# Technical Guide: YORK® Sun™ Pro WP Series, 6.5 ton to 12.5 ton, Heat Pump

## R-454B, 60 Hz

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# Description

**ASHRAE 90.1 Compliant**

YORK® Sun™ Pro units are convertible single packages with a common footprint cabinet and common roof curb for all 6.5 ton to 12.5 ton models. All units have two compressors with independent refrigeration circuits to provide two stages of cooling. The units were designed for light commercial applications and can be easily installed on a roof curb, slab, or frame.

All Sun™ Pro units are self-contained and assembled on rigid full perimeter base rails allowing for three-way forklift access and overhead rigging. Every unit is completely charged, wired, piped, and tested at the factory to provide a quick and easy field installation.

Sun™ Pro units in all tonnage sizes are convertible between side airflow and down airflow, with a corresponding economizer if you require an economizer option.

Sun™ Pro WP units are available in the following configurations:

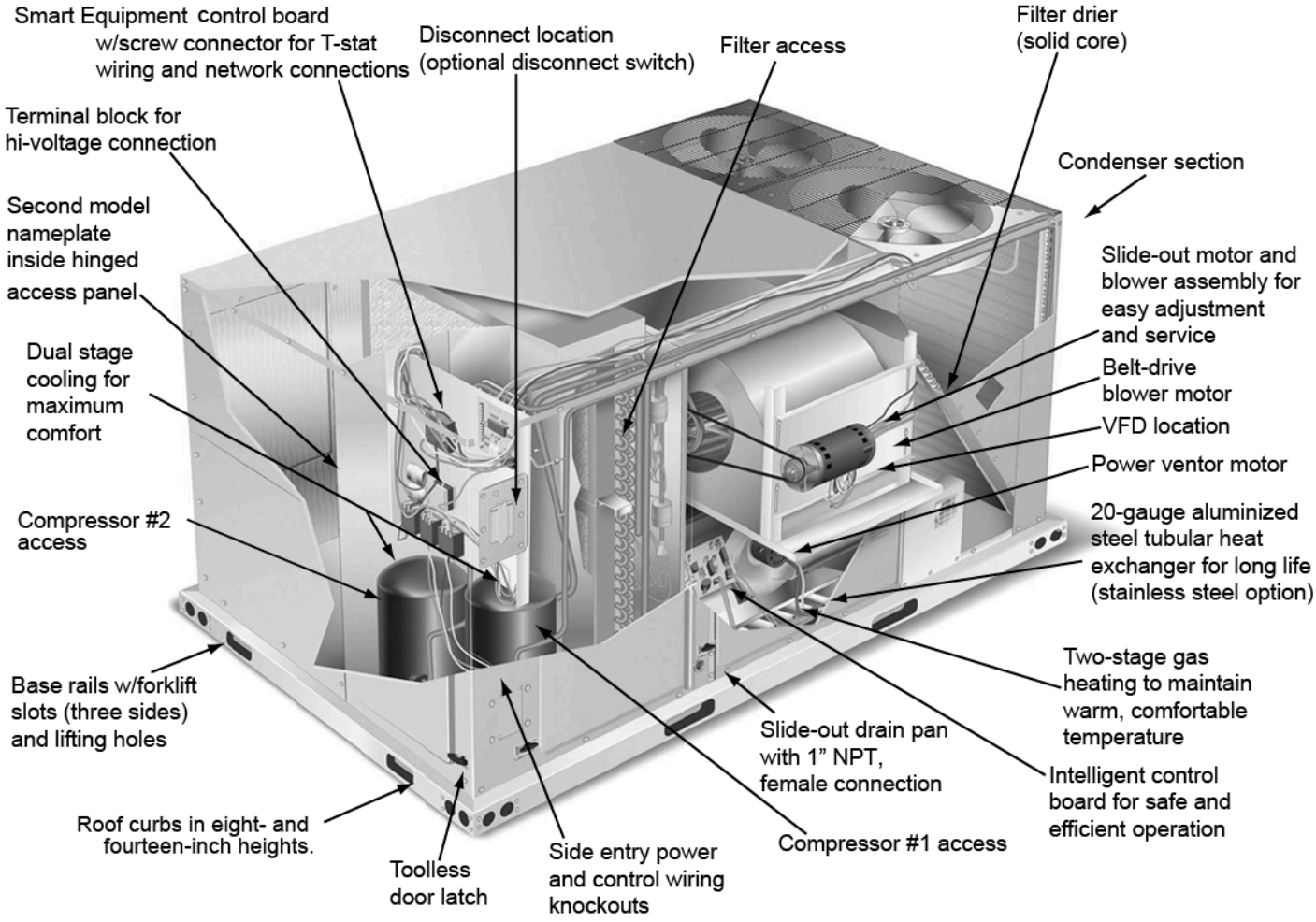
- heat pump
- heat pump with gas heat
- heat pump with hot gas reheat
- heat pump with electric heat

Electric heaters are available as factory-installed options or field-installed accessories.

Tested in accordance with:

# Component location

**Figure 1: Heat pump**



# Nomenclature

## 6.5-12.5 Ton Model Number Nomenclature

| W | P | 090 | C | 00 | A | 2 | A | 1 | A | A | A | 1 | A | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Product Category**
W = Pkg HP, R-454B

**Product Identifier**
P = Pkg HP Std Eff

**Nominal Cooling Capacity**
078 = 6.5 Ton
090 = 7.5 Ton
102 = 8.5 Ton
120 = 10.0 Ton
150 = 12.5 Ton

**Heat Type**
C = Cooling Only
E = Electric Heat
N = 2 Stage Gas Aluminized Steel
S = 2 Stage Gas Stainless Steel

**Heat Capacity**
00 = Cooling Only

Electric Heat (Unit Size Allowed)
09 = 9 KW (078,090,102)
18 = 18 KW (078,090,102,120,150)
24 = 24 KW (078,090,102,120,150)
36 = 36 KW (078,090,102,120,150)
54 = 54 KW (120,150)

Gas MBH Input (Unit Size Allowed)
12 = 120 MBH Input (078, 090, 102 )
18 = 180 MBH Input (078, 090, 102, 120, 150)
24 = 240 MBH Input (120, 150)

**Blower Option**
P = VFD IntelliSpeed Std Static
R = VFD IntelliSpeed High Static
S = VFD w/Byp IntelliSp Std Static
U = VFD w/Byp IntelliSp Hi Static
V = VFD Cust IntelliSp Std Static
X = VFD Cust IntelliSp Hi Static

**Voltage**
2 = 208/230-3-60
4 = 460-3-60
5 = 575-3-60

**Outdoor Air Option**
A = No Economizer
B = Economizer w/Barometric RLF
D = Economizer w/Power EXH
H = Motorized Damper

**Product Generation**
1 = First Generation

**Cabinet Options**
A = Std Cabinet
B = Condensate Overflow Switch (COF)
C = French Canada Shipment (FCS)
D = COF, FCS
E = SSD (SST Drain Pan)
F = COF, SSD
G = FCS, SSD
H = COF, SSD, FCS
R = Reverse Drain Pan
S = COF, RDP
T = FCS, RDP

**Additional Options**
1 = STD Throwaway Filter
2 = MERV 8
3 = MERV 13
4 = Coil Guard (CG), STD Filter
5 = MERV 8 Filter,CG
6 = MERV 13 Filter,CG
S = VFD Shaft Grounding Device (SGD), STD Filter
U = SGD, MERV 8
V = SGD, MERV 13
W = SGD, CG, STD Filter
X = SGD, MERV 8, CG
Y = SGD, MERV 13, CG

**Refrigeration**
A = Standard Refrigeration
B = ECC (E-Coat Cond Coil)
C = EEC (E-Coat Evap Coil)
E = REH (Hot Gas Reheat)
F = ECC,EEC
H = ECC, EEC, REH
L = ECC, REH
P = EEC, REH

**Controls Option**
A = Stand Alone Smart Equipment
C = BACnet MSTP,Mdbs,N2 COM Card
U = SkyQ Single Zone w/ Bluetooth
V = SkyQ Changeover Bypass w/ Bluetooth
W = SkyQ VAV w/ Bluetooth

**Sensors**
A = No Sensors
B = PHM (Phase Monitor)
C = DFS (Dirty Filter Switch)
D = SSD (Supply Air Smoke DET)
E = RSD (Return Air Smoke DET)
F = PHM,DFS
G = PHM,SSD
H = PHM,RSD
J = DFS,SSD
K = DFS,RSD
L = SSD,RSD
M = PHM,DFS,SSD
N = PHM,DFS,RSD
P = PHM,SSD,RSD
Q = DFS,SSD,RSD
R = PHM,DFS,SSD,RSD

**Service Options**
1 = No Service Options
2 = DSC (Disconnect Switch)
3 = NCO (Non-PWR Conv. Outlet)
4 = PCO (Powered Conv. Outlet)
5 = DSC,NCO
6 = DSC,PCO

**RDS options**
A = RDS (Refrigerant detection system)
B = RDS and DSC
C = RDS and NCO
D = RDS and PCO
E = RDS, DSC and NCO
F = RDS, DSC and PCO

# Features and benefits

## Standard features

- **Service friendly**: The Sun™ Pro incorporates a number of key features for ease of serviceability.

  Service time is reduced through the use of hinged, toolless panels. The panels allow access to frequently inspected components and areas, including the control box, compressors, filters, indoor motor and blower, and the heating section. The panels are screwed in place at the factory to prevent access by children or other unauthorized persons. Secure the panels with screws once service is complete.

  Service windows have been placed in both condenser section walls. Rotate the cover to easily access the condenser coils for cleaning or inspection.

  The Smart Equipment control board provides alarm messages to help quickly identify any faults.

  All units use the same standard filter size. This standardization removes any confusion relating to which filter sizes are needed when changing the filter.

