	265	1426
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	42.0	234	13.0	232	275	247	1411	245	300	262	1424
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	21.0	117	6.5	113	125	120	695	119	150	128	702
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	18.0	95.94	5.2	92	110	99	540	98	110	105	545

Table 53: YV28 to YV50 VFD 4-stage medium static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	28.0	173.44	4.0	21.0	14.4	148	175	158	901	162	200	175	916
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	28.0	173.44	4.2	21.0	13.0	149	175	160	901	162	200	175	914
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	14.0	86.72	2.1	10.5	6.5	72	90	77	447	78	90	85	453
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	11.0	71.77	1.6	7.8	5.2	57	70	61	349	62	75	67	354
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	28.0	173.44	4.0	21.0	14.4	157	200	168	942	172	200	185	957
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	28.0	173.44	4.2	21.0	13.0	158	200	170	942	171	200	184	955
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	14.0	86.72	2.1	10.5	6.5	80	100	86	508	87	100	93	514
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	11.0	71.77	1.6	7.8	5.2	63	80	67	411	68	80	73	416
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	28.0	173.44	4	21.0	14.4	167	200	179	1032	182	225	195	1047
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	28.0	173.44	4.2	21.0	13.0	169	200	180	1032	182	225	195	1045
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	14.0	86.72	2.1	10.5	6.5	83	100	88	547	90	110	96	553
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	11.0	71.77	1.6	7.8	5.2	68	90	72	410	73	90	78	415
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	42.0	234	7.2	39.6	14.4	188	225	202	1130	202	250	219	1145
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	42.0	234	6.8	39.6	13.0	188	225	202	1130	201	225	217	1143
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	21.0	117	3.4	19.8	6.5	93	110	99	596	99	110	107	602
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	18.0	95.94	2.7	15.8	5.2	77	90	82	450	82	100	88	455

Table 53: YV28 to YV50 VFD 4-stage medium static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	42.0	234	7.2	39.6	14.4	248	300	265	1491	262	325	282	1505
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	42.0	234	6.8	39.6	13.0	245	300	263	1491	258	325	277	1504
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	21.0	117	3.4	19.8	6.5	119	150	128	735	126	150	135	741
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	18.0	95.94	2.7	15.8	5.2	98	110	105	572	103	125	111	577

Table 54: YV28 to YV50 VFD 4-stage medium static with modulating exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	28.0	173.44	9.6	21.0	14.4	150	175	160	901	164	200	177	916
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	28.0	173.44	9.6	21.0	13.0	150	175	161	901	163	200	176	914
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	14.0	86.72	4.8	10.5	6.5	72	90	78	447	79	90	85	453
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	11.0	71.77	4.9	7.8	5.2	59	75	63	349	64	80	69	354
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	28.0	173.44	9.6	21.0	14.4	159	200	170	942	173	200	187	957
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	28.0	173.44	9.6	21.0	13.0	160	200	171	942	173	200	186	955
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	14.0	86.72	4.8	10.5	6.5	81	100	86	508	87	100	94	514
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	11.0	71.77	4.9	7.8	5.2	65	80	69	411	70	80	75	416
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	28.0	173.44	9.6	21.0	14.4	169	200	180	1032	183	225	197	1047
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	28.0	173.44	9.6	21.0	13.0	170	200	181	1032	183	225	196	1045
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	14.0	86.72	4.8	10.5	6.5	84	100	89	547	90	110	97	553
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	11.0	71.77	4.9	7.8	5.2	70	90	73	410	75	90	79	415
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	42.0	234	15.2	39.6	14.4	189	225	203	1130	203	250	220	1145
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	42.0	234	15.2	39.6	13.0	189	225	204	1130	202	250	219	1143
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	21.0	117	8.2	19.8	6.5	94	110	101	596	101	125	109	602
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	18.0	95.94	6.1	15.8	5.2	78	100	83	450	83	100	89	455
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	42.0	234	15.2	39.6	14.4	248	300	266	1491	263	325	283	1505
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	42.0	234	15.2	39.6	13.0	247	300	264	1491	260	325	279	1504
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	21.0	117	8.2	19.8	6.5	121	150	130	735	127	150	137	741
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	18.0	95.94	6.1	15.8	5.2	99	110	106	572	104	125	112	577

VFD 4-stage high static

① Note:

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

Table 55: YV28 to YV50VFD 4-stage high static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA								FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	42.0	234	14.4	155	175.0	165	920.0	170	200.0	181.9	934.4
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	42.0	234	13.0	156	175.0	166	920.0	169	200.0	181.2	933.0
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	21.0	117	6.5	77	90.0	80	456.0	83	100.0	87.7	462.5
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	18.0	95.94	5.2	62	80.0	65	357.1	68	80.0	71.0	362.3
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	42.0	234	14.4	163	200.0	175	961.0	178	200.0	191.6	975.4
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	42.0	234	13.0	164	200.0	176	961.0	177	200.0	190.9	974.0
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	21.0	117	6.5	83	100.0	89	517.0	90	110.0	96.5	523.5
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	18.0	95.94	5.2	67	80.0	72	419.1	72	90.0	77.5	424.3
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	42.0	234	14.4	173	200.0	185	1051.0	188	225.0	202.1	1065.4
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	42.0	234	13.0	174	200.0	186	1051.0	187	225.0	201.4	1064.0
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	21.0	117	6.5	86	110.0	92	556.0	92	110.0	99.1	562.5
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	18.0	95.94	5.2	72	90.0	76	418.1	77	90.0	81.9	423.3
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	59.4	312	14.4	205	250.0	206	1129.0	219	275.0	222.1	1143.4
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	59.4	312	13.0	206	250.0	206	1129.0	219	275.0	221.4	1142.0
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	27.0	156	6.5	95	110.0	99	595.0	101	125.0	106.0	601.5
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	22.0	126	5.2	76	90.0	81	448.2	81	100.0	86.5	453.4
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	74.8	312	14.4	268	325.0	286	1489.4	282	350.0	303.0	1503.8
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	74.8	312	13.0	266	325.0	285	1489.4	279	350.0	299.6	1502.4
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	27.0	156	6.5	119	150.0	127	734.2	125	150.0	134.6	740.7
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	22.0	126	5.2	96	110.0	103	570.2	102	125.0	109.4	575.4

