



Technical Guide: Bosch Choice MD13 to MD25

R-454B, 60 hertz



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Description

The Bosch Choice 12.5 to 25 ton platform is designed with all the flexibility needed for today's applications, while simultaneously meeting tomorrow's efficiency requirements. Realizing that efficiency requirements are continuously pushing the envelope of technology, Choice heat pump units meet the latest U.S. Department of Energy (DOE) efficiency requirements and with IntelliSpeed airflow deliver energy efficiency exceeding the DOE mandates for 2023. Achieving efficiencies as high as 14.2 IEER (cooling and heating/electric heat) and 14 IEER (gas heat), the standard efficiency Choice product line provides users with significant energy savings alongside impressive flexibility and unparalleled reliability.

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

The units are tested in accordance with the following:

- UL 60335-1, CAN/ CSA-C22.2 No. 60335-1:16
- UL60335-2-40, CSA –C22.2 No.60335-2-40:22
- CSA/ANSI Z21.47:21/CSA 2.3:21
- AHRI Standard 340/360

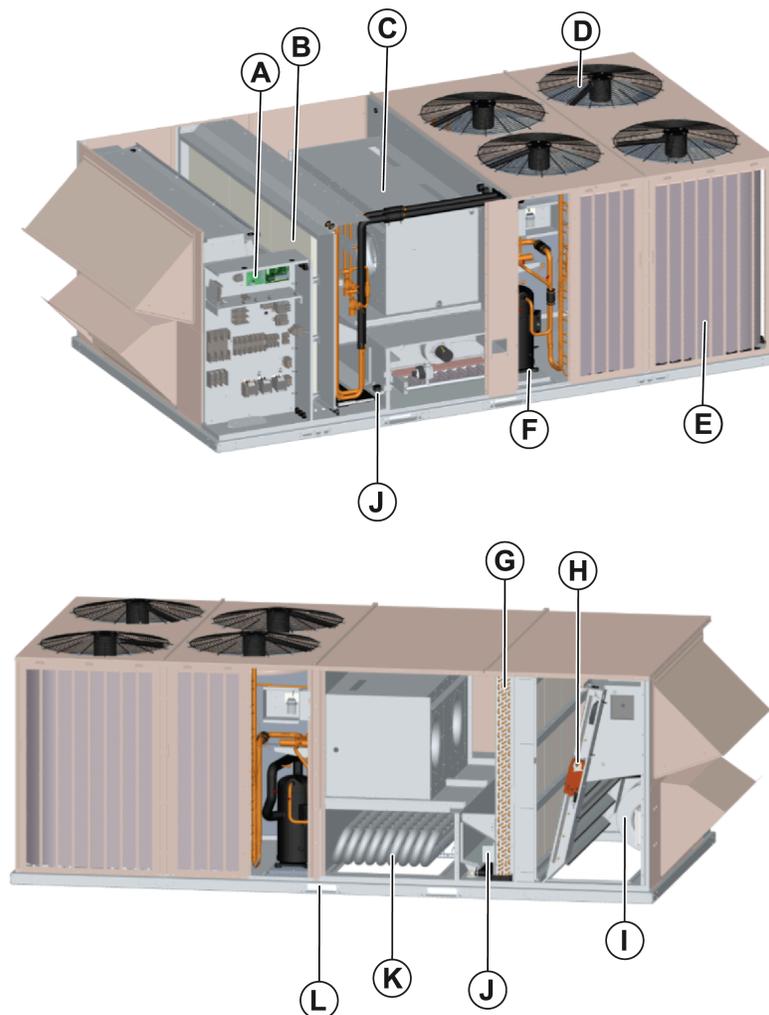


Product highlights

- Smart Equipment™ Controls: streamlines commissioning, integration, and service
- Industry leading standard efficiency, up to 14.2 IEER. Designed to meet DOE 2023 efficiency requirements
- Two independent refrigerant circuits
- Two stages of cooling (IntelliSpeed) to meet advanced building code requirements
- Footprint design allows for direct replacement of multiple competitive models (Carrier and Trane) without a transition curb
- Reliability designed into all products and tested at the component and system level at the Advanced Technology Lab in Norman, Oklahoma
- Factory installed staged gas heat and factory or field installed electric heat
- Optional modulating gas heat furnace with standard stainless steel heat exchangers, that cannot be converted to propane

Unit components

Figure 1: Components location



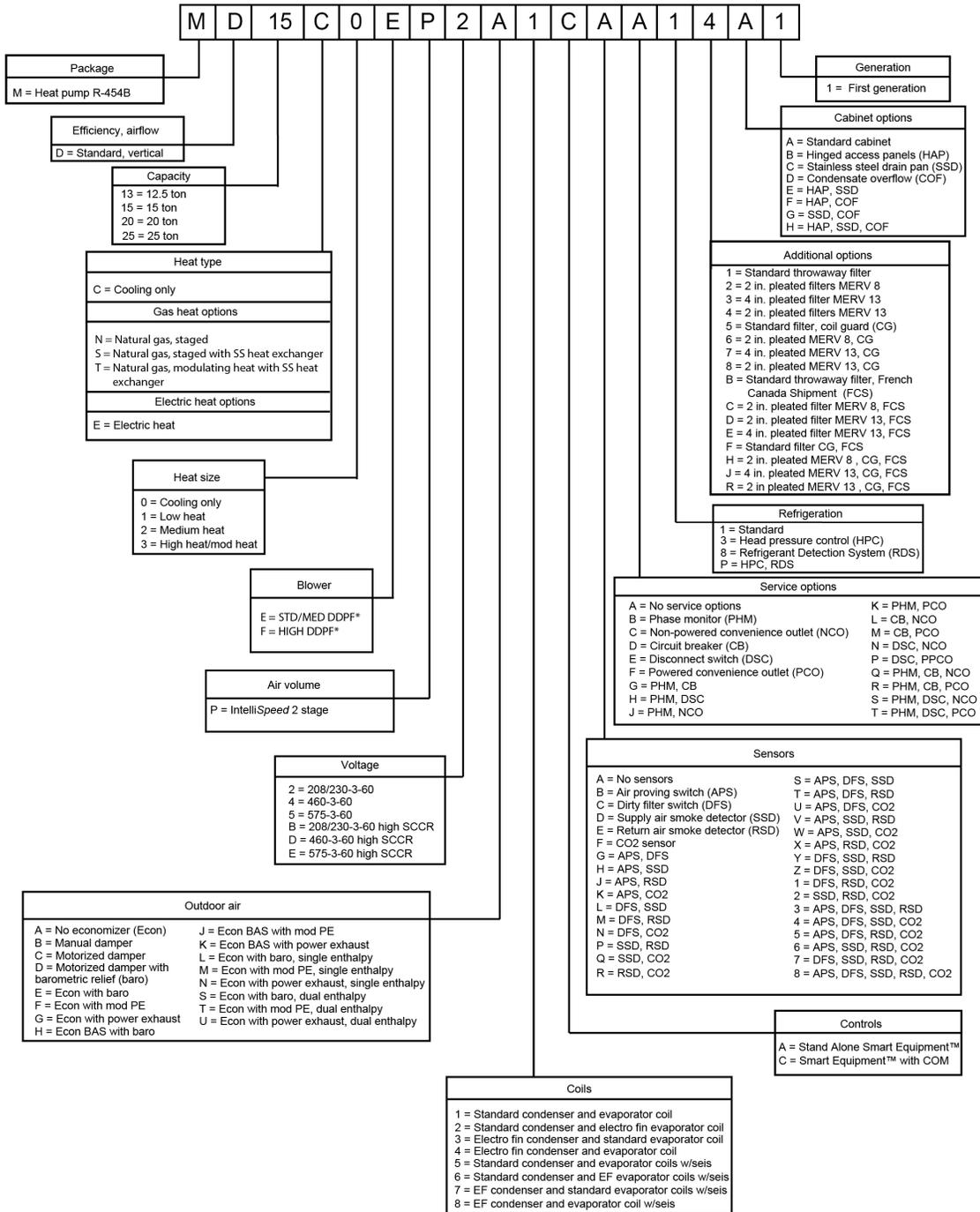
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Table 1: Component location table

Item	Description	Item	Description
A	Smart Equipment™ controls	G	Copper tube and aluminum fin evaporator coil
B	Filter access, 2 in. or 4 in. filter options	H	Optional economizer. Optional manual or motorized outside air dampers not shown.
C	Direct drive plenum fan, with electronically commutated motor for Intellispeed	I	Optional powered exhaust. Optional barometric relief not shown.
D	Condenser fans	J	Refrigerant leak detection sensor
E	Round tube plate fin (RTPF) condenser coils	K	Optional staged or modulating gas heat with aluminized or stainless steel heat exchanger. Optional electric heat not shown.
F	Scroll compressors to produce two stages of cooling or heating depending on the selected model	L	Full perimeter base rails with holes for overhead rigging

Nomenclature

Figure 2: Product nomenclature



Features and benefits

Standard features

Bosch Choice units have the following standard features.

Efficiency

Available in standard efficiency cooling, heating, gas heat or electric heat. Choice units achieve up to 10.9 EER. IEER ratings as high as 14.2 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 industry leading indoor airflow options available for maximum customization to meet the needs of each job site. 2-stage IntelliSpeed configurations each have a dedicated airflow and compressor staging algorithm designed to maximize efficiency and reliability. IntelliSpeed includes a factory installed electronically commutated motor to modulate the indoor airflows.

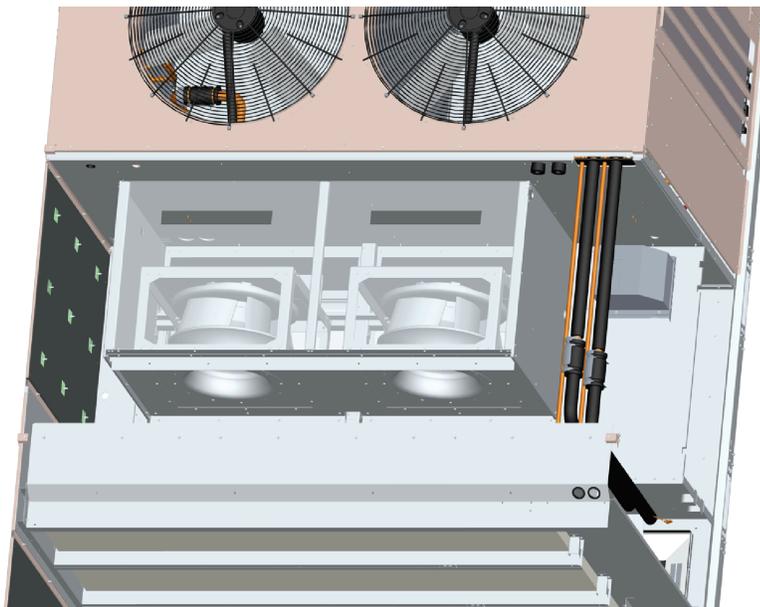
Refrigerant circuits

All models contain a dual circuit refrigeration design with multiple compressor staging options dependent on the selected airflow option.

Factory-installed direct drive plenum fan (DDPF with electronically commutated motor (ECM

The DDPF delivers precise speed control through an integrated controller and enhanced efficiency via IntelliSpeed™ operation. This design simplifies commissioning and enables seamless operation through the Standard Smart Equipment™ control board.

The blower enclosure features backward-curved twin plenum blowers directly driven by ECM motors, eliminating transmission losses. All tonnage options are available with direct-drive motor configurations for both standard and high-static applications. The DDPF supports a wide range of static pressures up to 3 in. W.C. ESP and is mounted on a robust enclosure with properly balanced blowers for quieter operation.



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Evaporator coils

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

Condenser coils

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

Balanced staged heating

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

All gas heat units are of a tubular design with in-shot burners and induced draft. Standard controls provide two stages of capacity control with an additional option for modulating gas heat. 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.



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

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

On-board USB port

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

Built-in LCD

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

NOTICE

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

Reduced field installed complexity

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

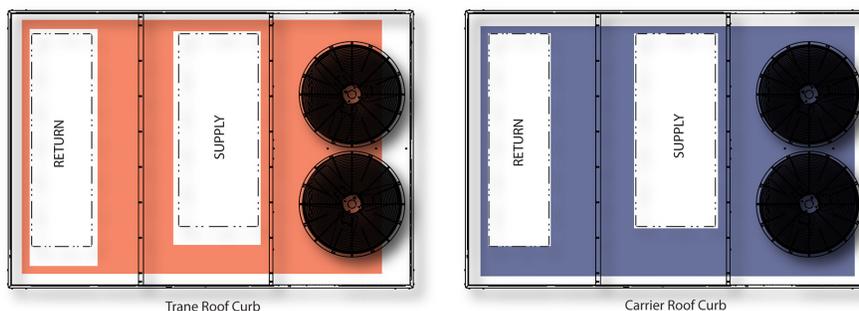
Standard factory warranty

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

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



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

Sloped drain pan

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

Color-coded and numbered wiring

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

Convertible filter rack

Units are provided with the selected 2 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 in cooling operation, exceeding the maximum load criteria of AHRI Standard 340/360. The compressor, with standard controls, is capable of operation down to 45°F outdoor temperature in all installations and as low as 0°F outdoor temperature with cyclic cooling cycles in certain applications. The addition of a low ambient kit allows for cooling operation down to -10°F outdoor temperature. In heating operation, the units are capable of starting and running at -5°F and as high as 60°F. 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

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

Low limit control

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

Defrost pressure switch

Each unit is equipped with a defrost pressure switch, mounted on the discharge line of its refrigeration system. During defrost mode, this switch activates the outdoor fans when the discharge pressure rises and reaches the preset threshold limit. When the outdoor fans turn on, the system's discharge pressure reduces and prevents the high-pressure safety device tripping. This ensures a smooth operation while the unit continues in defrost mode.

Outside air temperature sensor for precise unit operation

A field-installed Outside Air Temperature (OAT) sensor kit is provided to ensure accurate and reliable temperature measurement and proper unit operation. This sensor is designed with an encasement to minimize the impact of sunlight and abnormal ambient conditions. Proper mounting based on the units geographical installation location is essential to achieve accurate readings and consistent operation.

Options and accessories

Non-electrical option or accessory	Factory option	Field-installed option
Roof curb, 14 in. or 24 in. height		✓
Burglar bars		✓
Coil/hail guard	✓	✓
Hinged and toolless access panels	✓	
Aluminized steel gas heat exchanger	✓	
Stainless steel gas heat exchanger	✓	
Modulating gas heat (cannot be converted to propane)	✓	
Flue exhaust extension		✓
Propane conversion (not for modulating furnaces)		✓
High altitude kit for propane (not for modulating furnaces)		✓
High altitude kit for natural gas		✓
Stainless steel drain pan	✓	
E-Coat coil coating	✓	
MERV 8, 2 in. filter	✓	
MERV 13, 2 in. filter	✓	
MERV 13, 4 in. filter	✓	

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

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

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

Table 2: Field-installed accessories - non-electrical

Model	Voltage	Description	Where used
1BD0411	All	Burglar bars	All
1FE0418	All	Flue exhaust kit	Gas heat units
1NP0401	All	Propane conversion kit	Staged gas heat
1HA0401	All	Natural gas high altitude conversion kit	Gas heat units
1HA0402	All	Propane high altitude conversion kit	Staged gas heat
1HG0461	All	Louvered hail guard, C6 cabinet	C6 cabinet
1HG0462	All	Louvered hail guard, C7 cabinet	C7 cabinet
1HG0463	All	Louvered hail guard, C8 cabinet	C8 cabinet
1HG0464	All	Louvered hail guard, C9 cabinet	C9 cabinet

Table 3: Field-installed accessories - roof curbs

Model	Voltage	Description	Where used
1RC0443	All	14 in. roof curb	12.5 ton
1RC0444	All	14 in. roof curb	15 and 20 ton
1RC0445	All	14 in. roof curb	25 ton
1RC0446	All	24 in. roof curb	12.5 ton
1RC0447	All	24 in. roof curb	15 and 20 ton
1RC0448	All	24 in. roof curb	25 ton

Table 4: Field-installed accessories - fresh air

Model	Voltage	Description	Where used
1FA0421	All	Manual outside air damper, 0-25%	12.5 and 15 ton models
1FA0422	All	Manual outside air damper, 0-100%	12.5 and 15 ton models
1FA0423	All	Manual outside air damper, 0-25%	20 and 25 ton models
1FA0424	All	Manual outside air damper, 0-100%	20 and 25 ton models
2MD04705324	All	Motorized outside air damper, 0-25%	12.5 and 15 ton models
2MD04705424	All	Motorized outside air damper, 0-100%	12.5 and 15 ton models
2MD04705524	All	Motorized outside air damper, 0-25%	20 and 25 ton models
2MD04705624	All	Motorized outside air damper, 0-100%	20 and 25 ton models
2EE04710424	All	Low leak economizer, BAS controls	12.5 and 15 ton models
2EE04710524	All	Low leak economizer, Smart Equipment controls	12.5 and 15 ton models
2EE04710624	All	Low leak economizer, BAS controls	20 and 25 ton models
2EE04710724	All	Low leak economizer, Smart Equipment controls	20 and 25 ton models
1RD0414	All	Barometric relief damper	All
2PE04705725	208/230V	Constant volume power exhaust, high CFM, 208/230V	Models with factory or field installed economizer
2PE04705746	460V	Constant volume power exhaust, high CFM, 460V	Models with factory or field installed economizer
2PE04705758	575V	Constant volume power exhaust, high CFM, 575V	Models with factory or field installed economizer
2PE04705925	208/230V	Modulating power exhaust, high CFM, 208/230V	Models with factory or field installed economizer
2PE04705946	460V	Modulating power exhaust, high CFM, 460V	Models with factory or field installed economizer
2PE04705958	575V	Modulating power exhaust, high CFM, 575V	Models with factory or field installed economizer
2PE04706025	208/230V	Modulating power exhaust, standard CFM, 208/230V	Models with factory or field installed economizer
2PE04706046	460V	Modulating power exhaust, standard CFM, 460V	Models with factory or field installed economizer
2PE04706058	575V	Modulating power exhaust, standard CFM, 575V	Models with factory or field installed economizer

Table 4: Field-installed accessories - fresh air

Model	Voltage	Description	Where used
2PE04705825	208/230V	Constant volume power exhaust, standard CFM, 208/230V	Models with factory or field installed economizer
2PE04705846	460V	Constant volume power exhaust, standard CFM, 460V	Models with factory or field installed economizer
2PE04705858	575V	Constant volume power exhaust, standard CFM, 575V	Models with factory or field installed economizer
2EC0406	All	Single enthalpy / reheat humidity sensor	Models with factory or field installed economizer
2EC0407	All	Dual enthalpy sensing	Models with factory or field installed economizer

Table 5: Field-installed accessories - electric heat

Model	Voltage	Description	Where used
2EL04502525	208/230V	25kW electric heat	All
2EL04502546	460V		
2EL04502558	575V		
2EL04505025	208/230V	50kW electric heat	All
2EL04505046	460V		
2EL04505058	575V		
2EL04507525	208/230V	75kW electric heat	All
2EL04507546	460V		
2EL04507558	575V		
2SP04700025	208/230V	Electric heat power kit, 25-75kW, 12.5 and 15 ton, no CB or DSC	Paired with 2EL04502525, 2EL04505025 or 2EL04507525. 12.5 and 15 ton only without circuit breaker or disconnect switch
2SP04700052	460V and 575V	Electric heat power kit, 25-75kW, 15 ton, no CB or DSC	Paired with 2EL04502546, 2EL04502558, 2EL04505046, 2EL04505058, 2EL04507546, or 2EL04507558. 15 ton without circuit breaker or disconnect switch
2SP04700152	460V and 575V	Electric heat power kit, 25-75kW, 20 ton, no CB or DSC	Paired with 2EL04502546, 2EL04502558, 2EL04505046, 2EL04505058, 2EL04507546, or 2EL04507558. 20 ton only without circuit breaker or disconnect switch
2SP04700225	208/230V	Electric heat power kit, 25-75kW, 20 ton, no CB or DSC	Paired with 2EL04502525, 2EL04505025 or 2EL04507525. 20 ton only without circuit breaker or disconnect switch
2SP04700252	460V and 575V	Electric heat power kit, 25-75kW, 25 ton, no CB or DSC	Paired with 2EL04502546, 2EL04502558, 2EL04505046, 2EL04505058, 2EL04507546, or 2EL04507558. 25 ton without circuit breaker or disconnect switch
2SP04700325	208/230V	Electric heat power kit, 25-75kW, 25 ton, no CB or DSC	Paired with 2EL04502525, 2EL04505025 or 2EL04507525. 25 ton without circuit breaker or disconnect switch
2SP04700352	460V and 575V	Electric heat power kit, 25-75kW, 15 ton, with CB or DSC	Paired with 2EL04502546, 2EL04502558, 2EL04505046, 2EL04505058, 2EL04507546, or 2EL04507558. 15 ton with circuit breaker or disconnect switch

Table 5: Field-installed accessories - electric heat

Model	Voltage	Description	Where used
2SP04700452	460V and 575V	Electric heat power kit, 25-75kW, 20 ton, with CB or DSC	Paired with 2EL04502546, 2EL04502558, 2EL04505046, 2EL04505058, 2EL04507546, or 2EL04507558. 20 ton only with circuit breaker or disconnect switch
2SP04700552	460V and 575V	Electric heat power kit, 25-75kW, 25 ton, with CB or DSC	Paired with 2EL04502546, 2EL04502558, 2EL04505046, 2EL04505058, 2EL04507546, or 2EL04507558. 25 ton with circuit breaker or disconnect switch
2SP04700652	460V and 575V	Electric heat power kit, 25-75kW, 12.5 ton, without CB or DSC	Paired with 2EL04502546, 2EL04502558, 2EL04505046, 2EL04505058, 2EL04507546, or 2EL04507558. 12.5 ton only without circuit breaker or disconnect switch
2SP04700725	208/230	Electric heat power kit, 25kW and 50kW, 25 ton, with CB or DSC	Paired with 2EL04502525 or 2EL04505025. 25 ton only with circuit breaker or disconnect switch
2SP04700752	460V and 575V	Electric heat power kit, 25-75kW, 12.5 ton, with CB or DSC	Paired with 2EL04502546, 2EL04502558, 2EL04505046, 2EL04505058, 2EL04507546, or 2EL04507558. 12.5 ton only with circuit breaker or disconnect switch
2SP04700825	208/230V	Electric heat power kit, 25-75kW, 12.5 and 15 ton, with DSC	Paired with 2EL04502525, 2EL04505025 or 2EL04507525. 12.5 and 15 ton only with disconnect switch
2SP04701025	208/230V	Electric heat power kit, 25-75kW, 20 ton, with DSC	Paired with 2EL04502525, 2EL04505025 or 2EL04507525. 20 ton only with disconnect switch
2SP04701125	208/230V	Electric heat power kit, 25-75kW, 12.5 and 15 ton, with CB	Paired with 2EL04502525, 2EL04505025 or 2EL04507525. 12.5 and 15 ton only with Circuit Breaker
2SP04701325	208/230V	Electric heat power kit, 25-75kW, 20 ton, with CB	Paired with 2EL04502525, 2EL04505025 or 2EL04507525. 20 ton with circuit breaker

Table 6: Field-installed accessories - controls/electrical

Model	Voltage	Description	Where used
2AQ04700524	All	CO ² space/wall mount accessory	All units with factory or field installed economizer
2AQ04700624	All	CO ² unit mount accessory	All units with factory or field installed economizer
2SD04704024	All	Supply air smoke detector	All units
2SD04704124	All	Return air smoke detector	All units
2SD04704224	All	Supply and return air smoke detector	All units
2AP0406	All	Air proving switch	All units
2DF0407	All	Dirty air filter switch	All units
2FS0403	All	Condensate overflow switch	All units
2LA04700725	208/230V	Low ambient controller for 208/230V	All 208/230V units
2LA04700746	460V	Low ambient controller for 460V	All 460V units
2LA04700758	575V	Low ambient controller for 575V	All 575V units
2NC0401	All	Non-powered convenience outlet	All units
2DS0401	All	Refrigerant detection system (RDS) installation kit	All units

Factory and field-installed options

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

IntelliSpeed discrete fan control with electronically commutated motors (ECM)

Factory option

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

CRSZ control single zone VAV

Factory option

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

Low leak economizer with fresh air hood

Factory or field-installed option

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



Single or dual enthalpy control

Factory or field-installed option

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

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

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

Manual outside air damper

Factory or field-installed option

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

Motorized outside air damper

Factory or field-installed option

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

Barometric relief damper

Factory or field-installed option

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

Constant volume power exhaust

Factory or field-installed option

Units with an economizer are available with constant volume power exhaust. Whenever the outdoor air intake dampers are opened for free cooling, the exhaust fan is energized to prevent the conditioned space from being over-pressurized during economizer operation. The factory-installed version has an incorporated fold-out hood design for easy setup and operation. There are two options for the field-installed constant volume power exhaust. The standard CFM exhaust provides the same operational parameters as the factory-installed power exhaust while the high CFM exhaust provides expanded air movement capabilities.



Modulating power exhaust

Factory or field-installed option

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

Electric heat

Factory or field-installed option

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

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.

Modulating gas heat

Factory option

For improved temperature control and to provide more exact heating operation, select a modulating gas heat furnace. With the same maximum heating capacity as the high-heat staged gas heat and a 2.85 to 1 turndown ratio, the modulating gas heat option provides the same full load heating capabilities as the staged heating option and can also adjust the input rate to reflect the heating call. All modulating gas heat furnaces are equipped with stainless steel heat exchangers.

Note: Modulating furnaces are not certified for use with propane and cannot be converted from the factory.

Backup heating mode for dual fuel units

Backup heating mode is a feature available on dual fuel units. It is defaulted to 'Disable' in the Unit Control Board (UCB). With backup heating mode enabled, in the event of a heating failure (e.g. compressors locked out or disabled, gas valve shut down) the other source of heating will be brought online (e.g. if gas heating operation fails, heat pump heating is initiated) to continue heating the space. The unit will continue trying to resolve the reason for lockout and bring the original heat source back online.

Note: The unit activates an alarm indicating backup heating is in operation. Outdoor air temperature must be above dual fuel OAT HP cutout temperature setpoint for compressors to operate in backup heating mode.

Flue exhaust extension

Field-installed option

In locations where weather conditions could interfere with the correct 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.

Note: Modulating furnaces are not certified for use with propane and cannot be converted from the factory.

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 to 10,000 feet. Conversion kits are available for natural gas and propane.

Hinged and toolless access panels

Factory option

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

Coil guard and hail guard

Factory or field-installed option

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



LD06294-A

Stainless steel drain pan

Factory option

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

Circuit breaker

Factory option

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

Non-fused disconnect switch

Factory option

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

Powered convenience outlet

Factory option

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

Non-powered convenience outlet

Factory or field-installed option

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

65 kA high SCCR

Factory option

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

Supply and return air smoke detectors

Factory or field-installed option

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

 **WARNING**

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

Phase monitor

Factory option

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

Air proving switch

Factory or field-installed option

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

Dirty filter switch

Factory or field-installed option

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

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.

Low ambient head pressure control

Factory or field-installed option

An integrated low-ambient control allows units to operate in the cooling mode down to 0°F outdoor ambient without additional components or intervention. Optionally, you can program the control board to lock out the compressors when the outdoor air temperature is low or when free cooling is available.

E-coat evaporator and condenser

Factory option

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

Filters

Factory option

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

Burglar bars

Field-installed option

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

Refrigerant detection system (RDS)

Factory or field-installed option

Integrated sensors providing R-454B leak detection. The RDS is connected to the unit controls and automatically starts a sequence to dilute refrigerant gas. When the presence of refrigerant is detected in the cabinet, it sets off an alarm upon indicating a leak equal to 25% of the lower flammability limit. These sensors are positioned to ensure accurate and timely sensing of a leak.

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.

Physical data

Table 7: MD13 to MD25 physical data

Component	Models											
	MD13			MD15			MD20			MD25		
Nominal tonnage	12.5			15			20			25		
AHRI cooling performance												
Gross capacity @ AHRI A point (Btu)	150,500			187,500			248,300			291,500		
AHRI net capacity (Btu)	146,000			180,000			240,000			278,000		
EER	10.9 ¹ / 10.7 ²			10.9 ¹ / 10.7 ²			10.9 ¹ / 10.7 ²			10.2 ¹ / 10.0 ²		
IEER with Intellispeed	14.2 ¹ / 14.0 ²			13.8 ¹ / 13.6 ²			13.8 ¹ / 13.6 ²			13.6 ¹ / 13.4 ²		
CFM	5550			6750			7350			9250		
System power (kW)	13.64			16.82			22.43			27.80		
Refrigerant type	R-454B			R-454B			R-454B			R-454B		
Refrigerant charge (lb-oz)												
System 1	17-00			17-08			24-00			25-04		
System 2	15-12			18-08			25-04			25-08		
AHRI heating performance - heat pump operation												
47°F capacity rating (Btu)	136,000			172,000			218,000			278,000		
System power (kW) / COP	12.06/3.3			15.26/3.3			19.94/3.2			25.43/3.2		
17°F capacity rating (Btu)	80,000			100,000			126,000			162,000		
System power (kW) / COP	11.42/2.05			14.28/2.05			18.00/2.05			23.13/2.05		
AHRI heating performance - gas heat operation												
Heating model	N(S)1	N(S)3	T3									
Heating type	Stg. low	Stg. high	Mod. high	Stg. low	Stg. high	Mod. high	Stg. low	Stg. High	Mod. high	Stg. low	Stg. high	Mod. high
1st stage heat input (K Btu)	165	300	140	165	300	140	165	300	140	165	300	140
2nd stage heat input (K Btu)	220	400	400	220	400	400	220	400	400	220	400	400
1st stage heat output (K Btu)	134	243	113	134	243	113	134	243	113	134	243	113
2nd stage heat output (K Btu)	178	324	324	178	324	324	178	324	324	178	324	324
AFUE %	-	-	-	-	-	-	-	-	-	-	-	-
Steady state efficiency (%)	81	81	81	81	81	81	81	81	81	81	81	81
No. burners	5	9	9	5	9	9	5	9	9	5	9	9
No. stages / turn down	2	2	2.85 to 1									
Temperature rise range (°F)	15-45	25-70	25-70	15-45	25-70	25-70	10-45	25-65	25-65	10-45	25-65	25-65
Gas piping connection (Inch)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Dimensions (in.)												
Length	129-3/4			143-13/16			143-13/16			160-1/16		
Width	88-3/4			88-3/4			88-3/4			88-3/4		
Height	48-9/16			48-9/16			56-9/16			56-9/16		
Operating weight (lb.)	1,750			1,985			2,270			2,450		
Compressors	2 Stage											
Type	Scroll			Scroll			Scroll			Scroll		
Quantity	2			2			2			2		
Unit capacity steps (%)	50/100			50/100			50/100			50/100		
Condenser coil data												
Coil type	RTPF			RTPF			RTPF			RTPF		
Face area (sq. ft.)	45.8			57.8			68.4			78.0		
Rows	2			2			2			2		
Fins per in.	18			18			18			18		
Tube diameter (in.)	0.375			0.375			0.375			0.375		
Circuitry type	Separate coil											
Refrigerant control	TXV			TXV			TXV			TXV		
Evaporator coil data												
Face area (sq. ft.)	22.0			22.0			26.0			26.0		
Rows	3			3			4			4		
Fins per in.	13			17			13			13		
Tube diameter (in.)	0.375			0.375			0.375			0.375		
Circuitry type	Intertwined			Intertwined			Intertwined			Intertwined		
Refrigerant control	TXV			TXV			TXV			TXV		
Condenser fan data												
Quantity	2			4			4			4		
Fan diameter (in.)	30			24			24			30		
Type	Prop			Prop			Prop			Prop		
Drive type	Direct			Direct			Direct			Direct		
Number of motors	2			4			4			4		

Table 7: MD13 to MD25 physical data

Component	Models							
	MD13		MD15		MD20		MD25	
Motor HP each	0.5		0.5		0.5		0.5	
RPM	850		1,085		1,085		850	
CFM	9,600		14,100		15,100		18,000	
Direct drive evaporator fan data								
Type	Plenum		Plenum		Plenum		Plenum	
No. used/diameter (in.)	2/17.9		2/17.9		2/17.9		2/17.9	
Drive type/no. speeds	Direct / variable							
Motor HP each	2.69	3.24	2.69	3.24	4.82	5.66	4.82	5.66
Max Motor RPM	2,300	2,450	2,300	2,450	2,800	2,950	2,800	2,950
Filters								
Quantity - Size	6 - (20 x 25 x 2) ^{3,4,5}		6 - (20 x 25 x 2) ^{3,4,5}		9 - (16 x 25 x 2) ^{3,4,5}		9 - (16 x 25 x 2) ^{3,4,5}	
	6 - (20 x 25 x 4) ⁶		6 - (20 x 25 x 4) ⁶		9 - (16 x 25 x 4) ⁶		9 - (16 x 25 x 4) ⁶	
① Note: <ol style="list-style-type: none"> Heat pump unit only or heat pump with electric heat Heat pump with gas heat (dual fuel) 2 in. throwaway, standard, MERV (Minimum Efficiency Reporting Value) Optional 2 in. pleated, MERV 8 Optional 2 in. pleated, MERV 13 Optional 4 in. pleated, MERV 13 								

Unit limitations

Table 8: MD13 to MD25 unit limitations

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

Capacity performance tables

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 the air blower motor, MBH = 3.412 x kW. See the appropriate blower performance table for the kW of the supply air blower motor.