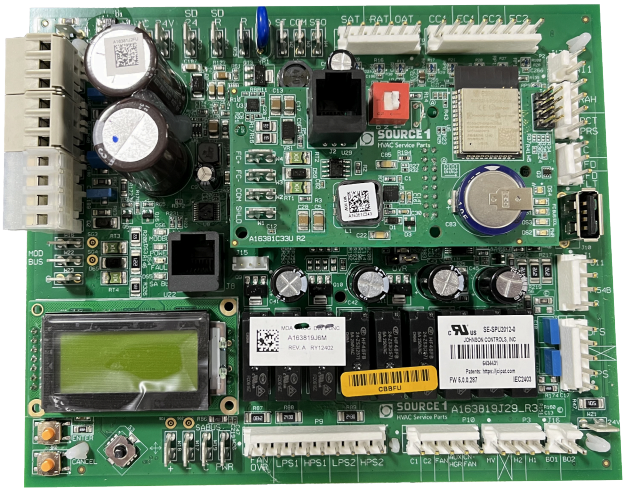
  The non-corrosive drain pan slides out of the unit for easy cleaning. The drain pan is accessed by removing the drain pan cover plate on the rear of the unit. With the plate removed, the drain pan slides out through the rear of the unit. The composite drain pan can also be ordered reversed from the factory with the connection at the rear of the unit.

  All Pro units have a second model nameplate located inside the control access door. This is to prevent deterioration of the nameplate through weathering.
- **Environmentally aware**: For improved indoor air quality, a combination of aluminum foil faced and elastometric rubber insulation is used exclusively throughout the units.
- **Convertible airflow design**: The side duct openings are covered when they leave the factory. If a side supply/return is desired, the installer removes the two side duct covers from the outside of the unit and installs them over the down shot openings. No panel cutting is required. The convertible airflow design allows maximum field flexibility and minimum inventory.
- **System protection:** Suction line freezestats are supplied on all units to protect against the loss of charge and coil frosting when the economizer operates at low outdoor air temperatures while the compressors are running. Every unit has solid-core liquid line filter-driers and high and low-pressure switches. Phase monitors are available on units with scroll compressors. This accessory monitors the incoming power to the unit and protects the unit from phase loss and reversed phase rotation.
- **Advanced controls**: Smart Equipment control boards have standardized a number of features previously available only as options or by utilizing additional controls.

**⚠ WARNING**

The Smart Equipment control board used in this product will 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 applying this product for process cooling applications (computer rooms, switchgear, etc.), please call the applications department for Ducted Systems @ 1-877-874-SERV for guidance. Additional accessories may be needed for stable operation at temperatures below 30°F.

**Figure 2: Smart Equipment control board**




- **Units will come with the new state of the art Smart Equipment control system**: The new unit control incorporates the best of the already proven controls and creates a more robust, intelligent control. The goal of this control is to utilize cutting edge technology making the equipment easier to install, operate, and service. All units are factory commissioned, configured, and run tested.
- **Versatile:** The Smart Equipment control can be configured for use with a standard easy to connect screw terminal thermostat, A zone sensor, or can be setup to communicate with multiple BAS communication protocols to integrate with building automation systems.
- **Reduce field-installed complexity:** Each unit will comes equipped with factory-installed supply air, return air, and outdoor air temperature sensors providing key temperature readings that reduce field-installed complexity.
- **On-board USB port:** The new control comes with a long list of features including data logging current and previous system faults, software update capabilities using the on board USB port, and common flash drive. The energy use monitoring capabilities allow custom tailoring, ensuring the system works more efficiently at all times and occupancy levels. Self test and start-up reports are also available from the board through the USB port.
- **Embedded LCD display:** The board has a easy to read, built-in LCD display and easy to use navigation joystick and buttons allowing the user to quickly navigate the menus displaying unit status, options, current function, supply, return and outdoor temperatures, fault codes and other information.
- **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 gas and electric heating units, heating the gas valve and high temperature limit switches are monitored. The control also monitors the voltage supplied to the unit and will protect the unit from low voltage due to a brown out, or other electrical issue occurs.
- **Low ambient:** 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, the control board can be programmed to lockout the compressors when the outdoor air temperature is low or when free cooling is available.
- **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, the anti-short cycle delay can be temporarily overridden 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 upon their configuration of cooling or heating capacity.
- **Nuisance trip protection and three strikes:** To prevent nuisance calls, the control board uses a three times, you're out philosophy. The high, low-pressure switch, anti-freeze protection, low voltage or heating high limit must trip three times within two hours before the unit control board will lock out the associated compressor. An alarm message will be displayed on the LCD screen.
- **Lead-lag**: An integrated lead-lag option allows equal run time hours on all compressors, thereby extending the life of all compressors. This option is selectable on the unit control board.
- **Low limit control (LLC):** A programmable setpoint to prevent the supply air from dropping below a specified set point, when there is a demand for cooling during cold outside conditions.
- **Reliable**: From the beginning, all units undergo computer automated testing before they leave the factory. Units are tested for refrigerant charge and pressure, unit amperage, and 100% functionality. For the long term, all units are painted with a long lasting, powder paint that stands up over the life of the unit. The paint used has been proven by a 750-hour salt spray test.
- **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 an overhead crane can be used to place the units on a roof.
- **Easy installation**: Gas and electric utility knockouts are supplied in the unit underside as well as the side of the unit. Utility connections can be made quickly and with a minimum amount of field labor. All units are shipped with 2 in. throw-away filters installed.
- **Wide range of indoor airflows**: All supply air blowers are equipped with a belt drive that can be adjusted to meet the exact requirements of the job. A high static drive option is available for applications with a higher CFM or static pressure requirement.
- **Warranty**: All models include a 1-year limited warranty on the complete unit. Compressors and electric heater elements each carry a 5-year warranty. Aluminized steel has a 10-year warranty and stainless steel tubular heat exchangers carry a 15-year warranty.

## Factory-installed options

There are several factory-installed options for the Pro line:

- **Optional factory-installed economizers:** Pro units offer a variety of optional factory-installed economizers with low leak dampers. The outdoor air dry bulb sensor enables economizer operation if the outdoor air temperature is less than the set point of the economizer logic module. See economizer options section to determine the correct economizer for your application.
- **Down flow / end return economizers with barometric relief and fresh air hood:** All units offer a variety of optional factory-installed down flow economizers that are shipped, installed and wired with low leak dampers 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 in. of static pressure. Each economizer goes through a rigorous 60,000 cycle test. Dry bulb, single enthalpy, and dual enthalpy with a field-installed kit can be selected. The economizer has spring return, fully modulating damper actuators and 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. The optional field-installed single or dual enthalpy kits provide additional inputs to monitor outdoor air or return air humidity and temperature for true enthalpy control. The installer only needs to assemble the outdoor air hood, attach the enthalpy control the hood and mount the hood to the unit. The hood and the control are provided.
- **Power exhaust:** This factory option allows down flow or horizontal end return economizer operation.

  ⓘ **Note:** The power exhaust must be removed from the unit and mounted in the horizontal end return duct work when applying the product in the horizontal, end return configuration.
- **Motorized outdoor air damper:** The motorized outdoor air damper includes a slide-in/plug-in damper assembly with an outdoor air hood and filters. The outdoor air dampers open to the preset position when the indoor fan motor is energized. The damper has a range of 0% to 100% outdoor air entry.
- **Alternate indoor blower motor:** For applications with high static restrictions, units are offered with optional indoor motors that provide higher static output or higher airflow, depending upon the installer’s needs.
- **Stainless steel drain pan:** An optional rust-proof stainless steel drain pan is available to provide years of trouble-free operation in corrosive environments.
- **Electric heaters:** The electric heaters range from 9kW to 54kW and are available in all the voltage options of the base units. All heaters are dual staged. All heaters are intended for single point power supply. All electric heaters are provided with single use backup protection limits. These deenergize the heaters if the primary limit fails to open or the contactors fail to open in a failure mode. When the backup limit trips it must be replaced for the heater to be operational again.
- ***IntelliSpeed*™ supply fan control option (ASHRAE 90.1 compliant):** Units configured with the *Intellispeed*™ Supply Fan option will contain a VFD for multi-speed supply fan operation. This option allows the supply fan rpm to vary based on the number of compressors or heating stages energized. The economizer's minimum position will also be configurable to vary based on the supply fan VFD frequency output.
- **VFD shaft grounding device:** Available on units with a VFD, the shaft grounding device helps prevent electrical bearing fluting damage to the blower motor shaft by safely diverting harmful shaft voltages and bearing currents to ground, increasing the motor longevity.
- **Aluminized steel gas heat exchanger:** For applications in non-corrosive environments.
- **Stainless steel gas heat exchanger:** For applications in corrosive environments, this option provides a full stainless steel heat exchanger assembly.

- **Refrigerant detection system (RDS):** Integrated sensors providing R-454B leak detection. RDS shall be connected into unit controls and automatically start a sequence to dilute refrigerant gas as well as alarm upon sensing the presence of refrigerant in the cabinet, indicating a leak equal to 25% of the Lower Flammability Limit. The RDS contains factory or field installed sensors that are located to ensure accurate and timely sensing of a leak.
- **Disconnect switch:** For heat pump units with electric heat, a HACR breaker sized to the unit is provided. For heat pump units, a switch sized to the largest electric heat available for the particular unit is provided. Factory-installed option only.
- **Convenience outlet, non-powered or powered:** This option locates a 120V single-phase GFCI outlet with cover, on the corner of the unit housing adjacent to the compressors. The non-powered option requires the installer to provide the 120V single-phase power source and wiring. The powered option is powered by a stepdown transformer in the unit. Factory-installed option only.
- **Smoke detectors:** The smoke detectors stop operation of the unit and provide a fault message to the control board. Smoke detectors are available for both the supply or return air configurations.

**⚠ WARNING**

Factory-installed smoke detectors in the return air, may be subjected to freezing temperatures during "off" times due to out side air infiltration. These smoke detectors have an operational limit of 32 °F to 131°F. Smoke detectors installed in areas that could be out side those limitations will have to be moved to prevent having false alarms.