Table 56: YV28 to YV50 VFD 4-stage high static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	42.0	234	4.0	21.0	14.4	163	200	175	962	178	200	191	976
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	42.0	234	4.2	21.0	13.0	165	200	176	962	178	200	191	975
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	21.0	117	2.1	10.5	6.5	81	100	85	477	88	100	93	484
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	18.0	95.94	1.6	7.8	5.2	66	80	69	373	71	80	75	378
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	42.0	234	4.0	21.0	14.4	171	200	184	1003	186	225	201	1017
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	42.0	234	4.2	21.0	13.0	172	200	186	1003	185	225	201	1016
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	21.0	117	2.1	10.5	6.5	87	100	94	538	94	110	101	545
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	18.0	95.94	1.6	7.8	5.2	70	80	75	435	75	90	81	440
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	42.0	234	4	21.0	14.4	181	225	195	1093	196	225	211	1107
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	42.0	234	4.2	21.0	13.0	183	225	196	1093	196	225	211	1106
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	21.0	117	2.1	10.5	6.5	90	110	96	577	97	110	104	584
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	18.0	95.94	1.6	7.8	5.2	75	90	80	434	80	100	86	439
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	59.4	312	7.2	39.6	14.4	219	275	222	1208	234	275	239	1223
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	59.4	312	6.8	39.6	13.0	219	275	222	1208	232	275	237	1221
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	27.0	156	3.4	19.8	6.5	102	125	106	635	108	125	114	641
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	22.0	126	2.7	15.8	5.2	81	100	87	480	86	100	93	485

Table 56: YV28 to YV50 VFD 4-stage high static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	74.8	312	7.2	39.6	14.4	282	350	303	1569	297	350	320	1583
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	74.8	312	6.8	39.6	13.0	280	350	300	1569	293	350	315	1582
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	27.0	156	3.4	19.8	6.5	125	150	135	774	132	150	142	780
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	22.0	126	2.7	15.8	5.2	102	125	110	602	107	125	116	607

Table 57: YV28 to YV50 VFD 4-stage high static with modulating power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	42.0	234	9.6	21.0	14.4	165	200	176	962	179	200	193	976
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	42.0	234	9.6	21.0	13.0	166	200	177	962	179	200	192	975
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	21.0	117	4.8	10.5	6.5	82	100	86	477	88	100	93	484
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	18.0	95.94	4.9	7.8	5.2	67	80	71	373	72	90	77	378
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	42.0	234	9.6	21.0	14.4	173	200	186	1003	187	225	203	1017
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	42.0	234	9.6	21.0	13.0	174	200	187	1003	187	225	202	1016
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	21.0	117	4.8	10.5	6.5	88	110	95	538	94	110	102	545
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	18.0	95.94	4.9	7.8	5.2	72	90	77	435	77	90	83	440
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	42.0	234	9.6	21.0	14.4	183	225	197	1093	197	225	213	1107
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	42.0	234	9.6	21.0	13.0	184	225	197	1093	197	225	212	1106
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	21.0	117	4.8	10.5	6.5	91	110	97	577	97	110	105	584
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	18.0	95.94	4.9	7.8	5.2	77	90	82	434	82	100	88	439
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	59.4	312	15.2	39.6	14.4	220	275	223	1208	234	275	240	1223
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	59.4	312	15.2	39.6	13.0	221	275	224	1208	234	275	239	1221
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	27.0	156	8.2	19.8	6.5	103	125	108	635	109	125	115	641
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	22.0	126	6.1	15.8	5.2	82	100	88	480	87	100	93	485
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	74.8	312	15.2	39.6	14.4	283	350	304	1569	297	350	321	1583
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	74.8	312	15.2	39.6	13.0	281	350	302	1569	294	350	317	1582
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	27.0	156	8.2	19.8	6.5	127	150	137	774	133	150	144	780
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	22.0	126	6.1	15.8	5.2	103	125	110	602	108	125	116	607

VFD Customer Supplied standard static

① Note:

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

Table 58: YV28 to YV50 VFD Customer supplied standard static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each LRA	Supply blower motor FLA	Supply blower motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA								FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	19.4	144.4	14.4	131	150	139	830	146	175	155.9	844.8
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	19.4	144.4	13.0	132	150	140	830	145	175	155.3	843.4
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	9.7	72.2	6.5	63	80	67	411	70	80	74.8	417.7
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	8.0	59.1	5.2	51	60	53	320	56	70	59.5	325.5
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	19.4	144.4	14.4	140.7	175	149	871	155	175	165.6	885.8
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	19.4	144.4	13.0	141.5	175	150	871	154	175	164.9	884.4
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	9.7	72.2	6.5	72	90	76	472	78	100	83.5	478.7
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	8.0	59.1	5.2	57	75	60	382	62	80	66.0	387.5
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	19.4	144.4	14.4	151	175	160	961	165	200	176.1	975.8
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	19.4	144.4	13.0	152	175	160	961	165	200	175.4	974.4
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	9.7	72.2	6.5	75	90	79	511	81	100	86.1	517.7
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	8.0	59.1	5.2	62	80	64	381	67	80	70.4	386.5
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	25.0	173.44	14.4	156	200	166	990	171	200	182.5	1004.8
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	25.0	173.44	13.0	157	200	167	990	170	200	181.8	1003.4
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	12.5	86.72	6.5	77	100	82	526	84	100	89.4	532.2
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	10.0	71.77	5.2	64	80	67	394	69	90	72.7	399.2
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	25.0	173.44	14.4	216	275	229	1351	231	275	245.8	1365.2
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	25.0	173.44	13.0	215	275	227	1351	228	275	242.3	1363.8
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	12.5	86.72	6.5	104	125	110	665	111	125	117.9	671.4
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	10.0	71.77	5.2	84	110	90	516	90	110	95.6	521.2

Table 59: YV28 to YV50 VFD Customer supplied standard static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	Supply blower motor FLA	120V trans FLA	Electric heat option field installed kit				MCA A	Max f/b size A	Min disconnect rating		MCA with 120V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA				Model	kW	Stages	A			FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	19.4	144.4	4.0	21.0	14.4	139	175	149	872	154	175	165	887
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	19.4	144.4	4.2	21.0	13.0	141	175	150	872	154	175	165	885
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	9.7	72.2	2.1	10.5	6.5	68	80	72	432	74	90	80	439
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	8.0	59.1	1.6	7.8	5.2	54	70	57	336	59	75	63	341
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	19.4	144.4	4.0	21.0	14.4	149	175	158	913	163	200	175	928
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	19.4	144.4	4.2	21.0	13.0	150	175	160	913	163	200	175	926
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	9.7	72.2	2.1	10.5	6.5	76	90	81	493	82	100	88	500
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	8.0	59.1	1.6	7.8	5.2	60	75	64	398	65	80	70	403
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	19.4	144.4	4	21.0	14.4	159	200	169	1003	173	200	185	1018
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	19.4	144.4	4.2	21.0	13.0	160	200	170	1003	173	200	185	1016
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	9.7	72.2	2.1	10.5	6.5	79	100	83	532	85	100	91	539
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	8.0	59.1	1.6	7.8	5.2	65	80	68	397	70	90	74	402
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	25.0	173.44	7.2	39.6	14.4	171	200	183	1070	185	225	199	1084
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	25.0	173.44	6.8	39.6	13.0	171	200	183	1070	184	225	197	1083
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	12.5	86.72	3.4	19.8	6.5	84	100	90	565	91	110	97	572
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	10.0	71.77	2.7	15.8	5.2	69	90	73	426	74	90	79	431