MD13 cooling capacity performance

Table 9: MD13 cooling performance 75°F and 85°F

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)										Return dry bulb temperature (°F)													
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)		
				75 (°F)										85 (°F)											
3125	77	185.9	100.4	184.7	83.1	184.1	68.1	—	—	—	—	—	—	177.1	95.7	175.7	80.8	174.3	64.5	—	—	—	—	—	—
	72	169.6	113.6	169.2	99.8	168.4	84.2	167.6	68.7	—	—	—	—	162.5	110.5	161.7	95.4	160.7	80.4	159.6	65.4	—	—	—	—
	67	152.6	128.2	152.8	113.1	152.8	97.8	152.4	83.8	151.9	68.3	—	—	146.9	124.9	146.8	110.1	146.4	95.2	145.7	80.2	144.8	65.2	—	—
	62	138.3	136.1	137.2	124.1	136.9	110.9	136.8	95.9	136.9	82.1	136.6	67.0	132.9	132.9	131.5	122.3	131.7	108.0	131.5	93.4	131.1	78.7	130.4	63.9
	57	130.7	130.7	125.7	125.7	123.5	119.8	122.8	107.0	122.0	94.0	122.2	79.5	128.8	128.8	123.3	123.3	117.5	117.5	117.5	117.3	105.6	117.3	91.5	117.1
3750	77	193.1	108.1	191.9	90.2	191.0	70.7	—	—	—	—	—	—	183.8	104.8	182.3	85.7	180.5	66.8	—	—	—	—	—	—
	72	176.5	125.3	176.0	107.4	175.2	89.3	174.1	71.4	—	—	—	—	168.9	121.6	168.1	104.2	166.9	85.1	165.6	67.9	—	—	—	—
	67	159.2	141.6	159.2	124.2	159.2	106.6	158.9	89.0	158.1	71.1	—	—	153.0	137.7	152.7	120.6	152.3	103.6	151.7	84.9	150.5	67.7	—	—
	62	146.5	146.5	143.5	137.7	142.8	121.4	143.1	104.4	142.9	87.1	142.4	69.8	143.0	143.0	137.0	135.6	137.3	118.1	137.1	101.5	136.6	84.7	135.8	66.6
57	140.7	140.7	135.0	135.0	129.2	129.2	128.2	118.4	127.8	102.2	127.8	85.7	138.6	138.6	132.4	132.4	126.0	126.0	122.4	116.3	122.7	99.4	122.4	82.0	
4375	77	197.8	114.7	196.4	94.3	195.5	74.3	—	—	—	—	—	—	188.1	111.0	186.6	89.6	184.5	70.1	—	—	—	—	—	—
	72	181.3	136.0	180.8	115.7	180.0	93.6	178.6	73.2	—	—	—	—	173.3	131.7	172.5	112.1	171.2	90.7	169.8	69.6	—	—	—	—
	67	163.8	153.9	163.6	134.2	163.6	114.5	163.2	93.0	162.3	73.0	—	—	157.1	150.8	156.8	130.1	156.3	110.9	155.7	90.3	154.3	69.4	—	—
	62	154.6	154.6	147.7	147.7	147.0	130.8	147.2	111.9	147.0	92.6	146.5	71.8	150.9	150.9	143.5	143.5	141.1	128.4	140.9	108.5	140.3	88.4	139.5	68.4
57	148.5	148.5	142.5	142.5	136.2	136.2	132.6	128.2	131.6	109.3	131.7	89.5	146.3	146.3	139.6	139.6	132.7	132.7	126.0	124.8	126.2	106.0	125.9	86.9	
5000	77	201.2	122.7	199.7	97.9	198.6	75.5	—	—	—	—	—	—	191.0	118.4	189.5	94.7	186.5	73.4	—	—	—	—	—	—
	72	184.2	145.6	183.8	121.3	183.0	98.8	181.6	74.5	—	—	—	—	176.0	140.8	175.0	117.3	173.9	95.6	172.3	72.4	—	—	—	—
	67	167.0	165.3	167.0	143.7	166.7	120.0	166.2	98.0	165.1	74.3	—	—	160.7	160.7	159.9	139.1	159.2	117.8	158.5	95.1	157.0	72.2	—	—
	62	161.1	161.1	153.7	153.7	149.9	139.4	150.0	118.5	149.8	95.9	149.2	74.6	157.2	157.2	149.2	149.2	143.4	137.6	143.5	114.8	142.8	92.8	141.9	71.0
57	154.8	154.8	148.4	148.4	141.7	141.7	134.7	134.7	134.2	115.4	134.2	94.0	152.3	152.3	145.1	145.1	137.9	137.9	130.3	130.3	128.5	113.1	128.2	91.0	
5625	77	203.1	128.0	201.7	102.9	200.2	76.1	—	—	—	—	—	—	192.8	123.4	191.3	97.6	188.7	71.7	—	—	—	—	—	—
	72	186.6	153.0	185.9	128.3	184.9	101.7	183.4	77.0	—	—	—	—	178.1	149.6	176.9	123.8	175.6	98.3	173.9	73.0	—	—	—	—
	67	171.2	171.2	169.1	152.2	168.7	126.5	168.1	100.9	166.9	76.8	—	—	165.5	165.5	161.6	148.7	160.9	123.9	160.0	97.6	158.5	72.9	—	—
	62	166.2	166.2	158.5	158.5	151.7	148.6	151.9	124.6	151.6	100.0	150.9	75.5	161.8	161.8	153.8	153.8	145.6	144.2	145.0	121.8	144.3	96.7	143.3	71.6
	57	159.7	159.7	153.0	153.0	146.0	146.0	138.6	138.6	135.9	120.9	135.9	97.9	157.0	157.0	149.8	149.8	142.0	142.0	134.1	134.1	129.9	118.2	129.7	94.6
6250	77	204.4	134.9	202.8	105.5	201.2	78.5	—	—	—	—	—	—	193.7	129.8	192.1	101.8	189.4	73.9	—	—	—	—	—	—
	72	187.9	161.6	187.1	134.7	186.1	106.1	184.5	77.5	—	—	—	—	179.0	157.5	177.8	129.8	176.6	102.4	174.4	73.2	—	—	—	—
	67	175.2	175.2	170.2	158.3	169.6	132.3	169.2	104.9	167.8	77.2	—	—	169.5	169.5	162.6	156.1	161.7	129.3	160.7	101.2	159.2	73.2	—	—
	62	170.1	170.1	162.3	162.3	153.9	153.9	153.2	130.2	152.7	103.9	152.0	76.0	165.8	165.8	157.3	157.3	148.5	148.5	146.3	127.2	145.4	100.3	144.1	73.5
57	163.5	163.5	156.7	156.7	149.3	149.3	141.6	141.6	136.9	127.3	136.8	101.2	160.7	160.7	153.1	153.1	145.1	145.1	136.9	136.9	130.7	124.2	130.4	97.8	

Table 10: MD13 cooling performance 95°F and 105°F

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)										Return dry bulb temperature (°F)													
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)		
		95 (°F)										105 (°F)													
3125	77	167.5	92.1	166.0	76.3	164.0	60.7	—	—	—	—	—	—	156.9	87.9	154.9	72.8	153.1	56.7	—	—	—	—	—	—
	72	154.4	108.0	153.3	92.0	151.9	76.0	150.7	61.8	—	—	—	—	144.9	102.9	143.7	87.7	142.3	72.6	140.8	57.7	—	—	—	—
	67	140.1	121.9	139.7	106.2	139.0	91.7	138.1	76.0	136.8	61.6	—	—	132.2	117.7	131.5	102.6	130.6	87.5	129.3	72.4	127.9	57.5	—	—
	62	128.8	128.8	125.4	119.2	125.5	104.2	125.0	90.0	124.2	74.5	123.5	60.5	123.4	123.4	118.2	114.7	118.1	100.4	117.4	85.7	116.5	71.1	115.3	56.5
	57	125.7	125.7	119.6	119.6	113.4	113.4	111.9	101.8	111.5	88.1	111.0	73.3	121.2	121.2	114.8	114.8	108.4	108.4	105.1	97.8	104.8	83.8	104.0	69.7
3750	77	173.6	100.7	171.8	82.5	169.9	62.9	—	—	—	—	—	—	162.3	95.8	160.2	76.9	158.0	60.1	—	—	—	—	—	—
	72	160.2	118.5	158.9	100.1	157.5	81.9	156.0	64.0	—	—	—	—	150.1	114.1	148.9	95.3	147.3	78.1	145.4	59.6	—	—	—	—
	67	145.4	135.3	144.9	117.4	144.4	99.6	143.3	81.7	142.0	63.9	—	—	137.0	130.1	136.2	113.0	135.3	94.7	134.1	77.8	132.5	59.6	—	—
	62	138.4	138.4	131.1	131.1	130.7	115.0	130.1	97.6	129.3	80.2	128.2	62.8	132.6	132.6	124.9	124.9	122.8	110.5	122.0	94.0	121.0	76.2	119.6	58.6
	57	135.1	135.1	128.4	128.4	121.6	121.6	116.4	112.9	116.4	95.4	115.9	78.8	130.3	130.3	123.2	123.2	116.0	116.0	109.4	108.3	109.1	91.7	108.2	74.7
4375	77	177.5	106.5	175.6	86.0	173.5	65.9	—	—	—	—	—	—	165.6	102.7	163.6	81.8	161.2	61.3	—	—	—	—	—	—
	72	164.0	127.9	162.9	107.5	161.6	87.3	159.7	65.5	—	—	—	—	153.5	122.8	152.4	102.1	150.8	81.4	148.6	62.4	—	—	—	—
	67	149.4	146.4	148.8	126.5	147.9	106.5	146.8	86.6	145.4	65.4	—	—	141.1	141.1	139.7	121.5	138.5	102.5	137.2	82.3	135.4	62.3	—	—
	62	145.9	145.9	138.1	138.1	133.9	124.6	133.4	105.4	132.6	84.9	131.4	65.7	139.7	139.7	131.5	131.5	125.6	120.6	124.9	99.9	124.0	80.6	122.5	61.3
	57	142.4	142.4	135.2	135.2	127.9	127.9	120.5	119.6	120.5	119.6	102.9	83.3	137.2	137.2	129.6	129.6	122.0	122.0	114.2	114.2	112.1	98.6	111.0	78.8
5000	77	180.0	113.4	178.0	90.8	175.5	66.7	—	—	—	—	—	—	167.8	109.1	165.7	86.2	163.2	62.0	—	—	—	—	—	—
	72	166.5	136.6	165.2	114.0	163.8	90.1	161.7	67.9	—	—	—	—	155.9	130.9	154.3	108.0	152.6	85.5	150.4	63.2	—	—	—	—
	67	154.1	154.1	151.3	136.2	150.6	113.0	149.3	89.6	147.6	67.9	—	—	146.7	146.7	141.8	130.5	140.8	108.4	139.3	85.0	137.4	63.2	—	—
	62	151.7	151.7	143.5	143.5	136.2	133.5	135.5	111.1	134.8	88.9	133.4	66.7	145.2	145.2	136.5	136.5	128.0	128.0	126.8	106.5	125.7	84.2	124.2	62.1
	57	148.2	148.2	140.6	140.6	132.9	132.9	125.0	125.0	121.5	109.4	120.9	87.1	142.7	142.7	134.6	134.6	126.6	126.6	118.4	118.4	113.5	104.4	112.7	82.3
5625	77	181.5	119.8	179.5	93.4	176.9	69.0	—	—	—	—	—	—	169.1	115.0	166.9	88.4	164.0	64.0	—	—	—	—	—	—
	72	168.3	144.7	166.8	120.1	165.3	94.2	163.0	68.5	—	—	—	—	156.9	139.7	155.6	115.2	153.9	89.3	151.6	65.2	—	—	—	—
	67	158.8	158.8	153.0	143.8	151.8	118.4	150.6	93.4	149.0	68.5	—	—	150.9	150.9	142.9	138.6	141.8	113.4	140.4	88.5	138.4	65.1	—	—
	62	156.4	156.4	147.8	147.8	139.0	139.0	137.2	116.6	136.2	92.6	134.7	68.7	149.4	149.4	140.4	140.4	131.5	131.5	128.1	112.8	126.8	87.5	125.1	63.8
	57	152.7	152.7	144.8	144.8	136.7	136.7	128.5	128.5	122.8	114.2	122.2	90.4	146.9	146.9	138.4	138.4	130.1	130.1	121.6	121.6	114.6	110.0	113.6	86.4
6250	77	182.4	125.9	180.1	97.3	177.4	69.2	—	—	—	—	—	—	169.6	120.4	167.3	92.0	164.4	65.8	—	—	—	—	—	—
	72	169.0	152.1	167.4	125.5	166.0	97.9	163.6	70.3	—	—	—	—	158.1	147.1	156.0	120.1	154.4	92.7	151.8	65.3	—	—	—	—
	67	162.4	162.4	153.9	150.8	152.6	123.6	151.2	96.8	149.4	70.2	—	—	154.2	154.2	144.4	144.4	142.4	119.6	140.7	91.5	138.6	65.2	—	—
	62	159.9	159.9	151.1	151.1	141.9	141.9	137.9	122.8	137.0	95.9	135.4	69.1	152.6	152.6	143.4	143.4	134.2	134.2	128.6	117.1	127.5	90.5	125.7	65.3
	57	156.1	156.1	148.0	148.0	139.5	139.5	131.1	131.1	123.5	119.8	122.7	93.3	150.1	150.1	141.4	141.4	132.7	132.7	123.9	123.9	115.2	115.2	114.1	89.0

Table 11: MD13 cooling performance 115°F and 125°F

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)										Return dry bulb temperature (°F)													
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)		
		115 (°F)										125 (°F)													
3125	77	145.3	82.8	143.3	67.4	141.4	52.3	—	—	—	—	—	—	133.0	77.2	131.1	62.9	128.7	47.6	—	—	—	—	—	—
	72	134.7	98.3	133.3	82.7	131.8	68.5	130.0	53.3	—	—	—	—	123.6	92.7	122.2	78.2	120.4	62.6	118.6	48.6	—	—	—	—
	67	123.2	112.1	122.3	97.8	121.2	82.4	119.7	68.2	118.2	53.2	—	—	113.0	106.2	112.2	92.0	110.8	77.6	109.4	62.4	107.6	48.4	—	—
	62	117.1	117.1	110.1	110.1	109.9	95.6	108.9	81.7	107.8	66.8	106.4	52.1	109.8	109.8	102.7	102.7	100.6	90.5	99.6	75.7	98.3	61.9	96.7	47.4
	57	115.7	115.7	109.1	109.1	102.3	102.3	97.6	92.7	97.0	79.6	96.0	65.3	109.2	109.2	102.2	102.2	95.4	95.4	88.8	87.9	88.5	74.3	87.3	60.2
3750	77	150.2	90.1	147.9	72.5	145.8	55.4	—	—	—	—	—	—	137.1	85.0	134.9	67.4	132.6	50.4	—	—	—	—	—	—
	72	139.4	108.7	137.9	91.0	136.2	72.2	134.1	55.0	—	—	—	—	127.6	102.1	126.2	84.5	124.2	67.1	122.0	51.2	—	—	—	—
	67	127.3	124.8	126.4	107.5	125.3	90.2	123.9	71.9	122.2	55.0	—	—	117.6	117.6	115.9	102.0	114.4	84.6	113.0	67.8	111.1	50.0	—	—
	62	125.7	125.7	117.9	117.9	113.8	105.8	112.9	88.1	111.8	71.5	110.1	55.1	117.7	117.7	110.0	110.0	103.8	99.7	103.1	83.5	101.6	66.1	99.9	50.0
	57	124.2	124.2	116.8	116.8	109.5	109.5	102.0	102.0	100.8	86.7	99.8	69.8	116.9	116.9	109.4	109.4	102.0	102.0	94.4	94.4	91.7	80.7	90.5	64.2
4375	77	153.2	96.5	150.7	76.9	148.3	56.3	—	—	—	—	—	—	139.6	90.7	137.4	71.4	134.6	52.5	—	—	—	—	—	—
	72	142.4	116.8	140.8	97.2	139.3	76.6	136.9	57.5	—	—	—	—	130.3	110.8	128.5	91.2	126.7	72.2	124.3	52.2	—	—	—	—
	67	132.8	132.8	129.2	116.3	128.2	96.2	126.6	77.2	124.6	57.3	—	—	123.6	123.6	118.3	110.0	116.8	91.1	115.3	71.5	113.2	52.1	—	—
	62	132.2	132.2	124.0	124.0	116.3	115.2	115.3	95.7	114.3	75.4	112.6	56.3	123.7	123.7	115.4	115.4	107.2	107.2	105.1	89.4	103.7	70.5	101.9	51.0
	57	130.7	130.7	122.9	122.9	114.9	114.9	107.1	107.1	103.2	92.9	102.2	73.6	122.9	122.9	114.9	114.9	107.0	107.0	99.0	99.0	93.5	87.0	92.5	68.5
5000	77	154.8	102.2	152.7	80.9	149.8	58.4	—	—	—	—	—	—	141.0	97.3	138.8	74.9	135.9	53.0	—	—	—	—	—	—
	72	144.1	125.4	142.3	102.5	140.6	80.1	138.2	58.1	—	—	—	—	131.4	119.6	129.8	97.4	127.9	75.5	125.4	53.9	—	—	—	—
	67	137.9	137.9	131.2	124.7	130.0	102.7	128.4	80.9	126.3	58.1	—	—	128.3	128.3	119.6	118.4	118.3	97.0	116.6	74.6	114.4	53.8	—	—
	62	137.3	137.3	128.6	128.6	120.0	120.0	117.1	100.7	115.7	79.9	114.0	58.1	128.4	128.4	119.6	119.6	111.0	111.0	106.4	94.7	104.8	73.4	102.9	52.5
	57	135.7	135.7	127.5	127.5	119.2	119.2	110.9	110.9	104.5	98.3	103.5	77.6	127.5	127.5	119.1	119.1	110.9	110.9	102.4	102.4	94.5	93.6	93.6	72.1
5625	77	155.7	109.0	153.7	83.0	150.6	58.7	—	—	—	—	—	—	141.8	102.1	139.6	78.2	136.4	54.5	—	—	—	—	—	—
	72	145.2	133.6	143.5	109.0	141.6	83.5	139.1	59.8	—	—	—	—	132.4	127.1	130.7	102.0	128.7	78.5	126.0	54.2	—	—	—	—
	67	141.8	141.8	132.3	132.3	131.1	108.8	129.3	84.0	127.1	59.7	—	—	131.6	131.6	122.4	122.4	119.0	102.4	117.1	78.5	114.9	55.2	—	—
	62	141.2	141.2	132.1	132.1	123.2	123.2	117.9	107.3	116.7	82.9	114.8	58.5	131.8	131.8	122.8	122.8	113.9	113.9	107.3	99.8	105.7	77.1	103.5	53.8
	57	139.6	139.6	131.0	131.0	122.4	122.4	113.7	113.7	105.4	104.3	104.2	81.3	130.9	130.9	122.3	122.3	113.6	113.6	104.9	104.9	96.4	96.4	94.0	75.2
6250	77	156.0	113.9	154.0	86.2	150.7	60.3	—	—	—	—	—	—	142.0	106.5	139.9	81.1	136.5	54.6	—	—	—	—	—	—
	72	145.6	141.2	143.9	113.7	141.8	86.5	139.2	61.3	—	—	—	—	133.1	133.1	130.9	107.4	128.9	81.2	126.1	55.5	—	—	—	—
	67	144.7	144.7	135.0	135.0	131.3	112.9	129.4	86.7	127.3	61.1	—	—	134.3	134.3	124.7	124.7	119.1	107.1	117.3	80.9	114.9	55.1	—	—
	62	144.1	144.1	134.8	134.8	125.5	125.5	118.5	111.4	117.1	85.5	115.0	59.8	134.4	134.4	125.1	125.1	115.9	115.9	107.1	106.1	105.9	79.5	103.7	54.9
	57	142.4	142.4	133.6	133.6	124.8	124.8	115.8	115.8	106.9	106.9	104.5	83.6	133.5	133.5	124.6	124.6	115.8	115.8	106.8	106.8	97.9	97.9	94.3	77.3

MD15 cooling capacity performance

Table 12: MD15 cooling performance 75°F and 85°F

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)										Return dry bulb temperature (°F)													
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)		
		75 (°F)										85 (°F)													
3750	77	240.6	129.9	243.8	112.1	245.4	90.8	—	—	—	—	—	—	230.6	126.8	233.2	107.3	235.1	87.0	—	—	—	—	—	
	72	222.4	151.2	226.5	133.7	228.8	114.4	221.1	90.7	—	—	—	—	214.4	147.9	217.9	130.7	219.7	109.9	211.7	86.8	—	—	—	
	67	203.3	170.8	208.3	154.2	211.2	137.2	203.6	112.0	216.9	97.6	—	—	197.2	169.6	201.8	153.3	203.9	132.5	196.0	107.8	208.9	94.0	—	
	62	186.9	186.9	181.5	167.0	193.6	156.8	186.0	132.1	200.2	120.1	195.7	95.9	183.2	184.2	176.4	165.8	187.9	156.0	180.3	128.0	193.7	116.2	189.0	92.6
	57	184.4	184.4	180.2	180.2	176.3	176.3	179.3	159.6	176.2	135.7	179.8	116.9	183.2	183.2	178.2	178.2	173.5	173.5	174.9	157.4	171.0	133.4	174.4	115.1
4500	77	249.9	140.0	252.2	118.5	242.9	89.9	—	—	—	—	—	—	238.9	136.2	240.9	113.2	231.8	85.8	—	—	—	—	—	
	72	232.0	167.0	234.9	145.6	226.2	115.4	240.0	98.4	—	—	—	—	223.1	162.9	225.5	142.1	216.3	112.5	229.8	94.2	—	—	—	
	67	204.5	184.0	216.6	171.1	208.3	139.6	223.0	124.9	217.8	98.0	—	—	197.6	181.8	209.2	167.4	200.5	136.3	214.7	122.4	209.1	94.1	—	
	62	201.6	201.6	197.9	194.0	201.2	173.0	197.5	146.1	201.2	122.7	204.1	100.0	198.2	198.2	192.6	192.6	195.1	169.8	190.7	143.1	193.7	120.1	196.5	96.3
	57	198.7	198.7	194.7	194.7	188.8	188.8	180.1	169.3	184.6	147.7	187.9	125.9	197.0	197.0	192.2	192.2	185.5	185.5	175.0	166.2	178.9	146.7	181.9	123.7
5250	77	255.7	150.8	246.0	118.1	259.9	98.8	—	—	—	—	—	—	244.2	146.5	234.0	114.7	248.2	94.3	—	—	—	—	—	
	72	238.0	180.8	240.5	153.9	243.9	129.2	237.6	97.4	—	—	—	—	228.3	178.1	230.8	150.0	233.6	123.8	227.0	93.1	—	—	—	
	67	219.8	208.8	222.5	184.7	217.7	152.4	220.8	128.1	224.1	100.9	—	—	212.3	208.1	214.8	182.6	209.4	150.8	212.1	123.0	214.9	96.7	—	
	62	214.1	214.1	207.3	207.3	199.8	181.8	203.8	156.9	207.4	130.7	198.8	97.4	210.3	210.3	202.7	202.7	193.0	177.6	196.5	153.3	199.7	127.8	190.8	93.5
	57	199.3	199.3	205.4	205.4	191.4	191.4	186.6	184.7	190.4	159.9	182.6	126.0	197.2	197.2	202.3	202.3	187.7	187.7	181.6	181.6	184.2	156.6	175.9	123.1
6000	77	259.6	160.9	262.5	131.2	254.6	96.7	—	—	—	—	—	—	247.5	155.9	250.1	127.6	242.3	92.1	—	—	—	—	—	
	72	242.4	193.9	236.7	158.6	239.1	129.1	242.2	101.7	—	—	—	—	232.3	190.5	226.3	156.1	228.6	125.7	230.9	97.0	—	—	—	
	67	224.9	224.9	218.6	190.2	222.3	162.3	225.7	135.4	216.0	97.2	—	—	218.6	218.6	210.3	187.2	213.4	160.1	216.2	129.7	206.6	95.0	—	
	62	223.2	223.2	207.9	207.9	205.3	195.0	208.7	167.0	199.8	129.9	214.7	107.3	218.9	218.9	202.9	202.9	197.7	191.8	201.1	164.9	191.8	126.6	206.2	103.1
	57	220.3	220.3	206.0	206.0	191.5	191.5	194.1	194.1	195.3	169.9	198.7	141.0	217.6	217.6	202.6	202.6	187.4	187.4	189.4	189.4	188.5	167.8	191.5	137.9
6750	77	238.8	155.2	239.5	122.1	238.9	90.8	—	—	—	—	—	—	226.4	149.4	226.9	118.0	226.1	88.2	—	—	—	—	—	
	72	222.2	186.7	223.2	156.2	223.8	125.3	224.2	94.2	—	—	—	—	211.7	182.1	212.7	153.2	212.7	121.2	212.9	89.4	—	—	—	
	67	209.0	209.0	205.5	189.0	206.4	159.0	208.3	127.1	208.9	96.1	—	—	202.8	202.8	197.3	183.5	197.7	154.2	198.6	123.1	198.8	91.4	—	
	62	207.6	207.6	198.8	198.8	189.6	189.6	191.2	160.6	192.7	129.1	193.6	96.8	202.8	202.8	193.5	193.5	184.0	184.0	183.6	156.1	184.4	125.4	184.7	92.3
	57	204.5	204.5	196.8	196.8	188.6	188.6	179.9	179.9	176.5	160.6	177.9	129.9	201.5	201.5	193.1	193.1	184.3	184.3	175.0	175.0	169.4	157.5	170.6	126.3
7500	77	237.6	159.2	238.1	126.2	237.4	92.6	—	—	—	—	—	—	225.1	155.3	225.4	121.7	224.3	87.5	—	—	—	—	—	
	72	221.3	194.7	222.1	162.2	222.6	129.1	223.1	93.7	—	—	—	—	210.4	191.5	211.3	158.4	211.5	124.8	211.4	90.9	—	—	—	
	67	212.4	212.4	205.5	197.2	206.2	165.0	207.4	130.6	207.5	95.5	—	—	205.7	205.7	195.9	194.0	196.9	159.5	197.5	126.4	197.3	92.7	—	
	62	210.7	210.7	201.9	201.9	192.3	192.3	190.8	166.0	192.0	132.5	192.8	98.3	205.9	205.9	196.2	196.2	186.3	186.3	182.6	162.5	183.6	128.5	183.6	93.6
	57	207.9	207.9	199.9	199.9	191.4	191.4	182.3	182.3	176.4	165.8	177.5	133.2	204.7	204.7	195.9	195.9	186.8	186.8	177.2	177.2	168.9	163.8	169.9	129.1