- **Filters:** 2 in. Pleated MERV 8 and MERV 13 are available to meet LEED requirements. A 2 in. Throwaway is shipped as standard.
- **Phase monitors:** Designed to prevent unit damage. The phase monitor will shut the unit down in an out-of phase condition.
- **Coil guard:** Customers can purchase a coil guard kit to protect the condenser coil from damage. Additionally, this kit stops animals and foreign objects from entering the space between the inner condenser coil and the main cabinet. This is not a hail guard kit.
- **Dirty filter switch:** This kit 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. factory-installed option or field-installed accessory.
- **Condensate overflow switch:** 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.
- **E-Coat condenser coils:** The condenser coils are coated with an epoxy polymer coating to protect against corrosion.
- **E-Coat evaporator coils:** The evaporator coils are coated with an epoxy polymer coating to protect against corrosion.
- **MagnaDry™ hot gas reheat:** Units optioned with reheat coils provide superior dehumidification at a wide range of outdoor temperatures. This system provides comfort without over-cooling the space.

## Control options

- **Smart Equipment with communication option control:** The Smart Equipment with communication option control is factory-installed. It includes all the features of the Smart Equipment control with an additional gateway to BACnet MS/TP programmable to Modbus or N2 protocols. This communication card also features Bluetooth wireless connectivity, allowing users to conveniently view operating status, adjust settings, troubleshoot, analyze trends, and modify schedules with the GoTemp Pro mobile app.
- **SkyQ:** SkyQ is a comprehensive light-commercial control system designed for mechanical contractors, even those with minimal controls expertise. It enables contractors to expand their offerings by bundling equipment and controls into a single solution.

  SkyQ integrates seamlessly with Smart Equipment controls, and its pre-programmed controllers along with desktop and mobile apps make system commissioning simple and efficient. Supporting single-zone constant volume, single-zone VAV, multi-zone changeover bypass, and multi-zone VAV configurations, SkyQ covers the full range of traditional rooftop applications.

  Systems can optionally be connected to the Internet for remote monitoring, configuration, and alarm notifications. Additional features—such as wireless networking, third-party RTU integration, I/O controllers, and control enclosures—further enhance contractor capabilities and open new opportunities for bundled solutions.

## Field-installed accessories

There are several field-installed accessories available for the Pro line:

- **Down flow and end return economizers with fresh air hood and barometric relief:** All units offer a variety of optional factory-installed down flow economizers that are shipped, installed and wired with low leak dampers designed to meet ASHRAE 90.1, AMCA 511 Class 1A damper, and the International Energy Conservation Code (IECC) certification requirements by achieving leakage rates of 3 CFM/sq. ft. at 1 in. of static pressure. Each economizer goes through a rigorous 60,000 cycle test. Dry bulb, single enthalpy, and dual enthalpy with a field-installed kit can be selected. The economizer has spring return, fully modulating damper actuators and 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. The field-installed dual enthalpy kit provides a second input used to monitor the return air. The installer needs only to assemble the outdoor air hood, attach the enthalpy control the hood and mount the hood to the unit. The hood and control are provided.
- **Single or dual enthalpy control, accessories**: These kits contain the required components to convert a dry bulb economizer to a single enthalpy or dual enthalpy economizer.
- **Barometric relief damper:** Zero to 100% capacity barometric relief dampers for use with horizontal flow, or field-installed economizers.
- **Power exhaust:** This accessory installs in the unit with a down flow or horizontal end return economizer. Power exhaust plugs into the connector in the unit bulkhead.

  ⓘ **Note:** User must purchase the 1EH0408 barometric relief and hood kit when applying the product in a horizontal flow application. The power exhaust must be mounted in the horizontal end return ductwork.
- **Manual outdoor air damper:** Like the motorized outdoor air damper, each manual outdoor air damper includes a slide-in damper assembly with an outdoor air hood and filters. Customers have a choice of dampers with ranges of 0% to 100% or 0% to 35% outdoor air entry.
- **Motorized outdoor air damper:** The motorized outdoor air damper includes a slide-in/plug-in damper assembly with an outdoor air hood and filters. The outdoor air dampers open to the preset position when the indoor fan motor is energized. The damper has a range of 0% to 100% outdoor air entry. factory-installed option or field-installed accessory.
- **VFD shaft grounding device:** Available on units with a VFD, the shaft grounding device helps prevent electrical bearing fluting damage to the blower motor shaft by safely diverting harmful shaft voltages and bearing currents to ground, increasing the motor longevity.
- **Condensate overflow switch:** 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.
- **Smoke detectors:** The smoke detectors stop operation of the unit by interrupting power to the control board if smoke is detected within the air compartment.
- **$CO_2$ sensor:** Senses $CO_2$ levels and automatically overrides the economizer when levels rise above the preset limits.
- **Dirty filter switch:** This kit 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.
- **Phase monitors:** Designed to prevent unit damage. The phase monitor will shut the unit down in an out-of-phase condition.
- **Convenience outlet, non-powered:** This option locates a 120V single-phase GFCI outlet with cover, on the corner of the unit housing adjacent to the compressors. The non-powered option requires the installer to provide the 120V single-phase power source and wiring.
- **Coil guard:** Field-installed decorative wire coil guard.

- **Hail guard:** This kit includes a sloped hood which installs over the outside condenser coil and prevents damage to the coil fins from hail strikes. field-installed accessory only.
- **Electric heaters:** The electric heaters range from 9 kW to 54kW and are available in all the voltage options of the base units. All heaters are dual staged. All units include an adapter panel for easy installation of the electric heaters. Necessary hardware and connectors are included with the heaters. All heaters are intended for single point power supply.
- **Refrigerant Detection System (RDS):** Integrated sensors providing R-454B leak detection. RDS shall be connected into unit controls and automatically start a sequence to dilute refrigerant gas as well as alarm upon sensing the presence of refrigerant in the cabinet, indicating a leak equal to 25% of the Lower Flammability Limit. The RDS contains factory or field installed sensors that are located to ensure accurate and timely sensing of a leak.
- **Low limit / compressor lockout kit**
  - **Compressor lockout (CLO):** To prevent mechanical compressorized operation of the unit during cold outdoor conditions where there is a risk of returning liquid refrigerant back to the compressors.
- **Metal frame filter kit:** Metal frame with polyester filter medium.
- **Permanent filters:** Permanent filters are available.
- **Roof curbs:** The roof curbs have insulated decks and are shipped disassembled The roof curbs are available in 8 in. and 14 in. heights. For applications with security concerns, burglar bars are available for the duct openings of the roof curbs.
- **Burglar bars:** Mount in the supply and return openings to prevent entry into the duct work.
- **Thermostat:** The units are designed to operate with 24-V electronic and electro-mechanical thermostats. All units, with or without an economizer, operate with two-stage heat/two-stage cool or two-stage cooling only thermostats, depending upon unit configuration.
- **Flue exhaust extension kit:** In locations with wind or weather conditions which may interfere with proper exhausting of furnace combustion products, this kit can be installed to prevent the flue exhaust from entering nearby fresh air intakes.
- **Gas heat high altitude kit:** This kit converts a gas heat unit to operate at high altitudes, 2,000 ft to 6,000 ft. Conversion kits are available for natural gas and propane.
- **Gas heat propane conversion kit:** This kit converts a gas-fired heater from natural gas to propane. It contains the main burner orifices and gas valve replacement springs.

# Accessories

| Part Number | Description |
|---|---|
| 1RC0470 | Roof curb, 8 in. height |
| 1RC0471 | Roof curb, 14 in. height |
| 1BD0408 | Burglar bars, downflow |
| 2TP04520925 | Electric heat 9kW 230V |
| 2TP04531825 | Electric heat 18kW 230V |
| 2TP04532425 | Electric heat 24kW 230V |
| 2TP04533625 | Electric heat 36kW 230V |
| 2TP04525425 | Electric heat 54kW 230V |
| 2TP04520946 | Electric heat 9kW 460V |
| 2TP04531846 | Electric heat 18kW 460V |
| 2TP04532446 | Electric heat 24kW 460V |
| 2TP04533646 | Electric heat 36kW 460V |
| 2TP04525446 | Electric heat 54kW 460V |
| 2TP04520958 | Electric heat 9kW 575V |
| 2TP04521858 | Electric heat 18kW 575V |
| 2TP04522458 | Electric heat 24kW 575V |
| 2TP04523658 | Electric heat 36kW 575V |
| 2TP04525458 | Electric heat 54kW 575V |
| 2TP04540925 | Electric heat 9kW 230V, 42 in. tall cabinet |
| 2TP04541825 | Electric heat 18kW 230V, 42 in. tall cabinet |
| 2TP04542425 | Electric heat 24kW 230V, 42 in. tall cabinet |
| 2TP04543625 | Electric heat 36kW 230V, 42 in. tall cabinet |
| 2TP04540946 | Electric heat 9kW 460V, 42 in. tall cabinet |
| 2TP04541846 | Electric heat 18kW 460V, 42 in. tall cabinet |
| 2TP04542446 | Electric heat 24kW 460V, 42 in. tall cabinet |
| 2TP04543646 | Electric heat 36kW 460V, 42 in. tall cabinet |
| 2TP04540958 | Electric heat 9kW 575V, 42 in. tall cabinet |
| 2TP04541858 | Electric heat 18kW 575V, 42 in. tall cabinet |
| 2TP04542458 | Electric heat 24kW 575V, 42 in. tall cabinet |
| 2TP04543658 | Electric heat 36kW 575V, 42 in. tall cabinet |
| 2MD04703824 | Motorized damper, downflow without barometric relief |
| 2MD04703924 | Motorized damper, horizontal |
| 2EE04717425 | Economizer for downflow, end return horizontal, or bottom return vertical applications. includes fa hood, exhaust hood with barometric relief. all 42 in. cabinets |
| 2EE04717625 | Economizer for downflow, end return horizontal, or bottom return vertical applications. includes fa hood, exhaust hood with barometric relief. all 50 in. cabinets |
| 2EE04709725 | Economizer for downflow, end return horizontal, or bottom return vertical applications. includes fa hood, exhaust hood with barometric relief, BAS ready. all 42 in. cabinets |
| 2EE04709825 | Economizer for downflow, end return horizontal, or bottom return vertical applications. includes fa hood, exhaust hood with barometric relief, BAS ready. all 50 in. cabinets |
| 2EE04706924 | Horizontal economizer without barometric relief |
| 2PE04704706* | Power exhaust 230V downflow or horizontal |
| 2PE04704746* | Power exhaust 460V downflow or horizontal |
| 2PE04704758* | Power exhaust 575V downflow or horizontal |
| 2EC04700924 | Dual enthalpy control (use with single enthalpy economizer) |
| 2EC0401 | Single enthalpy control |
| 2EC0402 | Dual enthalpy control (includes 2 sensors) |
| 1EH0408 | Barometric relief kit for power exhaust, horizontal application |
| 1FA0413 | Manual outside air damper 0-35%, downflow |
| 1FA0414 | Manual outside air damper 0-100%, downflow |
| 1SG0402 | VFD shaft grounding device for large shaft blowers |
| 1SG0403 | VFD shaft grounding device for small shaft blowers |
| 2FS0405 | Condensate overflow switch |
| 2NC0403 | Non-powered convenience outlet |
| 2PM04700424 | Phase monitor to detect out of phase conditions |
| 2DS0403 | Refrigerant Detection System (RDS) |
| 2AQ04700624 | CO2 detector unit mount |
| 2AQ04700524 | CO2 detector space mount |
| 2SD04700824 | Smoke detector for supply (all gen 5 units and greater with 2 in. and 4 in. filters) |
| 2SD04700924 | Smoke detector for return (all gen 5 units and greater with 2 in. and 4 in. filters) |
| 2SD04701024 | Smoke detector for supply and return (all gen 5 units and greater with 2 in. and 4 in. filters) |
| 1CG0419 | Coil guard (electric / electric and HP models), 8.5 ton and 10 ton |
| 1CG0424 | Coil guard (electric / electric and HP models), 12.5 ton |
| 1CG0427 | Coil guard (electric / electric and HP models), 6.5 ton and 7.5 ton |
| 1HG0411 | Hail guard kit |