Table 59: YV28 to YV50 VFD Customer supplied standard static with on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	Supply blower motor FLA	120V trans FLA	Electric heat option field installed kit				MCA A	Max f/b size A	Min disconnect rating		MCA with 120V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA				Model	kW	Stages	A			FLA	LRA			FLA	LRA
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	25.0	173.44	7.2	39.6	14.4	231	275	246	1430	245	300	262	1444
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	25.0	173.44	6.8	39.6	13.0	228	275	243	1430	241	300	258	1443
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	12.5	86.72	3.4	19.8	6.5	111	125	118	705	117	150	126	711
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	10.0	71.77	2.7	15.8	5.2	90	110	96	548	95	110	102	553

Table 60: YV28 to YV50 VFD Customer supplied standard static with modulating power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exh VFD FLA	Power exh motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	19.4	144.4	9.6	21.0	14.4	141	175	150	872	155	175	167	887
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	19.4	144.4	9.6	21.0	13.0	142	175	151	872	155	175	166	885
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	9.7	72.2	4.8	10.5	6.5	68	80	73	432	75	90	80	439
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	8.0	59.1	4.9	7.8	5.2	56	70	59	336	61	75	65	341
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	19.4	144.4	9.6	21.0	14.4	150	175	160	913	165	200	177	928
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	19.4	144.4	9.6	21.0	13.0	151	175	161	913	164	200	176	926
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	9.7	72.2	4.8	10.5	6.5	77	90	82	493	83	100	89	500
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	8.0	59.1	4.9	7.8	5.2	62	80	66	398	67	80	72	403
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	19.4	144.4	9.6	21.0	14.4	160	200	171	1003	175	200	187	1018
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	19.4	144.4	9.6	21.0	13.0	161	200	171	1003	174	200	186	1016
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	9.7	72.2	4.8	10.5	6.5	79	100	84	532	86	110	92	539
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	8.0	59.1	4.9	7.8	5.2	67	80	70	397	72	90	76	402
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	25.0	173.44	15.2	39.6	14.4	172	200	183	1070	186	225	200	1084
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	25.0	173.44	15.2	39.6	13.0	172	200	184	1070	185	225	199	1083
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	12.5	86.72	8.2	19.8	6.5	86	110	91	565	92	110	99	572
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	10.0	71.77	6.1	15.8	5.2	70	90	74	426	75	90	80	431
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	25.0	173.44	15.2	39.6	14.4	231	275	247	1430	246	300	263	1444
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	25.0	173.44	15.2	39.6	13.0	230	275	245	1430	243	300	260	1443
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	12.5	86.72	8.2	19.8	6.5	112	125	120	705	119	150	127	711
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	10.0	71.77	6.1	15.8	5.2	91	110	97	548	96	110	103	553

VFD Customer Supplied medium static

① Note:

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

Table 61: YV28 to YV50 VFD Customer supplied Medium static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each RLA	Supply blower motor FLA	Supply blower motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA								FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	25.0	173.44	14.4	137	175	146	859	151	175	162	874
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	25.0	173.44	13.0	138	175	147	859	151	175	162	872
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	12.5	86.72	6.5	66	80	70	426	73	90	78	432
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	10.0	71.77	5.2	53	60	56	333	58	70	62	338
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	25.0	173.44	14.4	146	175	155	900	161	200	172	915
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	25.0	173.44	13.0	147	175	156	900	160	200	171	913
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	12.5	86.72	6.5	75	90	79	487	81	100	87	493
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	10.0	71.77	5.2	59	75	62	395	64	80	68	400
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	25.0	173.44	14.4	156	200	166	990	171	200	183	1005
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	25.0	173.44	13.0	157	200	167	990	170	200	182	1003
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	12.5	86.72	6.5	77	100	82	526	84	100	89	532
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	10.0	71.77	5.2	64	80	67	394	69	90	73	399
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	36.0	234	14.4	167	200	179	1051	182	225	195	1065
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	36.0	234	13.0	168	200	180	1051	181	225	194	1064
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	18.0	117	6.5	83	100	88	556	89	110	96	563
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	14.2	95.94	5.2	68	90	72	418	73	90	78	423
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	36.0	234	14.4	227	275	242	1411	242	300	258	1426
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	36.0	234	13.0	226	275	240	1411	239	300	255	1424
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	18.0	117	6.5	110	125	117	695	116	125	124	702
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	14.2	95.94	5.2	89	110	94	540	94	110	100	545

Table 62: YV28 to YV50 VFD Customer supplied medium static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	Supply blower motor FLA	120V trans FLA	Electric heat option field installed kit				MCA A	Max f/b size A	Min disconnect rating		MCA with 120V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA				Model	kW	Stage s	A			FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	25.0	173.44	4.0	21.0	14.4	145	175	155	901	159	200	172	916
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	25.0	173.44	4.2	21.0	13.0	146	175	156	901	159	200	171	914
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	12.5	86.72	2.1	10.5	6.5	70	80	75	447	77	90	83	453
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	10.0	71.77	1.6	7.8	5.2	56	70	59	349	61	75	65	354
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	25.0	173.44	4.0	21.0	14.4	154	175	165	942	169	200	181	957
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	25.0	173.44	4.2	21.0	13.0	155	175	166	942	168	200	181	955
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	12.5	86.72	2.1	10.5	6.5	79	100	84	508	85	100	92	514
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	10.0	71.77	1.6	7.8	5.2	62	80	66	411	67	80	72	416
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	25.0	173.44	4	21.0	14.4	164	200	175	1032	179	225	192	1047
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	25.0	173.44	4.2	21.0	13.0	166	200	177	1032	179	225	191	1045
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	12.5	86.72	2.1	10.5	6.5	82	100	87	547	88	110	94	553
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	10.0	71.77	1.6	7.8	5.2	67	80	70	410	72	90	76	415
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	36.0	234	7.2	39.6	14.4	182	225	195	1130	196	225	212	1145
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	36.0	234	6.8	39.6	13.0	182	225	195	1130	195	225	210	1143
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	18.0	117	3.4	19.8	6.5	90	110	96	596	96	110	104	602
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	14.2	95.94	2.7	15.8	5.2	73	90	78	450	78	100	84	455