Table 13: MD15 cooling performance 95°F and 105°F

Air on evaporator coil		Temperature of air on condenser coil																							
CFM	WB (°F)	Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
		90		85		80		75		70		65		90		85		80		75		70		65	
		Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)		
95 (°F)												105 (°F)													
3750	77	219.4	120.7	221.9	102.1	223.1	82.5	—	—	—	—	—	—	206.8	115.8	209.0	98.2	210.1	77.7	—	—	—	—	—	—
	72	205.0	143.5	208.1	124.9	209.7	107.0	201.3	82.5	—	—	—	—	194.2	139.8	197.2	120.3	198.3	101.1	189.7	77.8	—	—	—	—
	67	189.8	167.1	193.5	149.0	195.5	129.0	187.1	102.9	199.7	89.9	—	—	180.5	162.4	184.0	145.4	185.5	124.3	176.9	99.1	188.8	84.9	—	—
	62	179.7	179.7	169.8	163.1	180.8	151.9	172.8	124.4	186.0	113.5	180.7	88.6	174.0	174.0	161.1	159.5	172.7	148.5	164.4	120.0	176.9	107.9	171.6	84.1
	57	180.0	180.0	174.6	174.6	169.4	169.4	168.6	155.1	164.7	130.1	167.5	110.5	175.3	175.3	169.3	169.3	164.0	164.0	161.0	151.3	156.8	125.4	159.4	106.8
4500	77	227.0	131.7	228.3	109.6	218.8	81.0	—	—	—	—	—	—	213.7	126.1	214.8	105.3	204.6	77.8	—	—	—	—	—	—
	72	212.8	159.6	214.7	137.4	205.5	106.9	218.6	89.6	—	—	—	—	201.0	154.8	202.9	131.9	193.1	102.4	206.2	84.5	—	—	—	—
	67	189.0	177.6	200.3	164.3	191.3	132.0	205.1	116.9	198.9	89.5	—	—	179.1	173.7	190.3	159.8	180.7	128.3	194.2	112.6	187.8	84.5	—	—
	62	193.1	193.1	187.2	187.2	187.5	166.9	182.6	138.8	185.5	116.9	187.8	92.0	186.6	186.6	180.2	180.2	178.2	162.2	173.2	135.1	175.5	110.5	177.5	87.0
	57	193.2	193.2	188.0	188.0	180.7	180.7	167.9	164.6	171.7	142.6	174.2	118.5	187.8	187.8	182.0	182.0	174.5	174.5	160.1	160.1	163.2	138.7	165.5	114.2
5250	77	231.6	141.3	220.8	110.4	234.7	89.2	—	—	—	—	—	—	217.7	137.2	206.5	103.2	220.0	83.6	—	—	—	—	—	—
	72	217.6	171.9	219.3	146.9	222.3	120.0	214.9	88.1	—	—	—	—	205.8	168.7	206.8	140.6	209.1	115.0	202.1	84.9	—	—	—	—
	67	203.1	203.1	205.2	178.5	199.8	145.8	202.1	119.2	204.1	91.9	—	—	194.8	194.8	194.3	173.0	188.3	141.2	190.6	114.3	192.3	88.4	—	—
	62	204.5	204.5	196.8	196.8	185.1	174.0	188.0	150.4	190.8	124.0	181.5	90.8	197.3	197.3	189.1	189.1	175.2	169.9	178.1	144.2	180.3	119.0	170.7	85.4
	57	192.9	192.9	197.6	197.6	182.5	182.5	175.8	175.8	176.6	153.6	167.8	119.2	186.8	186.8	190.9	190.9	175.8	175.8	168.7	168.7	167.5	149.1	158.4	114.0
6000	77	234.3	149.9	236.4	120.6	228.6	86.9	—	—	—	—	—	—	220.1	145.3	221.6	115.2	213.9	83.4	—	—	—	—	—	—
	72	221.2	185.8	214.4	150.1	216.7	121.4	218.6	91.8	—	—	—	—	208.3	181.2	201.3	144.9	203.3	115.9	204.8	86.0	—	—	—	—
	67	211.2	211.2	200.0	184.0	202.9	156.3	205.5	125.4	194.9	89.7	—	—	202.2	202.2	189.3	178.0	191.3	149.2	193.9	120.2	183.1	84.2	—	—
	62	212.6	212.6	196.5	196.5	189.0	189.0	192.1	159.5	182.2	122.1	196.5	98.2	204.8	204.8	188.3	188.3	180.7	180.7	182.0	154.7	171.4	116.5	185.4	92.7
	57	212.9	212.9	197.4	197.4	181.7	181.7	183.2	183.2	180.1	163.9	183.1	133.7	206.3	206.3	190.3	190.3	174.3	174.3	175.6	175.6	170.7	158.7	173.1	128.1
6750	77	212.8	142.6	212.9	112.8	212.0	82.7	—	—	—	—	—	—	198.4	136.9	197.6	106.7	196.9	76.8	—	—	—	—	—	—
	72	200.4	178.3	200.5	146.3	201.0	116.6	200.2	86.1	—	—	—	—	187.5	170.6	187.0	140.3	187.3	110.5	186.4	80.1	—	—	—	—
	67	195.0	195.0	186.8	179.3	187.4	149.9	187.4	118.1	187.6	86.3	—	—	185.4	185.4	175.0	175.0	175.6	144.0	175.5	112.3	175.0	82.3	—	—
	62	196.3	196.3	186.6	186.6	176.6	176.6	173.9	151.3	174.5	120.4	174.5	89.0	188.0	188.0	178.1	178.1	167.9	167.9	163.4	147.1	163.2	114.3	163.1	83.2
	57	196.5	196.5	187.5	187.5	178.1	178.1	168.4	168.4	161.4	153.3	162.0	121.5	189.4	189.4	180.0	180.0	170.4	170.4	160.3	160.3	151.0	147.9	151.7	116.8
7500	77	211.2	149.9	211.2	116.2	209.9	81.9	—	—	—	—	—	—	196.7	143.6	195.8	109.6	194.7	77.9	—	—	—	—	—	—
	72	199.2	185.3	199.1	153.3	199.1	119.5	198.5	85.4	—	—	—	—	185.7	178.2	185.6	146.6	185.5	113.1	184.4	79.3	—	—	—	—
	67	197.5	197.5	186.8	186.8	186.5	154.8	186.2	121.0	185.9	87.4	—	—	187.5	187.5	176.7	176.7	173.8	149.4	173.9	116.5	173.3	83.2	—	—
	62	199.1	199.1	189.0	189.0	178.6	178.6	172.7	157.1	173.4	123.1	173.1	88.3	190.3	190.3	180.0	180.0	169.5	169.5	162.5	151.1	162.1	118.3	161.7	84.1
	57	199.4	199.4	190.0	190.0	180.2	180.2	170.1	170.1	160.0	160.0	161.1	125.6	191.8	191.8	182.1	182.1	172.0	172.0	161.8	161.8	151.3	151.3	150.6	119.0

Table 14: MD15 cooling performance 115°F and 125°F

Air on evaporator coil		Temperature of air on condenser coil																								
CFM	WB (°F)	Return dry bulb temperature (°F)										Return dry bulb temperature (°F)														
		90		85		80		75		70		65		90		85		80		75		70		65		
		Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	
115 (°F)											125 (°F)															
3750	77	192.9	109.9	195.1	91.7	195.9	72.5	—	—	—	—	—	—	178.1	105.1	179.9	86.3	180.7	68.7	—	—	—	—	—	—	—
	72	182.1	134.7	184.8	116.4	185.8	96.6	176.8	72.5	—	—	—	—	168.8	128.3	171.3	109.6	172.1	91.2	162.9	66.8	—	—	—	—	—
	67	169.9	156.3	173.0	140.1	174.5	120.4	165.5	94.3	177.6	79.9	—	—	158.0	151.6	161.2	133.8	162.2	113.5	153.0	88.7	164.7	74.1	—	—	—
	62	166.9	166.9	153.0	153.0	163.0	143.5	154.2	115.6	166.6	103.3	161.0	78.9	158.2	158.2	144.3	144.3	151.6	138.0	142.7	109.9	155.4	97.9	149.4	73.2	—
	57	169.1	169.1	162.7	162.7	156.9	156.9	152.0	145.9	147.8	121.2	150.2	102.1	161.0	161.0	154.8	154.8	149.1	149.1	141.6	141.6	137.4	115.4	139.6	96.3	—
4500	77	198.9	121.3	200.2	98.1	189.8	72.1	—	—	—	—	—	—	183.5	115.6	184.3	92.2	173.9	66.1	—	—	—	—	—	—	—
	72	188.2	148.7	189.8	125.2	179.8	97.1	192.4	78.9	—	—	—	—	174.3	142.9	175.3	119.2	165.2	90.9	177.7	74.6	—	—	—	—	—
	67	167.5	167.5	178.7	153.7	168.8	123.3	182.1	107.4	175.6	79.0	—	—	157.2	157.2	165.6	147.3	155.7	116.8	168.7	101.2	162.2	74.6	—	—	—
	62	178.4	178.4	172.1	172.1	167.7	157.6	162.3	128.3	164.5	105.3	166.3	83.1	168.9	168.9	162.5	162.5	155.7	152.6	150.4	123.4	152.3	100.5	153.8	76.9	—
	57	180.7	180.7	174.6	174.6	166.7	166.7	152.2	153.6	133.6	155.4	108.8	171.7	171.7	165.7	165.7	157.9	157.9	157.9	143.3	143.3	142.3	126.6	144.1	103.8	—
5250	77	202.3	129.5	191.3	97.6	204.3	77.6	—	—	—	—	—	—	185.9	124.5	175.1	92.8	187.9	73.3	—	—	—	—	—	—	—
	72	192.1	161.3	193.2	135.2	194.9	109.2	187.8	78.9	—	—	—	—	177.1	155.8	178.1	130.0	180.0	102.6	172.6	72.5	—	—	—	—	—
	67	185.1	185.1	182.2	167.7	175.7	135.3	177.7	108.4	179.2	82.4	—	—	174.0	174.0	168.6	160.1	162.3	128.2	163.6	103.1	165.3	76.0	—	—	—
	62	188.5	188.5	180.2	180.2	164.2	164.2	166.9	140.2	168.9	113.1	158.9	79.4	178.1	178.1	169.8	169.8	154.2	154.2	154.1	132.5	155.9	106.0	146.0	74.5	—
	57	179.1	179.1	182.8	182.8	167.4	167.4	160.4	160.4	157.1	144.5	147.7	107.8	169.5	169.5	173.2	173.2	157.8	157.8	150.5	150.5	145.8	137.0	135.8	101.8	—
6000	77	204.1	138.8	205.7	111.1	197.7	77.1	—	—	—	—	—	—	187.1	132.9	189.2	104.1	180.9	70.6	—	—	—	—	—	—	—
	72	193.8	174.5	187.1	138.4	188.7	109.4	190.4	81.9	—	—	—	—	179.1	166.6	172.0	132.4	173.4	104.0	174.8	75.2	—	—	—	—	—
	67	192.0	192.0	176.0	172.5	178.7	144.8	180.7	115.6	169.8	79.8	—	—	180.3	180.3	163.4	163.4	164.7	136.7	166.3	108.1	155.2	73.0	—	—	—
	62	195.4	195.4	178.8	178.8	171.0	171.0	169.9	149.5	159.4	111.6	172.9	88.2	184.4	184.4	167.9	167.9	160.2	160.2	156.7	142.6	146.3	103.9	159.6	81.4	—
	57	197.8	197.8	181.7	181.7	165.4	165.4	166.5	166.5	159.9	153.5	162.3	123.3	187.6	187.6	171.3	171.3	155.2	155.2	156.1	156.1	147.9	147.9	150.0	117.0	—
6750	77	182.3	131.3	181.8	101.8	180.7	72.3	—	—	—	—	—	—	165.5	122.5	164.9	94.0	163.7	65.5	—	—	—	—	—	—	—
	72	173.0	164.4	173.0	135.0	172.4	105.2	171.3	73.7	—	—	—	—	157.1	157.1	157.3	127.4	156.6	97.1	155.7	68.5	—	—	—	—	—
	67	174.6	174.6	164.1	164.1	162.3	137.9	162.2	107.1	161.4	75.9	—	—	162.5	162.5	152.2	152.2	147.7	130.0	148.1	100.7	146.7	70.4	—	—	—
	62	178.2	178.2	168.0	168.0	157.8	157.8	151.5	139.4	151.0	108.8	150.7	78.4	166.7	166.7	156.6	156.6	146.4	146.4	137.8	133.7	137.8	102.0	137.2	71.4	—
	57	180.6	180.6	170.9	170.9	160.9	160.9	151.0	151.0	140.7	140.7	140.3	110.8	169.8	169.8	160.2	160.2	150.2	150.2	140.0	140.0	130.1	130.1	128.3	103.9	—
7500	77	180.6	135.4	179.6	104.1	178.5	71.4	—	—	—	—	—	—	163.4	127.4	162.5	97.5	161.2	66.1	—	—	—	—	—	—	—
	72	171.4	171.4	171.2	138.7	170.3	107.3	169.1	74.4	—	—	—	—	158.2	158.2	154.8	131.5	154.3	100.3	153.4	69.0	—	—	—	—	—
	67	176.3	176.3	165.6	165.6	160.1	142.5	160.4	109.1	159.5	76.6	—	—	163.7	163.7	153.1	153.1	146.5	134.8	145.6	103.4	144.6	70.9	—	—	—
	62	180.0	180.0	169.6	169.6	159.0	159.0	149.9	145.4	149.6	112.2	148.9	77.4	168.1	168.1	157.7	157.7	147.3	147.3	136.7	136.7	136.3	104.9	135.2	71.7	—
	57	182.6	182.6	172.5	172.5	162.4	162.4	152.1	152.1	141.6	141.6	139.2	112.7	171.4	171.4	161.4	161.4	151.3	151.3	140.9	140.9	130.6	130.6	126.7	106.4	—

MD20 cooling capacity performance

Table 15: MD20 cooling performance 75°F and 85°F

Air on evaporator coil		Temperature of air on condenser coil																								
		Return dry bulb temperature (°F)										Return dry bulb temperature (°F)														
		90		85		80		75		70		65		90		85		80		75		70		65		
CFM	WB (°F)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)			
		75 (°F)										85 (°F)														
5000	77	281.8	149.4	280.3	126.2	280.2	103.7	—	—	—	—	—	—	270.7	146.2	269.2	123.8	268.2	99.2	—	—	—	—	—	—	
	72	265.1	177.6	265.1	153.7	265.0	132.5	264.4	108.4	—	—	—	—	255.9	174.0	255.3	150.6	255.0	127.5	254.2	104.2	—	—	—	—	
	67	247.1	204.5	247.0	180.3	247.1	158.5	247.4	133.6	247.4	111.3	—	—	238.7	200.5	239.0	176.9	239.4	155.6	238.7	131.3	238.2	107.2	—	—	
	62	226.4	226.4	226.6	206.2	226.5	182.9	226.4	160.3	226.1	137.7	225.2	112.6	—	222.3	222.3	222.1	205.0	221.6	179.5	221.8	157.5	221.8	133.1	221.6	108.6
	57	224.7	224.7	210.2	215.9	209.1	206.1	209.5	184.3	209.4	159.9	209.4	137.3	—	221.9	221.9	212.5	212.5	203.1	203.1	203.3	181.0	204.1	157.2	204.4	132.9
6000	77	293.5	164.3	291.6	134.2	290.9	107.6	—	—	—	—	—	—	281.4	157.6	279.4	131.3	277.9	102.8	—	—	—	—	—	—	
	72	277.0	196.7	276.1	168.4	275.9	140.7	275.4	112.9	—	—	—	—	266.7	192.1	265.5	164.6	264.9	135.1	264.1	108.3	—	—	—	—	
	67	257.5	226.6	257.9	198.3	258.2	170.4	258.5	144.8	258.2	116.2	—	—	248.7	223.9	248.6	196.4	248.9	166.8	248.7	139.3	248.2	111.7	—	—	
	62	244.0	244.0	239.2	227.6	239.5	200.6	239.6	174.9	240.0	146.4	239.9	117.5	—	239.3	239.3	237.2	225.4	231.0	198.7	231.5	171.3	231.5	141.2	230.9	113.1
	57	242.2	242.2	232.5	232.5	222.4	222.4	221.5	202.1	220.7	174.4	221.1	145.9	—	238.8	238.8	228.5	217.8	212.7	199.9	213.6	170.9	213.6	143.1	—	—
7000	77	301.3	174.8	301.3	144.6	300.3	114.1	—	—	—	—	—	—	288.5	170.2	288.1	138.3	286.4	108.8	—	—	—	—	—	—	
	72	285.1	211.0	285.1	180.1	285.4	148.4	284.4	116.6	—	—	—	—	274.1	208.3	274.5	175.7	273.6	145.0	272.5	111.7	—	—	—	—	
	67	266.2	247.6	266.5	216.2	266.9	184.2	267.4	152.4	266.9	120.1	—	—	257.0	244.1	257.4	213.6	256.8	179.8	256.7	148.9	255.9	115.2	—	—	
	62	259.3	259.3	247.6	247.6	247.5	219.8	247.9	188.4	248.2	153.9	248.0	121.5	—	253.7	253.7	241.7	241.7	240.3	214.5	238.9	184.0	239.0	150.6	238.4	116.8
	57	257.5	257.5	246.6	246.6	235.6	235.6	231.5	220.1	228.7	187.5	229.2	155.8	—	253.4	253.4	242.0	242.0	230.4	230.4	220.1	215.7	220.8	185.5	220.9	152.4
8000	77	309.5	185.7	308.3	151.0	307.3	116.8	—	—	—	—	—	—	296.0	180.6	294.6	147.3	292.7	111.2	—	—	—	—	—	—	
	72	292.9	228.5	292.7	193.2	292.2	157.8	291.0	119.3	—	—	—	—	281.4	225.2	280.7	188.1	279.8	151.1	278.4	116.9	—	—	—	—	
	67	274.1	268.1	274.1	233.0	274.1	197.4	273.9	161.6	273.3	123.0	—	—	264.6	262.0	263.6	229.3	263.5	192.3	262.9	155.1	261.8	117.8	—	—	
	62	271.8	271.8	259.5	259.5	256.5	235.5	254.2	200.8	254.3	162.8	254.0	127.0	—	265.8	265.8	252.9	252.9	244.3	232.1	244.7	195.8	244.4	158.8	243.8	121.9
	57	270.0	270.0	258.5	258.5	246.7	246.7	234.4	234.4	234.4	201.6	234.9	164.4	—	265.5	265.5	253.3	253.3	240.8	240.8	228.3	228.3	225.9	196.5	226.1	160.5
9000	77	315.3	198.6	314.0	160.1	312.6	118.8	—	—	—	—	—	—	301.3	192.8	299.7	152.8	297.5	113.0	—	—	—	—	—	—	
	72	298.4	244.7	298.2	205.7	297.4	163.6	296.3	124.5	—	—	—	—	286.5	240.6	285.6	199.9	284.6	159.4	283.0	118.9	—	—	—	—	
	67	282.0	282.0	279.5	248.7	279.2	209.4	279.1	167.4	278.2	128.0	—	—	273.9	273.9	268.4	244.3	268.1	203.8	267.4	163.1	266.2	122.4	—	—	
	62	282.6	282.6	269.6	269.6	261.2	251.0	259.4	212.7	259.4	171.2	258.8	129.4	—	276.1	276.1	262.3	262.3	249.9	247.4	249.5	207.0	248.9	166.8	248.0	124.0
	57	280.7	280.7	268.6	268.6	256.0	256.0	243.1	243.1	238.9	212.7	239.4	172.3	—	275.8	275.8	262.8	262.8	249.7	249.7	236.3	236.3	230.1	209.4	230.1	167.9
10000	77	319.9	207.9	318.5	165.6	316.9	123.6	—	—	—	—	—	—	305.1	204.4	303.7	161.0	301.3	117.5	—	—	—	—	—	—	
	72	303.1	260.6	302.8	215.0	302.1	172.2	300.7	126.3	—	—	—	—	290.7	255.8	289.7	211.5	288.6	164.5	287.0	120.5	—	—	—	—	
	67	291.4	291.4	283.7	263.8	283.7	221.3	283.3	175.6	282.2	129.8	—	—	282.8	282.8	272.5	258.9	272.2	215.0	271.2	170.8	269.7	124.1	—	—	
	62	292.1	292.1	278.3	278.3	264.4	264.4	263.9	224.3	263.6	176.6	262.9	131.5	—	284.9	284.9	270.5	270.5	256.2	256.2	253.2	217.7	252.8	171.9	251.6	128.3
	57	290.1	290.1	277.4	277.4	264.0	264.0	250.5	250.5	244.5	225.7	243.2	180.0	—	284.6	284.6	271.0	271.0	257.3	257.3	243.3	243.3	233.5	219.5	233.4	175.0

Table 16: MD20 cooling performance 95°F and 105°F

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	Total capacity (MBH)		Sensible capacity (MBH)		Total capacity (MBH)		Sensible capacity (MBH)		Total capacity (MBH)		Sensible capacity (MBH)		Total capacity (MBH)		Sensible capacity (MBH)		Total capacity (MBH)		Sensible capacity (MBH)		Total capacity (MBH)		Sensible capacity (MBH)	
		Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)
95 (°F)												105 (°F)													
5000	77	258.3	142.1	256.4	118.0	255.6	94.6	—	—	—	—	—	—	245.0	134.7	242.8	111.7	241.6	89.4	—	—	—	—	—	—
	72	245.1	169.1	244.5	146.7	243.6	121.8	242.6	99.5	—	—	—	—	233.2	163.2	232.2	141.7	231.2	117.9	229.9	94.3	—	—	—	—
	67	229.6	197.4	229.6	174.5	229.6	149.2	228.7	125.8	227.9	102.6	—	—	219.2	192.9	218.8	168.5	218.5	144.2	217.4	121.8	216.4	97.4	—	—
	62	216.8	216.8	214.2	199.8	213.4	177.1	213.1	151.3	212.9	127.7	212.3	104.0	209.9	209.9	207.6	194.9	203.8	171.2	203.2	146.3	202.7	123.6	201.8	98.9
	57	217.5	217.5	207.7	207.7	197.8	197.8	196.1	178.4	196.5	153.3	196.5	129.7	211.6	211.6	201.4	201.4	191.5	191.5	187.4	172.4	187.6	148.2	187.4	123.7
6000	77	268.2	152.9	265.7	124.9	264.0	97.7	—	—	—	—	—	—	253.6	147.1	250.8	120.4	249.0	94.6	—	—	—	—	—	—
	72	255.1	186.2	253.7	157.3	252.5	131.3	251.5	103.1	—	—	—	—	242.0	181.5	240.3	153.8	239.1	124.3	237.7	97.4	—	—	—	—
	67	238.7	219.6	238.2	190.6	238.1	161.9	237.7	135.5	236.8	106.6	—	—	227.0	213.3	226.4	185.7	226.0	158.2	225.3	128.4	224.1	100.9	—	—
	62	233.0	233.0	221.9	219.7	221.8	192.9	221.9	166.4	221.7	137.4	220.6	108.1	225.1	225.1	213.2	213.2	211.0	189.9	211.1	160.4	210.5	132.6	209.3	102.5
	57	233.7	233.7	222.9	222.9	211.8	211.8	207.5	196.2	205.1	168.2	204.8	139.2	226.8	226.8	215.6	215.6	204.4	204.4	194.7	190.9	195.2	162.0	194.6	132.3
7000	77	274.4	164.6	273.7	134.1	271.6	103.2	—	—	—	—	—	—	258.7	157.8	257.9	126.4	255.8	97.2	—	—	—	—	—	—
	72	261.7	201.5	261.8	170.2	260.5	138.1	259.1	106.2	—	—	—	—	247.9	195.8	247.6	165.9	246.3	133.0	244.6	100.3	—	—	—	—
	67	246.3	241.3	246.0	209.1	245.3	174.2	244.9	142.1	243.9	109.7	—	—	234.8	232.5	233.6	203.3	232.4	169.7	231.8	136.8	230.3	103.7	—	—
	62	246.7	246.7	234.2	234.2	228.2	212.2	228.7	178.4	228.3	146.1	227.5	111.5	237.9	237.9	225.4	225.4	216.8	205.9	217.0	173.6	216.3	140.6	215.2	107.6
	57	247.6	247.6	235.5	235.5	223.6	223.6	211.6	211.6	179.9	211.4	148.0	239.9	239.9	227.6	227.6	215.3	215.3	203.2	203.2	200.8	174.7	200.6	142.4	
8000	77	281.2	177.2	279.5	139.8	277.5	105.4	—	—	—	—	—	—	265.1	169.6	263.2	134.2	260.8	99.1	—	—	—	—	—	—
	72	268.2	219.9	267.3	181.7	265.9	146.3	264.2	111.0	—	—	—	—	253.7	213.1	252.5	176.8	251.1	140.6	249.0	104.6	—	—	—	—
	67	254.9	254.9	251.9	224.2	251.2	188.4	250.5	150.3	249.0	114.5	—	—	244.4	244.4	238.2	219.2	237.9	180.8	236.5	144.3	235.0	108.1	—	—
	62	257.9	257.9	244.6	244.6	233.9	226.9	233.8	189.4	233.1	153.9	232.0	116.0	248.4	248.4	235.0	235.0	222.5	220.3	221.5	183.8	220.7	147.9	219.2	109.6
	57	258.9	258.9	246.2	246.2	233.4	233.4	220.5	220.5	216.0	192.3	215.8	155.4	250.6	250.6	237.5	237.5	224.4	224.4	211.4	211.4	204.8	186.4	204.6	149.3
9000	77	285.8	185.7	283.9	147.6	281.7	109.9	—	—	—	—	—	—	269.1	180.3	267.3	141.7	264.6	103.2	—	—	—	—	—	—
	72	272.6	234.4	271.6	192.8	270.3	154.1	268.3	112.7	—	—	—	—	257.6	226.7	256.3	187.1	254.7	147.7	252.5	106.1	—	—	—	—
	67	264.4	264.4	256.1	240.7	255.6	199.3	254.3	157.7	252.8	116.3	—	—	253.3	253.3	241.9	234.7	241.6	193.3	240.2	151.3	238.3	109.6	—	—
	62	267.5	267.5	253.6	253.6	239.6	239.6	237.9	202.2	237.1	161.2	235.8	117.9	257.4	257.4	243.3	243.3	229.2	229.2	224.8	195.6	223.9	154.5	222.5	113.5
	57	268.6	268.6	255.2	255.2	241.7	241.7	228.1	228.1	219.5	204.1	219.3	162.3	259.6	259.6	245.8	245.8	232.1	232.1	218.3	218.3	207.7	197.3	207.3	155.5
10000	77	289.6	196.9	287.7	155.4	284.9	111.1	—	—	—	—	—	—	272.4	190.7	270.3	148.7	267.6	104.4	—	—	—	—	—	—
	72	276.3	248.6	275.2	203.6	273.8	158.8	272.0	117.0	—	—	—	—	260.8	242.6	259.5	197.2	257.8	154.7	255.6	109.9	—	—	—	—
	67	272.6	272.6	259.9	254.7	258.8	209.7	257.9	165.1	255.8	120.2	—	—	261.0	261.0	246.3	243.8	244.1	202.6	242.9	157.9	240.7	113.1	—	—
	62	275.8	275.8	261.4	261.4	246.7	246.7	241.4	212.4	240.5	168.3	239.0	121.9	265.2	265.2	250.3	250.3	235.7	235.7	227.6	207.1	226.9	161.1	225.3	114.9
	57	276.9	276.9	263.0	263.0	248.8	248.8	234.5	234.5	222.4	215.8	222.2	168.9	267.4	267.4	252.9	252.9	238.6	238.6	224.2	224.2	211.0	206.7	209.8	161.6

Table 17: MD20 cooling performance 115°F and 125°F

Air on evaporator coil		Temperature of air on condenser coil																							
CFM		Return dry bulb temperature (°F)										Return dry bulb temperature (°F)													
		90		85		80		75		70		65		90		85		80		75		70		65	
WB (°F)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	
																									115 (°F)
5000	77	230.1	128.9	227.8	107.1	226.5	83.8	—	—	—	—	—	—	214.4	122.2	211.9	99.6	210.6	77.9	—	—	—	—	—	—
	72	219.9	158.3	218.7	135.6	217.5	110.9	215.9	88.5	—	—	—	—	205.3	151.9	203.9	128.5	202.7	105.4	201.0	82.4	—	—	—	—
	67	207.0	186.3	206.7	163.3	206.2	138.1	204.9	114.8	203.8	91.7	—	—	193.5	179.9	193.3	156.6	192.6	132.9	191.2	109.0	190.0	85.5	—	—
	62	201.7	201.7	192.3	190.4	192.5	165.5	192.0	142.1	191.3	116.7	190.3	93.2	192.1	192.1	181.4	181.4	180.1	160.3	179.4	134.6	178.7	110.8	177.4	86.9
	57	204.1	204.1	193.7	193.7	183.5	183.5	177.3	168.4	177.3	143.6	176.9	118.5	195.1	195.1	184.7	184.7	174.4	174.4	165.6	162.3	165.9	137.7	165.3	112.4
6000	77	237.7	140.3	234.9	115.1	233.0	88.5	—	—	—	—	—	—	220.9	134.8	218.0	106.8	215.8	82.0	—	—	—	—	—	—
	72	227.8	175.4	225.6	146.7	224.4	118.9	222.7	91.3	—	—	—	—	212.2	167.6	209.9	138.6	208.6	112.6	206.9	84.8	—	—	—	—
	67	213.8	207.4	213.3	179.2	212.6	151.0	211.7	122.8	210.4	94.7	—	—	200.7	198.7	198.6	172.8	198.1	144.6	197.0	116.2	195.4	87.9	—	—
	62	215.8	215.8	203.8	203.8	199.0	183.1	198.7	155.0	198.1	124.8	196.6	96.3	205.1	205.1	193.2	193.2	185.4	176.1	185.2	146.3	184.4	119.9	182.9	91.4
	57	218.3	218.3	207.0	207.0	195.5	195.5	184.6	184.6	183.9	156.3	183.2	126.4	208.2	208.2	196.9	196.9	185.4	185.4	174.0	174.0	171.4	149.1	170.6	121.1
7000	77	242.1	152.5	241.0	120.5	238.8	90.7	—	—	—	—	—	—	224.5	143.6	223.3	113.9	220.9	83.9	—	—	—	—	—	—
	72	232.7	190.9	232.2	157.9	230.7	126.9	228.8	96.1	—	—	—	—	216.3	181.7	215.7	151.0	214.0	119.8	212.1	89.1	—	—	—	—
	67	223.2	223.2	219.5	195.4	218.3	163.8	217.5	130.5	215.8	99.3	—	—	211.0	211.0	203.8	189.6	203.1	156.4	201.9	123.2	200.1	92.1	—	—
	62	227.8	227.8	215.0	215.0	204.0	200.0	204.0	165.2	203.1	134.0	201.8	100.9	216.1	216.1	203.4	203.4	190.8	190.8	189.6	159.3	188.6	126.3	187.2	93.6
	57	230.6	230.6	218.1	218.1	205.7	205.7	193.5	193.5	188.8	168.0	188.5	135.7	219.6	219.6	206.9	206.9	194.7	194.7	182.4	182.4	175.5	161.5	175.0	127.7
8000	77	247.7	163.5	245.7	127.8	243.2	94.9	—	—	—	—	—	—	229.4	156.0	227.3	120.5	224.8	87.7	—	—	—	—	—	—
	72	237.7	204.4	236.3	170.1	234.8	133.8	232.5	97.6	—	—	—	—	220.5	198.4	219.1	162.2	217.4	126.1	215.1	92.5	—	—	—	—
	67	232.8	232.8	223.7	210.3	223.1	174.0	221.7	137.4	219.8	101.1	—	—	219.7	219.7	207.7	203.5	206.9	167.6	205.5	131.5	203.4	95.6	—	—
	62	237.5	237.5	223.9	223.9	210.6	210.6	207.8	176.6	206.7	140.6	205.2	102.6	225.0	225.0	211.5	211.5	198.3	198.3	192.5	171.4	191.6	132.2	189.9	96.9
	57	240.4	240.4	227.1	227.1	214.1	214.1	200.9	200.9	192.0	180.5	191.6	141.8	228.5	228.5	215.2	215.2	202.3	202.3	189.1	189.1	178.0	172.7	177.6	135.0
9000	77	251.2	173.3	249.0	134.5	246.4	96.1	—	—	—	—	—	—	232.2	164.9	230.2	126.6	227.2	90.9	—	—	—	—	—	—
	72	240.9	221.6	239.6	179.7	238.0	140.4	235.6	101.3	—	—	—	—	222.8	211.7	221.9	173.1	220.1	132.1	217.6	93.6	—	—	—	—
	67	240.7	240.7	227.5	225.2	226.2	185.5	224.7	143.8	222.4	104.6	—	—	226.8	226.8	212.7	212.7	209.4	178.0	207.9	137.2	205.6	96.6	—	—
	62	245.6	245.6	231.5	231.5	217.5	217.5	210.6	189.5	209.8	146.8	208.0	106.1	232.2	232.2	218.2	218.2	204.3	204.3	195.2	181.5	194.1	139.8	192.2	100.0
	57	248.6	248.6	234.8	234.8	221.0	221.0	207.1	207.1	195.0	191.1	194.1	149.4	235.9	235.9	222.0	222.0	208.3	208.3	194.6	194.6	181.3	181.3	179.6	141.9
10000	77	254.2	183.0	251.9	141.1	249.0	99.6	—	—	—	—	—	—	234.6	176.0	232.7	132.6	229.6	91.8	—	—	—	—	—	—
	72	243.4	233.6	242.2	188.9	240.6	146.8	238.3	102.5	—	—	—	—	226.3	224.1	224.0	181.5	222.2	140.0	219.9	96.7	—	—	—	—
	67	247.7	247.7	232.7	232.7	228.4	196.4	227.0	149.8	224.6	105.6	—	—	233.0	233.0	218.4	218.4	211.3	188.1	210.0	142.8	207.3	99.5	—	—
	62	252.6	252.6	237.8	237.8	223.3	223.3	213.0	200.2	211.9	152.6	210.3	109.4	238.5	238.5	223.9	223.9	209.7	209.7	197.1	191.1	196.1	145.1	194.1	100.9
	57	255.7	255.7	241.1	241.1	226.9	226.9	212.5	212.5	198.2	198.2	196.2	155.0	242.2	242.2	227.9	227.9	213.7	213.7	199.3	199.3	185.5	185.5	181.9	147.3