| Part Number | Description |
|---|---|
| 1HG0415 | Hail guard kit, 42 in. tall cabinet |
| 1FL0402 | Permanent filter kit |
| 1FL0423 | Permanent filter kit, 42 in. tall cabinet |
| 2DF0401 | Dirty filter switch |
| 1FF0414 | 2 in. only metal filter frame kit, 50 in. tall cabinet |
| 1FF0415 | 2 in. only Metal Filter Frame Kit, 42 in. Tall Cabinet |

# Guide specifications

## General

Pro units are convertible single packages with a common footprint cabinet and common roof curb for all 6.5 to 12.5 ton models. All units have two compressors with independent R-454B refrigeration circuits to provide two stages of cooling. The units were designed for light commercial applications and can be easily installed on a roof curb, slab, or frame. All Pro units are self-contained and assembled on rigid full perimeter base rails allowing for three-way forklift access and overhead rigging. Every unit is completely charged with R-454B, wired, piped, and tested at the factory to provide a quick and easy field installation. All units are convertible between side and down airflow. Independent economizer designs are used on side and down discharge applications, as well as all tonnage sizes. Pro units are available in the following configurations:

- heat pump
- heat pump with gas heat
- heat pump with hot gas reheat
- heat pump with electric heat

Electric heaters are available as factory-installed options or field-installed accessories.

## Description

Units are be factory-assembled, single package (heat pump), designed for outdoor installation. They have built in field-convertible duct connections for down discharge supply/return or horizontal discharge supply/return and be available with factory-installed options or field-installed accessories. The units shall be factory wired, piped and charged with R-454B refrigerant and factory tested prior to shipment. All unit wiring shall be both numbered and color coded. The cooling performance shall be rated in accordance with DOE and AHRI test procedures. Units shall be CSA certified to ANSI Z21.47 and UL 60335-2-40 standards.

## Unit cabinet

Unit cabinet shall be constructed of galvanized steel with exterior surfaces coated with a non-chalking, powder paint finish, certified at a 750-hour salt spray test per ASTM-B117 standards. Indoor blower sections shall be insulated with up to 1 in. thick insulation coated on the airside. Either aluminum foil faced or elastometric rubber insulation shall be used in the unit's compartments and be fastened to prevent insulation from entering the air stream. Cabinet doors shall be hinged with toolless access for easy servicing and maintenance. Full perimeter base rails shall be provided to assure reliable transit of equipment, overhead rigging, fork truck access and correct sealing on roof curb applications. Disposable 2 in. filters shall be furnished and be accessible through hinged access door. Fan performance measuring ports shall be provided on the outside of the cabinet to allow accurate air measurements of evaporator fan performance without removing panels or creating bypass of the coils. Condensate pan shall be slide out design, constructed of a non corrosive material, internally sloped and conforming to ASHRAE 62-B9 standards. Condensate connection shall be a minimum of 3/4 in. I.D. female and be rigid mount connection.

## Indoor evaporator fan assembly

Fan shall be a belt drive assembly and include an adjustable pitch motor pulley. Job site selected brake horsepower shall not exceed the motors nameplate horsepower rating plus the service factor. Units shall be designed to operate within the service factor. Fan wheel shall be double inlet type with forward curve blades, dynamically balanced to operate smoothly throughout the entire range of operation. Bearings shall be sealed and permanently lubricated for longer life and no maintenance. Entire blower assembly and motor shall be slide out design.

## Outdoor condenser fan assembly

The outdoor fans shall be of the direct drive type, discharge air vertically, have aluminum blades riveted to corrosion resistant steel spider brackets and shall be dynamically balanced for smooth operation. The outdoor fan motors shall have permanently lubricated bearings internally protected against overload conditions and staged independently. A cleaning window shall be provided on two sides of the units for coil cleaning.

## Refrigerant components

Compressors:

- Shall be fully hermetic type, direct drive, internally protected with internal high-pressure relief and over temperature protection. The hermetic motor shall be suction gas cooled and have a voltage range of + or – 10% of the unit nameplate voltage.
- Shall have internal spring isolation and sound muffling to minimize vibration and noise, and be externally isolated on a dedicated, independent mounting.

Coils:

- Evaporator and condenser coils shall have aluminum plate fins mechanically bonded to seamless internally enhanced copper tubes with all joints brazed. Coils shall be a furnace brazed design and contain epoxy lined shrink wrap on all aluminum to copper connections Special Phenolic coating shall be available as a factory option.
- Evaporator and condenser coils shall be of the direct expansion, draw-through design.

Refrigerant circuit and refrigerant safety components shall include:

- Independent fixed-orifice or thermally operated expansion devices.
- Solid core filter drier/strainer to eliminate any moisture or foreign matter.
- Accessible service gauge connections on both suction and discharge lines to charge, evacuate, and measure refrigerant pressure during any necessary servicing or troubleshooting, without losing charge.
- The unit shall have two independent refrigerant circuits, equally split in 50% capacity increments.

Unit Controls:

- Unit shall be complete with self-contained low-voltage control circuit protected by a resettable circuit breaker on the 24-volt transformer side.
- Unit shall incorporate a lockout circuit which provides reset capability at the space thermostat or base unit, should any of the following standard safety devices trip and shut off compressor.
  - Loss-of-charge/Low-pressure switch.
  - High-pressure switch.
  - Freeze condition sensor on evaporator coil. If any of these safety devices trip, the LCD screen will display the alarm message.
- Unit shall incorporate "AUTO RESET" compressor over temperature, over current protection.
- Unit shall operate with conventional thermostat designs, with a low voltage terminal strip for easy hook-up.
- Unit control board shall have on-board diagnostics and fault message display.

- Standard controls shall include anti-short cycle and low voltage protection, and permit cooling operation down to a selectable value as low as 0°F.
- Control board shall monitor each refrigerant safety switch independently.

## Gas heating section if equipped

Heat exchanger and exhaust system shall be constructed of aluminized steel and shall be designed with induced draft combustion with post purge logic, energy saving direct spark ignition, and redundant main gas valve. The heat exchanger shall be of the tubular type, constructed of T1-40 aluminized steel for corrosion resistance and allowing minimum mixed air entering temperature of 40 ºF. Burners shall be of the in-shot type, constructed of aluminum-coated steel. All gas piping shall enter the unit cabinet at a single location, through either the side or bottom, without any field modifications. An integrated control board shall provide timed control of evaporator fan functioning and burner ignition. Heating section shall be provided with the following minimum protection:

- Primary and auxiliary high-temperature limit switches
- Induced draft pressure sensor
- Flame roll out switch (manual reset)
- Flame proving controls
- All two stage gas units shall have two independent stages of capacity

## Backup heating mode for dual fuel units

Backup heating mode is an available feature 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 (i.e. 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.

## Electric heating section if equipped

An electric heating section, with nickel chromium elements, shall be provided in a range of 9 through 54 kW, offering two states of capacity all sizes. The heating section has a primary limit control (automatic reset) to prevent the heating element system from operating at an excessive temperature. The Heating Section assembly has a slide out of the unit for easy maintenance and service. Units with electric heating sections are wired for a single point power supply with branch circuit fusing where required.

## Unit operating characteristics

Unit shall be capable of starting and running at 125ºF outdoor temperature, exceeding maximum load criteria of AHRI Standard 340/360. The compressor, with standard controls, shall be capable of operation down to 0ºF outdoor temperature.

**Electrical requirements -** All unit power wiring shall enter unit cabinet at a single factory provided location and be capable of side or bottom entry to minimize roof penetrations and avoid unit field modifications. Separate side and bottom openings shall be provided for the control wiring.