Table 62: YV28 to YV50 VFD Customer supplied medium static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	Supply blower motor FLA	120V trans FLA	Electric heat option field installed kit				MCA A	Max f/b size A	Min disconnect rating		MCA with 120V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA				Model	kW	Stage s	A			FLA	LRA			FLA	LRA
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	36.0	234	7.2	39.6	14.4	242	300	258	1491	256	300	275	1505
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	36.0	234	6.8	39.6	13.0	239	300	256	1491	252	300	271	1504
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	18.0	117	3.4	19.8	6.5	116	125	125	735	123	150	132	741
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	14.2	95.94	2.7	15.8	5.2	94	110	101	572	99	125	107	577

Table 63: YV28 to YV50 VFD Customer supplied medium static with modulating power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	25.0	173.44	9.6	21.0	14.4	147	175	157	901	161	200	173	916
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	25.0	173.44	9.6	21.0	13.0	147	175	158	901	160	200	173	914
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	12.5	86.72	4.8	10.5	6.5	71	90	76	447	77	90	83	453
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	10.0	71.77	4.9	7.8	5.2	58	70	61	349	63	75	67	354
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	25.0	173.44	9.6	21.0	14.4	156	200	167	942	170	200	183	957
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	25.0	173.44	9.6	21.0	13.0	157	200	167	942	170	200	182	955
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	12.5	86.72	4.8	10.5	6.5	79	100	85	508	86	100	92	514
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	10.0	71.77	4.9	7.8	5.2	64	80	68	411	69	80	74	416
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	25.0	173.44	9.6	21.0	14.4	166	200	177	1032	180	225	194	1047
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	25.0	173.44	9.6	21.0	13.0	167	200	178	1032	180	225	193	1045
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	12.5	86.72	4.8	10.5	6.5	82	100	87	547	89	110	95	553
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	10.0	71.77	4.9	7.8	5.2	69	90	72	410	74	90	78	415
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	36.0	234	15.2	39.6	14.4	183	225	196	1130	197	225	213	1145
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	36.0	234	15.2	39.6	13.0	183	225	197	1130	196	225	212	1143
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	18.0	117	8.2	19.8	6.5	91	110	98	596	98	110	105	602
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	14.2	95.94	6.1	15.8	5.2	74	90	79	450	79	100	85	455
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	36.0	234	15.2	39.6	14.4	242	300	259	1491	257	300	276	1505
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	36.0	234	15.2	39.6	13.0	241	300	257	1491	254	300	272	1504
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	18.0	117	8.2	19.8	6.5	118	150	126	735	124	150	134	741
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	14.2	95.94	6.1	15.8	5.2	95	110	101	572	100	125	107	577

VFD Customer Supplied high static

① Note:

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

Table 64: YV28 to YV50 VFD Customer supplied high static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each RLA	Supply blower motor FLA	Supply blower motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120 V trans A	Min disconnect rating/120 V trans	
		RLA	LRA	RLA	LRA	RLA	LRA								FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	36.0	234	14.4	148	175.0	158	920.0	162	200.0	175.0	934.4
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	36.0	234	13.0	149	175.0	159	920.0	162	200.0	174.3	933.0
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	18.0	117	6.5	72	90.0	77	456.0	78	90.0	84.3	462.5
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	14.2	95.94	5.2	57	70.0	61	357.1	62	75.0	66.6	362.3
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	36.0	234	14.4	157	200.0	168	961.0	172	200.0	184.7	975.4
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	36.0	234	13.0	158	200.0	169	961.0	171	200.0	184.0	974.0
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	18.0	117	6.5	80	100.0	86	517.0	87	100.0	93.0	523.5
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	14.2	95.94	5.2	63	80.0	67	419.1	68	80.0	73.1	424.3
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	36.0	234	14.4	167	200.0	179	1051.0	182	225.0	195.2	1065.4
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	36.0	234	13.0	168	200.0	180	1051.0	181	225.0	194.5	1064.0
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	18.0	117	6.5	83	100.0	88	556.0	89	110.0	95.7	562.5
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	14.2	95.94	5.2	68	90.0	72	418.1	73	90.0	77.5	423.3
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	48.0	312	14.4	179	225.0	192	1129.0	194	225.0	209.0	1143.4
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	48.0	312	13.0	180	225.0	193	1129.0	193	225.0	208.3	1142.0
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	24.0	156	6.5	89	110.0	95	595.0	95	110.0	102.6	601.5
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	19.1	126	5.2	73	90.0	77	448.2	78	100.0	83.1	453.4
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	48.0	312	14.4	239	300.0	256	1489.4	254	300.0	272.2	1503.8
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	48.0	312	13.0	238	300.0	254	1489.4	251	300.0	268.8	1502.4
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	24.0	156	6.5	116	125.0	124	734.2	122	150.0	131.1	740.7
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	19.1	126	5.2	94	110.0	100	570.2	99	125.0	106.0	575.4

Table 65: YV28 to YV50 VFD Customer supplied high static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	Supply blower motor FLA	120V trans FLA	Electric heat option field installed kit				MCA A	Max f/b size A	Min disconnect rating		MCA with 120V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA				Mod el	kW	Stages	A			FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	36.0	234	4.0	21.0	14.4	156	175	168	962	170	200	184	976
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	36.0	234	4.2	21.0	13.0	157	175	169	962	170	200	184	975
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	18.0	117	2.1	10.5	6.5	76	90	82	477	82	100	89	484
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	14.2	95.94	1.6	7.8	5.2	60	75	64	373	65	80	70	378
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	36.0	234	4.0	21.0	14.4	165	200	177	1003	180	200	194	1017
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	36.0	234	4.2	21.0	13.0	166	200	179	1003	179	200	194	1016
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	18.0	117	2.1	10.5	6.5	84	100	90	538	91	110	98	545
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	14.2	95.94	1.6	7.8	5.2	66	80	71	435	71	90	77	440
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	36.0	234	4	21.0	14.4	175	200	188	1093	190	225	204	1107
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	36.0	234	4.2	21.0	13.0	177	200	189	1093	190	225	204	1106
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	18.0	117	2.1	10.5	6.5	87	110	93	577	94	110	101	584
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	14.2	95.94	1.6	7.8	5.2	71	90	75	434	76	90	81	439
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	48.0	312	7.2	39.6	14.4	194	225	209	1208	208	250	226	1223
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	48.0	312	6.8	39.6	13.0	194	225	209	1208	207	250	224	1221
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	24.0	156	3.4	19.8	6.5	96	110	103	635	102	125	110	641
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	19.1	126	2.7	15.8	5.2	78	100	83	480	83	100	89	485