MD25 cooling capacity performance

Table 18: MD25 cooling performance 75°F and 85°F

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)										Return dry bulb temperature (°F)													
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)		
		75 (°F)											85 (°F)												
6250	77	335.7	181.3	333.6	153.4	333.5	123.4	—	—	—	—	—	—	320.3	176.1	317.4	146.0	316.7	117.2	—	—	—	—	—	
	72	317.4	219.0	316.7	186.8	316.6	158.3	316.0	129.6	—	—	—	—	304.4	213.1	303.2	181.9	302.9	154.5	302.4	124.0	—	—	—	
	67	295.7	251.3	296.1	222.1	297.1	193.1	297.3	163.5	297.5	133.9	—	—	285.7	248.5	285.5	217.0	286.2	188.9	285.6	157.1	285.2	128.4	—	
	62	276.1	276.1	274.0	254.8	275.9	226.3	276.7	196.5	277.4	166.5	277.5	136.0	270.4	270.4	265.8	249.9	266.9	221.5	267.1	192.3	267.5	160.5	267.3	131.0
	57	274.1	274.1	263.9	263.9	253.7	253.7	254.8	226.7	255.9	197.0	256.8	166.9	270.0	270.0	259.4	259.4	248.5	248.5	248.5	247.1	222.4	248.0	193.4	248.6
7500	77	346.7	197.6	344.8	162.1	344.0	127.3	—	—	—	—	—	—	330.0	191.4	327.4	157.1	325.8	123.8	—	—	—	—	—	
	72	328.8	240.0	328.3	203.5	327.8	170.5	327.4	134.2	—	—	—	—	314.3	232.6	313.2	197.3	313.1	162.8	312.4	128.1	—	—	—	
	67	307.3	276.6	307.1	242.6	308.0	209.4	308.6	172.8	308.8	138.9	—	—	295.4	271.7	295.2	239.1	295.8	204.1	295.6	168.5	295.3	132.9	—	
	62	296.3	296.3	284.9	279.2	286.3	246.2	287.6	212.8	288.5	178.9	288.2	141.2	289.3	289.3	276.4	273.6	276.0	242.9	276.7	207.6	277.3	171.9	277.0	135.7
	57	294.2	294.2	282.1	282.1	270.6	270.6	265.0	249.1	266.4	215.8	267.0	178.9	288.8	288.8	276.6	276.6	264.8	264.8	256.5	246.2	257.7	211.3	257.8	175.3
8750	77	354.6	209.2	356.5	174.7	354.0	134.5	—	—	—	—	—	—	336.7	205.4	337.6	165.4	334.3	127.0	—	—	—	—	—	
	72	336.7	259.3	338.9	220.3	337.3	178.8	337.0	138.2	—	—	—	—	321.1	250.5	323.0	213.1	321.5	173.6	320.5	131.4	—	—	—	
	67	316.9	304.2	317.3	263.4	317.5	225.4	318.3	184.6	317.8	143.0	—	—	304.1	298.0	304.5	258.8	304.4	219.2	304.1	179.4	303.9	136.7	—	
	62	312.0	312.0	298.7	298.7	295.0	268.4	296.4	228.2	296.7	186.9	296.6	145.3	303.9	303.9	290.4	290.4	284.0	264.1	284.4	221.8	284.9	182.3	284.6	142.3
	57	309.9	309.9	297.5	297.5	284.8	284.8	273.6	268.2	274.4	230.5	275.3	190.0	303.6	303.6	290.9	290.9	277.9	277.9	264.6	264.6	264.8	225.1	265.0	185.5
10000	77	363.5	225.4	362.7	181.3	361.4	137.3	—	—	—	—	—	—	344.7	217.1	343.1	175.0	341.5	129.8	—	—	—	—	—	
	72	345.5	276.4	345.4	234.8	344.7	189.6	343.9	144.4	—	—	—	—	329.0	269.8	328.5	226.7	328.2	180.5	326.5	137.1	—	—	—	
	67	324.8	324.8	324.8	285.8	324.1	239.9	324.7	194.8	324.1	149.1	—	—	314.2	314.2	311.2	277.0	310.1	232.6	309.7	185.8	309.1	142.2	—	
	62	325.6	325.6	311.9	311.9	302.2	287.1	303.3	242.6	303.4	197.2	303.3	151.7	316.4	316.4	302.7	302.7	290.6	281.9	290.7	238.4	290.8	191.9	290.0	145.0
	57	323.6	323.6	310.4	310.4	296.8	296.8	283.0	283.0	280.5	244.1	281.5	199.9	316.2	316.2	302.7	302.7	289.0	289.0	274.8	274.8	270.2	240.5	270.3	194.6
11250	77	369.5	240.2	368.6	191.7	368.3	140.0	—	—	—	—	—	—	350.0	231.0	348.2	181.1	347.7	135.6	—	—	—	—	—	
	72	351.4	295.2	351.3	245.9	349.9	195.9	349.7	146.9	—	—	—	—	334.1	290.7	333.6	240.2	332.6	189.6	331.4	139.2	—	—	—	
	67	336.7	336.7	329.8	303.4	330.0	250.8	330.4	201.6	329.5	151.5	—	—	325.2	325.2	315.3	296.4	315.1	245.8	314.8	195.2	313.9	144.4	—	
	62	337.4	337.4	322.5	322.5	308.2	305.1	309.1	256.5	308.8	206.9	308.7	154.3	327.5	327.5	312.1	312.1	296.7	296.7	295.7	251.3	295.7	201.1	294.4	147.2
	57	335.2	335.2	321.9	321.9	306.8	306.8	292.1	292.1	285.7	260.0	286.5	209.2	327.2	327.2	313.0	313.0	298.2	298.2	283.3	283.3	274.7	252.7	274.5	203.1
12500	77	374.1	250.6	373.9	198.2	372.5	145.3	—	—	—	—	—	—	353.9	244.2	352.8	190.5	351.3	137.0	—	—	—	—	—	
	72	356.3	313.6	356.7	260.4	356.5	206.8	354.9	149.1	—	—	—	—	338.5	308.0	338.2	253.7	338.6	199.8	336.4	144.6	—	—	—	
	67	346.7	346.7	335.4	318.6	335.8	265.3	335.5	211.4	334.1	153.7	—	—	334.4	334.4	319.9	313.5	320.5	259.6	319.1	204.2	318.2	149.6	—	
	62	347.5	347.5	332.0	332.0	315.8	315.8	313.4	269.5	312.8	212.7	312.8	159.5	336.7	336.7	320.7	320.7	305.2	305.2	299.5	263.6	299.1	209.4	297.7	151.9
	57	345.4	345.4	331.0	331.0	315.6	315.6	300.7	300.7	290.1	272.7	290.9	218.2	336.5	336.5	321.3	321.3	306.5	306.5	290.7	290.7	278.3	267.2	278.2	211.4

Table 19: MD25 cooling performance 95°F and 105°F

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)										Return dry bulb temperature (°F)													
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)		
		95 (°F)										105 (°F)													
6250	77	302.9	169.6	300.3	141.1	299.3	110.8	—	—	—	—	—	—	283.8	161.8	281.0	132.1	279.9	103.6	—	—	—	—	—	—
	72	289.7	205.7	288.2	175.8	287.2	146.5	286.3	117.4	—	—	—	—	272.4	198.8	270.7	167.8	269.8	140.3	268.8	110.2	—	—	—	—
	67	273.2	243.1	272.2	212.3	272.6	182.6	271.9	152.3	271.4	122.1	—	—	257.4	234.2	256.5	205.2	256.7	174.5	256.0	143.4	255.0	114.7	—	—
	62	262.3	262.3	254.1	244.0	255.4	217.1	255.3	186.3	255.3	155.7	254.6	124.7	251.4	251.4	240.6	238.2	241.1	209.8	240.8	178.2	240.2	148.9	239.6	117.4
	57	263.2	263.2	251.9	251.9	240.7	240.7	236.7	217.8	237.1	187.3	237.2	156.6	253.4	253.4	241.8	241.8	230.4	230.4	222.8	211.7	223.3	180.9	223.4	149.7
7500	77	311.1	183.6	308.8	148.2	307.2	116.7	—	—	—	—	—	—	290.8	174.5	288.4	141.3	286.6	108.9	—	—	—	—	—	—
	72	298.3	226.7	297.0	190.1	296.1	156.9	295.2	121.0	—	—	—	—	279.6	218.1	278.3	183.7	277.3	149.8	276.4	113.3	—	—	—	—
	67	281.5	267.5	280.9	233.1	281.0	196.7	280.9	162.9	280.2	126.1	—	—	265.0	259.7	264.3	224.7	264.1	190.1	263.7	153.0	262.5	118.1	—	—
	62	280.5	280.5	266.2	266.2	263.4	237.0	263.8	200.5	263.6	166.1	262.9	128.8	267.9	267.9	253.7	253.7	248.0	228.1	248.0	193.4	247.7	158.5	247.0	121.0
	57	281.4	281.4	268.1	268.1	255.7	255.7	245.1	240.2	245.6	203.9	245.5	169.4	270.1	270.1	256.8	256.8	244.3	244.3	231.4	231.4	231.0	196.4	230.7	161.5
8750	77	316.6	196.3	318.1	159.0	314.3	119.4	—	—	—	—	—	—	295.7	189.2	296.5	151.2	293.2	111.4	—	—	—	—	—	—
	72	304.2	243.4	305.7	204.8	303.3	166.8	302.6	127.1	—	—	—	—	284.8	236.4	285.9	197.3	284.0	159.0	282.4	118.6	—	—	—	—
	67	290.1	290.1	289.0	251.5	288.3	210.5	288.5	170.2	287.2	132.1	—	—	275.7	275.7	271.2	244.1	270.6	203.0	270.1	164.8	269.2	123.8	—	—
	62	293.6	293.6	279.7	279.7	270.2	256.7	270.8	216.7	270.3	175.7	269.9	134.9	280.2	280.2	266.4	266.4	254.4	249.3	254.3	208.5	253.6	167.4	252.9	126.5
	57	294.8	294.8	281.5	281.5	268.0	268.0	254.8	254.8	251.9	219.2	252.2	179.1	282.5	282.5	269.3	269.3	255.8	255.8	242.2	242.2	236.4	210.4	236.8	170.5
10000	77	324.1	210.7	322.8	167.9	320.4	125.0	—	—	—	—	—	—	302.1	202.4	300.6	159.3	298.5	116.4	—	—	—	—	—	—
	72	311.0	264.4	310.4	220.4	309.2	173.1	308.0	129.4	—	—	—	—	290.7	255.9	290.0	211.7	289.0	164.7	287.2	120.6	—	—	—	—
	67	301.4	301.4	295.4	271.7	293.3	225.8	293.3	178.9	292.1	134.4	—	—	286.1	286.1	276.3	262.5	274.9	217.1	274.1	172.7	273.4	125.8	—	—
	62	305.0	305.0	291.2	291.2	276.6	273.8	276.3	229.4	275.4	184.5	275.0	137.5	290.7	290.7	276.8	276.8	261.8	261.8	258.5	222.3	258.4	175.7	257.2	131.2
	57	306.2	306.2	292.6	292.6	277.9	277.9	264.1	264.1	256.8	233.7	256.9	187.5	293.1	293.1	279.3	279.3	265.1	265.1	250.7	250.7	240.7	226.2	240.6	178.1
11250	77	328.5	223.4	327.4	176.8	325.8	127.1	—	—	—	—	—	—	305.7	214.0	304.6	167.5	303.5	118.4	—	—	—	—	—	—
	72	315.5	280.8	314.7	232.9	313.0	181.5	312.5	134.4	—	—	—	—	294.2	273.6	293.8	223.3	292.4	172.5	291.1	125.2	—	—	—	—
	67	311.0	311.0	298.9	289.9	297.9	238.3	297.6	187.5	296.1	139.2	—	—	294.8	294.8	280.1	277.3	278.8	231.4	278.2	180.8	277.0	130.2	—	—
	62	314.6	314.6	299.8	299.8	284.4	284.4	280.5	244.0	279.9	193.1	278.8	142.2	299.6	299.6	284.6	284.6	269.3	269.3	262.4	236.2	262.2	183.5	260.6	132.9
	57	316.0	316.0	302.1	302.1	286.7	286.7	271.9	271.9	260.5	247.5	260.6	195.4	302.1	302.1	288.0	288.0	272.9	272.9	257.8	257.8	244.2	239.3	244.1	187.9
12500	77	331.8	235.6	331.5	182.3	329.0	131.6	—	—	—	—	—	—	308.8	225.4	308.2	175.7	306.0	122.4	—	—	—	—	—	—
	72	319.0	299.9	319.2	245.8	318.3	191.0	316.5	136.1	—	—	—	—	297.7	288.7	297.6	235.1	297.3	181.4	295.1	129.8	—	—	—	—
	67	319.5	319.5	303.6	303.6	302.9	251.4	301.8	196.1	300.2	141.1	—	—	302.8	302.8	286.8	286.8	282.8	243.2	281.6	188.7	280.6	134.7	—	—
	62	323.2	323.2	307.7	307.7	291.6	291.6	283.9	258.4	282.8	200.8	281.9	143.8	307.3	307.3	291.0	291.0	276.1	276.1	265.1	249.2	264.6	193.2	263.1	136.8
	57	324.4	324.4	309.7	309.7	293.8	293.8	278.6	278.6	264.1	258.8	264.0	203.3	309.8	309.8	294.6	294.6	279.2	279.2	264.0	264.0	248.0	248.0	246.9	195.1

Table 20: MD25 cooling performance 115°F and 125°F

Air on evaporator coil		Temperature of air on condenser coil																							
		Return dry bulb temperature (°F)												Return dry bulb temperature (°F)											
		90		85		80		75		70		65		90		85		80		75		70		65	
CFM	WB (°F)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)	Total capacity (MBH)	Sensible capacity (MBH)		
		115 (°F)												125 (°F)											
6250	77	262.4	154.8	259.6	124.6	258.5	98.2	—	—	—	—	—	—	239.1	145.9	236.3	115.8	235.3	89.4	—	—	—	—	—	
	72	252.9	189.6	251.1	160.7	250.2	130.1	248.8	102.0	—	—	—	—	230.7	179.9	228.9	151.1	228.0	123.1	226.7	92.9	—	—	—	
	67	238.8	226.8	238.0	195.2	237.8	166.5	237.0	135.1	236.1	106.2	—	—	218.4	216.2	216.9	186.5	216.5	155.9	215.3	127.0	214.7	96.6	—	
	62	237.8	237.8	225.6	225.6	223.2	200.9	222.9	169.4	222.5	140.2	221.9	108.7	221.9	221.9	209.5	209.5	209.5	202.5	190.4	202.4	159.9	201.9	129.2	201.0
	57	240.7	240.7	228.8	228.8	217.0	217.0	206.2	202.1	206.5	171.4	206.6	140.5	225.3	225.3	213.2	213.2	201.2	201.2	188.5	188.5	186.9	160.7	186.5	130.6
7500	77	268.3	166.4	266.1	133.0	264.2	100.4	—	—	—	—	—	—	244.1	158.7	241.8	123.3	240.4	91.3	—	—	—	—	—	
	72	259.3	210.0	257.2	174.9	256.4	141.0	255.1	107.1	—	—	—	—	235.4	200.1	233.8	163.7	232.8	130.4	231.8	97.4	—	—	—	
	67	247.2	247.2	244.6	215.2	244.3	180.8	243.8	146.3	243.0	111.8	—	—	229.3	229.3	222.4	204.6	222.0	170.9	221.4	135.1	220.6	101.5	—	
	62	253.1	253.1	238.9	238.9	229.3	220.1	228.9	185.4	228.9	148.8	228.0	114.0	235.7	235.7	221.4	221.4	208.3	208.3	207.7	174.4	207.1	138.8	206.3	
	57	256.0	256.0	242.7	242.7	229.8	229.8	216.6	216.6	213.0	187.4	212.9	151.2	239.4	239.4	225.6	225.6	212.7	212.7	199.4	199.4	192.1	176.7	191.7	139.9
8750	77	272.0	179.5	273.0	141.9	269.9	105.2	—	—	—	—	—	—	247.0	170.4	248.0	133.9	245.3	95.7	—	—	—	—	—	
	72	262.9	226.1	264.3	190.3	262.1	149.4	260.8	109.5	—	—	—	—	238.7	217.3	239.8	179.9	238.0	140.4	237.0	101.9	—	—	—	
	67	258.9	258.9	250.5	235.5	249.8	194.9	249.5	154.7	248.6	114.4	—	—	239.8	239.8	227.3	222.8	226.7	183.6	226.4	144.9	225.3	105.9	—	
	62	264.3	264.3	250.4	250.4	236.2	236.2	234.8	199.6	234.3	159.3	232.9	116.5	245.5	245.5	231.9	231.9	217.6	217.6	212.5	187.0	211.9	148.3	211.0	
	57	267.5	267.5	253.9	253.9	240.3	240.3	226.6	226.6	217.8	202.6	217.9	161.3	249.5	249.5	235.9	235.9	222.1	222.1	208.3	208.3	195.9	190.0	195.8	148.8
10000	77	278.0	191.8	276.5	149.3	275.3	107.4	—	—	—	—	—	—	252.1	184.0	250.7	140.4	249.2	99.7	—	—	—	—	—	
	72	267.9	246.5	267.2	200.4	266.3	157.1	265.0	114.0	—	—	—	—	242.9	233.2	242.4	191.5	241.5	147.3	240.2	103.3	—	—	—	
	67	268.5	268.5	255.5	253.0	253.6	207.9	252.7	161.8	251.6	118.3	—	—	248.2	248.2	234.5	234.5	229.6	197.5	229.1	151.2	227.9	107.1	—	
	62	273.8	273.8	260.0	260.0	244.8	244.8	238.6	212.4	238.3	166.8	237.0	120.9	254.1	254.1	240.3	240.3	225.4	225.4	215.2	202.3	215.3	155.0	214.4	
	57	277.2	277.2	263.1	263.1	248.7	248.7	234.4	234.4	221.4	214.7	220.9	167.9	258.1	258.1	244.1	244.1	229.7	229.7	215.2	215.2	200.5	200.5	198.9	157.1
11250	77	280.6	204.8	279.8	156.7	279.1	111.6	—	—	—	—	—	—	254.6	196.0	253.3	146.9	253.3	103.9	—	—	—	—	—	
	72	271.3	263.2	270.7	213.8	269.3	164.3	268.5	118.1	—	—	—	—	247.4	247.4	245.1	203.4	244.0	153.7	243.5	107.1	—	—	—	
	67	276.2	276.2	261.4	261.4	256.8	220.9	256.4	171.8	254.9	119.8	—	—	255.3	255.3	239.8	239.8	232.3	209.1	232.3	160.3	231.1	110.9	—	
	62	281.7	281.7	267.0	267.0	251.7	251.7	241.4	226.9	241.3	173.8	239.8	124.7	261.2	261.2	246.5	246.5	231.6	231.6	217.7	213.4	217.7	163.3	216.8	
	57	285.1	285.1	271.0	271.0	255.7	255.7	240.7	240.7	225.5	225.5	224.1	177.0	265.2	265.2	251.1	251.1	235.9	235.9	220.9	220.9	205.9	205.9	201.3	165.1
12500	77	283.7	215.6	283.3	164.3	281.6	115.4	—	—	—	—	—	—	257.2	205.8	256.8	156.7	255.4	104.7	—	—	—	—	—	
	72	275.4	275.4	273.7	227.2	273.8	172.5	272.1	119.7	—	—	—	—	253.5	253.5	248.2	215.9	248.3	163.9	246.6	110.9	—	—	—	
	67	283.3	283.3	267.9	267.9	260.4	234.4	259.3	178.9	257.9	123.8	—	—	261.6	261.6	246.3	246.3	235.7	221.6	234.8	166.7	233.8	114.6	—	
	62	288.6	288.6	273.3	273.3	257.9	257.9	244.2	236.8	243.4	182.6	242.1	128.3	267.4	267.4	252.1	252.1	237.1	237.1	221.7	221.7	219.5	171.2	218.5	
	57	291.7	291.7	276.9	276.9	261.7	261.7	246.3	246.3	230.6	230.6	226.7	185.9	271.2	271.2	256.3	256.3	241.3	241.3	225.9	225.9	210.5	210.5	203.4	172.9

MD13 heating capacity performance

Table 21: MD13 heating performance

Air on indoor Coil		Total Capacity and kW	Outdoor temperature (°F @ 72% RH)							
CFM	DB (°F)		-5	0	10	20	30	40	50	60
3750	55	MBH	44.2	51.3	61.1	77.4	96.6	115.9	142.6	169.8
		kW	7.8	8.0	8.3	8.8	9.2	9.7	10.2	10.7
	70	MBH	42.2	49.2	59.8	76.8	95.3	113.8	140.0	168.2
		kW	8.5	9.3	9.7	10.2	10.7	11.2	11.8	12.4
	80	MBH	40.3	47.0	58.8	74.5	93.5	112.0	139.2	163.9
		kW	9.0	9.9	10.7	11.3	11.9	12.5	13.1	13.9
4375	55	MBH	45.3	51.7	61.7	79.4	97.4	116.5	142.9	169.9
		kW	7.5	7.7	8.0	8.4	8.8	9.2	9.7	10.1
	70	MBH	43.2	49.5	60.4	78.8	96.1	114.4	140.3	168.3
		kW	8.1	8.9	9.3	9.8	10.2	10.7	11.2	11.7
	80	MBH	41.2	47.4	59.4	76.4	94.2	112.6	139.5	163.9
		kW	8.6	9.5	10.3	10.8	11.4	11.9	12.5	13.1
5000	55	MBH	45.8	52.4	62.8	79.8	97.9	117.5	143.6	170.2
		kW	7.4	7.5	7.9	8.2	8.6	8.9	9.3	9.6
	70	MBH	43.8	50.2	61.5	79.2	96.6	115.3	140.9	168.6
		kW	8.0	8.8	9.1	9.5	9.9	10.3	10.8	11.2
	80	MBH	41.8	48.0	60.4	76.8	94.7	113.6	140.2	164.2
		kW	8.4	9.3	10.1	10.6	11.1	11.5	12.0	12.5
5625	55	MBH	46.1	53.0	63.5	80.2	98.7	118.1	144.3	170.9
		kW	7.3	7.4	7.7	8.0	8.4	8.7	9.0	9.3
	70	MBH	44.1	50.7	62.2	79.6	97.4	115.9	141.6	169.3
		kW	7.9	8.6	9.0	9.3	9.7	10.1	10.4	10.8
	80	MBH	42.0	48.5	61.2	77.2	95.5	114.1	140.9	164.9
		kW	8.4	9.2	9.9	10.3	10.8	11.2	11.6	12.0
6250	55	MBH	46.4	53.6	64.3	80.6	99.6	118.7	145.0	171.6
		kW	7.2	7.3	7.6	7.9	8.2	8.5	8.7	9.0
	70	MBH	44.4	51.3	63.0	80.0	98.3	116.5	142.3	170.0
		kW	7.8	8.5	8.9	9.2	9.5	9.8	10.1	10.4
	80	MBH	42.3	49.1	62.0	77.6	96.4	114.7	141.5	165.6
		kW	8.3	9.1	9.8	10.2	10.6	11.0	11.3	11.6

MD15 heating capacity performance

Table 22: MD15 heating performance

Air on indoor Coil		Total Capacity and kW	Outdoor temperature (°F @ 72% RH)							
CFM	DB (°F)		-5	0	10	20	30	40	50	60
4500	55	MBH	45.4	54.3	70.6	88.0	120.2	151.6	187.6	232.3
		kW	9.5	9.7	10.2	10.8	11.3	11.9	12.5	13.0
	70	MBH	43.4	52.9	69.0	87.0	111.8	140.5	173.7	211.3
		kW	10.2	11.7	12.0	12.8	13.4	14.1	14.8	15.6
	80	MBH	41.3	50.6	67.8	84.5	107.6	134.8	166.1	201.2
		kW	10.9	12.4	13.3	14.5	15.2	15.8	16.6	17.5
5250	55	MBH	46.9	54.9	71.5	92.5	120.9	152.3	188.0	232.8
		kW	9.2	9.5	9.9	10.3	10.8	11.3	11.8	12.4
	70	MBH	44.8	53.5	69.8	91.4	112.4	141.1	174.2	211.7
		kW	10.0	11.3	11.7	12.2	12.9	13.4	13.9	14.8
	80	MBH	42.8	51.1	68.6	88.8	108.2	135.4	166.5	201.6
		kW	10.6	12.0	12.9	13.9	14.6	15.1	15.6	16.5
6000	55	MBH	48.1	55.8	71.8	98.0	121.2	153.0	188.4	233.5
		kW	9.0	9.2	9.6	10.0	10.4	10.8	11.3	11.7
	70	MBH	45.9	54.3	70.1	96.8	112.7	141.7	174.5	212.3
		kW	9.8	11.1	11.3	11.9	12.4	12.8	13.3	14.0
	80	MBH	43.8	51.9	68.9	94.0	108.5	136.0	166.8	202.2
		kW	10.3	11.7	12.5	13.5	14.0	14.5	14.9	15.7
6750	55	MBH	48.9	56.3	72.5	103.0	121.9	153.7	189.1	234.2
		kW	8.9	9.1	9.4	9.8	10.2	10.5	10.9	11.2
	70	MBH	46.8	54.9	70.7	101.7	113.3	142.4	175.2	213.0
		kW	9.6	10.9	11.1	11.6	12.1	12.4	12.8	13.4
	80	MBH	44.6	52.5	69.6	98.8	109.1	136.6	167.5	202.8
		kW	10.2	11.5	12.3	13.2	13.7	14.0	14.4	15.0
7500	55	MBH	49.6	56.7	73.2	105.3	122.7	154.9	190.1	234.7
		kW	8.8	8.9	9.3	9.6	9.9	10.2	10.5	10.9
	70	MBH	47.4	55.2	71.4	103.9	114.2	143.5	176.1	213.4
		kW	9.5	10.7	10.9	11.4	11.8	12.1	12.5	13.0
	80	MBH	45.2	52.8	70.3	101.0	109.9	137.7	168.3	203.2
		kW	10.1	11.4	12.1	12.9	13.3	13.7	14.0	14.5

MD20 heating capacity performance

Table 23: MD20 heating performance

Air on indoor coil		Total Capacity and kW	Outdoor temperature (°F @ 72% RH)							
CFM	DB (°F)		-5	0	10	20	30	40	50	60
6000	55	MBH	63.4	71.1	91.6	126.5	151.6	184.4	224.1	272.1
		kW	11.5	12.2	13.0	13.7	14.8	15.5	16.4	17.6
	70	MBH	60.6	78.9	95.0	122.4	147.5	180.3	216.8	256.2
		kW	12.5	14.5	15.0	16.1	17.2	18.2	19.3	20.5
	80	MBH	57.8	75.5	93.4	118.4	145.1	175.5	209.5	246.5
		kW	13.2	15.4	16.5	18.1	19.3	20.4	21.6	22.9
7000	55	MBH	65.3	73.2	94.0	131.1	153.1	189.1	229.1	272.9
		kW	11.3	11.5	12.5	13.3	14.1	14.8	15.5	16.4
	70	MBH	62.4	81.3	97.5	126.9	149.0	184.9	221.6	256.9
		kW	12.2	13.8	14.3	15.6	16.4	17.4	18.3	19.0
	80	MBH	59.5	77.7	95.9	122.9	146.6	180.0	214.2	247.2
		kW	13.0	14.6	15.8	17.6	18.4	19.5	20.4	21.2
8000	55	MBH	66.2	74.9	96.1	132.9	154.3	190.2	230.3	274.6
		kW	11.0	11.4	12.2	13.0	13.6	14.3	14.8	15.5
	70	MBH	63.3	83.2	99.7	128.7	150.1	186.0	222.8	258.4
		kW	11.9	13.6	14.1	15.3	15.9	16.8	17.5	18.1
	80	MBH	60.3	79.5	98.0	124.7	147.7	181.1	215.3	248.7
		kW	12.6	14.4	15.5	17.2	17.8	18.8	19.5	20.2
9000	55	MBH	67.4	76.8	97.3	134.6	155.6	191.5	231.7	276.3
		kW	10.8	11.3	12.1	12.7	13.3	13.8	14.3	14.9
	70	MBH	64.4	85.3	101.0	130.5	151.5	187.3	224.2	260.1
		kW	11.7	13.4	13.9	15.0	15.5	16.3	16.8	17.3
	80	MBH	61.4	81.6	99.3	126.5	149.0	182.3	216.6	250.3
		kW	12.4	14.2	15.3	16.9	17.4	18.2	18.8	19.3
10000	55	MBH	69.9	78.9	98.6	136.4	156.5	192.4	232.7	277.3
		kW	10.7	11.2	11.9	12.5	13.0	13.5	13.9	14.4
	70	MBH	66.8	87.6	102.3	132.3	152.4	188.2	225.1	261.1
		kW	11.6	13.3	13.7	14.7	15.2	15.9	16.3	16.7
	80	MBH	63.7	83.8	100.6	128.3	149.9	183.2	217.5	251.2
		kW	12.3	14.1	15.1	16.6	17.1	17.8	18.3	18.6