**Standard limited warranties** - compressor – 5 years, electric heat element – 5 years, parts – 1 year

**Factory-installed optional outdoor air** (shall be made available by either/or):

- **Dry bulb automatic economizer -** Outdoor and return air dampers that are interlocked and positioned by a fully-modulating, spring-return damper actuator. The maximum leakage rate for the outdoor air intake dampers shall be designed to meet ASHRAE 90.1, AMCA 511 Class 1A damper, and the International Energy Conservation Code (IECC) certification requirements by achieving leakage rates of 3 CFM/sq. ft. at 1 in. of static pressure. Changeover from compressor to economizer operation shall be provided by an integral electronic enthalpy control that feeds input into the basic module. The outdoor intake opening shall be covered with a rain hood that matches the exterior of the unit. Water eliminator/filters shall be provided.

  Simultaneous economizer/compressor operation is also possible. Dampers shall fully close on power loss. Available with barometric relief and power exhaust.
- **Motorized outdoor air dampers -** Outdoor and return air dampers that are interlocked and positioned by a 2- position, spring-return damper actuator. A unit-mounted potentiometer shall be provided to adjust the outdoor and return air damper assembly to take in the design CFM of outdoor air to meet the ventilation requirements of the conditioned space during normal operation. Whenever the indoor fan motor is energized, the dampers open up to one of two pre-selected positions, regardless of the outdoor air enthalpy. Dampers return to the fully closed position when the indoor fan motor is de-energized. Dampers shall fully close on power loss.

## Additional factory-installed options

- **Alternate indoor blower motor**: For applications with high restrictions, units are available with optional indoor blower motors that provide higher static output or higher airflow.
- **Convenience outlet, powered or non-powered:** Unit can be provided with an optional 120VAC GFCI outlet with cover on the corner of the unit housing the compressors.
- **Electric heat**: Electric heaters range from 9 kW to 54 kW and are available in all the voltage options of the base unit.
- **Phase monitor**: Designed to prevent damage in out-of-phase condition.
- **Coil guard**: Designed to prevent condenser coil damage.
- **BAS controls hardware**: Include supply air sensor, return air sensor, dirty filter indicator and air proving switch.
- **Dirty filter switch**: This kit 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.
- **Refrigerant Detection System (RDS)**: Integrated sensors providing R-454B leak detection. RDS shall be connected into unit controls and automatically start a sequence to dilute refrigerant gas as well as alarm upon sensing the presence of refrigerant in the cabinet, indicating a leak equal to 25% of the Lower Flammability Limit. The RDS shall contain factory or field installed sensors that are located to ensure accurate and timely sensing of a leak.
- **VFD shaft grounding device:** Available on units with a VFD, the shaft grounding device helps prevent electrical bearing fluting damage to the blower motor shaft by safely diverting harmful shaft voltages and bearing currents to ground, increasing the motor longevity.
- **Condensate overflow switch:** 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.
- **Breaker:** An HACR breaker can be factory-installed on heat pumps or heat pumps with electric heat.
- **Disconnect switch**: A disconnect can be factory-installed on a cooling only units sized for the largest electric heat available.
- **Stainless steel heat exchanger**: For applications in a corrosive environment, this option provides a full stainless steel heat exchanger assembly
- **Smoke detector**: Can be factory mounted and wired in the supply and/or return air compartments.

## Other pre-engineered accessories available

- **Roof curb**: 14 in. and 8 in. high, full perimeter knockdown curb, with hinged design for quick assembly.
- **Barometric relief damper**: unit mounted, downflow, duct mounted, horizontal, contains a rain hood, air inlet screen, exhaust damper and mounting hardware. Used to relieve internal air pressure through the unit during economizer operation.
- **Propane conversion kit**: contains new orifices and gas valve springs to convert from natural to L.P. gas.
- **Economizer**: downflow and horizontal flow.
- **Power exhaust**: unit mounted, downflow, duct mount horizontal flow
- **Dual enthalpy kit**: provides a second input to economizer to monitor return air.

# Physical data

## Table 1: WP078-150 Physical data

| Component | Models | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | WP078 | | WP090 | | WP102 | | WP120 | | WP150 | |
| **Nominal tonnage** | **6.5** | | **7.5** | | **8.5** | | **10** | | **12.5** | |
| **AHRI cooling performance** | | | | | | | | | | |
| Gross Capacity @ AHRI A point (Mbh) | 86,000 | | 99,000 | | 106,000 | | 120,000 | | 156,000 | |
| AHRI net capacity (Mbh) | 84,000 | | 96,000 | | 101,000 | | 116,000[1] / 115,000[2] | | 148,000[1] / 146,000[2] | |
| EER | 12.2 | | 12.2[1] / 12.1[2] | | 11.5 | | 11.2[1] / 11.0[2] | | 10.8[1] / 10.6[2] | |
| IEER with Intellispeed | 15.8 | | 16.0 | | 16.0 | | 15.2[1] / 15.1[2] | | 15.2[1] / 15.1[2] | |
| Nominal CFM | 2,600 | | 3,000 | | 3,400 | | 3,300 | | 4,600 | |
| System power (kW) | 6.7 | | 7.8 | | 8.7 | | 10.2 | | 13.7 | |
| Refrigerant type | R-454B | | R-454B | | R-454B | | R-454B | | R-454B | |
| Refrigerant charge (lb-oz) | | | | | | | | | | |
| System 1 | 12-8 | | 10-8 | | 12-4 | | 12-0 | | 14-8 | |
| System 2 | 12-8 | | 10-8 | | 11-4 | | 10-0 | | 14-8 | |
| **AHRI heating performance - heat pump operation** | | | | | | | | | | |
| Refrigerant charge (lb-oz) with MagnaDry HGRH | | | | | | | | | | |
| System 1 | 13-10 | | 13-4 | | 12-12 | | 13-0 | | 15-0 | |
| System 2 | 11-14 | | 11-14 | | 10-12 | | 9-8 | | 14-8 | |
| 47°F capacity rating (Mbh) | 75.0[1] / 74.6[2] | | 87.0 | | 92.0[1] / 90.4[2] | | 104.0 | | 148.0 | |
| System power (kW) / COP | 6.2[1] / 3.5[1] 6.3[2] / 3.4[2] | | 7.0 / 3.5 | | 7.4 / 3.5 | | 8.5 / 3.5 | | 13.2 / 3.3 | |
| 17°F capacity rating (Mbh) | 42.0 | | 51.0[1] / 47.9[2] | | 53.0[1] / 51.4[2] | | 60.0 | | 84.0[1] / 83.9[2] | |
| System power (kW) / COP | 5.4 / 2.25 | | 6.4 / 2.25 | | 6.9 / 2.25 | | 7.8 / 2.25 | | 11.4[1] / 2.15[1] 11.4[2] / 2.14[2] | |
| **AHRI heating performance - gas heat operation** | | | | | | | | | | |
| Heating model | N12 | N18 | N12 | N18 | N12 | N18 | N18 | N24 | N18 | N24 |
| Heat input (K Btu) | 120 | 180 | 120 | 180 | 120 | 180 | 180 | 240 | 180 | 240 |
| Heat output (K Btu) | 97 | 146 | 97 | 146 | 97 | 146 | 146 | 194 | 146 | 194 |
| AFUE % | - | - | - | - | - | - | - | - | - | - |
| Steady state efficiency (%) | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| No. burners | 5 | 7 | 5 | 7 | 5 | 7 | 7 | 8 | 7 | 8 |
| No. stages | 2[3] | 2[3] | 2[3] | 2[3] | 2[3] | 2[3] | 2[3] | 2[3] | 2[3] | 2[3] |
| Temperature Rise Range (°F) | 20-50 | 20-65 | 20-50 | 20-65 | 20-50 | 20-65 | 20-65 | 30-60 | 20-65 | 30-60 |
| Gas piping connection (in.) | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| **Dimensions (in.)** | | | | | | | | | | |
| Length | 89 | | 89 | | 89 | | 89 | | 119-7/16 | |
| Width | 59 | | 59 | | 59 | | 59 | | 59 | |
| Height | 50-3/4 | | 50-3/4 | | 50-3/4 | | 50-3/4 | | 50-3/4 | |
| **Operating weight (lb)** | 1,080 | | 1,090 | | 1,137 | | 1,135 | | 1,403 | |
| **Compressors[1]** | | | | | | | | | | |
| Type | Scroll | | Scroll | | Scroll | | Scroll | | Scroll | |
| Quantity | 2 | | 2 | | 2 | | 2 | | 2 | |
| Unit capacity steps (%) | 50 / 100 | | 50 / 100 | | 50 / 100 | | 50 / 100 | | 50 / 100 | |
| **Condenser coil data** | | | | | | | | | | |
| Face area (sq ft) | 29.0 | | 29.0 | | 29.0 | | 29.0 | | 47.5 | |
| Rows | 2 | | 2 | | 2 | | 2 | | 2 | |
| Fins per inch | 16 | | 16 | | 16 | | 16 | | 15 | |
| Tube diameter (in.) | 3/8 | | 3/8 | | 3/8 | | 3/8 | | 3/8 | |
| Circuitry Type | Split-face | | Split-face | | Split-face | | Split-face | | Split-face | |
| Refrigerant control | TXV | | TXV | | TXV | | TXV | | TXV | |
| **Evaporator coil data** | | | | | | | | | | |
| Face area (sq ft) | 13.2 | | 13.2 | | 13.2 | | 13.2 | | 13.2 | |
| Rows | 4 | | 4 | | 4 | | 4 | | 4 | |
| Fins per inch | 15 | | 15 | | 15 | | 15 | | 15 | |
| Tube diameter | 3/8 | | 3/8 | | 3/8 | | 3/8 | | 3/8 | |
| Circuitry Type | Intertwined | | Intertwined | | Intertwined | | Intertwined | | Intertwined | |
| Refrigerant control | TXV | | TXV | | TXV | | TXV | | TXV | |
| **Reheat option coil data** | | | | | | | | | | |
| Face area (sq ft) | 10 | | 10 | | 10 | | 10 | | 10 | |
| Rows | 2 | | 2 | | 2 | | 2 | | 2 | |
| Fins per inch | 13 | | 13 | | 13 | | 13 | | 13 | |
| Tube diameter | 3/8 | | 3/8 | | 3/8 | | 3/8 | | 3/8 | |
| **Condenser fan data** | | | | | | | | | | |
| Quantity of fans | 2 | | 2 | | 2 | | 2 | | 4 | |