Table 65: YV28 to YV50 VFD Customer supplied high static on/off power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	Supply blower motor FLA	120V trans FLA	Electric heat option field installed kit				MCA A	Max f/b size A	Min disconnect rating		MCA with 120V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA				Mod el	kW	Stages	A			FLA	LRA			FLA	LRA
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	48.0	312	7.2	39.6	14.4	254	300	272	1569	268	325	289	1583
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	48.0	312	6.8	39.6	13.0	251	300	269	1569	264	325	284	1582
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	24.0	156	3.4	19.8	6.5	122	150	131	774	129	150	139	780
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	19.1	126	2.7	15.8	5.2	99	125	106	602	104	125	112	607

Table 66: YV28 to YV50 VFD Customer supplied high static with modulating power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		Comp. 3		OD fan motors each FLA	OD fan motors each FLA	Supply blower motor FLA	Supply blower motor LRA	Power exhaus t VFD FLA	Power exhaus t motor LRA	120 V trans FLA	MCA A	Max f/b size A	Min disconnect rating		MCA with 120 V trans A	Max f/b size with 120V trans A	Min disconnect rating/120V trans	
		RLA	LRA	RLA	LRA	RLA	LRA										FLA	LRA			FLA	LRA
YV28 (27.5)	208-3-60	41.0	304	22.4	149	22.4	149	4.0	21.0	36.0	234	9.6	21.0	14.4	158	175	170	962	172	200	186	976
	230-3-60	41.0	304	22.4	149	22.4	149	4.2	21.0	36.0	234	9.6	21.0	13.0	158	175	170	962	171	200	185	975
	460-3-60	19.2	147	10.6	75	10.6	75	2.1	10.5	18.0	117	4.8	10.5	6.5	76	90	82	477	83	100	90	484
	575-3-60	16.7	122	7.7	54	7.7	54	1.6	7.8	14.2	95.94	4.9	7.8	5.2	62	75	66	373	67	80	72	378
YV30 (30)	208-3-60	44.2	315	25	164	25	164	4.0	21.0	36.0	234	9.6	21.0	14.4	167	200	179	1003	181	225	196	1017
	230-3-60	44.2	315	25	164	25	164	4.2	21.0	36.0	234	9.6	21.0	13.0	168	200	180	1003	181	200	195	1016
	460-3-60	22.4	158	12.8	100	12.8	100	2.1	10.5	18.0	117	4.8	10.5	6.5	85	100	91	538	91	110	99	545
	575-3-60	18.6	136	9.6	78	9.6	78	1.6	7.8	14.2	95.94	4.9	7.8	5.2	68	80	73	435	73	90	79	440
YV35 (35)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	36.0	234	9.6	21.0	14.4	177	225	190	1093	191	225	206	1107
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	36.0	234	9.6	21.0	13.0	178	225	191	1093	191	225	206	1106
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	18.0	117	4.8	10.5	6.5	88	110	94	577	94	110	101	584
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	14.2	95.94	4.9	7.8	5.2	73	90	77	434	78	100	83	439
YV40 (40)	208-3-60	48.1	351	27.6	191	27.6	191	4	21.0	48.0	312	15.2	39.6	14.4	195	225	210	1208	209	250	226	1223
	230-3-60	48.1	351	27.6	191	27.6	191	4.2	21.0	48.0	312	15.2	39.6	13.0	195	225	211	1208	208	250	226	1221
	460-3-60	24.7	197	12.8	100	12.8	100	2.1	10.5	24.0	156	8.2	19.8	6.5	97	110	105	635	104	125	112	641
	575-3-60	22.4	135	9.6	78	9.6	78	1.6	7.8	19.1	126	6.1	15.8	5.2	79	100	84	480	84	100	90	485
YV50 (50)	208-3-60	67.3	485	39.1	267	39.1	267	7.2	39.6	48.0	312	15.2	39.6	14.4	254	300	273	1569	269	325	290	1583
	230-3-60	67.3	485	39.1	267	39.1	267	6.8	39.6	48.0	312	15.2	39.6	13.0	253	300	271	1569	266	325	286	1582
	460-3-60	32.7	215	18.6	142	18.6	142	3.4	19.8	24.0	156	8.2	19.8	6.5	124	150	133	774	130	150	141	780
	575-3-60	26.3	175	15.4	103	15.4	103	2.7	15.8	19.1	126	6.1	15.8	5.2	100	125	107	602	105	125	113	607