MD25 heating capacity performance

Table 24: MD25 heating performance

Air on indoor Coil		Total Capacity and kW	Outdoor temperature (°F @ 72% RH)							
CFM	DB (°F)		-5	0	10	20	30	40	50	60
7500	55	MBH	76.4	93.4	120.6	155.4	195.3	237.9	286.0	339.0
		kW	14.1	14.6	15.4	16.4	17.2	18.1	19.0	19.9
	70	MBH	73.0	90.0	111.6	150.8	188.2	228.6	273.1	320.1
		kW	15.3	15.8	18.4	19.3	20.3	21.3	22.3	23.5
	80	MBH	69.6	86.1	111.1	142.9	179.1	217.6	259.8	304.8
		kW	16.2	16.8	20.5	21.6	22.7	23.8	25.0	26.2
8750	55	MBH	84.3	99.3	126.4	161.1	200.6	243.9	292.1	344.8
		kW	13.8	14.2	14.8	15.6	16.3	17.0	17.8	18.6
	70	MBH	80.5	96.0	121.8	154.1	191.2	231.7	276.5	324.7
		kW	15.0	15.4	17.7	18.5	19.4	20.2	21.1	22.0
	80	MBH	76.8	91.8	115.2	147.4	182.7	222.0	264.7	310.3
		kW	15.9	16.4	19.9	20.8	21.8	22.6	23.6	24.6
10000	55	MBH	86.2	100.9	127.8	161.9	201.7	245.3	294.0	347.5
		kW	13.6	13.9	14.5	15.1	15.7	16.4	17.0	17.7
	70	MBH	82.4	97.6	123.8	157.0	193.8	234.5	280.0	329.0
		kW	14.7	15.1	17.3	18.0	18.7	19.4	20.2	20.9
	80	MBH	78.6	93.3	120.0	151.1	186.8	225.8	268.8	314.9
		kW	15.6	16.0	19.4	20.2	21.0	21.8	22.6	23.4
11250	55	MBH	88.0	102.4	129.0	163.3	203.0	246.6	295.9	350.4
		kW	13.3	13.6	14.2	14.7	15.3	15.8	16.4	17.0
	70	MBH	84.1	99.1	126.6	159.6	196.5	237.3	282.6	331.9
		kW	14.5	14.9	16.9	17.5	18.2	18.8	19.5	20.1
	80	MBH	80.2	94.7	122.7	154.1	189.8	228.9	272.1	318.4
		kW	15.3	15.7	19.1	19.7	20.5	21.2	21.8	22.6
12500	55	MBH	89.9	104.4	130.3	164.1	203.6	247.4	296.9	352.2
		kW	13.2	13.5	13.9	14.4	15.0	15.4	15.9	16.4
	70	MBH	85.9	101.1	128.7	161.6	198.2	239.1	284.5	334.2
		kW	14.3	14.7	16.6	17.2	17.8	18.4	18.9	19.5
	80	MBH	81.9	96.7	125.8	156.7	192.2	231.2	274.7	321.2
		kW	15.1	15.6	18.8	19.4	20.0	20.6	21.2	21.9

Airflow performance

Table 25: MD13 bottom duct application

Available external static pressure - IWG																														
Air Flow (CFM)	0.2		0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2		2.2		2.4		2.6		2.8		3	
	RPM	BHP																												
Standard static 1011-2300 RPM																														
3250	1011	0.56	1142	0.58	1253	0.68	1350	0.85	1438	1.05	1517	1.27	1590	1.52	1659	1.77	1724	2.04	1787	2.31	1847	2.59	1906	2.88	1965	3.17	2024	3.48	2083	3.79
3500	1081	0.57	1204	0.61	1309	0.73	1403	0.91	1487	1.13	1564	1.36	1635	1.61	1702	1.87	1766	2.14	1827	2.42	1886	2.70	1944	2.99	2002	3.29	2059	3.60	2117	3.92
3750	1148	0.58	1264	0.65	1365	0.80	1455	0.99	1537	1.22	1611	1.46	1680	1.71	1745	1.98	1807	2.25	1867	2.54	1925	2.82	1982	3.12	2039	3.42	2095	3.74	2152	4.06
4000	1214	0.61	1324	0.71	1421	0.88	1507	1.08	1586	1.32	1658	1.57	1726	1.83	1789	2.10	1850	2.38	1908	2.67	1965	2.96	2021	3.26	2076	3.57	2132	3.89	2188	4.21
4250	1278	0.65	1383	0.78	1476	0.97	1560	1.19	1636	1.43	1706	1.69	1771	1.96	1833	2.23	1892	2.52	1949	2.81	2005	3.11	2060	3.41	2114	3.73	2169	4.05	2224	4.38
4500	1342	0.72	1442	0.87	1531	1.07	1612	1.30	1685	1.55	1754	1.82	1817	2.09	1878	2.38	1935	2.67	1991	2.96	2046	3.27	2099	3.58	2153	3.89	2207	4.22	2261	4.56
4750	1404	0.79	1500	0.97	1586	1.19	1664	1.43	1735	1.69	1802	1.96	1864	2.24	1923	2.53	1979	2.83	2034	3.13	2087	3.44	2140	3.75	2192	4.08	2245	4.41	2298	4.75
5000	1466	0.89	1559	1.08	1641	1.31	1717	1.57	1786	1.83	1850	2.11	1911	2.40	1968	2.70	2023	3.00	2077	3.31	2129	3.62	2181	3.94	2232	4.27	2284	4.61	2337	4.96
5250	1528	1.00	1617	1.21	1696	1.45	1769	1.71	1837	1.99	1899	2.28	1958	2.58	2014	2.88	2068	3.19	2120	3.50	2172	3.82	2223	4.15	2273	4.48	2324	4.82	2376	5.18
5500	1589	1.12	1675	1.35	1752	1.60	1822	1.88	1888	2.16	1949	2.46	2006	2.76	2061	3.07	2114	3.38	2165	3.70	2215	4.03	2265	4.36	2315	4.70	2365	5.05	2416	5.41
5750	1650	1.25	1733	1.50	1807	1.77	1876	2.05	1939	2.35	1999	2.65	2055	2.96	2108	3.27	2160	3.60	2210	3.92	2259	4.25	2300	4.59	2357	4.94	2406	5.29	2450	5.66
6000	1711	1.40	1791	1.66	1863	1.94	1929	2.24	1991	2.54	2049	2.85	2104	3.17	2156	3.49	2206	3.82	2255	4.15	2300	4.49	2352	4.83	2400	5.19	2448	5.55	—	—
6250	1772	1.56	1849	1.84	1919	2.13	1984	2.43	2044	2.75	2100	3.07	2153	3.39	2204	3.72	2254	4.05	2300	4.39	2349	4.74	2396	5.09	2443	5.45	—	—	—	—
High static 1011-2450 RPM																														
Note:																														
1. Blower performance includes highest gas heat exchangers, wet coil and clean standard throwaway filters. See <i>Static resistance table</i> for additional applications.																														
2. kW = BHP x 0.829																														

Table 26: MD15 bottom duct application

Available external static pressure - IWG																														
Air Flow (CFM)	0.2		0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2		2.2		2.4		2.6		2.8		3	
	RPM	BHP																												
Standard static 1211-2300 RPM																														
3900	1211	0.56	1312	0.68	1403	0.84	1487	1.05	1565	1.27	1638	1.52	1708	1.77	1774	2.05	1839	2.34	1901	2.63	1962	2.93	2022	3.24	2081	3.56	2140	3.89	2198	4.23
4200	1279	0.62	1374	0.77	1462	0.95	1542	1.16	1618	1.40	1689	1.65	1756	1.91	1821	2.20	1884	2.49	1945	2.79	2004	3.09	2063	3.41	2121	3.73	2179	4.06	2236	4.41
4500	1350	0.71	1441	0.87	1525	1.07	1602	1.30	1675	1.55	1744	1.81	1809	2.07	1872	2.37	1933	2.66	1992	2.97	2051	3.28	2108	3.60	2165	3.93	2221	4.26	2278	4.61
4800	1425	0.81	1511	0.99	1591	1.21	1665	1.45	1735	1.71	1802	1.98	1865	2.25	1926	2.56	1986	2.86	2043	3.17	2100	3.49	2156	3.81	2212	4.15	2267	4.49	2323	4.84
5100	1500	0.92	1582	1.13	1659	1.36	1730	1.62	1798	1.89	1862	2.17	1923	2.44	1983	2.76	2040	3.07	2097	3.39	2152	3.71	2207	4.05	2261	4.39	2315	4.74	2370	5.10
5400	1576	1.06	1654	1.29	1727	1.54	1796	1.81	1861	2.09	1923	2.38	1983	2.66	2040	2.99	2097	3.31	2151	3.63	2205	3.96	2259	4.30	2312	4.65	2365	5.01	2418	5.38
5700	1652	1.22	1727	1.47	1797	1.73	1863	2.01	1926	2.30	1986	2.61	2043	2.89	2099	3.23	2154	3.56	2207	3.89	2260	4.23	2312	4.58	2364	4.94	2416	5.30	—	—
6000	1727	1.40	1799	1.66	1866	1.94	1930	2.24	1990	2.54	2049	2.85	2105	3.14	2159	3.50	2212	3.83	2264	4.17	2316	4.52	2367	4.88	2417	5.24	—	—	—	—
6300	1802	1.60	1871	1.88	1935	2.17	1997	2.48	2056	2.79	2112	3.11	2166	3.41	2219	3.78	2271	4.12	2322	4.47	2372	4.83	2422	5.19	—	—	—	—	—	—
6600	1876	1.82	1942	2.12	2005	2.42	2064	2.74	2121	3.06	2175	3.40	2228	3.70	2280	4.08	2330	4.43	2380	4.79	2429	5.15	—	—	—	—	—	—	—	—
6900	1949	2.07	2013	2.37	2074	2.69	2131	3.02	2186	3.35	2239	3.69	2290	4.00	2340	4.40	2389	4.76	2438	5.12	—	—	—	—	—	—	—	—	—	—
7200	2022	2.33	2084	2.65	2142	2.98	2198	3.32	2251	3.66	2300	4.01	2353	4.32	2402	4.73	2449	5.10	—	—	—	—	—	—	—	—	—	—	—	—
7500	2095	2.61	2154	2.94	2211	3.28	2265	3.63	2300	3.99	2367	4.35	2415	4.66	2450	5.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—
High static 1211-2450 RPM																														
Note:																														
1. Blower performance includes highest gas heat exchangers, wet coil and clean standard throwaway filters. See <i>Static resistance table</i> for additional applications.																														
2. kW = BHP x 0.829																														

Table 27: MD20 bottom duct application

Available external static pressure - IWG																														
Air Flow (CFM)	0.2		0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2		2.2		2.4		2.6		2.8		3	
	RPM	BHP	RPM	BHP																										
Standard static 1367-2800 RPM																														
5000	1367	1.00	1456	1.15	1539	1.33	1617	1.55	1690	1.78	1759	2.04	1825	2.30	1888	2.59	1948	2.88	2005	3.17	2060	3.48	2114	3.79	2165	4.10	2215	4.42	2262	4.74
5500	1484	1.20	1567	1.38	1644	1.60	1717	1.83	1786	2.09	1852	2.36	1914	2.64	1974	2.94	2031	3.24	2087	3.55	2140	3.86	2191	4.19	2240	4.51	2288	4.84	2335	5.17
6000	1602	1.45	1678	1.66	1751	1.90	1819	2.16	1885	2.44	1947	2.72	2007	3.02	2064	3.33	2119	3.65	2172	3.97	2223	4.30	2272	4.63	2320	4.97	2366	5.31	2411	5.66
6500	1720	1.75	1792	1.99	1860	2.26	1924	2.54	1986	2.83	2045	3.14	2102	3.45	2157	3.78	2209	4.11	2260	4.45	2309	4.79	2357	5.14	2403	5.49	2448	5.84	2491	6.20
7000	1839	2.10	1906	2.37	1970	2.66	2032	2.96	2090	3.28	2146	3.60	2201	3.93	2253	4.27	2303	4.62	2352	4.97	2399	5.33	2445	5.69	2489	6.06	2532	6.43	2574	6.80
7500	1959	2.51	2022	2.80	2082	3.11	2140	3.44	2196	3.77	2250	4.11	2301	4.46	2351	4.82	2400	5.18	2446	5.55	2492	5.92	2536	6.30	2579	6.68	2620	7.07	2661	7.45
8000	2078	2.96	2137	3.28	2195	3.61	2250	3.96	2303	4.31	2354	4.67	2403	5.04	2451	5.41	2498	5.79	2543	6.17	2586	6.56	2629	6.96	2670	7.35	2710	7.75	2750	8.16
8500	2199	3.47	2255	3.82	2309	4.17	2362	4.54	2412	4.91	2461	5.29	2508	5.68	2554	6.07	2599	6.46	2642	6.86	2684	7.27	2725	7.68	2765	8.09	2800	8.51	2842	8.93
9000	2320	4.04	2373	4.41	2425	4.79	2475	5.17	2523	5.56	2570	5.96	2615	6.37	2659	6.78	2702	7.19	2743	7.61	2784	8.03	2823	8.46	2862	8.89	2899	9.33	2936	9.76
9500	2412	4.66	2464	5.05	2514	5.45	2562	5.86	2609	6.27	2655	6.69	2699	7.11	2742	7.54	2783	7.97	2824	8.41	2864	8.85	2902	9.29	2928	9.74	2950	10.19	—	—
10000	2560	5.34	2609	5.75	2656	6.17	2701	6.59	2745	7.03	2788	7.46	2830	7.91	2871	8.35	2910	8.80	2939	9.26	2950	9.72	—	—	—	—	—	—	—	—
High static 1367-2950 RPM																														
<p>Note:</p> <ol style="list-style-type: none"> Blower performance includes highest gas heat exchangers, wet coil and clean standard throwaway filters. See <i>Static resistance table</i> for additional applications. kW = BHP x 0.829 																														

Table 28: MD25 bottom duct application

Available external static pressure - IWG																														
Air Flow (CFM)	0.2		0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2		2.2		2.4		2.6		2.8		3	
	RPM	BHP	RPM	BHP																										
Standard static 1367-2800 RPM																														
6500	1720	1.75	1792	1.99	1860	2.26	1924	2.54	1986	2.83	2045	3.14	2102	3.45	2157	3.78	2209	4.11	2260	4.45	2309	4.79	2357	5.14	2403	5.49	2448	5.84	2491	6.20
7000	1839	2.10	1906	2.37	1970	2.66	2032	2.96	2090	3.28	2146	3.60	2201	3.93	2253	4.27	2303	4.62	2352	4.97	2399	5.33	2445	5.69	2489	6.06	2532	6.43	2574	6.80
7500	1959	2.51	2022	2.80	2082	3.11	2140	3.44	2196	3.77	2250	4.11	2301	4.46	2351	4.82	2400	5.18	2446	5.55	2492	5.92	2536	6.30	2579	6.68	2620	7.07	2661	7.45
8000	2078	2.96	2137	3.28	2195	3.61	2250	3.96	2303	4.31	2354	4.67	2403	5.04	2451	5.41	2498	5.79	2543	6.17	2586	6.56	2629	6.96	2670	7.35	2710	7.75	2750	8.16
8500	2199	3.47	2255	3.82	2309	4.17	2362	4.54	2412	4.91	2461	5.29	2508	5.68	2554	6.07	2599	6.46	2642	6.86	2684	7.27	2725	7.68	2765	8.09	2800	8.51	2842	8.93
9000	2320	4.04	2373	4.41	2425	4.79	2475	5.17	2523	5.56	2570	5.96	2615	6.37	2659	6.78	2702	7.19	2743	7.61	2784	8.03	2823	8.46	2862	8.89	2899	9.33	2936	9.76
9500	2412	4.66	2464	5.05	2514	5.45	2562	5.86	2609	6.27	2655	6.69	2699	7.11	2742	7.54	2783	7.97	2824	8.41	2864	8.85	2902	9.29	2928	9.74	2950	10.19	—	—
10000	2560	5.34	2609	5.75	2656	6.17	2701	6.59	2745	7.03	2788	7.46	2830	7.91	2871	8.35	2910	8.80	2939	9.26	2950	9.72	—	—	—	—	—	—	—	—
10500	2680	6.07	2726	6.50	2771	6.94	2815	7.39	2857	7.84	2899	8.29	2939	8.76	2950	9.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11000	2799	6.85	2844	7.30	2887	7.76	2929	8.23	2950	8.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
11500	2887	7.68	2930	8.16	2950	8.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
12000	2950	8.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
High static 1367-2950 RPM																														
<p>Note:</p> <ol style="list-style-type: none"> Blower performance includes highest gas heat exchangers, wet coil and clean standard throwaway filters. See <i>Static resistance table</i> for additional applications. kW = BHP x 0.829 																														

RPM selection and static resistance

Table 29: RPM selection

Size (ton)	Static	HP (each)	Max BHP	Supply fan multiplier								
				1	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2
WV 13 (12.5)	Standard	2.69	4.84	2300	2140	1980	1820	1660	1500	1340	1180	1020
	High	3.24	5.83	2450	2275	2100	1925	1750	1575	1400	1225	1050
WV15 (15)	Standard	2.69	4.84	2300	2140	1980	1820	1660	1500	1340	1180	N/A
	High	3.24	5.83	2450	2275	2100	1925	1750	1575	1400	1225	N/A
WV20 (20)	Standard	4.82	8.67	2800	2590	2380	2170	1960	1750	1540	1330	N/A
	High	5.66	10.19	2950	2725	2500	2275	2050	1825	1600	1375	N/A
WV25 (25)	Standard	4.82	8.67	2800	2590	2380	2170	1960	1750	N/A	N/A	N/A
	High	5.66	10.19	2950	2725	2500	2275	2050	1825	N/A	N/A	N/A

Table 30: Additional static resistance

Model	CFM	Cooling only	Economizer	Electric heat kW			4 in. MERV 13	2 in. MERV 8	2 in. MERV 13
				25	50	75			
MD13 MD15	3500	0.09	0.01	0	0.01	0.02	0.05	0.05	0.05
	4000	0.09	0.01	0	0.01	0.02	0.05	0.05	0.05
	5000	0.11	0.02	0.03	0.03	0.04	0.06	0.05	0.06
	6000	0.15	0.07	0.04	0.04	0.05	0.07	0.06	0.07
MD20 MD25	7000	0.21	0.11	0.05	0.06	0.07	0.09	0.07	0.09
	8000	0.29	0.14	0.07	0.08	0.09	0.12	0.09	0.12
	6000	0.11	0.07	0.04	0.04	0.05	0.06	0.05	0.06
	7000	0.2	0.11	0.05	0.06	0.07	0.07	0.06	0.07
	8000	0.29	0.16	0.07	0.08	0.09	0.09	0.07	0.09
	9000	0.38	0.16	0.09	0.1	0.11	0.1	0.08	0.1
	10000	0.47	0.19	0.12	0.13	0.14	0.13	0.09	0.13
	11000	0.56	0.23	0.18	0.2	0.22	0.15	0.11	0.15
12000	0.65	0.28	0.26	0.29	0.32	0.18	0.13	0.18	
13000	0.74	0.34	0.38	0.41	0.45	0.21	0.14	0.21	

① Note:

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

Supply fan RPM determination using multiplier

1. Determine the required airflow.
2. Calculate or measure the amount of external static pressure.
3. With the operating point determined from the previous step, locate this point on the appropriate supply air blower performance table.

Note: Linear interpolation may be necessary if the exact point is not listed.

4. From the supply air blower performance table, note the corresponding RPM and BHP.
5. Review the BHP compared to the motor option available and select an appropriate motor.
6. Review the RPM range of the motor option available. Then, select the appropriate multiplier from the RPM selection table.

Note: Linear interpolation of the multiplier may be necessary to find required RPM.

Program the identified multiplier from the previous step into the SSE controller using the following procedure in the SSE menu: Details → Fan → Setup → SupplyFanMultiplier (Default: 1, Range = 0.1 to 1)

Example:

1. Required airflow: 4500 CFM
2. External static pressure: 1 iwg
3. Using the supply air blower performance table below, the following operating point was located: 1685 RPM and 1.55 BHP.
4. Using the RPM selection table, motor size and a multiplier were identified.
5. The 1.55 BHP does not exceed the maximum continuous BHP rating of either of the two motor options, so both are still eligible for selection.
6. 1685 RPM falls within the operating range of the 2.69 HP drive.
7. Using the 2.69 HP motor, multiplier setting 0.62 was identified.
8. Programming the multiplier 0.62 into the SSE controller achieves the required 1685 RPM.

Table 31: Example supply air blower performance

Available external static pressure - IWG																														
Air Flow (CFM)	0.2		0.4		0.6		0.8		1		1.2		1.4		1.6		1.8		2		2.2		2.4		2.6		2.8		3	
	RPM	BHP																												
Standard static 1011-2300 RPM																														
3250	1011	0.56	1142	0.58	1253	0.68	1350	0.85	1438	1.05	1517	1.27	1590	1.52	1659	1.77	1724	2.04	1787	2.31	1847	2.59	1906	2.88	1965	3.17	2024	3.48	2083	3.79
3500	1081	0.57	1204	0.61	1309	0.73	1403	0.91	1487	1.13	1564	1.36	1635	1.61	1702	1.87	1766	2.14	1827	2.42	1886	2.70	1944	2.99	2002	3.29	2059	3.60	2117	3.92
3750	1148	0.58	1264	0.65	1365	0.80	1455	0.99	1537	1.22	1611	1.46	1680	1.71	1745	1.98	1807	2.25	1867	2.54	1925	2.82	1982	3.12	2039	3.42	2095	3.74	2152	4.06
4000	1214	0.61	1324	0.71	1421	0.88	1507	1.08	1586	1.32	1658	1.57	1726	1.83	1789	2.10	1850	2.38	1908	2.67	1965	2.96	2021	3.26	2076	3.57	2132	3.89	2188	4.21
4250	1278	0.65	1383	0.78	1476	0.97	1560	1.19	1636	1.43	1706	1.69	1771	1.96	1833	2.23	1892	2.52	1949	2.81	2005	3.11	2060	3.41	2114	3.73	2169	4.05	2224	4.38
4500	1342	0.72	1442	0.87	1531	1.07	1612	1.30	1685	1.55	1754	1.82	1817	2.09	1878	2.38	1935	2.67	1991	2.96	2046	3.27	2099	3.58	2153	3.89	2207	4.22	2261	4.56
4750	1404	0.79	1500	0.97	1586	1.19	1664	1.43	1735	1.69	1802	1.96	1864	2.24	1923	2.53	1979	2.83	2034	3.13	2087	3.44	2140	3.75	2192	4.08	2245	4.41	2298	4.75
5000	1466	0.89	1559	1.08	1641	1.31	1717	1.57	1786	1.83	1850	2.11	1911	2.40	1968	2.70	2023	3.00	2077	3.31	2129	3.62	2181	3.94	2232	4.27	2284	4.61	2337	4.96
5250	1528	1.00	1617	1.21	1696	1.45	1769	1.71	1837	1.99	1899	2.28	1958	2.58	2014	2.88	2068	3.19	2120	3.50	2172	3.82	2223	4.15	2273	4.48	2324	4.82	2376	5.18
5500	1589	1.12	1675	1.35	1752	1.60	1822	1.88	1888	2.16	1949	2.46	2006	2.76	2061	3.07	2114	3.38	2165	3.70	2215	4.03	2265	4.36	2315	4.70	2365	5.05	2416	5.41
5750	1650	1.25	1733	1.50	1807	1.77	1876	2.05	1939	2.35	1999	2.65	2055	2.96	2108	3.27	2160	3.60	2210	3.92	2259	4.25	2300	4.59	2357	4.94	2406	5.29	2450	5.66
6000	1711	1.40	1791	1.66	1863	1.94	1929	2.24	1991	2.54	2049	2.85	2104	3.17	2156	3.49	2206	3.82	2255	4.15	2300	4.49	2352	4.83	2400	5.19	2448	5.55	—	—
6250	1772	1.56	1849	1.84	1919	2.13	1984	2.43	2044	2.75	2100	3.07	2153	3.39	2204	3.72	2254	4.05	2300	4.39	2349	4.74	2396	5.09	2443	5.45	—	—	—	—
High static 1011-2450 RPM																														
<p>Note:</p> <ul style="list-style-type: none"> • Blower performance includes highest gas heat exchangers, Wet coil and clean standard throwaway filters. See STATIC RESISTANCE table for additional applications. • kW = BHP x 0.829 																														

Airflow specifications

Table 32: 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 3: Altitude/temperature correction factors

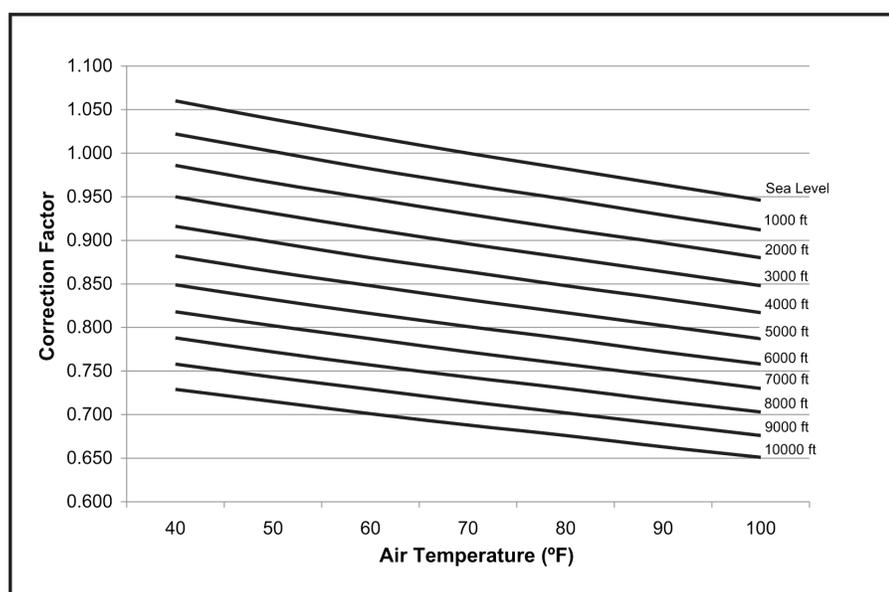


Table 33: Gas heat allowable airflow

Size (ton)	Heat size	Min	Max
Unit		Supply air (CFM)	
WV13 (12.5)	(N,S)1	3750	6250
	(N,S)3	4300	6250
	T3	3500	6250
WV15 (15)	(N,S)1	3750	7500
	(N,S)3	4300	7500
	T3	3500	7500
WV20 (20)	(N,S)1	3750	10000
	(N,S)3	4700	10000
	T3	4500	10000
WV25 (25)	(N,S)1	3750	12500
	(N,S)3	4700	12500
	T3	4500	12500

Table 34: Electric heat minimum air flow requirements

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

Table 35: Standard CFM constant volume power exhaust (208V) airflow

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

Table 36: Standard CFM constant volume power exhaust (230, 460, 575V) airflow

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

Note:

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

Table 37: Standard CFM modulating power exhaust airflow

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

Table 38: Standard CFM modulating power exhaust airflow - continued

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

Table 39: High CFM constant volume and modulating power exhaust (208V) airflow - field-installed only

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

Table 40: High CFM constant volume and modulating power exhaust (230, 460, 575V) airflow - field-installed only

CFM	Available external static pressure - IWG													
	0		0.1		0.2		0.3		0.4		0.5			
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
2500	-	-	-	-	-	-	488	0.84	531	0.86	541	0.70		
2750	-	-	-	-	-	-	508	0.93	550	0.94	560	0.78		
3000	-	-	-	-	471	0.91	527	1.02	569	1.04	580	0.87		
3250	-	-	-	-	491	1.01	547	1.12	589	1.13	-	-		

Table 40: High CFM constant volume and modulating power exhaust (230, 460, 575V) airflow - field-installed only

CFM	Available external static pressure - IWG											
	0		0.1		0.2		0.3		0.4		0.5	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3500	-	-	457	0.99	512	1.11	568	1.22	-	-	-	-
3750	-	-	480	1.09	534	1.22	591	1.32	-	-	-	-
4000	469	1.14	504	1.20	558	1.32	-	-	-	-	-	-
4250	495	1.25	529	1.31	583	1.44	-	-	-	-	-	-
4500	522	1.37	557	1.43	-	-	-	-	-	-	-	-
4750	551	1.49	586	1.55	-	-	-	-	-	-	-	-
5000	582	1.61	-	-	-	-	-	-	-	-	-	-

Table 41: Electric heat multipliers

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

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

Sound performance

Table 42: Indoor sound performance

Size (tons)	CFM	Type	Sound power, dB (10 ⁻¹²) watts							
			Octave band centerline frequency (Hz)							
			63	125	250	500	1000	2000	4000	8000
MD13 (12.5)	5000	Ducted discharge	86	82	76	74	72	71	69	62
		Ducted inlet	85	72	66	60	58	52	46	37
MD15 (15)	6000	Ducted discharge	89	83	77	75	73	72	69	61
		Ducted inlet	86	72	70	58	57	53	49	38
MD20 (20)	8000	Ducted discharge	92	83	80	76	75	74	73	66
		Ducted inlet	90	77	72	63	61	55	51	43
MD25 (25)	10000	Ducted discharge	92	87	83	81	82	80	79	72
		Ducted inlet	92	76	70	67	65	60	56	46

ⓘ Note:

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

Table 43: Outdoor sound performance

Size (tons)	Sound rating dB (A)	Sound power, dB (10 ⁻¹²) watts							
		Octave band centerline frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
MD13 (12.5)	85	88	86	85	83	80	76	71	65
MD15 (15)	84	89	87	87	80	77	73	68	64
MD20 (20)	83	94	87	84	81	78	74	69	65
MD25 (25)	87	90	86	87	86	82	79	74	66

ⓘ Note:

- Tested in accordance with AHRI 370-2015.

Electrical data

The following note applies to all electrical data tables.