## Table 1: WP078-150 Physical data

| Component | Models | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | WP078 | | WP090 | | WP102 | | WP120 | | WP150 | |
| **Nominal tonnage** | **6.5** | | **7.5** | | **8.5** | | **10** | | **12.5** | |
| Fan diameter (in.) | 24 | | 24 | | 24 | | 24 | | 24 | |
| Type | Prop | | Prop | | Prop | | Prop | | Prop | |
| Drive type | Direct | | Direct | | Direct | | Direct | | Direct | |
| Quantity of motors | 2 | | 2 | | 2 | | 2 | | 4 | |
| Motor hp each | 1/3 | | 1/3 | | 1/3 | | 1/3 | | 1/3 | |
| No. speeds | 1 | | 1 | | 1 | | 1 | | 1 | |
| RPM | 850 | | 850 | | 850 | | 850 | | 850 | |
| Nominal total cfm | 6,800 | | 6,800 | | 6,800 | | 6,800 | | 14,000 | |
| **Belt drive evap fan data** | | | | | | | | | | |
| Quantity | 1 | | 1 | | 1 | | 1 | | 1 | |
| Fan size (in.) | 15 x 15 | | 15 x 15 | | 15 x 15 | | 15 x 15 | | 15 x 15 | |
| Type | Centrifugal | | Centrifugal | | Centrifugal | | Centrifugal | | Centrifugal | |
| Motor sheave | VL40 | VL44 | 1VL40 | 1VM50 | 1VP50 | 1VP50 | 1VM50 | 1VM50 | 1VM50 | 1VP56 |
| Blower sheave | AK74 | AK71 | AK69 | AK69 | AK89 | AK74 | AK84 | AK74 | AK74 | BK77 |
| Belt | A52 | A52 | A52 | A54 | A56 | A54 | A56 | A54 | A54 | BX56 |
| Motor HP each | 1-1/2 | 2 | 1-1/2 | 3 | 2 | 3 | 2 | 3 | 3 | 5 |
| RPM | 1,725 | 1,725 | 1,725 | 1,725 | 1,725 | 17,25 | 1,725 | 1,725 | 1,725 | 1,725 |
| Frame size | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 184T |
| **Filters** | | | | | | | | | | |
| Quantity - size | 4 - (24 x 20 x 2) | | 4 - (24 x 20 x 2) | | 4 - (24 x 20 x 2) | | 4 - (24 x 20 x 2) | | 4 - (24 x 20 x 2) | |

**Note:**

1. Heat pump unit or heat pump unit with electric heat
2. Heat pump unit with gas heat
3. First stage 60% of full capacity

## Table 2: WP078-150 unit limitations

| Size (ton) | Model | Unit voltage | SCCR (kVA) | Unit limitations | | |
|---|---|---|---|---|---|---|
| | | | | Applied voltage | | Outdoor DB temperature |
| | | | | Minimum | Maximum | Maximum (°F) |
| 078 (6.5) | WP | 208/230-3-60 | 5 | 187 | 252 | 125 |
| | | 460-3-60 | 5 | 432 | 504 | 125 |
| | | 575-3-60 | 5 | 540 | 630 | 125 |
| 090 (7.5) | WP | 208/230-3-60 | 5 | 187 | 252 | 125 |
| | | 460-3-60 | 5 | 432 | 504 | 125 |
| | | 575-3-60 | 5 | 540 | 630 | 125 |
| 102 (8.5) | WP | 208/230-3-60 | 5 | 187 | 252 | 125 |
| | | 460-3-60 | 5 | 432 | 504 | 125 |
| | | 575-3-60 | 5 | 540 | 630 | 125 |
| 120 (10) | WP | 208/230-3-60 | 5 | 187 | 252 | 125 |
| | | 460-3-60 | 5 | 432 | 504 | 125 |
| | | 575-3-60 | 5 | 540 | 630 | 125 |
| 150 (12.5) | WP | 208/230-3-60 | 5 | 187 | 252 | 125 |
| | | 460-3-60 | 5 | 432 | 504 | 125 |

# Capacity performance

## WP078-150 cooling capacities

The following note applies to all cooling capacity tables.

**Note:**

1. Total Capacity: These capacities are gross ratings. For net capacity, deduct the air blower motor, MBh = 3.415 x kW. See the appropriate blower performance table for the kW of the supply air blower motor.
2. Total input: These ratings include the condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

### Table 3: WP078 (6.5 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM | WB (°F) | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) Return dry bulb (°F) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 1625 | 77 | 112.4 | 4.6 | 55.4 | 47.6 | 39.9 | - | - | - | 104.5 | 5.3 | 51.5 | 44.1 | 36.7 | - | - | - |
| | 72 | 101.3 | 4.6 | 64.0 | 55.4 | 46.9 | 38.4 | - | - | 94.6 | 5.3 | 61.3 | 52.7 | 44.2 | 35.7 | - | - |
| | 67 | 90.2 | 4.6 | 72.5 | 63.3 | 54.0 | 45.8 | 37.3 | - | 84.8 | 5.3 | 71.0 | 61.4 | 51.7 | 43.3 | 34.7 | - |
| | 62 | 80.4 | 4.6 | 80.4 | 70.8 | 61.1 | 52.3 | 44.6 | 36.4 | 77.5 | 5.3 | 77.5 | 68.4 | 59.2 | 50.5 | 42.3 | 33.9 |
| 1950 | 77 | 114.9 | 4.6 | 60.8 | 50.8 | 40.8 | - | - | - | 107.6 | 5.3 | 57.8 | 47.6 | 37.4 | - | - | - |
| | 72 | 104.3 | 4.6 | 70.2 | 60.0 | 49.8 | 39.5 | - | - | 97.8 | 5.3 | 67.4 | 57.1 | 46.8 | 36.5 | - | - |
| | 67 | 93.7 | 4.6 | 79.5 | 69.1 | 58.7 | 48.7 | 38.4 | - | 88.1 | 5.3 | 77.1 | 66.7 | 56.2 | 46.0 | 35.7 | - |
| | 62 | 86.0 | 4.6 | 86.0 | 76.8 | 67.6 | 57.2 | 47.6 | 37.5 | 82.6 | 5.3 | 82.6 | 74.1 | 65.6 | 55.2 | 45.2 | 35.0 |
| | 57 | 78.2 | 4.6 | 78.2 | 78.2 | 76.6 | 66.6 | 56.7 | 46.8 | 77.1 | 5.3 | 77.1 | 77.1 | 75.1 | 64.9 | 54.8 | 44.6 |
| 2275 | 77 | 117.4 | 4.6 | 66.3 | 54.0 | 41.8 | - | - | - | 110.7 | 5.3 | 64.1 | 51.1 | 38.1 | - | - | - |
| | 72 | 107.3 | 4.6 | 76.4 | 64.5 | 52.6 | 40.6 | - | - | 101.1 | 5.3 | 73.6 | 61.5 | 49.4 | 37.3 | - | - |
| | 67 | 97.1 | 4.6 | 86.5 | 75.0 | 63.4 | 51.6 | 39.6 | - | 91.4 | 5.3 | 83.1 | 71.9 | 60.7 | 48.8 | 36.7 | - |
| | 62 | 91.5 | 4.6 | 91.5 | 82.8 | 74.2 | 62.0 | 50.5 | 38.6 | 87.7 | 5.3 | 87.7 | 79.9 | 72.0 | 59.9 | 48.2 | 36.2 |
| | 57 | 85.8 | 4.6 | 85.8 | 85.8 | 85.0 | 73.2 | 61.4 | 49.6 | 84.0 | 5.3 | 84.0 | 84.0 | 83.3 | 71.5 | 59.6 | 47.7 |
| 2600 | 77 | 120.0 | 4.6 | 71.8 | 57.2 | 42.7 | - | - | - | 113.9 | 5.3 | 70.4 | 54.6 | 38.9 | - | - | - |
| | 72 | 110.3 | 4.6 | 82.7 | 69.0 | 55.4 | 41.8 | - | - | 104.3 | 5.3 | 79.8 | 65.9 | 52.1 | 38.2 | - | - |
| | 67 | 100.6 | 4.6 | 93.5 | 80.8 | 68.1 | 54.5 | 40.8 | - | 94.7 | 5.3 | 89.2 | 77.2 | 65.3 | 51.5 | 37.7 | - |
| | 62 | 97.0 | 4.6 | 97.0 | 88.9 | 80.8 | 66.9 | 53.4 | 39.7 | 92.8 | 5.3 | 92.8 | 85.6 | 78.5 | 64.7 | 51.1 | 37.4 |
| | 57 | 93.4 | 4.6 | 93.4 | 93.4 | 93.4 | 79.8 | 66.1 | 52.4 | 90.8 | 5.2 | 90.8 | 90.8 | 90.8 | 78.1 | 64.5 | 50.9 |
| 2925 | 72 | 113.3 | 4.6 | 88.9 | 73.6 | 58.2 | 42.9 | - | - | 107.5 | 5.3 | 85.9 | 70.3 | 54.7 | 39.0 | - | - |
| | 67 | 104.1 | 4.6 | 100.5 | 86.7 | 72.8 | 57.4 | 41.9 | - | 98.0 | 5.3 | 95.2 | 82.5 | 69.8 | 54.3 | 38.7 | - |
| | 62 | 102.5 | 4.6 | 102.5 | 94.9 | 87.4 | 71.7 | 56.4 | 40.8 | 97.8 | 5.3 | 97.8 | 91.3 | 84.9 | 69.4 | 54.0 | 38.6 |
| | 57 | 100.9 | 4.6 | 100.9 | 100.9 | 100.9 | 86.4 | 70.8 | 55.2 | 97.7 | 5.2 | 97.7 | 97.7 | 97.7 | 84.6 | 69.3 | 54.0 |
| 3250 | 72 | 116.3 | 4.6 | 95.1 | 78.1 | 61.0 | 44.0 | - | - | 110.7 | 5.3 | 92.1 | 74.7 | 57.3 | 39.9 | - | - |
| | 67 | 107.5 | 4.6 | 107.5 | 92.5 | 77.5 | 60.3 | 43.1 | - | 101.3 | 5.3 | 101.3 | 87.8 | 74.3 | 57.0 | 39.7 | - |
| | 62 | 108.0 | 4.6 | 108.0 | 101.0 | 93.9 | 76.6 | 59.3 | 41.9 | 102.9 | 5.3 | 102.9 | 97.1 | 91.3 | 74.1 | 56.9 | 39.7 |
| | 57 | 108.5 | 4.6 | 108.5 | 108.5 | 108.5 | 92.9 | 75.4 | 58.0 | 104.5 | 5.2 | 104.5 | 104.5 | 104.5 | 91.2 | 74.1 | 57.1 |