Figure 8: Cooling unit VAV - elementary diagram power circuit



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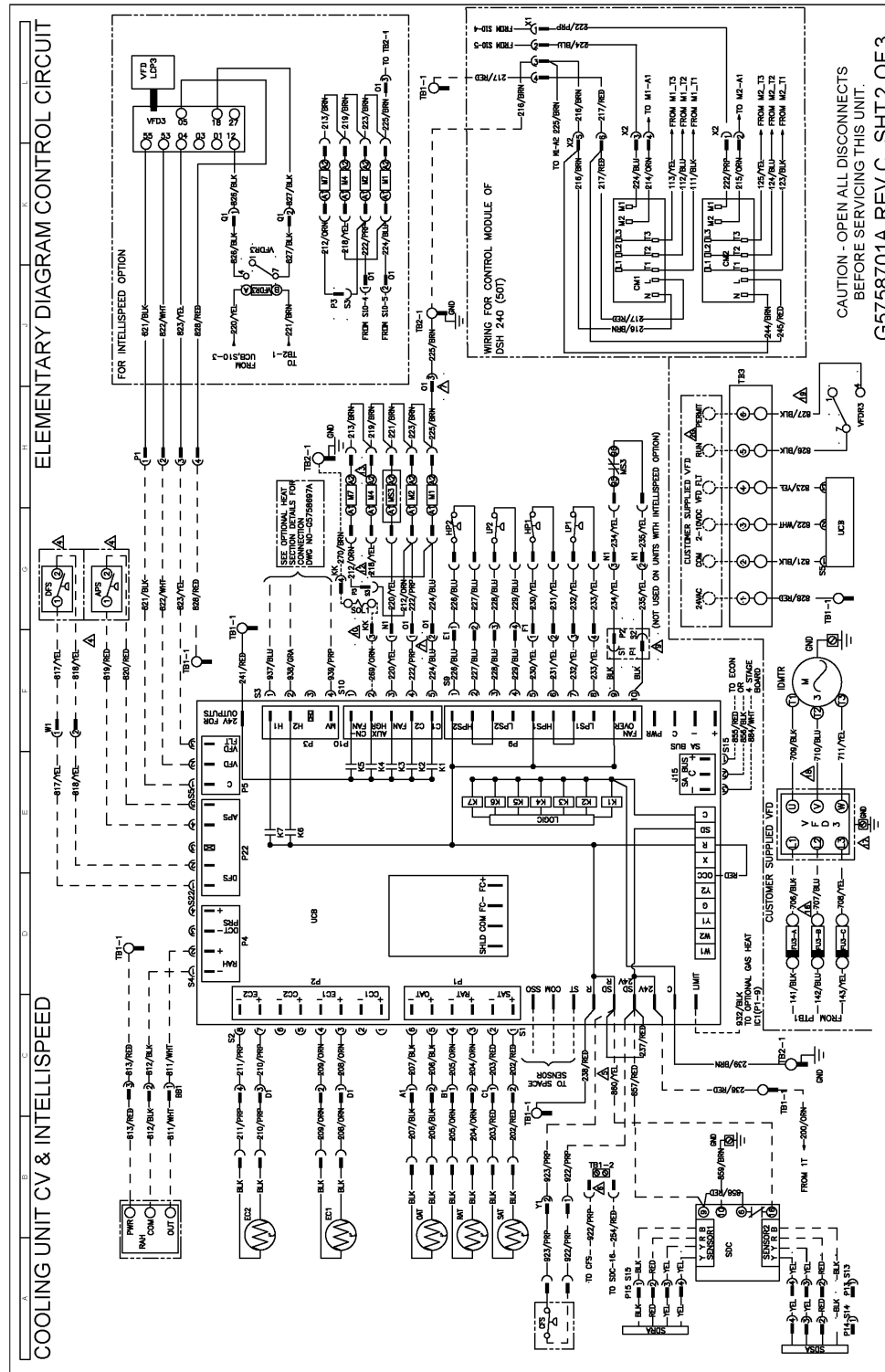
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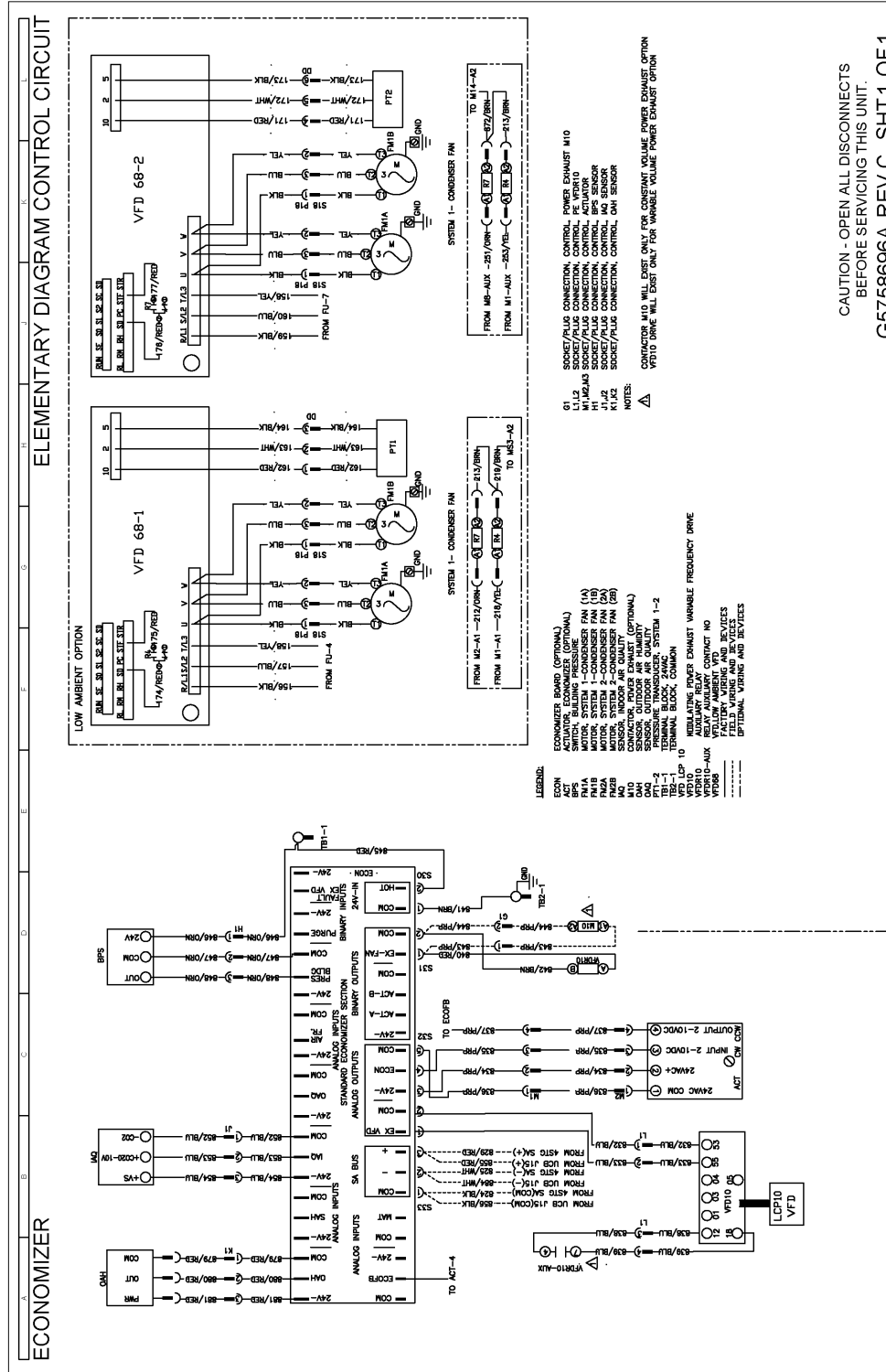
Figure 12: Cooling unit CV and Intellispeed - elementary diagram control circuit



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Figure 14: Economizer - elementary diagram control circuit