ⓘ Note:

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

2 stage standard static without power exhaust

Table 44: 2 stage standard static without power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (Amps)	Max f/b size (Amps)	Min disconnect rating		MCA w/ 120 V trans (Amps)	Max f/b size w/ 120 V trans (Amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
WV13 (12.5)	208-3-60	22.4	166.2	22.4	190	2.1	6.1	9.6	None	-	-	-	66.8	80	70	378	76.4	90	81	388
									2EL04502525	18.8	1	52.1	132.1	150	130	378	141.7	150	141	388
									2EL04505025	37.6	2	104.3	152.8	175	150	378	162.4	175	161	388
									2EL04507525	56.3	2	156.2	171.5	200	194	378	183.5	200	205	388
	230-3-60	22.4	166.2	22.4	190	2.1	5.7	8.7	None	-	-	-	66.0	80	69	378	74.7	90	79	386
									2EL04502525	23.0	1	57.7	138.1	150	136	378	146.8	150	146	386
									2EL04505025	45.9	2	115.2	161.1	175	157	378	169.8	175	167	386
									2EL04507525	68.9	2	172.9	187.2	200	212	378	198.0	225	222	386
	460-3-60	8.8	74.6	11.5	100	1.1	2.9	4.3	None	-	-	-	31.2	40	33	186	35.5	45	37	190
									2EL04502546	23.0	1	28.8	67.3	70	66	186	71.6	80	71	190
									2EL04505046	45.9	2	57.6	79.3	80	76	186	84.6	90	81	190
									2EL04507546	68.9	2	86.4	93.7	100	106	186	99.0	110	111	190
575-3-60	7.2	54	9.0	72	0.9	3.1	3.5	None	-	-	-	26.5	35	28	136	30.0	35	32	140	
								2EL04502558	23.0	1	23.0	55.3	60	54	136	58.8	60	58	140	
								2EL04505058	45.9	2	46.0	65.3	70	63	136	69.6	70	67	140	
								2EL04507558	68.9	2	69.1	76.9	80	87	136	81.2	90	91	140	
WV15 (15)	208-3-60	27.7	178.5	27.7	178.5	2.0	6.1	9.6	None	-	-	-	82.5	110	87	387	92.1	110	98	396
									2EL04502525	18.8	1	52.1	147.8	150	147	387	157.4	175	158	396
									2EL04505025	37.6	2	104.3	168.5	175	166	387	178.1	200	177	396
									2EL04507525	56.3	2	156.2	180.4	200	194	387	190.0	200	205	396
	230-3-60	27.7	178.5	27.7	178.5	2.3	5.7	8.7	None	-	-	-	82.9	110	87	388	91.6	110	97	397
									2EL04502525	23.0	1	57.7	155.1	175	154	388	163.8	175	164	397
									2EL04505025	45.9	2	115.2	178.1	200	175	388	186.8	200	185	397
									2EL04507525	68.9	2	172.9	190.9	200	212	388	199.6	225	222	397
	460-3-60	11.5	103	11.5	103	1.3	2.9	4.3	None	-	-	-	36.9	45	39	223	41.2	50	44	228
									2EL04502546	23.0	1	28.8	73.0	80	72	223	77.3	80	77	228
									2EL04505046	45.9	2	57.6	84.4	90	83	223	88.7	90	88	228
									2EL04507546	68.9	2	86.4	93.7	100	106	223	99.0	110	111	228
575-3-60	9.0	78	9.0	78	1.0	3.1	3.5	None	-	-	-	30.5	35	32	171	34.0	40	36	175	
								2EL04502558	23.0	1	23.0	59.3	60	59	171	62.8	70	63	175	
								2EL04505058	45.9	2	46.0	68.5	70	67	171	72.0	80	71	175	
								2EL04507558	68.9	2	69.1	76.9	80	87	171	81.2	90	91	175	
WV20 (20)	208-3-60	28.5	255	33.3	255	2.0	10.8	9.6	None	-	-	-	99.7	125	105	549	109.3	125	116	559
									2EL04502525	18.8	1	52.1	165.0	175	165	549	174.6	175	176	559
									2EL04505025	37.6	2	104.3	185.7	200	184	549	195.3	200	195	559
									2EL04507525	56.3	2	156.2	197.6	200	204	549	207.2	225	216	559
	230-3-60	28.5	255	33.3	255	2.3	10.0	8.7	None	-	-	-	99.3	125	105	550	108.0	125	115	558
									2EL04502525	23.0	1	57.7	171.5	175	171	550	180.2	200	181	558
									2EL04505025	45.9	2	115.2	194.5	200	192	550	203.2	225	202	558
									2EL04507525	68.9	2	172.9	207.3	225	222	550	216.0	225	232	558
	460-3-60	13.5	123	15.4	140	1.3	4.9	4.3	None	-	-	-	47.8	60	50	284	52.1	60	55	289
									2EL04502546	23.0	1	28.8	83.9	90	84	284	88.2	90	89	289
									2EL04505046	45.9	2	57.6	95.3	100	94	284	99.6	100	99	289
									2EL04507546	68.9	2	86.4	101.8	110	111	284	106.1	110	116	289
575-3-60	10.7	93.7	12.9	107.6	1.0	4.4	3.5	None	-	-	-	39.6	50	42	219	43.1	50	46	223	
								2EL04502558	23.0	1	23.0	68.5	70	68	219	72.0	80	72	223	
								2EL04505058	45.9	2	46.0	77.6	80	77	219	81.1	90	81	223	
								2EL04507558	68.9	2	69.1	82.8	90	90	219	86.3	90	94	223	

Table 44: 2 stage standard static without power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (Amps)	Max f/b size (Amps)	Min disconnect rating		MCA w/ 120 V trans (Amps)	Max f/b size w/ 120 V trans (Amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
WV25 (25)	208-3-60	40.8	270	40.8	270	2.1	10.8	9.6	None	-	-	-	121.8	150	128	582	131.4	150	139	591
									2EL04502525	18.8	1	52.1	187.1	200	188	582	196.7	200	199	591
									2EL04505025	37.6	2	104.3	207.8	225	207	582	217.4	225	219	591
									2EL04507525	56.3	2	156.2	219.7	225	218	582	229.3	250	229	591
	230-3-60	40.8	270	40.8	270	2.1	10.0	8.7	None	-	-	-	120.2	150	127	580	128.9	150	137	589
									2EL04502525	23.0	1	57.7	192.3	200	193	580	201.0	225	203	589
									2EL04505025	45.9	2	115.2	215.3	225	214	580	224.0	225	224	589
									2EL04507525	68.9	2	172.9	228.2	250	226	580	236.9	250	236	589
	460-3-60	19.4	147	19.4	147	1.1	4.9	4.3	None	-	-	-	57.9	70	61	315	62.2	80	66	319
									2EL04502546	23.0	1	28.8	94.0	100	94	315	98.3	110	99	319
									2EL04505046	45.9	2	57.6	105.4	110	105	315	109.7	110	110	319
									2EL04507546	68.9	2	86.4	111.9	125	111	315	116.2	125	116	319
	575-3-60	13.7	109	13.7	109	0.9	4.4	3.5	None	-	-	-	43.2	50	46	235	46.7	60	50	238
									2EL04502558	23.0	1	23.0	72.1	80	72	235	75.6	80	76	238
									2EL04505058	45.9	2	46.0	81.2	90	81	235	84.7	90	85	238
									2EL04507558	68.9	2	69.1	86.4	90	90	235	89.9	90	94	238

2 stage standard static with on/off power exhaust

Table 45: 2 stage standard static with on/off power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	Pwr Exh motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
WV13 (12.5)	208-3-60	22.4	166.2	22.4	190	2.1	6.1	5.0	9.6	None	-	-	-	76.8	90	82	399	86.4	100	93	409
										2EL04502525	18.8	1	52.1	142.1	150	142	399	151.7	175	153	409
										2EL04505025	37.6	2	104.3	162.8	175	161	399	172.4	175	172	409
										2EL04507525	56.3	2	156.2	184.0	200	205	399	196.0	200	216	409
	230-3-60	22.4	166.2	22.4	190	2.1	5.7	5.0	8.7	None	-	-	-	76.0	90	81	399	84.7	100	91	407
										2EL04502525	23.0	1	57.7	148.1	150	147	399	156.8	175	157	407
										2EL04505025	45.9	2	115.2	171.1	175	168	399	181.6	200	178	407
										2EL04507525	68.9	2	172.9	199.7	225	223	399	210.5	225	233	407
	460-3-60	8.8	74.6	11.5	100	1.1	2.9	2.2	4.3	None	-	-	-	35.6	45	38	195	39.9	50	43	200
										2EL04502546	23.0	1	28.8	71.7	80	71	195	76.0	80	76	200
										2EL04505046	45.9	2	57.6	84.8	90	81	195	90.1	100	86	200
										2EL04507546	68.9	2	86.4	99.2	110	111	195	104.5	110	116	200
575-3-60	7.2	54	9.0	72	0.9	3.1	1.5	3.5	None	-	-	-	29.5	35	31	143	33.0	40	35	146	
									2EL04502558	23.0	1	23.0	58.3	60	58	143	61.8	70	62	146	
									2EL04505058	45.9	2	46.0	69.0	70	66	143	73.4	80	70	146	
									2EL04507558	68.9	2	69.1	80.6	90	90	143	85.0	90	94	146	
WV15 (15)	208-3-60	27.7	178.5	27.7	178.5	2.0	6.1	5.0	9.6	None	-	-	-	92.5	110	98	408	102.1	125	109	417
										2EL04502525	18.8	1	52.1	157.8	175	158	408	167.4	175	170	417
										2EL04505025	37.6	2	104.3	178.5	200	178	408	188.1	200	189	417
										2EL04507525	56.3	2	156.2	190.4	200	205	408	200.0	200	216	417
	230-3-60	27.7	178.5	27.7	178.5	2.3	5.7	5.0	8.7	None	-	-	-	92.9	110	99	409	101.6	125	109	418
										2EL04502525	23.0	1	57.7	165.1	175	165	409	173.8	175	175	418
										2EL04505025	45.9	2	115.2	188.1	200	186	409	196.8	200	196	418
										2EL04507525	68.9	2	172.9	200.9	225	223	409	210.5	225	233	418
	460-3-60	11.5	103	11.5	103	1.3	2.9	2.2	4.3	None	-	-	-	41.3	50	44	233	45.6	50	49	237
										2EL04502546	23.0	1	28.8	77.4	80	77	233	81.7	90	82	237
										2EL04505046	45.9	2	57.6	88.8	90	88	233	93.1	100	93	237
										2EL04507546	68.9	2	86.4	99.2	110	111	233	104.5	110	116	237
575-3-60	9.0	78	9.0	78	1.0	3.1	1.5	3.5	None	-	-	-	33.5	40	36	178	37.0	45	40	181	
									2EL04502558	23.0	1	23.0	62.3	70	62	178	65.8	70	66	181	
									2EL04505058	45.9	2	46.0	71.5	80	71	178	75.0	80	75	181	
									2EL04507558	68.9	2	69.1	80.6	90	90	178	85.0	90	94	181	
WV20 (20)	208-3-60	28.5	255	33.3	255	2.0	10.8	5.0	9.6	None	-	-	-	109.7	125	117	570	119.3	150	128	580
										2EL04502525	18.8	1	52.1	175.0	175	177	570	184.6	200	188	580
										2EL04505025	37.6	2	104.3	195.7	200	196	570	205.3	225	207	580
										2EL04507525	56.3	2	156.2	207.6	225	216	570	217.2	225	227	580
	230-3-60	28.5	255	33.3	255	2.3	10.0	5.0	8.7	None	-	-	-	109.3	125	116	571	118.0	150	126	579
										2EL04502525	23.0	1	57.7	181.5	200	183	571	190.2	200	193	579
										2EL04505025	45.9	2	115.2	204.5	225	204	571	213.2	225	214	579
										2EL04507525	68.9	2	172.9	217.3	225	233	571	226.0	250	243	579
	460-3-60	13.5	123	15.4	140	1.3	4.9	2.2	4.3	None	-	-	-	52.2	60	56	294	56.5	70	60	298
										2EL04502546	23.0	1	28.8	88.3	90	89	294	92.6	100	94	298
										2EL04505046	45.9	2	57.6	99.7	100	99	294	104.0	110	104	298
										2EL04507546	68.9	2	86.4	106.2	110	116	294	110.5	125	121	298
575-3-60	10.7	93.7	12.9	107.6	1.0	4.4	1.5	3.5	None	-	-	-	42.6	50	45	226	46.1	50	49	229	
									2EL04502558	23.0	1	23.0	71.5	80	72	226	75.0	80	76	229	
									2EL04505058	45.9	2	46.0	80.6	90	80	226	84.1	90	84	229	
									2EL04507558	68.9	2	69.1	85.8	90	93	226	89.3	90	97	229	

Table 45: 2 stage standard static with on/off power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	Pwr Exh motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
WV25 (25)	208-3-60	40.8	270	40.8	270	2.1	10.8	5.0	9.6	None	-	-	-	131.8	150	140	603	141.4	175	151	612
										2EL04502525	18.8	1	52.1	197.1	200	200	603	206.7	225	211	612
										2EL04505025	37.6	2	104.3	217.8	225	219	603	227.4	250	230	612
										2EL04507525	56.3	2	156.2	229.7	250	230	603	239.3	250	241	612
	230-3-60	40.8	270	40.8	270	2.1	10.0	5.0	8.7	None	-	-	-	130.2	150	138	601	138.9	175	148	610
										2EL04502525	23.0	1	57.7	202.3	225	204	601	211.0	225	214	610
										2EL04505025	45.9	2	115.2	225.3	250	226	601	234.0	250	236	610
										2EL04507525	68.9	2	172.9	238.2	250	237	601	246.9	250	247	610
	460-3-60	19.4	147	19.4	147	1.1	4.9	2.2	4.3	None	-	-	-	62.3	80	66	324	66.6	80	71	329
										2EL04502546	23.0	1	28.8	98.4	110	99	324	102.7	110	104	329
										2EL04505046	45.9	2	57.6	109.8	110	110	324	114.1	125	115	329
										2EL04507546	68.9	2	86.4	116.3	125	116	324	120.6	125	121	329
	575-3-60	13.7	109	13.7	109	0.9	4.4	1.5	3.5	None	-	-	-	46.2	50	49	241	49.7	60	53	245
										2EL04502558	23.0	1	23.0	75.1	80	76	241	78.6	80	80	245
										2EL04505058	45.9	2	46.0	84.2	90	84	241	87.7	90	88	245
										2EL04507558	68.9	2	69.1	89.4	90	93	241	92.9	100	97	245

2 stage standard static with mod power exhaust

Table 46: 2 stage standard static with mod power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	Pwr Exh motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
WV13 (12.5)	208-3-60	22.4	166.2	22.4	190	2.1	6.1	6.7	9.6	None	-	-	-	80.2	100	86	392	89.8	110	97	401
										2EL04502525	18.8	1	52.1	145.5	150	146	392	155.1	175	157	401
										2EL04505025	37.6	2	104.3	166.2	175	165	392	175.8	200	176	401
										2EL04507525	56.3	2	156.2	188.2	200	209	392	200.2	225	220	401
	230-3-60	22.4	166.2	22.4	190	2.1	5.7	6.7	8.7	None	-	-	-	79.4	100	85	391	88.1	110	95	400
										2EL04502525	23.0	1	57.7	151.5	175	151	391	160.2	175	161	400
										2EL04505025	45.9	2	115.2	175.0	175	172	391	185.9	200	182	400
										2EL04507525	68.9	2	172.9	203.9	225	227	391	214.8	225	237	400
	460-3-60	8.8	74.6	11.5	100	1.1	2.9	3.4	4.3	None	-	-	-	38.0	45	40	193	42.3	50	45	197
										2EL04502546	23.0	1	28.8	74.1	80	74	193	78.4	80	79	197
										2EL04505046	45.9	2	57.6	87.8	90	84	193	93.1	100	89	197
										2EL04507546	68.9	2	86.4	102.2	110	114	193	107.5	110	119	197
575-3-60	7.2	54	9.0	72	0.9	3.1	2.7	3.5	None	-	-	-	31.9	40	34	142	35.4	40	38	145	
									2EL04502558	23.0	1	23.0	60.7	70	61	142	64.2	70	65	145	
									2EL04505058	45.9	2	46.0	72.0	80	69	142	76.4	80	73	145	
									2EL04507558	68.9	2	69.1	83.6	90	93	142	88.0	90	97	145	
WV15 (15)	208-3-60	27.7	178.5	27.7	178.5	2.0	6.1	6.7	9.6	None	-	-	-	95.9	110	102	400	105.5	125	113	410
										2EL04502525	18.8	1	52.1	161.2	175	162	400	170.8	175	173	410
										2EL04505025	37.6	2	104.3	181.9	200	181	400	191.5	200	193	410
										2EL04507525	56.3	2	156.2	193.8	200	209	400	203.4	225	220	410
	230-3-60	27.7	178.5	27.7	178.5	2.3	5.7	6.7	8.7	None	-	-	-	96.3	110	103	401	105.0	125	113	410
										2EL04502525	23.0	1	57.7	168.5	175	169	401	177.2	200	179	410
										2EL04505025	45.9	2	115.2	191.5	200	190	401	200.2	225	200	410
										2EL04507525	68.9	2	172.9	204.3	225	227	401	214.8	225	237	410
	460-3-60	11.5	103	11.5	103	1.3	2.9	3.4	4.3	None	-	-	-	43.7	50	47	230	48.0	50	52	235
										2EL04502546	23.0	1	28.8	79.8	80	80	230	84.1	90	85	235
										2EL04505046	45.9	2	57.6	91.2	100	91	230	95.5	100	96	235
										2EL04507546	68.9	2	86.4	102.2	110	114	230	107.5	110	119	235
575-3-60	9.0	78	9.0	78	1.0	3.1	2.7	3.5	None	-	-	-	35.9	40	39	177	39.4	45	43	180	
									2EL04502558	23.0	1	23.0	64.7	70	65	177	68.2	70	69	180	
									2EL04505058	45.9	2	46.0	73.9	80	74	177	77.4	80	78	180	
									2EL04507558	68.9	2	69.1	83.6	90	93	177	88.0	90	97	180	
WV20 (20)	208-3-60	28.5	255	33.3	255	2.0	10.8	6.7	9.6	None	-	-	-	113.1	125	121	563	122.7	150	132	572
										2EL04502525	18.8	1	52.1	178.4	200	181	563	188.0	200	192	572
										2EL04505025	37.6	2	104.3	199.1	200	200	563	208.7	225	211	572
										2EL04507525	56.3	2	156.2	211.0	225	220	563	220.6	225	231	572
	230-3-60	28.5	255	33.3	255	2.3	10.0	6.7	8.7	None	-	-	-	112.7	125	120	563	121.4	150	130	572
										2EL04502525	23.0	1	57.7	184.9	200	186	563	193.6	200	196	572
										2EL04505025	45.9	2	115.2	207.9	225	208	563	216.6	225	218	572
										2EL04507525	68.9	2	172.9	220.7	225	237	563	229.4	250	247	572
	460-3-60	13.5	123	15.4	140	1.3	4.9	3.4	4.3	None	-	-	-	54.6	70	58	291	58.9	70	63	296
										2EL04502546	23.0	1	28.8	90.7	100	92	291	95.0	100	96	296
										2EL04505046	45.9	2	57.6	102.1	110	102	291	106.4	110	107	296
										2EL04507546	68.9	2	86.4	108.6	110	118	291	112.9	125	123	296
575-3-60	10.7	93.7	12.9	107.6	1.0	4.4	2.7	3.5	None	-	-	-	45.0	50	48	225	48.5	60	52	228	
									2EL04502558	23.0	1	23.0	73.9	80	75	225	77.4	80	79	228	
									2EL04505058	45.9	2	46.0	83.0	90	83	225	86.5	90	87	228	
									2EL04507558	68.9	2	69.1	88.2	90	96	225	91.7	100	100	228	

Table 46: 2 stage standard static with mod power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	Pwr Exh motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
WV25 (25)	208-3-60	40.8	270	40.8	270	2.1	10.8	6.7	9.6	None	-	-	-	135.2	175	144	595	144.8	175	155	605
										2EL04502525	18.8	1	52.1	200.5	225	204	595	210.1	225	215	605
										2EL04505025	37.6	2	104.3	221.2	225	223	595	230.8	250	234	605
										2EL04507525	56.3	2	156.2	233.1	250	234	595	242.7	250	245	605
	230-3-60	40.8	270	40.8	270	2.1	10.0	6.7	8.7	None	-	-	-	133.6	150	142	593	142.3	175	152	602
										2EL04502525	23.0	1	57.7	205.7	225	208	593	214.4	225	218	602
										2EL04505025	45.9	2	115.2	228.7	250	229	593	237.4	250	239	602
										2EL04507525	68.9	2	172.9	241.6	250	241	593	250.3	300	251	602
	460-3-60	19.4	147	19.4	147	1.1	4.9	3.4	4.3	None	-	-	-	64.7	80	69	322	69.0	80	74	326
										2EL04502546	23.0	1	28.8	100.8	110	102	322	105.1	110	107	326
										2EL04505046	45.9	2	57.6	112.2	125	112	322	116.5	125	117	326
										2EL04507546	68.9	2	86.4	118.7	125	118	322	123.0	125	123	326
	575-3-60	13.7	109	13.7	109	0.9	4.4	2.7	3.5	None	-	-	-	48.6	60	52	240	52.1	60	56	244
										2EL04502558	23.0	1	23.0	77.5	80	79	240	81.0	90	83	244
										2EL04505058	45.9	2	46.0	86.6	90	87	240	90.1	100	91	244
										2EL04507558	68.9	2	69.1	91.8	100	96	240	95.3	100	100	244

VFD 2 stage medium static without power exhaust

Table 47: VFD 2 stage medium static without power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) / FLA	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	166.2	22.4	190	2.1	13.2	9.6	None	-	-	-	67.8	90	72	439	77.4	90	83	448
									2EH04522525	18.8	1	52.1	133.1	150	132	439	142.7	150	143	448
									2EH04525025	37.6	2	104.3	153.8	175	151	439	163.4	175	162	448
	230-3-60	22.4	166.2	22.4	190	2.1	13.2	8.7	None	-	-	-	67.8	90	72	447	76.5	90	82	456
									2EH04522525	23.0	1	57.7	139.9	150	138	447	148.6	150	148	456
									2EH04525025	45.9	2	115.2	162.9	175	159	447	171.6	175	169	456
	460-3-60	8.8	74.6	11.5	100	1.1	6.1	4.3	None	-	-	-	31.5	40	33	221	35.8	45	38	225
									2EH04522546	23.0	1	28.8	67.6	70	66	221	71.9	80	71	225
									2EH04525046	45.9	2	57.6	79.6	80	77	221	85.0	90	82	225
	575-3-60	7.2	54	9.0	72	0.9	4.9	3.5	None	-	-	-	25.2	30	26	170	28.7	35	30	174
									2EH04522558	23.0	1	23.0	54.0	60	53	170	57.5	60	57	174
									2EH04525058	45.9	2	46.0	63.6	70	61	170	68.0	70	65	174
15 (15)	208-3-60	27.7	178.5	27.7	178.5	2.0	13.2	9.6	None	-	-	-	83.5	110	88	447	93.1	110	99	457
									2EH04502525	18.8	1	52.1	148.8	150	148	447	158.4	175	159	457
									2EH04505025	37.6	2	104.3	169.5	175	167	447	179.1	200	178	457
									2EH04507525	56.3	2	156.2	181.4	200	195	447	191.0	200	206	457
	230-3-60	27.7	178.5	27.7	178.5	2.3	13.2	8.7	None	-	-	-	84.7	110	89	457	93.4	110	99	466
									2EH04502525	23.0	1	57.7	156.9	175	156	457	165.6	175	166	466
									2EH04505025	45.9	2	115.2	179.9	200	177	457	188.6	200	187	466
									2EH04507525	68.9	2	172.9	192.7	225	214	457	201.4	225	224	466
	460-3-60	11.5	103	11.5	103	1.3	6.1	4.3	None	-	-	-	37.2	45	39	258	41.5	50	44	262
									2EH04502546	23.0	1	28.8	73.3	80	73	258	77.6	80	78	262
									2EH04505046	45.9	2	57.6	84.7	90	83	258	89.0	90	88	262
									2EH04507546	68.9	2	86.4	94.0	110	106	258	99.4	110	111	262
575-3-60	9.0	78	9.0	78	1.0	4.9	3.5	None	-	-	-	29.2	35	31	205	32.7	40	35	209	
								2EH04502558	23.0	1	23.0	58.0	60	58	205	61.5	70	62	209	
								2EH04505058	45.9	2	46.0	67.2	70	66	205	70.7	80	70	209	
								2EH04507558	68.9	2	69.1	75.2	90	85	205	79.6	90	89	209	
20 (20)	208-3-60	28.5	255	33.3	255	2.0	20.4	9.6	None	-	-	-	98.5	125	104	630	108.1	125	115	640
									2EH04502525	18.8	1	52.1	163.8	175	164	630	173.4	175	175	640
									2EH04505025	37.6	2	104.3	184.5	200	183	630	194.1	200	194	640
									2EH04507525	56.3	2	156.2	196.4	200	203	630	206.0	225	214	640
	230-3-60	28.5	255	33.3	255	2.3	20.4	8.7	None	-	-	-	99.7	125	105	632	108.4	125	115	640
									2EH04502525	23.0	1	57.7	171.9	175	171	632	180.6	200	181	640
									2EH04505025	45.9	2	115.2	194.9	200	193	632	203.6	225	203	640
									2EH04507525	68.9	2	172.9	207.7	225	222	632	216.4	225	232	640
	460-3-60	13.5	123	15.4	140	1.3	9.9	4.3	None	-	-	-	47.9	60	51	326	52.2	60	56	330
									2EH04502546	23.0	1	28.8	84.0	90	84	326	88.3	90	89	330
									2EH04505046	45.9	2	57.6	95.4	100	94	326	99.7	100	99	330
									2EH04507546	68.9	2	86.4	101.9	110	111	326	106.2	110	116	330
575-3-60	10.7	93.7	12.9	107.6	1.0	7.7	3.5	None	-	-	-	38.5	50	41	251	42.0	50	45	254	
								2EH04502558	23.0	1	23.0	67.4	70	67	251	70.9	80	71	254	
								2EH04505058	45.9	2	46.0	76.5	80	76	251	80.0	80	80	254	
								2EH04507558	68.9	2	69.1	81.7	90	88	251	85.2	90	92	254	

Table 47: VFD 2 stage medium static without power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	40.8	270	40.8	270	2.1	30.0	9.6	None	-	-	-	130.2	150	138	690	139.8	175	149	699
									2EH04502525	18.8	1	52.1	195.5	200	198	690	205.1	225	209	699
									2EH04505025	37.6	2	104.3	216.2	225	217	690	225.8	250	228	699
									2EH04507525	56.3	2	156.2	228.1	250	228	690	237.7	250	239	699
	230-3-60	40.8	270	40.8	270	2.1	30.0	8.7	None	-	-	-	130.2	150	138	690	138.9	175	148	698
									2EH04502525	23.0	1	57.7	202.3	225	204	690	211.0	225	214	698
									2EH04505025	45.9	2	115.2	225.3	250	226	690	234.0	250	236	698
									2EH04507525	68.9	2	172.9	238.2	250	237	690	246.9	250	247	698
	460-3-60	19.4	147	19.4	147	1.1	14.3	4.3	None	-	-	-	62.4	80	66	370	66.7	80	71	374
									2EH04502546	23.0	1	28.8	98.5	110	99	370	102.8	110	104	374
									2EH04505046	45.9	2	57.6	109.9	110	110	370	114.2	125	115	374
									2EH04507546	68.9	2	86.4	116.4	125	116	370	120.7	125	121	374
	575-3-60	13.7	109	13.7	109	0.9	11.5	3.5	None	-	-	-	45.9	50	49	275	49.4	60	53	278
									2EH04502558	23.0	1	23.0	74.8	80	75	275	78.3	80	79	278
									2EH04505058	45.9	2	46.0	83.9	90	84	275	87.4	90	88	278
									2EH04507558	68.9	2	69.1	89.1	90	93	275	92.6	100	97	278

VFD 2 stage medium static with on/off power exhaust

Table 48: VFD 2 stage medium static with on/off power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	Pwr Exh motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V		
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA	
13 (12.5)	208-3-60	22.4	166.2	22.4	190	2.1	13.2	5.0	9.6	None	-	-	-	77.8	100	83	460	87.4	100	94	469	
										2EH04522525	18.8	1	52.1	143.1	150	143	460	152.7	175	154	469	
										2EH04525025	37.6	2	104.3	163.8	175	162	460	173.4	175	173	469	
	230-3-60	22.4	166.2	22.4	190	2.1	13.2	5.0	8.7	None	-	-	-	77.8	100	83	468	86.5	100	93	477	
										2EH04522525	23.0	1	57.7	149.9	150	149	468	158.6	175	159	477	
										2EH04525025	45.9	2	115.2	173.0	175	171	468	183.9	200	181	477	
	460-3-60	8.8	74.6	11.5	100	1.1	6.1	2.2	4.3	None	-	-	-	35.9	45	38	230	40.2	50	43	234	
										2EH04525046	23.0	1	28.8	72.0	80	71	230	76.3	80	76	234	
										2EH04525046	45.9	2	57.6	85.1	90	82	230	90.5	100	87	234	
	575-3-60	7.2	54	9.0	72	0.9	4.9	1.5	3.5	None	-	-	-	28.2	35	30	176	31.7	40	34	180	
										2EH04522558	23.0	1	23.0	57.0	60	56	176	60.5	70	60	180	
										2EH04525058	45.9	2	46.0	67.4	70	65	176	71.8	80	69	180	
15 (15)	208-3-60	27.7	178.5	27.7	178.5	2.0	13.2	5.0	9.6	None	-	-	-	93.5	110	100	468	103.1	125	111	478	
										2EH04502525	18.8	1	52.1	158.8	175	160	468	168.4	175	171	478	
										2EH04505025	37.6	2	104.3	179.5	200	179	468	189.1	200	190	478	
										2EH04507525	56.3	2	156.2	191.4	200	206	468	201.0	225	217	478	
	230-3-60	27.7	178.5	27.7	178.5	2.3	13.2	5.0	8.7	None	-	-	-	94.7	110	101	478	103.4	125	111	487	
										2EH04502525	23.0	1	57.7	166.9	175	167	478	175.6	200	177	487	
										2EH04505025	45.9	2	115.2	189.9	200	188	478	198.6	200	198	487	
										2EH04507525	68.9	2	172.9	202.7	225	226	478	212.8	225	236	487	
	460-3-60	11.5	103	11.5	103	1.3	6.1	2.2	4.3	None	-	-	-	41.6	50	45	267	45.9	50	49	271	
										2EH04502546	23.0	1	28.8	77.7	80	78	267	82.0	90	83	271	
										2EH04505046	45.9	2	57.6	89.1	90	88	267	93.4	100	93	271	
										2EH04507546	68.9	2	86.4	99.5	110	111	267	104.9	110	116	271	
	575-3-60	9.0	78	9.0	78	1.0	4.9	1.5	3.5	None	-	-	-	32.2	40	34	212	35.7	40	38	215	
										2EH04502558	23.0	1	23.0	61.0	70	61	212	64.5	70	65	215	
										2EH04505058	45.9	2	46.0	70.2	80	69	212	73.7	80	73	215	
										2EH04507558	68.9	2	69.1	79.0	90	89	212	83.4	90	93	215	
	20 (20)	208-3-60	28.5	255	33.3	255	2.0	20.4	5.0	9.6	None	-	-	-	108.5	125	115	651	118.1	150	126	661
											2EH04502525	18.8	1	52.1	173.8	175	175	651	183.4	200	186	661
2EH04505025											37.6	2	104.3	194.5	200	194	651	204.1	225	205	661	
2EH04507525											56.3	2	156.2	206.4	225	215	651	216.0	225	226	661	
230-3-60		28.5	255	33.3	255	2.3	20.4	5.0	8.7	None	-	-	-	109.7	125	117	653	118.4	150	127	661	
										2EH04502525	23.0	1	57.7	181.9	200	183	653	190.6	200	193	661	
										2EH04505025	45.9	2	115.2	204.9	225	204	653	213.6	225	214	661	
										2EH04507525	68.9	2	172.9	217.7	225	234	653	226.4	250	244	661	
460-3-60		13.5	123	15.4	140	1.3	9.9	2.2	4.3	None	-	-	-	52.3	60	56	335	56.6	70	61	339	
										2EH04502546	23.0	1	28.8	88.4	90	89	335	92.7	100	94	339	
										2EH04505046	45.9	2	57.6	99.8	100	99	335	104.1	110	104	339	
										2EH04507546	68.9	2	86.4	106.3	110	116	335	110.6	125	121	339	
575-3-60		10.7	93.7	12.9	107.6	1.0	7.7	1.5	3.5	None	-	-	-	41.5	50	44	257	45.0	50	48	260	
										2EH04502558	23.0	1	23.0	70.4	80	71	257	73.9	80	75	260	
										2EH04505058	45.9	2	46.0	79.5	80	79	257	83.0	90	83	260	
										2EH04507558	68.9	2	69.1	84.7	90	92	257	88.2	90	96	260	