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 95°F | | | | | | | | 105°F | | | | | | | |
| 1625 | 77 | 96.5 | 6.1 | 47.7 | 40.6 | 33.5 | - | - | - | 89.9 | 6.9 | 44.6 | 37.6 | 30.6 | - | - | - |
| | 72 | 87.9 | 6.0 | 58.6 | 50.0 | 41.5 | 32.9 | - | - | 81.7 | 6.9 | 55.7 | 47.1 | 38.4 | 29.7 | - | - |
| | 67 | 79.3 | 6.0 | 69.5 | 59.5 | 49.4 | 40.8 | 32.2 | - | 73.4 | 6.8 | 66.9 | 56.5 | 46.2 | 37.6 | 29.0 | - |
| | 62 | 74.6 | 5.9 | 74.6 | 66.0 | 57.4 | 48.7 | 40.0 | 31.3 | 70.3 | 6.8 | 70.3 | 62.1 | 54.0 | 45.5 | 37.0 | 28.6 |
| 1950 | 77 | 100.3 | 6.1 | 54.8 | 44.4 | 34.0 | - | - | - | 92.7 | 7.0 | 52.0 | 41.4 | 30.8 | - | - | - |
| | 72 | 91.4 | 6.0 | 64.7 | 54.3 | 43.9 | 33.5 | - | - | 84.6 | 6.9 | 61.7 | 51.2 | 40.7 | 30.2 | - | - |
| | 67 | 82.5 | 6.0 | 74.6 | 64.2 | 53.8 | 43.4 | 33.0 | - | 76.5 | 6.9 | 71.3 | 60.9 | 50.5 | 40.1 | 29.7 | - |
| | 62 | 79.3 | 5.9 | 79.3 | 71.4 | 63.6 | 53.3 | 42.9 | 32.6 | 74.4 | 6.8 | 74.4 | 67.4 | 60.4 | 50.0 | 39.7 | 29.4 |
| | 57 | 76.0 | 5.9 | 76.0 | 76.0 | 73.5 | 63.2 | 52.9 | 42.5 | 72.3 | 6.8 | 72.3 | 72.3 | 70.2 | 60.0 | 49.7 | 39.5 |
| 2275 | 77 | 104.0 | 6.1 | 61.8 | 48.2 | 34.5 | - | - | - | 95.4 | 7.0 | 59.4 | 45.2 | 31.1 | - | - | - |
| | 72 | 94.8 | 6.0 | 70.8 | 58.5 | 46.3 | 34.0 | - | - | 87.6 | 6.9 | 67.6 | 55.3 | 43.0 | 30.7 | - | - |
| | 67 | 85.6 | 6.0 | 79.7 | 68.9 | 58.1 | 46.0 | 33.8 | - | 79.7 | 6.9 | 75.8 | 65.3 | 54.8 | 42.6 | 30.4 | - |
| | 62 | 83.9 | 5.9 | 83.9 | 76.9 | 69.9 | 57.9 | 45.8 | 33.8 | 78.5 | 6.8 | 78.5 | 72.6 | 66.7 | 54.6 | 42.4 | 30.3 |
| | 57 | 82.2 | 5.9 | 82.2 | 82.2 | 81.7 | 69.8 | 57.8 | 45.9 | 77.4 | 6.8 | 77.4 | 77.4 | 77.4 | 66.5 | 54.4 | 42.4 |
| 2600 | 77 | 107.8 | 6.1 | 68.9 | 52.0 | 35.0 | - | - | - | 98.2 | 7.0 | 66.8 | 49.1 | 31.3 | - | - | - |
| | 72 | 98.3 | 6.0 | 76.9 | 62.8 | 48.7 | 34.6 | - | - | 90.5 | 6.9 | 73.5 | 59.4 | 45.3 | 31.1 | - | - |
| | 67 | 88.8 | 6.0 | 84.9 | 73.6 | 62.4 | 48.5 | 34.6 | - | 82.8 | 6.9 | 80.2 | 69.7 | 59.2 | 45.1 | 31.1 | - |
| | 62 | 88.5 | 5.9 | 88.5 | 82.3 | 76.1 | 62.4 | 48.7 | 35.1 | 82.7 | 6.8 | 82.7 | 77.9 | 73.1 | 59.1 | 45.1 | 31.1 |
| | 57 | 88.3 | 5.9 | 88.3 | 88.3 | 88.3 | 76.3 | 62.8 | 49.4 | 82.5 | 6.8 | 82.5 | 82.5 | 82.5 | 73.1 | 59.1 | 45.2 |
| 2925 | 72 | 101.7 | 6.0 | 83.0 | 67.1 | 51.1 | 35.2 | - | - | 93.5 | 6.9 | 79.4 | 63.5 | 47.6 | 31.6 | - | - |
| | 67 | 91.9 | 6.0 | 90.0 | 78.4 | 66.7 | 51.1 | 35.5 | - | 85.9 | 6.9 | 84.6 | 74.1 | 63.5 | 47.6 | 31.7 | - |
| | 62 | 93.2 | 5.9 | 93.2 | 87.8 | 82.4 | 67.0 | 51.7 | 36.3 | 86.8 | 6.9 | 86.8 | 83.1 | 79.5 | 63.6 | 47.8 | 31.9 |
| | 57 | 94.4 | 5.9 | 94.4 | 94.4 | 94.4 | 82.9 | 67.8 | 52.8 | 87.6 | 6.8 | 87.6 | 87.6 | 87.6 | 79.6 | 63.8 | 48.0 |
| 3250 | 72 | 105.2 | 6.0 | 89.1 | 71.3 | 53.6 | 35.8 | - | - | 96.4 | 7.0 | 85.3 | 67.6 | 49.8 | 32.1 | - | - |
| | 67 | 95.1 | 6.0 | 95.1 | 83.1 | 71.1 | 53.7 | 36.3 | - | 89.1 | 6.9 | 89.1 | 78.5 | 67.8 | 50.1 | 32.4 | - |
| | 62 | 97.8 | 5.9 | 97.8 | 93.2 | 88.6 | 71.6 | 54.6 | 37.6 | 90.9 | 6.9 | 90.9 | 88.4 | 85.8 | 68.2 | 50.5 | 32.8 |
| | 57 | 100.5 | 5.9 | 100.5 | 100.5 | 100.5 | 89.5 | 72.8 | 56.2 | 92.7 | 6.8 | 92.7 | 92.7 | 92.7 | 86.2 | 68.5 | 50.9 |
| | | 115°F | | | | | | | | 125°F | | | | | | | |
| 1625 | 77 | 83.3 | 7.8 | 41.5 | 34.6 | 27.7 | - | - | - | 76.6 | 8.7 | 38.4 | 31.6 | 24.7 | - | - | - |
| | 72 | 75.4 | 7.8 | 52.9 | 44.1 | 35.3 | 26.5 | - | - | 69.1 | 8.7 | 50.0 | 41.1 | 32.2 | 23.3 | - | - |
| | 67 | 67.5 | 7.7 | 64.2 | 53.6 | 42.9 | 34.4 | 25.9 | - | 61.6 | 8.6 | 61.6 | 50.6 | 39.7 | 31.2 | 22.7 | - |
| | 62 | 66.0 | 7.7 | 66.0 | 58.3 | 50.6 | 42.3 | 34.1 | 25.8 | 61.6 | 8.6 | 61.6 | 54.4 | 47.1 | 39.1 | 31.1 | 23.1 |
| 1950 | 77 | 85.0 | 7.9 | 49.2 | 38.4 | 27.7 | - | - | - | 77.4 | 8.8 | 46.4 | 35.5 | 24.5 | - | - | - |
| | 72 | 77.8 | 7.8 | 58.6 | 48.0 | 37.5 | 26.9 | - | - | 71.1 | 8.7 | 55.6 | 44.9 | 34.3 | 23.6 | - | - |
| | 67 | 70.6 | 7.8 | 68.0 | 57.6 | 47.3 | 36.8 | 26.4 | - | 64.7 | 8.7 | 64.7 | 54.4 | 44.0 | 33.6 | 23.1 | - |
| | 62 | 69.6 | 7.7 | 69.6 | 63.3 | 57.1 | 46.8 | 36.5 | 26.3 | 64.7 | 8.6 | 64.7 | 59.3 | 53.8 | 43.6 | 33.3 | 23.1 |
| | 57 | 68.5 | 7.7 | 68.5 | 68.5 | 66.9 | 56.8 | 46.6 | 36.5 | 64.8 | 8.6 | 64.8 | 64.2 | 63.6 | 53.5 | 43.5 | 33.5 |
| 2275 | 77 | 86.8 | 7.9 | 56.9 | 42.3 | 27.7 | - | - | - | 78.2 | 8.8 | 54.5 | 39.3 | 24.2 | - | - | - |
| | 72 | 80.3 | 7.8 | 64.4 | 52.0 | 39.6 | 27.3 | - | - | 73.0 | 8.7 | 61.1 | 48.7 | 36.3 | 23.9 | - | - |
| | 67 | 73.7 | 7.8 | 71.8 | 61.7 | 51.6 | 39.3 | 27.0 | - | 67.8 | 8.7 | 67.8 | 58.1 | 48.4 | 35.9 | 23.5 | - |
| | 62 | 73.2 | 7.7 | 73.2 | 68.4 | 63.6 | 51.3 | 39.0 | 26.7 | 67.8 | 8.7 | 67.8 | 64.1 | 60.4 | 48.0 | 35.6 | 23.1 |
| | 57 | 72.6 | 7.7 | 72.6 | 72.6 | 72.6 | 63.3 | 51.0 | 38.8 | 67.8 | 8.6 | 67.8 | 67.8 | 67.8 | 60.1 | 47.6 | 35.2 |
| 2600 | 77 | 88.6 | 7.9 | 64.6 | 46.1 | 27.7 | - | - | - | 79.1 | 8.8 | 62.5 | 43.2 | 24.0 | - | - | - |
| | 72 | 82.7 | 7.8 | 70.1 | 55.9 | 41.8 | 27.7 | - | - | 75.0 | 8.8 | 66.7 | 52.5 | 38.3 | 24.2 | - | - |
| | 67 | 76.9 | 7.8 | 75.6 | 65.7 | 55.9 | 41.7 | 27.5 | - | 70.9 | 8.7 | 70.9 | 61.8 | 52.7 | 38.3 | 23.9 | - |
| | 62 | 76.8 | 7.8 | 76.8 | 73.4 | 70.1 | 55.8 | 41.5 | 27.1 | 70.9 | 8.7 | 70.9 | 69.0 | 67.1 | 52.4 | 37.8 | 23.2 |
| | 57 | 76.7 | 7.7 | 76.7 | 76.7 | 76.7 | 69.8 | 55.4 | 41.0 | 70.9 | 8.7 | 70.9 | 70.9 | 70.9 | 66.6 | 51.7 | 36.9 |
| 2925 | 72 | 85.2 | 7.9 | 75.8 | 59.9 | 44.0 | 28.0 | - | - | 76.9 | 8.8 | 72.2 | 56.3 | 40.4 | 24.5 | - | - |
| | 67 | 80.0 | 7.8 | 79.3 | 69.8 | 60.3 | 44.2 | 28.0 | - | 74.0 | 8.7 | 74.0 | 65.5 | 57.1 | 40.7 | 24.3 | - |
| | 62 | 80.4 | 7.8 | 80.4 | 78.5 | 76.6 | 60.3 | 43.9 | 27.6 | 74.0 | 8.7 | 74.0 | 73.9 | 73.7 | 56.9 | 40.1 | 23.2 |
| | 57 | 80.8 | 7.8 | 80.8 | 80.8 | 80.8 | 76.4 | 59.8 | 43.3 | 74.0 | 8.7 | 74.0 | 74.0 | 74.0 | 73.1 | 55.8 | 38.5 |
| 3250 | 72 | 87.7 | 7.9 | 81.6 | 63.8 | 46.1 | 28.4 | - | - | 78.9 | 8.8 | 77.8 | 60.1 | 42.4 | 24.7 | - | - |
| | 67 | 83.1 | 7.8 | 83.1 | 73.9 | 64.6 | 46.6 | 28.6 | - | 77.1 | 8.7 | 77.1 | 69.3 | 61.4 | 43.0 | 24.7 | - |
| | 62 | 84.0 | 7.8 | 84.0 | 83.6 | 83.1 | 64.7 | 46.4 | 28.0 | 77.1 | 8.7 | 77.1 | 77.1 | 77.1 | 61.3 | 42.3 | 23.3 |
| | 57 | 84.9 | 7.8 | 84.9 | 84.9 | 84.9 | 82.9 | 64.2 | 45.5 | 77.1 | 8.8 | 77.1 | 77.1 | 77.1 | 77.1 | 59.9 | 40.2 |