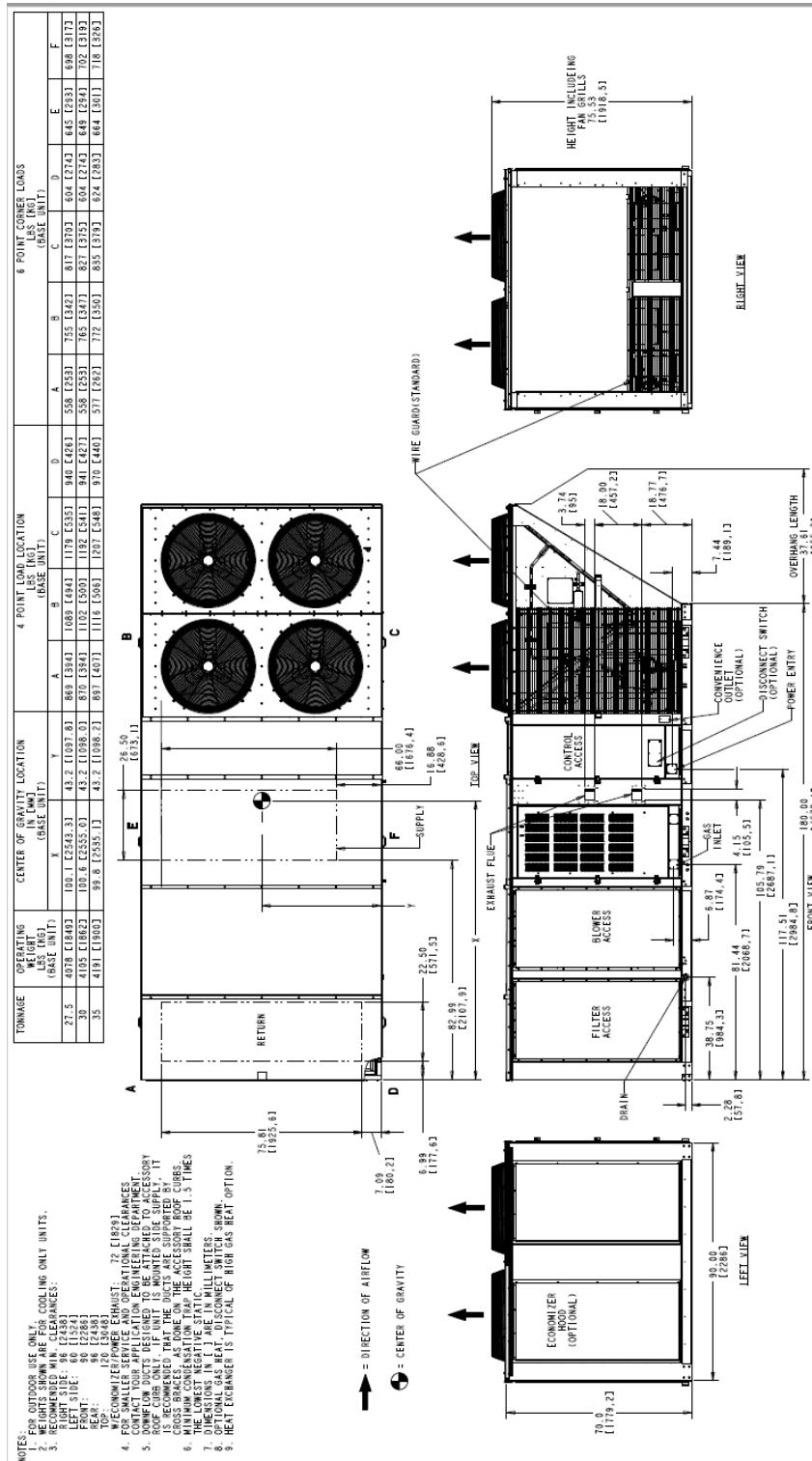


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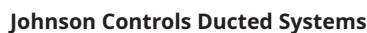


Weights and dimensions

Figure 17: YV28 to YV35 physical dimensions

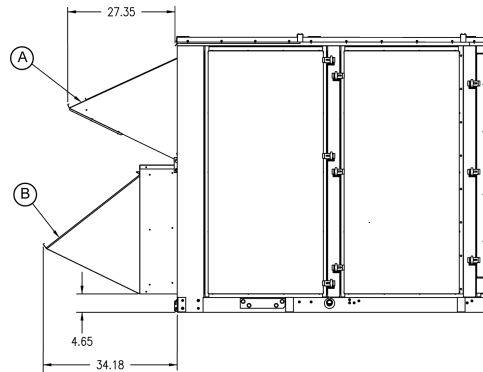


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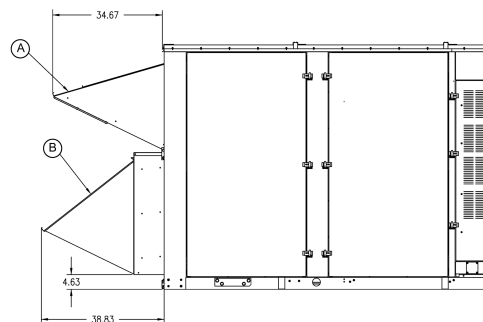
Rain hood dimensions

Figure 19: 27.5 ton to 35 ton rain hood dimensions



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

Figure 20: 40 ton to 50 ton rain hood dimensions



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

Utilities entry

Table 67: Utilities entry

Entry description		Opening size diameter (in.)
Control wiring	Bottom	1-in. knockout for field drilling
Power wiring	Front	Field drilled to maximum of 3 in.
	Bottom	Field drilled to maximum of 3 in.
Gas piping	Front ^{1,2}	2 5/8-in. hole with 1 1/2-in. grommet
	Bottom ³	1/4-in. pilot hole in gas heat base pan
Condensate drain	Front ^{2,4}	1-1/2-in. hole

1 1-1/4 in. NPT gas piping is required.

2 You must insert the piping through the factory-installed grommet for a watertight seal.

3 Factory provided pilot hole shows the hole location to facilitate the drilling of entry holes.

4 1-in. NPT female connection piping is required.

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

Accessory weights

Table 68: Unit accessory weights

Unit accessory	Unit size				
	27.5 ton	30 ton	35 ton	40 ton	50 ton
Economizer	307	307	307	359	359
Power exhaust	314	314	314	390	390
Manual damper	85	85	85	120	120
Barometric damper	230	230	230	285	285
Gas heat (largest)	155	155	220	220	220
Hail guard	80	80	80	121	121
Roof curb	475	475	475	520	520

Table 69: Supply fan VFD weights

Supply fan motor	208/230 V	460 V	575 V
7.5 HP	17.4	9.9	14.6
10 HP	17.4	9.9	14.6
15 HP	20.9	17.4	26.5
20 HP	54	17.4	26.5