Table 48: VFD 2 stage medium static with on/off power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	Pwr Exh motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	40.8	270	40.8	270	2.1	30.0	5.0	9.6	None	-	-	-	140.2	175	150	711	149.8	175	161	720
										2EH04502525	18.8	1	52.1	205.5	225	210	711	215.1	225	221	720
										2EH04505025	37.6	2	104.3	226.2	250	229	711	235.8	250	240	720
										2EH04507525	56.3	2	156.2	238.1	250	240	711	247.7	250	251	720
	230-3-60	40.8	270	40.8	270	2.1	30.0	5.0	8.7	None	-	-	-	140.2	175	150	711	148.9	175	160	719
										2EH04502525	23.0	1	57.7	212.3	225	216	711	221.0	225	226	719
										2EH04505025	45.9	2	115.2	235.3	250	237	711	244.0	250	247	719
										2EH04507525	68.9	2	172.9	248.2	250	249	711	256.9	300	259	719
	460-3-60	19.4	147	19.4	147	1.1	14.3	2.2	4.3	None	-	-	-	66.8	80	71	379	71.1	90	76	383
										2EH04502546	23.0	1	28.8	102.9	110	104	379	107.2	110	109	383
										2EH04505046	45.9	2	57.6	114.3	125	115	379	118.6	125	120	383
										2EH04507546	68.9	2	86.4	120.8	125	121	379	125.1	150	126	383
	575-3-60	13.7	109	13.7	109	0.9	11.5	1.5	3.5	None	-	-	-	48.9	60	52	281	52.4	60	56	285
										2EH04502558	23.0	1	23.0	77.8	80	79	281	81.3	90	83	285
										2EH04505058	45.9	2	46.0	86.9	90	87	281	90.4	100	91	285
										2EH04507558	68.9	2	69.1	92.1	100	96	281	95.6	100	100	285

VFD 2 stage medium static with mod power exhaust

Table 49: VFD 2 stage medium static with mod power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	Pwr Exh motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
13 (12.5)	208-3-60	22.4	166.2	22.4	190	2.1	13.2	6.7	9.6	None	-	-	-	81.2	100	87	452	90.8	110	98	462
										2EH04522525	18.8	1	52.1	146.5	150	147	452	156.1	175	158	462
										2EH04525025	37.6	2	104.3	167.2	175	166	452	176.8	200	177	462
	230-3-60	22.4	166.2	22.4	190	2.1	13.2	6.7	8.7	None	-	-	-	81.2	100	87	460	89.9	110	97	469
										2EH04522525	23.0	1	57.7	153.3	175	153	460	162.0	175	163	469
										2EH04525025	45.9	2	115.2	177.3	200	174	460	188.1	200	184	469
	460-3-60	8.8	74.6	11.5	100	1.1	6.1	3.4	4.3	None	-	-	-	38.3	45	41	227	42.6	50	46	232
										2EH04525046	23.0	1	28.8	74.4	80	74	227	78.7	80	79	232
										2EH04525046	45.9	2	57.6	88.1	90	84	227	93.5	100	89	232
	575-3-60	7.2	54	9.0	72	0.9	4.9	2.7	3.5	None	-	-	-	30.6	35	33	175	34.1	40	37	179
										2EH04522558	23.0	1	23.0	59.4	60	59	175	62.9	70	63	179
										2EH04525058	45.9	2	46.0	70.4	80	68	175	74.8	80	72	179
15 (15)	208-3-60	27.7	178.5	27.7	178.5	2.0	13.2	6.7	9.6	None	-	-	-	96.9	110	104	461	106.5	125	115	470
										2EH04502525	18.8	1	52.1	162.2	175	164	461	171.8	175	175	470
										2EH04505025	37.6	2	104.3	182.9	200	183	461	192.5	200	194	470
										2EH04507525	56.3	2	156.2	194.8	200	210	461	204.4	225	221	470
	230-3-60	27.7	178.5	27.7	178.5	2.3	13.2	6.7	8.7	None	-	-	-	98.1	125	105	471	106.8	125	115	479
										2EH04502525	23.0	1	57.7	170.3	175	171	471	179.0	200	181	479
										2EH04505025	45.9	2	115.2	193.3	200	192	471	202.0	225	202	479
										2EH04507525	68.9	2	172.9	206.2	225	229	471	217.0	225	239	479
	460-3-60	11.5	103	11.5	103	1.3	6.1	3.4	4.3	None	-	-	-	44.0	50	47	265	48.3	50	52	269
										2EH04502546	23.0	1	28.8	80.1	90	81	265	84.4	90	85	269
										2EH04505046	45.9	2	57.6	91.5	100	91	265	95.8	100	96	269
										2EH04507546	68.9	2	86.4	102.5	110	114	265	107.9	110	119	269
575-3-60	9.0	78	9.0	78	1.0	4.9	2.7	3.5	None	-	-	-	34.6	40	37	211	38.1	45	41	214	
									2EH04502558	23.0	1	23.0	63.4	70	64	211	66.9	70	68	214	
									2EH04505058	45.9	2	46.0	72.6	80	72	211	76.1	80	76	214	
									2EH04507558	68.9	2	69.1	82.0	90	91	211	86.4	90	95	214	
20 (20)	208-3-60	28.5	255	33.3	255	2.0	20.4	6.7	9.6	None	-	-	-	111.9	125	119	644	121.5	150	130	653
										2EH04502525	18.8	1	52.1	177.2	200	179	644	186.8	200	190	653
										2EH04505025	37.6	2	104.3	197.9	200	198	644	207.5	225	209	653
										2EH04507525	56.3	2	156.2	209.8	225	219	644	219.4	225	230	653
	230-3-60	28.5	255	33.3	255	2.3	20.4	6.7	8.7	None	-	-	-	113.1	125	121	645	121.8	150	131	654
										2EH04502525	23.0	1	57.7	185.3	200	187	645	194.0	200	197	654
										2EH04505025	45.9	2	115.2	208.3	225	208	645	217.0	225	218	654
										2EH04507525	68.9	2	172.9	221.1	225	238	645	229.8	250	248	654
	460-3-60	13.5	123	15.4	140	1.3	9.9	3.4	4.3	None	-	-	-	54.7	70	58	332	59.0	70	63	337
										2EH04502546	23.0	1	28.8	90.8	100	92	332	95.1	100	97	337
										2EH04505046	45.9	2	57.6	102.2	110	102	332	106.5	110	107	337
										2EH04507546	68.9	2	86.4	108.7	110	119	332	113.0	125	124	337
575-3-60	10.7	93.7	12.9	107.6	1.0	7.7	2.7	3.5	None	-	-	-	43.9	50	47	256	47.4	60	51	259	
									2EH04502558	23.0	1	23.0	72.8	80	73	256	76.3	80	77	259	
									2EH04505058	45.9	2	46.0	81.9	90	82	256	85.4	90	86	259	
									2EH04507558	68.9	2	69.1	87.1	90	95	256	90.6	100	99	259	

Table 49: VFD 2 stage medium static with mod power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	Pwr Exh motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
25 (25)	208-3-60	40.8	270	40.8	270	2.1	30.0	6.7	9.6	None	-	-	-	143.6	175	153	703	153.2	175	164	713
										2EH04502525	18.8	1	52.1	208.9	225	213	703	218.5	225	224	713
										2EH04505025	37.6	2	104.3	229.6	250	233	703	239.2	250	244	713
										2EH04507525	56.3	2	156.2	241.5	250	243	703	251.1	300	254	713
	230-3-60	40.8	270	40.8	270	2.1	30.0	6.7	8.7	None	-	-	-	143.6	175	153	703	152.3	175	163	712
										2EH04502525	23.0	1	57.7	215.7	225	220	703	224.4	250	230	712
										2EH04505025	45.9	2	115.2	238.7	250	241	703	247.4	250	251	712
										2EH04507525	68.9	2	172.9	251.6	300	253	703	260.3	300	263	712
	460-3-60	19.4	147	19.4	147	1.1	14.3	3.4	4.3	None	-	-	-	69.2	80	74	377	73.5	90	79	381
										2EH04502546	23.0	1	28.8	105.3	110	107	377	109.6	110	112	381
										2EH04505046	45.9	2	57.6	116.7	125	118	377	121.0	125	123	381
										2EH04507546	68.9	2	86.4	123.2	125	124	377	127.5	150	129	381
	575-3-60	13.7	109	13.7	109	0.9	11.5	2.7	3.5	None	-	-	-	51.3	60	55	280	54.8	60	59	284
										2EH04502558	23.0	1	23.0	80.2	90	82	280	83.7	90	86	284
										2EH04505058	45.9	2	46.0	89.3	90	90	280	92.8	100	94	284
										2EH04507558	68.9	2	69.1	94.5	100	99	280	98.0	100	103	284

2 stage high static without power exhaust

Table 50: 2 stage high static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) / FLA	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (Amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
WV13 (12.5)	208-3-60	22.4	166.2	22.4	190	2.1	7.4	9.6	None	-	-	-	69.4	90	73	381	79.0	100	84	391
									2EL04502525	18.8	1	52.1	134.7	150	133	381	144.3	150	144	391
									2EL04505025	37.6	2	104.3	155.4	175	152	381	165.0	175	164	391
									2EL04507525	56.3	2	156.2	174.7	200	197	381	186.7	200	208	391
	230-3-60	22.4	166.2	22.4	190	2.1	6.9	8.7	None	-	-	-	68.4	90	72	380	77.1	90	82	389
									2EL04502525	23.0	1	57.7	140.5	150	139	380	149.2	150	149	389
									2EL04505025	45.9	2	115.2	163.5	175	160	380	172.2	175	170	389
									2EL04507525	68.9	2	172.9	190.2	200	215	380	201.0	225	225	389
	460-3-60	8.8	74.6	11.5	100	1.1	3.4	4.3	None	-	-	-	32.2	40	34	187	36.5	45	39	191
									2EL04502546	23.0	1	28.8	68.3	70	67	187	72.6	80	72	191
									2EL04505046	45.9	2	57.6	80.5	90	77	187	85.9	90	82	191
									2EL04507546	68.9	2	86.4	94.9	100	107	187	100.3	110	112	191
	575-3-60	7.2	54	9.0	72	0.9	3.2	3.5	None	-	-	-	26.7	35	28	136	30.2	35	32	140
									2EL04502558	23.0	1	23.0	55.5	60	55	136	59.0	60	59	140
									2EL04505058	45.9	2	46.0	65.5	70	63	136	69.9	70	67	140
									2EL04507558	68.9	2	69.1	77.1	80	87	136	81.5	90	91	140
WV15 (15)	208-3-60	27.7	178.5	27.7	178.5	2.0	7.4	9.6	None	-	-	-	85.1	110	90	389	94.7	110	101	399
									2EL04502525	18.8	1	52.1	150.4	175	150	389	160.0	175	161	399
									2EL04505025	37.6	2	104.3	171.1	175	169	389	180.7	200	180	399
									2EL04507525	56.3	2	156.2	183.0	200	197	389	192.6	200	208	399
	230-3-60	27.7	178.5	27.7	178.5	2.3	6.9	8.7	None	-	-	-	85.3	110	90	390	94.0	110	100	399
									2EL04502525	23.0	1	57.7	157.5	175	157	390	166.2	175	167	399
									2EL04505025	45.9	2	115.2	180.5	200	178	390	189.2	200	188	399
									2EL04507525	68.9	2	172.9	193.3	200	215	390	202.0	225	225	399
	460-3-60	11.5	103	11.5	103	1.3	3.4	4.3	None	-	-	-	37.9	45	40	224	42.2	50	45	229
									2EL04502546	23.0	1	28.8	74.0	80	73	224	78.3	80	78	229
									2EL04505046	45.9	2	57.6	85.4	90	84	224	89.7	90	89	229
									2EL04507546	68.9	2	86.4	94.9	100	107	224	100.3	110	112	229
	575-3-60	9.0	78	9.0	78	1.0	3.2	3.5	None	-	-	-	30.7	35	33	172	34.2	40	37	175
									2EL04502558	23.0	1	23.0	59.5	60	59	172	63.0	70	63	175
									2EL04505058	45.9	2	46.0	68.7	70	68	172	72.2	80	72	175
									2EL04507558	68.9	2	69.1	77.1	80	87	172	81.5	90	91	175
WV20 (20)	208-3-60	28.5	255	33.3	255	2.0	12.0	9.6	None	-	-	-	102.1	125	108	552	111.7	125	119	561
									2EL04502525	18.8	1	52.1	167.4	175	168	552	177.0	200	179	561
									2EL04505025	37.6	2	104.3	188.1	200	187	552	197.7	200	198	561
									2EL04507525	56.3	2	156.2	200.0	200	207	552	209.6	225	218	561
	230-3-60	28.5	255	33.3	255	2.3	10.9	8.7	None	-	-	-	101.1	125	107	551	109.8	125	117	560
									2EL04502525	23.0	1	57.7	173.3	175	173	551	182.0	200	183	560
									2EL04505025	45.9	2	115.2	196.3	200	194	551	205.0	225	204	560
									2EL04507525	68.9	2	172.9	209.1	225	224	551	217.8	225	234	560
	460-3-60	13.5	123	15.4	140	1.3	5.7	4.3	None	-	-	-	49.4	60	52	286	53.7	60	57	290
									2EL04502546	23.0	1	28.8	85.5	90	86	286	89.8	90	91	290
									2EL04505046	45.9	2	57.6	96.9	100	96	286	101.2	110	101	290
									2EL04507546	68.9	2	86.4	103.4	110	112	286	107.7	110	117	290
	575-3-60	10.7	93.7	12.9	107.6	1.0	4.8	3.5	None	-	-	-	40.4	50	43	220	43.9	50	47	224
									2EL04502558	23.0	1	23.0	69.3	70	69	220	72.8	80	73	224
									2EL04505058	45.9	2	46.0	78.4	80	78	220	81.9	90	82	224
									2EL04507558	68.9	2	69.1	83.6	90	91	220	87.1	90	95	224

Table 50: 2 stage high static without power exhaust

Size (tons)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (Amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA				Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
WV25 (25)	208-3-60	40.8	270	40.8	270	2.1	12.0	9.6	None	-	-	-	124.2	150	131	584	133.8	150	142	594
									2EL04502525	18.8	1	52.1	189.5	200	191	584	199.1	225	202	594
									2EL04505025	37.6	2	104.3	210.2	225	210	584	219.8	225	221	594
									2EL04507525	56.3	2	156.2	222.1	225	221	584	231.7	250	232	594
	230-3-60	40.8	270	40.8	270	2.1	10.9	8.7	None	-	-	-	122.0	150	129	582	130.7	150	139	591
									2EL04502525	23.0	1	57.7	194.1	200	195	582	202.8	225	205	591
									2EL04505025	45.9	2	115.2	217.1	225	216	582	225.8	250	226	591
									2EL04507525	68.9	2	172.9	230.0	250	228	582	238.7	250	238	591
	460-3-60	19.4	147	19.4	147	1.1	5.7	4.3	None	-	-	-	59.5	70	63	317	63.8	80	68	321
									2EL04502546	23.0	1	28.8	95.6	100	96	317	99.9	110	101	321
									2EL04505046	45.9	2	57.6	107.0	110	106	317	111.3	125	111	321
									2EL04507546	68.9	2	86.4	113.5	125	112	317	117.8	125	117	321
	575-3-60	13.7	109	13.7	109	0.9	4.8	3.5	None	-	-	-	44.0	50	47	236	47.5	60	51	239
									2EL04502558	23.0	1	23.0	72.9	80	73	236	76.4	80	77	239
									2EL04505058	45.9	2	46.0	82.0	90	82	236	85.5	90	86	239
									2EL04507558	68.9	2	69.1	87.2	90	91	236	90.7	100	95	239

2 stage high static with on/off power exhaust

Table 51: 2 stage high static with on/off power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	Pwr Exh motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
WV13 (12.5)	208-3-60	22.4	166.2	22.4	190	2.1	7.4	5.0	9.6	None	-	-	-	79.4	100	85	402	89.0	110	96	412
										2EL04502525	18.8	1	52.1	144.7	150	145	402	154.3	175	156	412
										2EL04505025	37.6	2	104.3	165.4	175	164	402	175.0	175	175	412
										2EL04507525	56.3	2	156.2	187.2	200	208	402	199.2	200	219	412
	230-3-60	22.4	166.2	22.4	190	2.1	6.9	5.0	8.7	None	-	-	-	78.4	100	84	401	87.1	100	94	410
										2EL04502525	23.0	1	57.7	150.5	175	150	401	159.2	175	160	410
										2EL04505025	45.9	2	115.2	173.8	175	171	401	184.6	200	181	410
										2EL04507525	68.9	2	172.9	202.7	225	226	401	213.5	225	236	410
	460-3-60	8.8	74.6	11.5	100	1.1	3.4	2.2	4.3	None	-	-	-	36.6	45	39	196	40.9	50	44	201
										2EL04502546	23.0	1	28.8	72.7	80	72	196	77.0	80	77	201
										2EL04505046	45.9	2	57.6	86.0	90	82	196	91.4	100	87	201
										2EL04507546	68.9	2	86.4	100.4	110	112	196	105.8	110	117	201
575-3-60	7.2	54	9.0	72	0.9	3.2	1.5	3.5	None	-	-	-	29.7	35	32	143	33.2	40	36	146	
									2EL04502558	23.0	1	23.0	58.5	60	58	143	62.0	70	62	146	
									2EL04505058	45.9	2	46.0	69.3	70	66	143	73.6	80	70	146	
									2EL04507558	68.9	2	69.1	80.9	90	90	143	85.2	90	94	146	
WV15 (15)	208-3-60	27.7	178.5	27.7	178.5	2.0	7.4	5.0	9.6	None	-	-	-	95.1	110	101	410	104.7	125	112	420
										2EL04502525	18.8	1	52.1	160.4	175	161	410	170.0	175	173	420
										2EL04505025	37.6	2	104.3	181.1	200	181	410	190.7	200	192	420
										2EL04507525	56.3	2	156.2	193.0	200	208	410	202.6	225	219	420
	230-3-60	27.7	178.5	27.7	178.5	2.3	6.9	5.0	8.7	None	-	-	-	95.3	110	102	411	104.0	125	112	420
										2EL04502525	23.0	1	57.7	167.5	175	168	411	176.2	200	178	420
										2EL04505025	45.9	2	115.2	190.5	200	189	411	199.2	200	199	420
										2EL04507525	68.9	2	172.9	203.3	225	226	411	213.5	225	236	420
	460-3-60	11.5	103	11.5	103	1.3	3.4	2.2	4.3	None	-	-	-	42.3	50	45	234	46.6	50	50	238
										2EL04502546	23.0	1	28.8	78.4	80	79	234	82.7	90	83	238
										2EL04505046	45.9	2	57.6	89.8	90	89	234	94.1	100	94	238
										2EL04507546	68.9	2	86.4	100.4	110	112	234	105.8	110	117	238
575-3-60	9.0	78	9.0	78	1.0	3.2	1.5	3.5	None	-	-	-	33.7	40	36	178	37.2	45	40	182	
									2EL04502558	23.0	1	23.0	62.5	70	63	178	66.0	70	67	182	
									2EL04505058	45.9	2	46.0	71.7	80	71	178	75.2	80	75	182	
									2EL04507558	68.9	2	69.1	80.9	90	90	178	85.2	90	94	182	
WV20 (20)	208-3-60	28.5	255	33.3	255	2.0	12.0	5.0	9.6	None	-	-	-	112.1	125	119	573	121.7	150	130	582
										2EL04502525	18.8	1	52.1	177.4	200	179	573	187.0	200	190	582
										2EL04505025	37.6	2	104.3	198.1	200	198	573	207.7	225	210	582
										2EL04507525	56.3	2	156.2	210.0	225	219	573	219.6	225	230	582
	230-3-60	28.5	255	33.3	255	2.3	10.9	5.0	8.7	None	-	-	-	111.1	125	118	572	119.8	150	128	581
										2EL04502525	23.0	1	57.7	183.3	200	185	572	192.0	200	195	581
										2EL04505025	45.9	2	115.2	206.3	225	206	572	215.0	225	216	581
										2EL04507525	68.9	2	172.9	219.1	225	235	572	227.8	250	245	581
	460-3-60	13.5	123	15.4	140	1.3	5.7	2.2	4.3	None	-	-	-	53.8	60	57	295	58.1	70	62	300
										2EL04502546	23.0	1	28.8	89.9	90	91	295	94.2	100	96	300
										2EL04505046	45.9	2	57.6	101.3	110	101	295	105.6	110	106	300
										2EL04507546	68.9	2	86.4	107.8	110	118	295	112.1	125	122	300
575-3-60	10.7	93.7	12.9	107.6	1.0	4.8	1.5	3.5	None	-	-	-	43.4	50	46	227	46.9	50	50	230	
									2EL04502558	23.0	1	23.0	72.3	80	73	227	75.8	80	77	230	
									2EL04505058	45.9	2	46.0	81.4	90	81	227	84.9	90	85	230	
									2EL04507558	68.9	2	69.1	86.6	90	94	227	90.1	100	98	230	

Table 51: 2 stage high static with on/off power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	Pwr Exh motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
WV25 (25)	208-3-60	40.8	270	40.8	270	2.1	12.0	5.0	9.6	None	-	-	-	134.2	175	143	605	143.8	175	154	615
										2EL04502525	18.8	1	52.1	199.5	225	203	605	209.1	225	214	615
										2EL04505025	37.6	2	104.3	220.2	225	222	605	229.8	250	233	615
										2EL04507525	56.3	2	156.2	232.1	250	233	605	241.7	250	244	615
	230-3-60	40.8	270	40.8	270	2.1	10.9	5.0	8.7	None	-	-	-	132.0	150	140	603	140.7	175	150	612
										2EL04502525	23.0	1	57.7	204.1	225	206	603	212.8	225	216	612
										2EL04505025	45.9	2	115.2	227.1	250	228	603	235.8	250	238	612
										2EL04507525	68.9	2	172.9	240.0	250	239	603	248.7	250	249	612
	460-3-60	19.4	147	19.4	147	1.1	5.7	2.2	4.3	None	-	-	-	63.9	80	68	326	68.2	80	73	330
										2EL04502546	23.0	1	28.8	100.0	110	101	326	104.3	110	106	330
										2EL04505046	45.9	2	57.6	111.4	125	112	326	115.7	125	116	330
										2EL04507546	68.9	2	86.4	117.9	125	118	326	122.2	125	122	330
	575-3-60	13.7	109	13.7	109	0.9	4.8	1.5	3.5	None	-	-	-	47.0	60	50	242	50.5	60	54	246
										2EL04502558	23.0	1	23.0	75.9	80	77	242	79.4	80	81	246
										2EL04505058	45.9	2	46.0	85.0	90	85	242	88.5	90	89	246
										2EL04507558	68.9	2	69.1	90.2	100	94	242	93.7	100	98	246

2 stage high static with mod power exhaust

Table 52: 2 stage high static with mod power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	Pwr Exh motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
WV13 (12.5)	208-3-60	22.4	166.2	22.4	190	2.1	7.4	6.7	9.6	None	-	-	-	82.8	100	89	394	92.4	110	100	404
										2EL04502525	18.8	1	52.1	148.1	150	149	394	157.7	175	160	404
										2EL04505025	37.6	2	104.3	168.8	175	168	394	178.4	200	179	404
										2EL04507525	56.3	2	156.2	191.5	200	212	394	203.5	225	223	404
	230-3-60	22.4	166.2	22.4	190	2.1	6.9	6.7	8.7	None	-	-	-	81.8	100	88	393	90.5	110	98	402
										2EL04502525	23.0	1	57.7	153.9	175	154	393	162.6	175	164	402
										2EL04505025	45.9	2	115.2	178.0	200	175	393	188.9	200	185	402
										2EL04507525	68.9	2	172.9	206.9	225	230	393	217.8	225	240	402
	460-3-60	8.8	74.6	11.5	100	1.1	3.4	3.4	4.3	None	-	-	-	39.0	50	42	194	43.3	50	46	198
										2EL04502546	23.0	1	28.8	75.1	80	75	194	79.4	80	80	198
										2EL04505046	45.9	2	57.6	89.0	90	85	194	94.4	100	90	198
										2EL04507546	68.9	2	86.4	103.4	110	115	194	108.8	110	120	198
575-3-60	7.2	54	9.0	72	0.9	3.2	2.7	3.5	None	-	-	-	32.1	40	34	142	35.6	40	38	145	
									2EL04502558	23.0	1	23.0	60.9	70	61	142	64.4	70	65	145	
									2EL04505058	45.9	2	46.0	72.3	80	69	142	76.6	80	73	145	
									2EL04507558	68.9	2	69.1	83.9	90	93	142	88.2	90	97	145	
WV15 (15)	208-3-60	27.7	178.5	27.7	178.5	2.0	7.4	6.7	9.6	None	-	-	-	98.5	125	105	403	108.1	125	116	412
										2EL04502525	18.8	1	52.1	163.8	175	165	403	173.4	175	176	412
										2EL04505025	37.6	2	104.3	184.5	200	184	403	194.1	200	196	412
										2EL04507525	56.3	2	156.2	196.4	200	212	403	206.0	225	223	412
	230-3-60	27.7	178.5	27.7	178.5	2.3	6.9	6.7	8.7	None	-	-	-	98.7	125	106	404	107.4	125	116	413
										2EL04502525	23.0	1	57.7	170.9	175	172	404	179.6	200	182	413
										2EL04505025	45.9	2	115.2	193.9	200	193	404	202.6	225	203	413
										2EL04507525	68.9	2	172.9	206.9	225	230	404	217.8	225	240	413
	460-3-60	11.5	103	11.5	103	1.3	3.4	3.4	4.3	None	-	-	-	44.7	50	48	231	49.0	60	53	236
										2EL04502546	23.0	1	28.8	80.8	90	81	231	85.1	90	86	236
										2EL04505046	45.9	2	57.6	92.2	100	92	231	96.5	100	97	236
										2EL04507546	68.9	2	86.4	103.4	110	115	231	108.8	110	120	236
575-3-60	9.0	78	9.0	78	1.0	3.2	2.7	3.5	None	-	-	-	36.1	45	39	177	39.6	45	43	181	
									2EL04502558	23.0	1	23.0	64.9	70	65	177	68.4	70	69	181	
									2EL04505058	45.9	2	46.0	74.1	80	74	177	77.6	80	78	181	
									2EL04507558	68.9	2	69.1	83.9	90	93	177	88.2	90	97	181	
WV20 (20)	208-3-60	28.5	255	33.3	255	2.0	12.0	6.7	9.6	None	-	-	-	115.5	125	123	565	125.1	150	134	575
										2EL04502525	18.8	1	52.1	180.8	200	183	565	190.4	200	194	575
										2EL04505025	37.6	2	104.3	201.5	225	202	565	211.1	225	213	575
										2EL04507525	56.3	2	156.2	213.4	225	223	565	223.0	225	234	575
	230-3-60	28.5	255	33.3	255	2.3	10.9	6.7	8.7	None	-	-	-	114.5	125	122	565	123.2	150	132	574
										2EL04502525	23.0	1	57.7	186.7	200	188	565	195.4	200	198	574
										2EL04505025	45.9	2	115.2	209.7	225	210	565	218.4	225	220	574
										2EL04507525	68.9	2	172.9	222.5	225	239	565	231.2	250	249	574
	460-3-60	13.5	123	15.4	140	1.3	5.7	3.4	4.3	None	-	-	-	56.2	70	60	293	60.5	70	65	297
										2EL04502546	23.0	1	28.8	92.3	100	93	293	96.6	100	98	297
										2EL04505046	45.9	2	57.6	103.7	110	104	293	108.0	110	109	297
										2EL04507546	68.9	2	86.4	110.2	125	120	293	114.5	125	125	297
575-3-60	10.7	93.7	12.9	107.6	1.0	4.8	2.7	3.5	None	-	-	-	45.8	50	49	226	49.3	60	53	229	
									2EL04502558	23.0	1	23.0	74.7	80	76	226	78.2	80	80	229	
									2EL04505058	45.9	2	46.0	83.8	90	84	226	87.3	90	88	229	
									2EL04507558	68.9	2	69.1	89.0	90	97	226	92.5	100	101	229	