Roof curbs

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

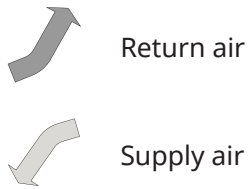
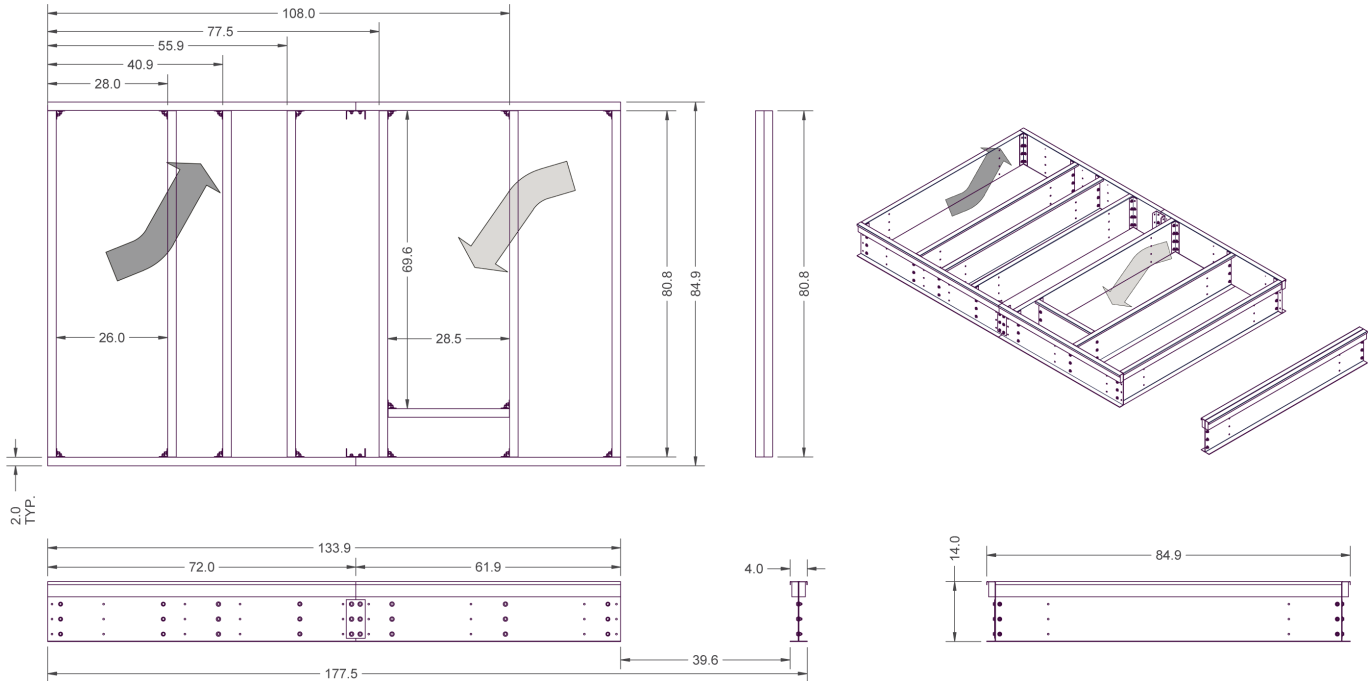


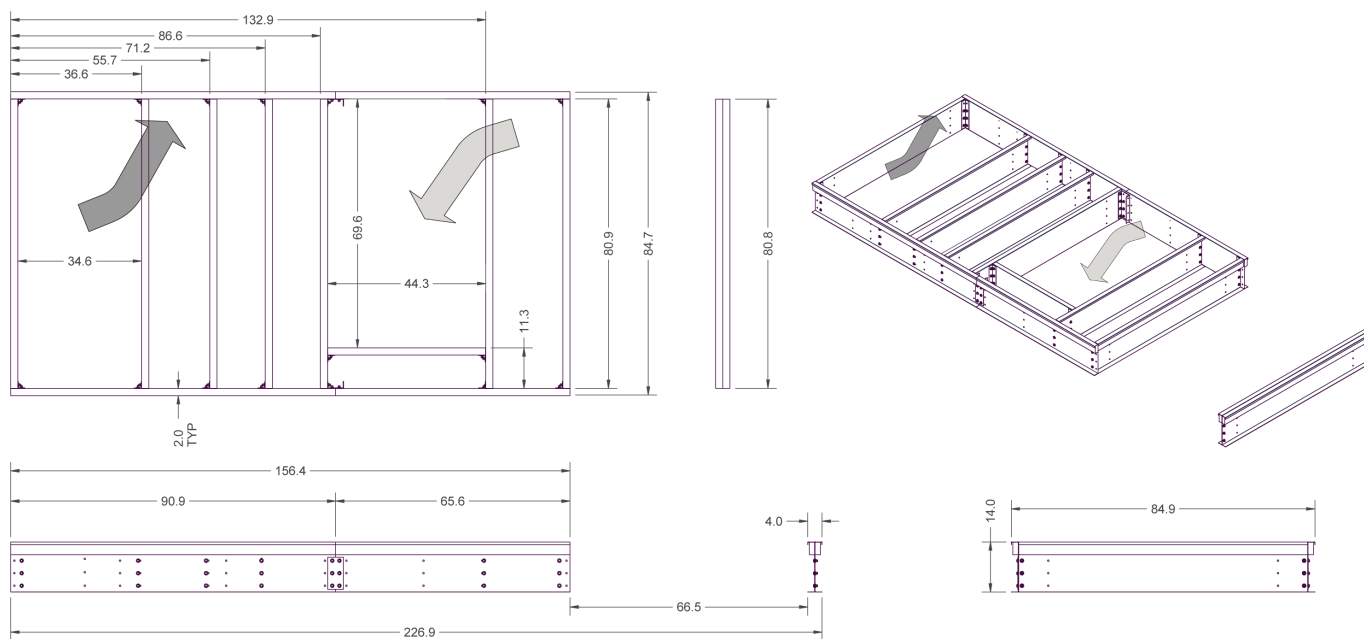
Figure 21: 1RC0450 roof curb dimensions



The following units are compatible with 1RC0450 roof curbs.

- YV28
- YV30
- YV35

Figure 22: 1RC0451 roof curb dimensions



The following units are compatible with 1RC0451 roof curbs.

- YV40
- YV50

Economizer options

Figure 23: Economizer options

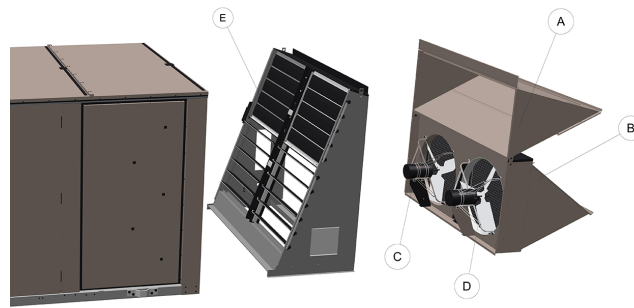


Table 70: Economizer components

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

Typical installation

The following figures show the typical installations for the unit.

Figure 24: Roof jack installation

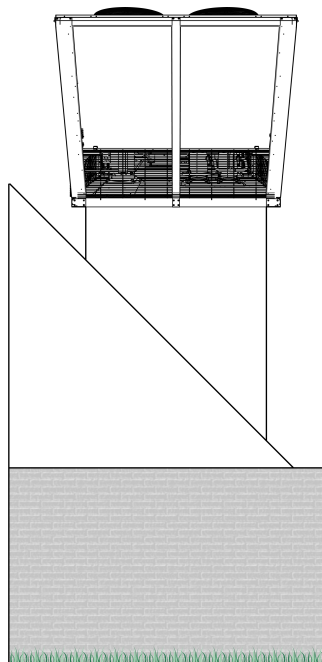


Figure 25: Roof curb installation