Table 52: 2 stage high static with mod power exhaust

Size (ton)	Nominal unit voltage	Comp. 1		Comp. 2		OD fan motors (each) FLA	Supply blower motor FLA	Pwr Exh motor FLA	120 V trans FLA	Electric heat option field installed kit				MCA (amps)	Max f/b size (amps)	Min disconnect rating		MCA w/ 120 V trans (amps)	Max f/b size w/ 120 V trans (amps)	Min disconnect rating 120 V	
		RLA	LRA	RLA	LRA					Model	kW	Stages	Amps			FLA	LRA			FLA	LRA
WV25 (25)	208-3-60	40.8	270	40.8	270	2.1	12.0	6.7	9.6	None	-	-	-	137.6	175	147	597	147.2	175	158	607
										2EL04502525	18.8	1	52.1	202.9	225	207	597	212.5	225	218	607
										2EL04505025	37.6	2	104.3	223.6	225	226	597	233.2	250	237	607
										2EL04507525	56.3	2	156.2	235.5	250	237	597	245.1	250	248	607
	230-3-60	40.8	270	40.8	270	2.1	10.9	6.7	8.7	None	-	-	-	135.4	175	144	595	144.1	175	154	604
										2EL04502525	23.0	1	57.7	207.5	225	210	595	216.2	225	220	604
										2EL04505025	45.9	2	115.2	230.5	250	231	595	239.2	250	242	604
										2EL04507525	68.9	2	172.9	243.4	250	243	595	252.1	300	253	604
	460-3-60	19.4	147	19.4	147	1.1	5.7	3.4	4.3	None	-	-	-	66.3	80	71	323	70.6	90	76	328
										2EL04502546	23.0	1	28.8	102.4	110	104	323	106.7	110	109	328
										2EL04505046	45.9	2	57.6	113.8	125	114	323	118.1	125	119	328
										2EL04507546	68.9	2	86.4	120.3	125	120	323	124.6	125	125	328
	575-3-60	13.7	109	13.7	109	0.9	4.8	2.7	3.5	None	-	-	-	49.4	60	53	241	52.9	60	57	245
										2EL04502558	23.0	1	23.0	78.3	80	79	241	81.8	90	83	245
										2EL04505058	45.9	2	46.0	87.4	90	88	241	90.9	100	92	245
										2EL04507558	68.9	2	69.1	92.6	100	97	241	96.1	100	101	245

Weights and dimensions

Figure 4: MD13 physical dimensions

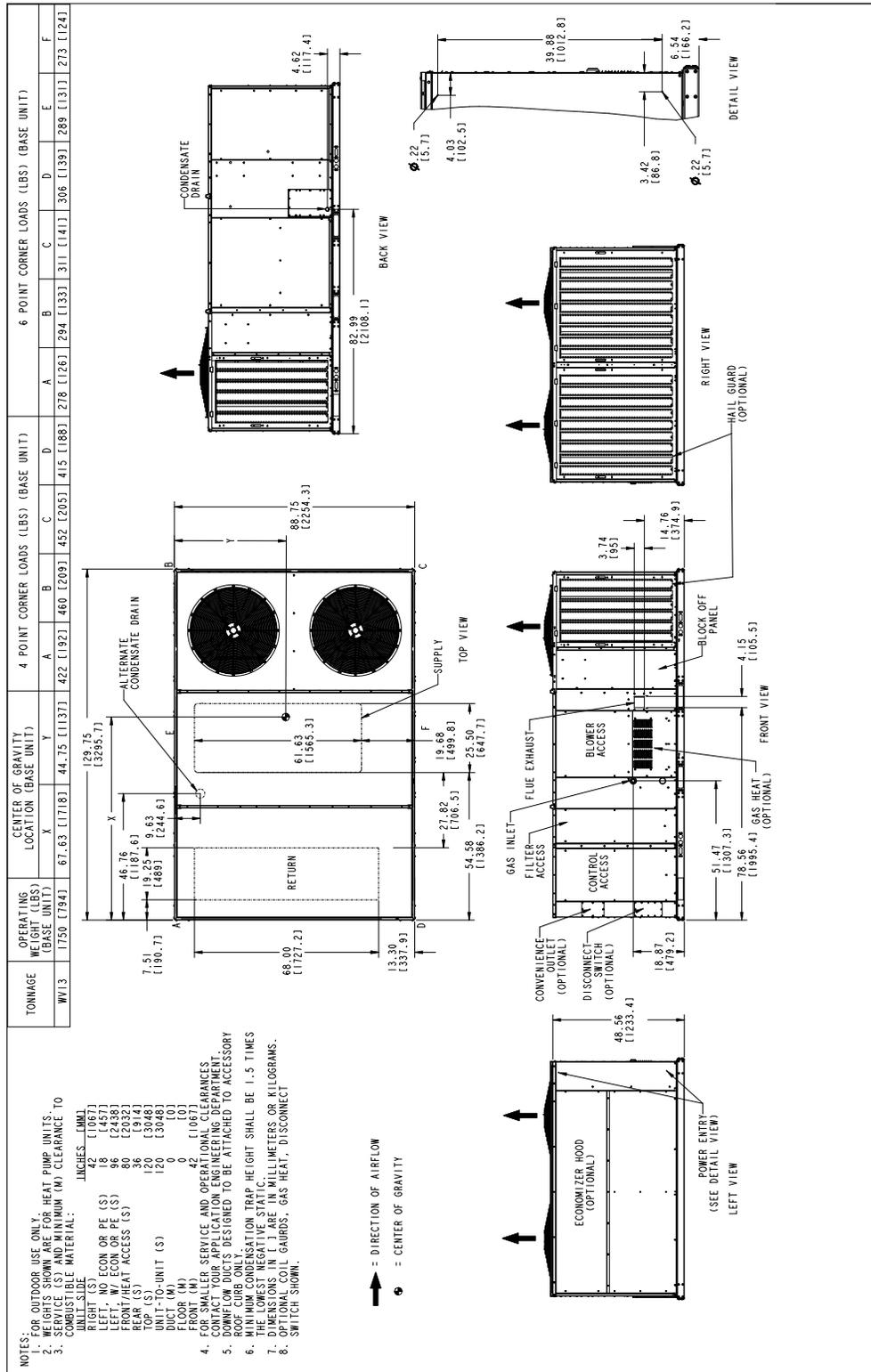


Figure 5: MD15 physical dimensions

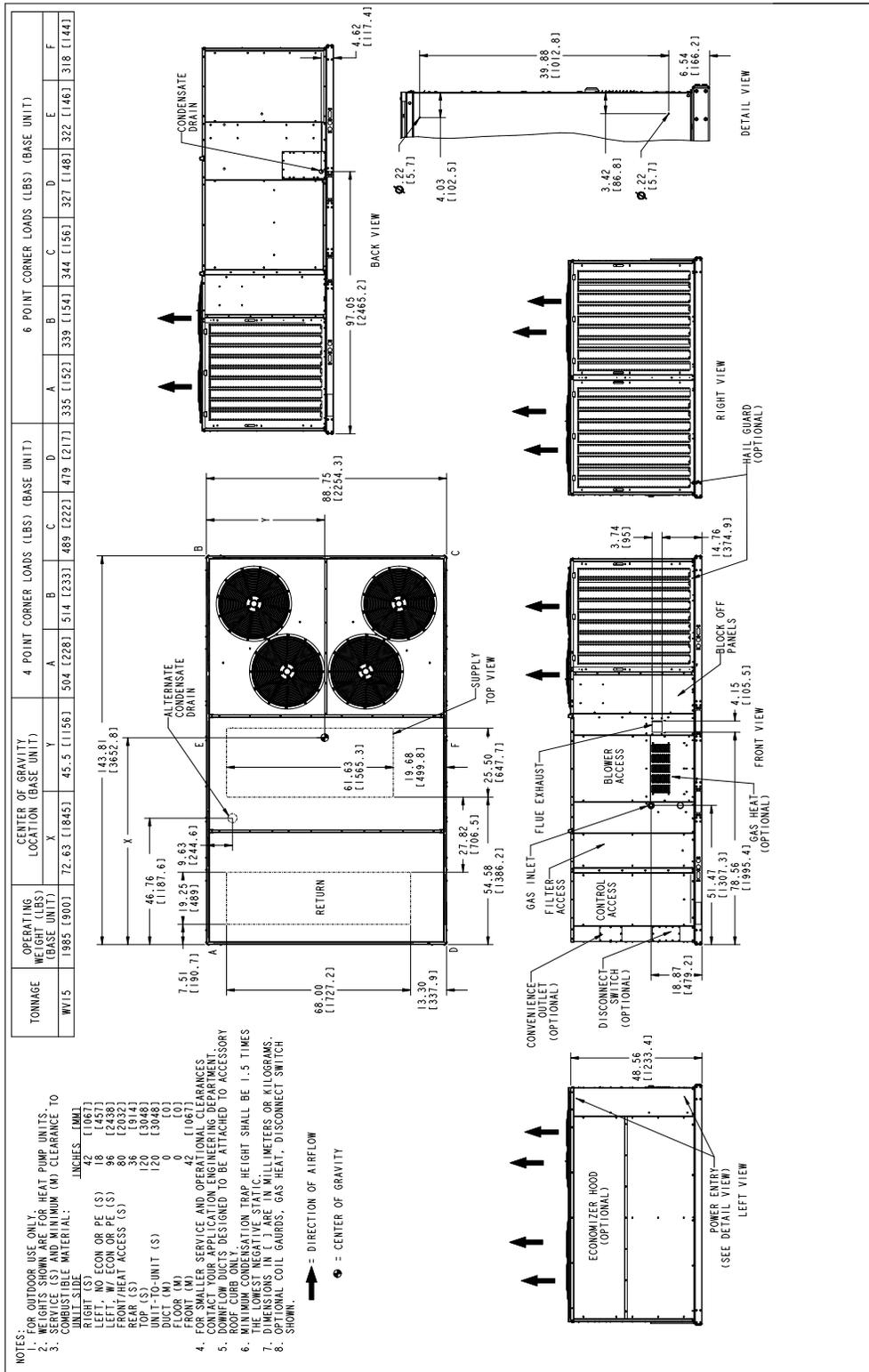


Figure 6: MD20 physical dimensions

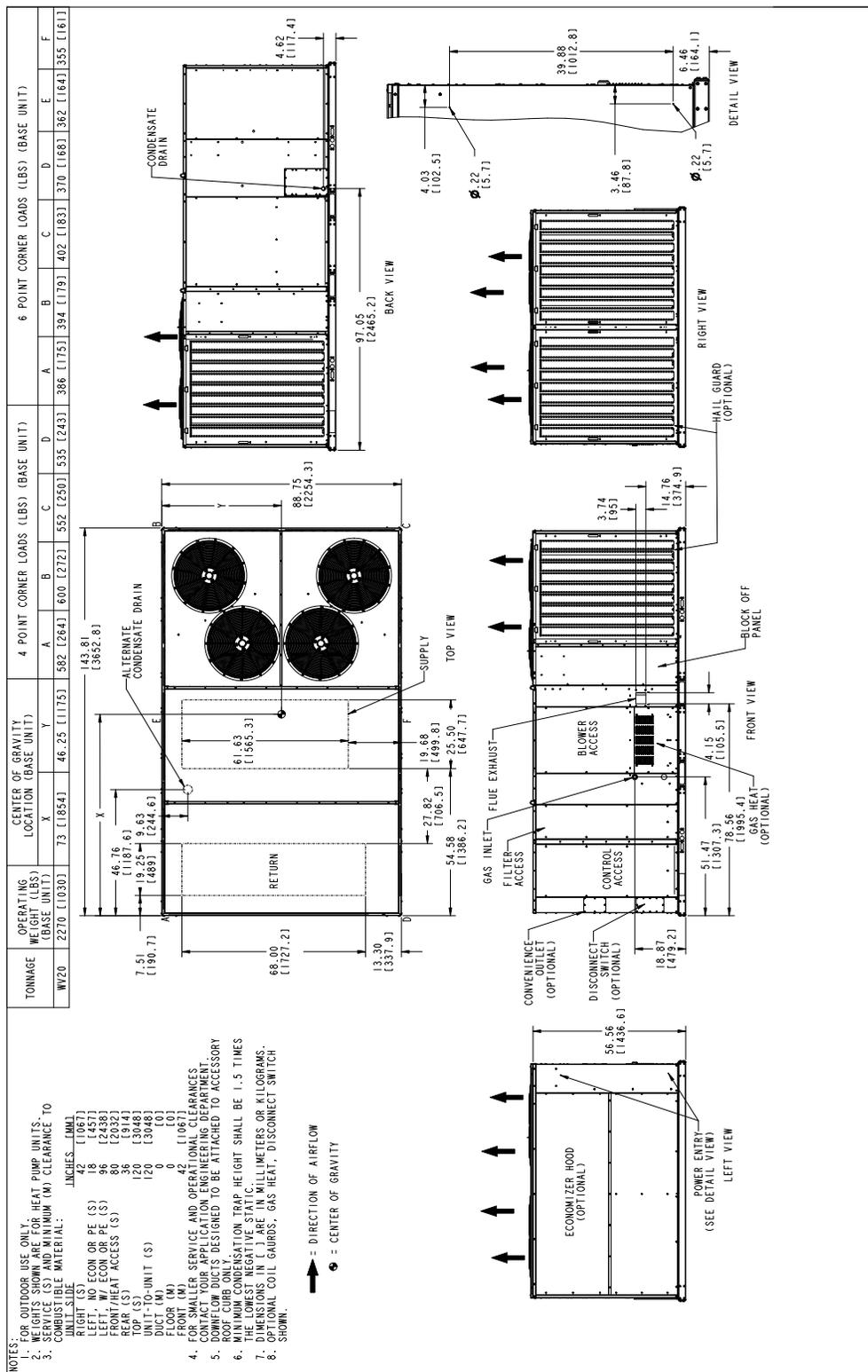
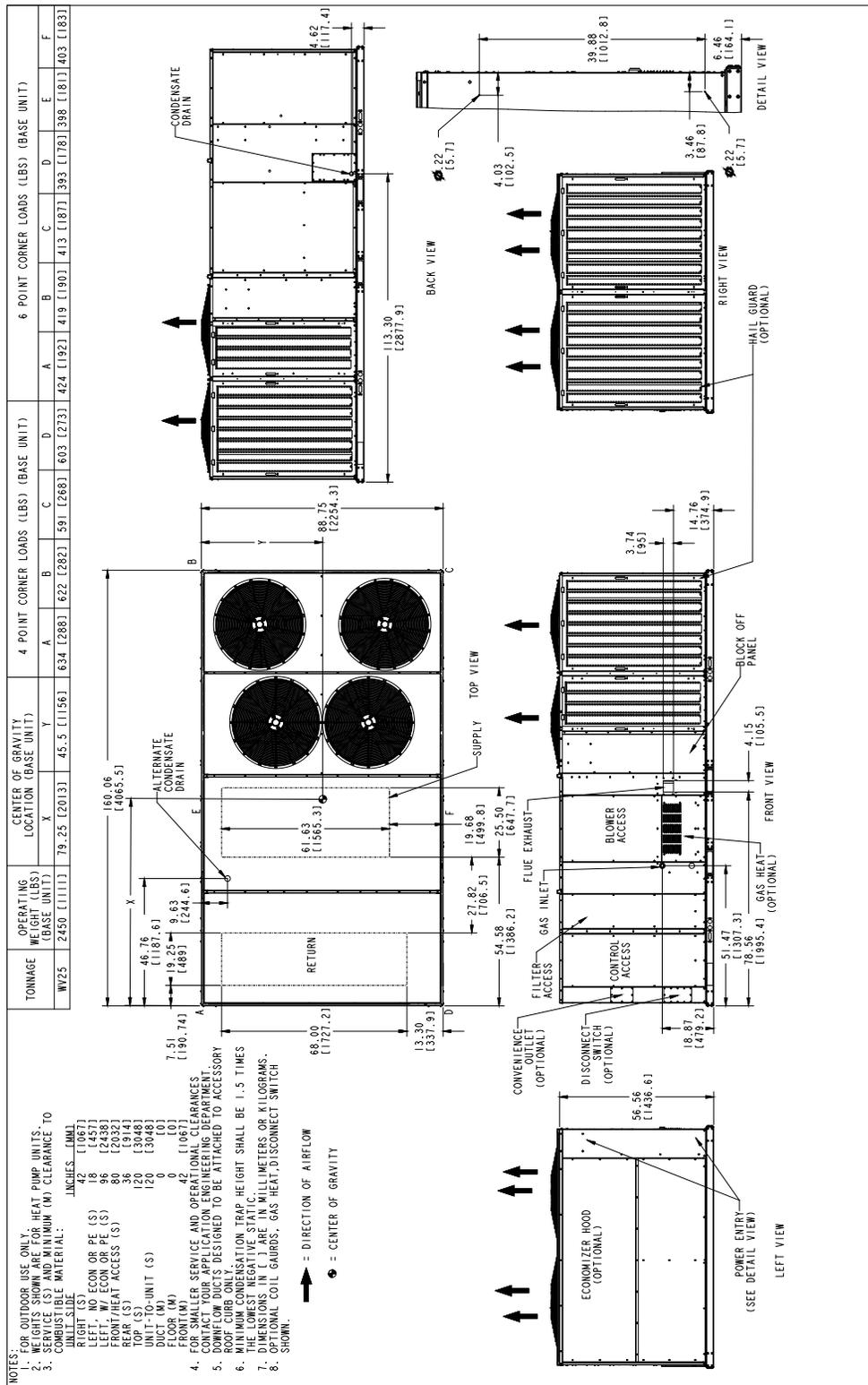
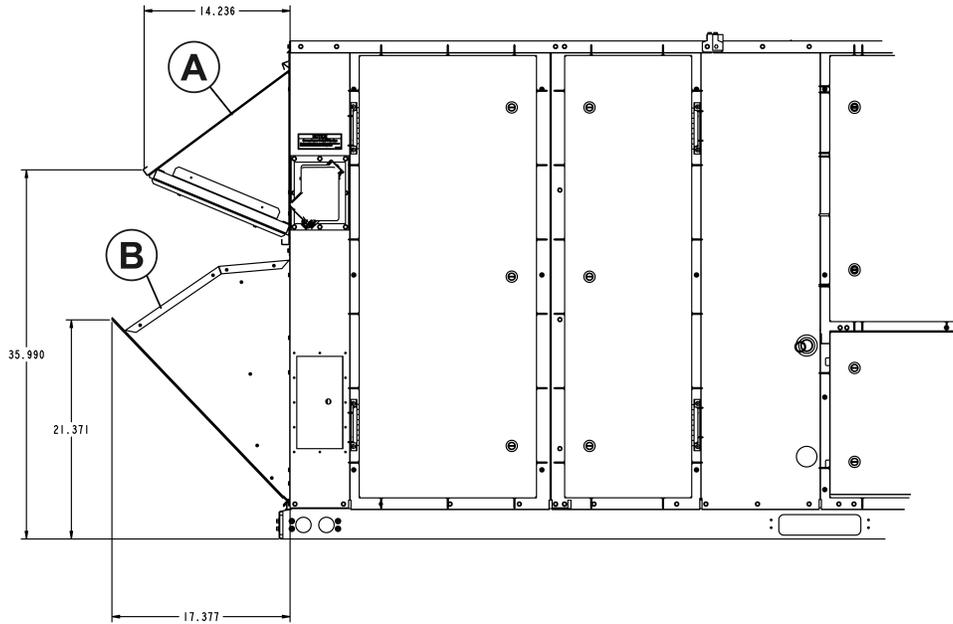


Figure 7: MD25 physical dimensions



Rain hood dimensions

Figure 8: Rain hood dimensions



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

Utilities entry

Table 53: Utilities entry

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

① Note:

1. Factory provided dimples show the hole location to facilitate the drilling of entry holes.
2. 3/4 in. NPT gas piping is required.
3. You must insert the piping through the factory-installed grommet for a watertight seal.
4. 1 in. NPT female connection piping is required.

① Note: You must field seal all entry holes to prevent rain water entry into the building.

Accessory weights

Table 54: Unit accessory weights

Unit accessory	Unit size			
	12.5 ton	15 ton	20 ton	25 ton
Economizer	145	145	165	165
Motorized damper	65	65	75	75
Power exhaust (CV, Std CFM)	170	170	170	170
Power exhaust (Mod, Std CFM)	212	212	212	212
Power exhaust (CV/Mod, Hi CFM)	450	450	450	450
Barometric damper	50	50	50	50
Electric heat, 75 kW	75	75	75	75
Gas heat, largest	155	155	155	155
Hail guards	80	86	107	132
Wood skid and shipping brackets	60	70	70	80
Roof curb	215	230	230	250

Roof curbs

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

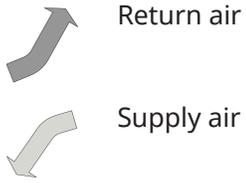


Figure 9: 1RC0443 and 1RC0446 roof curb dimensions

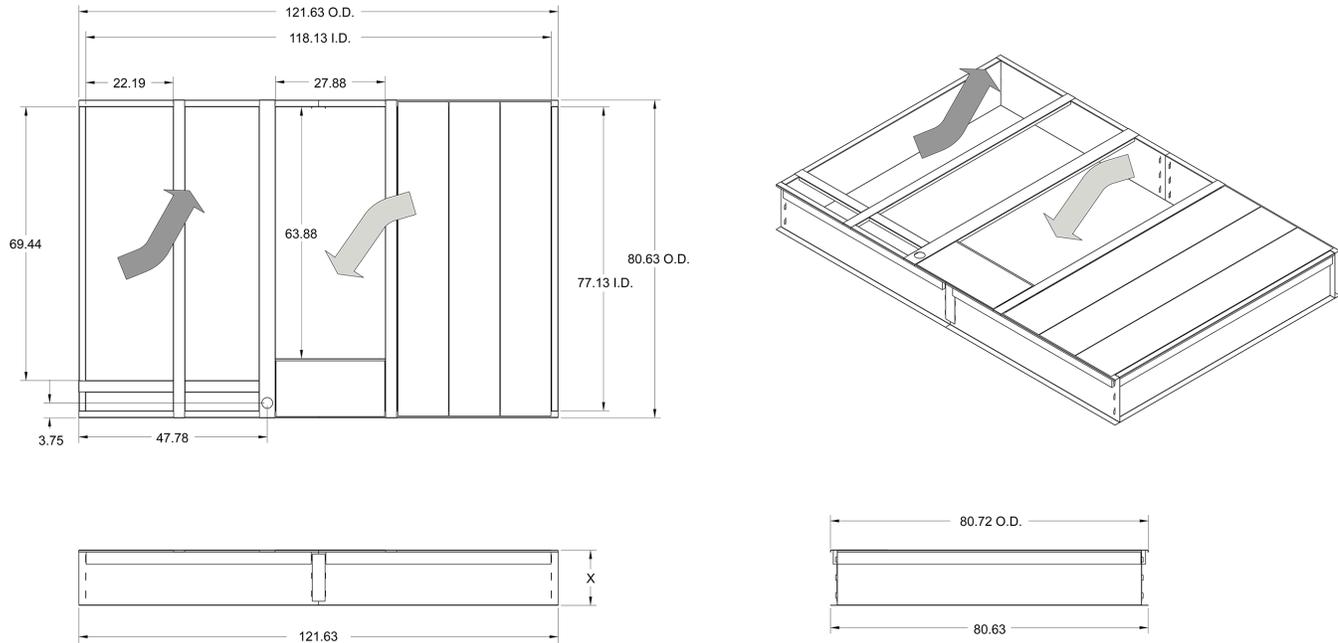


Table 55: 1RC0443 and 1RC0446 dimensions

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

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

- MD13

Figure 10: 1RC0444 and 1RC0447 roof curb dimensions

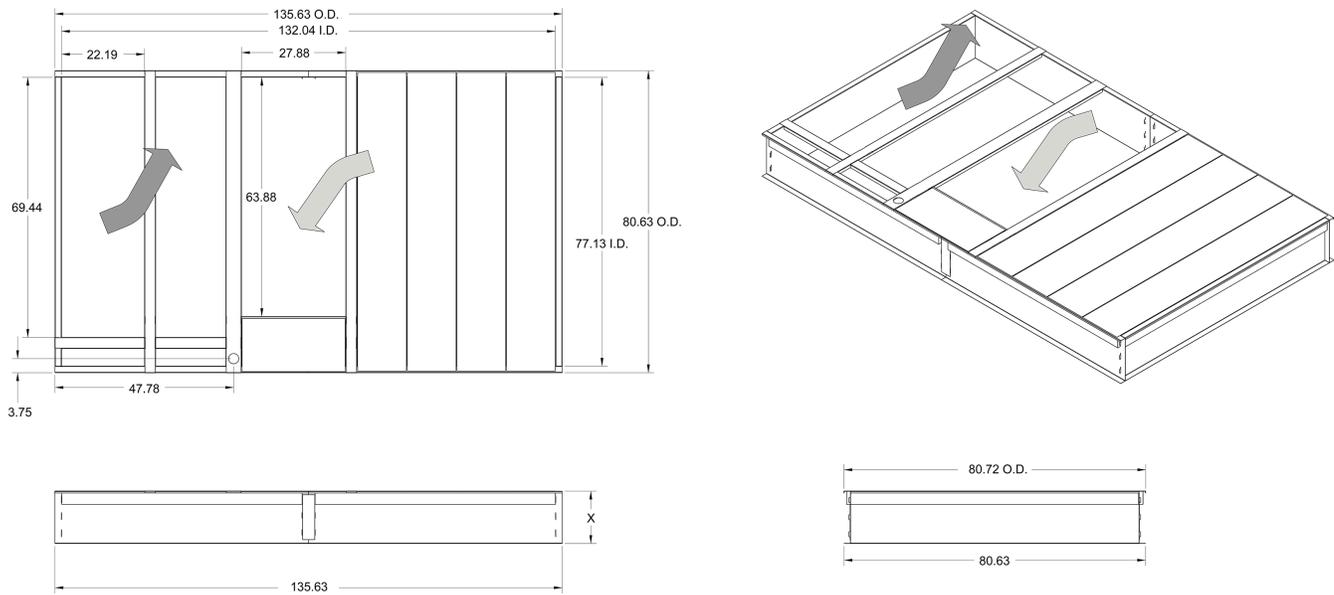


Table 56: 1RC0444 and 1RC0447 dimensions

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

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

- MD15
- MD20

Figure 11: 1RC0445 and 1RC0448 roof curb dimensions

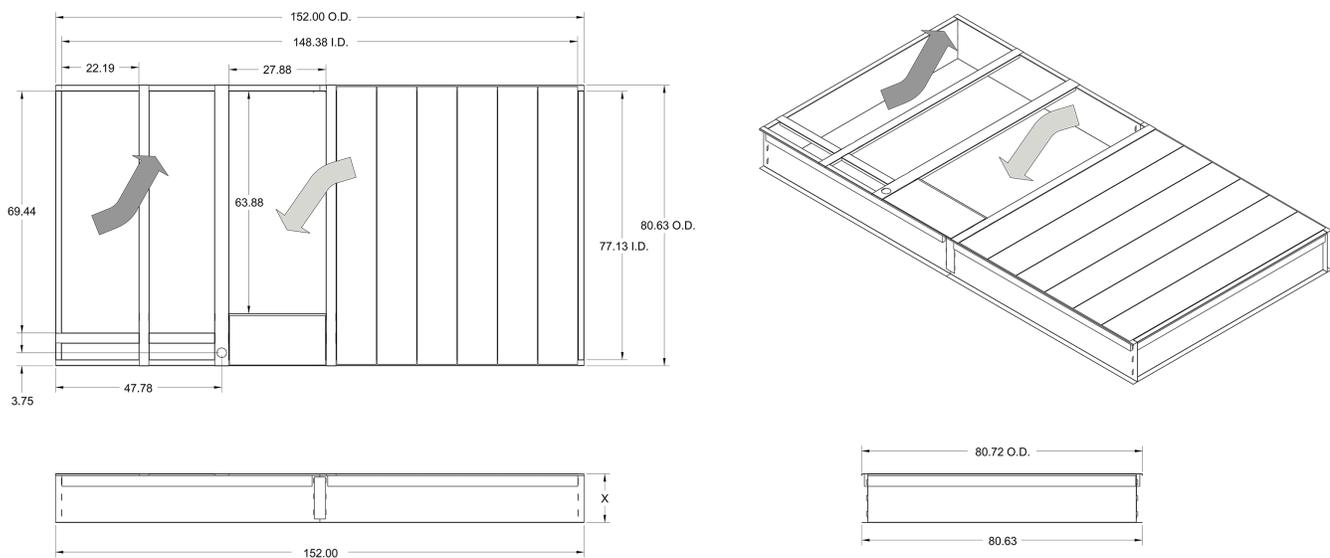


Table 57: 1RC0445 and 1RC0448 dimensions

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

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

- MD25

Figure 12: Roof curb cutaway

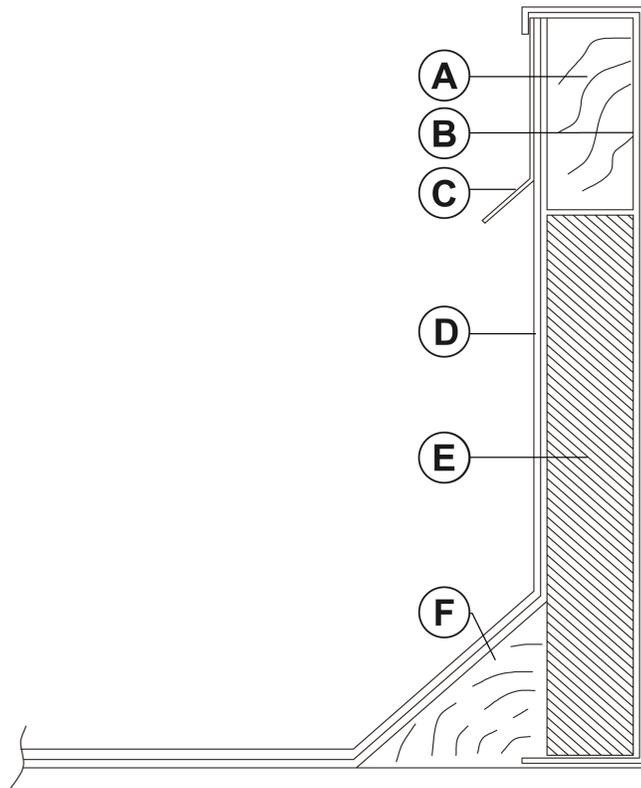


Table 58: Roof curb cutaway components

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

Economizer options

Figure 13: Economizer options



Table 59: Economizer components

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

Installing a typical unit

The following figures show the typical installations for the unit.

Figure 14: Roof jack installation

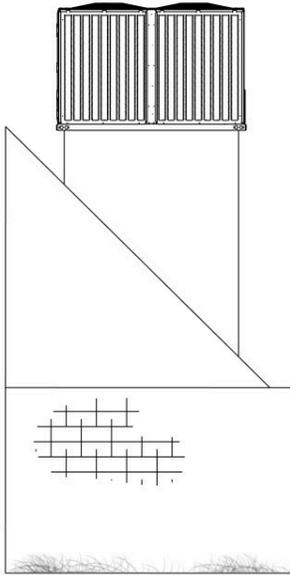


Figure 15: Roof curb installation