## Table 4: WP090 (7.5 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM | WB (°F) | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) Return dry bulb (°F) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 1875 | 77 | 128.7 | 5.5 | 63.6 | 54.5 | 45.4 | - | - | - | 122.6 | 6.4 | 59.6 | 50.5 | 41.3 | - | - | - |
| | 72 | 117.1 | 5.5 | 74.6 | 64.6 | 54.7 | 44.7 | - | - | 111.1 | 6.3 | 71.5 | 61.3 | 51.0 | 40.8 | - | - |
| | 67 | 105.5 | 5.4 | 85.6 | 74.8 | 64.0 | 54.3 | 44.3 | - | 99.6 | 6.2 | 83.4 | 72.1 | 60.8 | 50.8 | 40.7 | - |
| | 62 | 93.4 | 5.2 | 93.4 | 83.3 | 73.2 | 62.7 | 53.7 | 43.9 | 89.0 | 6.0 | 89.0 | 79.8 | 70.6 | 60.4 | 50.9 | 41.1 |
| 2250 | 77 | 132.5 | 5.5 | 69.9 | 58.0 | 46.1 | - | - | - | 125.2 | 6.4 | 66.8 | 54.5 | 42.2 | - | - | - |
| | 72 | 121.0 | 5.5 | 81.7 | 69.6 | 57.5 | 45.5 | - | - | 114.1 | 6.3 | 78.4 | 66.2 | 54.0 | 41.8 | - | - |
| | 67 | 109.4 | 5.4 | 93.5 | 81.2 | 69.0 | 57.2 | 45.1 | - | 103.0 | 6.2 | 90.0 | 77.8 | 65.7 | 53.7 | 41.6 | - |
| | 62 | 99.8 | 5.3 | 99.8 | 90.1 | 80.5 | 68.0 | 56.7 | 44.9 | 94.9 | 6.1 | 94.9 | 86.2 | 77.4 | 65.2 | 53.6 | 41.7 |
| | 57 | 90.2 | 5.1 | 90.2 | 90.2 | 90.2 | 80.2 | 68.4 | 56.6 | 86.8 | 6.0 | 86.8 | 86.8 | 86.8 | 77.4 | 65.6 | 53.9 |
| 2625 | 77 | 136.3 | 5.5 | 76.2 | 61.5 | 46.8 | - | - | - | 127.7 | 6.4 | 74.0 | 58.6 | 43.2 | - | - | - |
| | 72 | 124.8 | 5.5 | 88.8 | 74.6 | 60.4 | 46.2 | - | - | 117.1 | 6.3 | 85.3 | 71.1 | 56.9 | 42.7 | - | - |
| | 67 | 113.3 | 5.4 | 101.3 | 87.7 | 74.1 | 60.1 | 45.9 | - | 106.4 | 6.3 | 96.6 | 83.6 | 70.6 | 56.5 | 42.4 | - |
| | 62 | 106.2 | 5.3 | 106.2 | 97.0 | 87.7 | 73.3 | 59.8 | 45.8 | 100.8 | 6.2 | 100.8 | 92.6 | 84.3 | 70.1 | 56.3 | 42.3 |
| | 57 | 99.2 | 5.2 | 99.2 | 99.2 | 99.2 | 87.5 | 73.6 | 59.7 | 95.3 | 6.1 | 95.3 | 95.3 | 95.3 | 84.1 | 70.2 | 56.2 |
| 3000 | 77 | 140.2 | 5.5 | 82.5 | 65.0 | 47.5 | - | - | - | 130.3 | 6.4 | 81.2 | 62.7 | 44.2 | - | - | - |
| | 72 | 128.7 | 5.5 | 95.9 | 79.6 | 63.3 | 47.0 | - | - | 120.0 | 6.3 | 92.2 | 76.0 | 59.8 | 43.7 | - | - |
| | 67 | 117.2 | 5.5 | 109.2 | 94.2 | 79.1 | 63.0 | 46.7 | - | 109.7 | 6.3 | 103.2 | 89.4 | 75.5 | 59.4 | 43.2 | - |
| | 62 | 112.7 | 5.4 | 112.7 | 103.8 | 94.9 | 78.6 | 62.8 | 46.7 | 106.7 | 6.2 | 106.7 | 98.9 | 91.2 | 74.9 | 58.9 | 42.8 |
| | 57 | 108.1 | 5.3 | 108.1 | 108.1 | 108.1 | 94.8 | 78.8 | 62.9 | 103.7 | 6.2 | 103.7 | 103.7 | 103.7 | 90.7 | 74.7 | 58.6 |
| 3375 | 72 | 132.6 | 5.5 | 103.0 | 84.6 | 66.2 | 47.8 | - | - | 123.0 | 6.3 | 99.1 | 80.9 | 62.8 | 44.6 | - | - |
| | 67 | 121.1 | 5.5 | 117.1 | 100.6 | 84.2 | 65.9 | 47.6 | - | 113.1 | 6.3 | 109.9 | 95.1 | 80.4 | 62.2 | 44.0 | - |
| | 62 | 119.1 | 5.4 | 119.1 | 110.6 | 102.2 | 83.8 | 65.8 | 47.6 | 112.6 | 6.3 | 112.6 | 105.3 | 98.0 | 79.7 | 61.6 | 43.4 |
| | 57 | 117.0 | 5.4 | 117.0 | 117.0 | 117.0 | 102.1 | 84.0 | 66.0 | 112.2 | 6.3 | 112.2 | 112.2 | 112.2 | 97.4 | 79.2 | 61.0 |
| 3750 | 72 | 136.4 | 5.5 | 110.1 | 89.6 | 69.0 | 48.5 | - | - | 125.9 | 6.3 | 106.0 | 85.9 | 65.7 | 45.6 | - | - |
| | 67 | 125.0 | 5.5 | 125.0 | 107.1 | 89.2 | 68.8 | 48.4 | - | 116.5 | 6.3 | 116.5 | 100.9 | 85.3 | 65.1 | 44.9 | - |
| | 62 | 125.5 | 5.5 | 125.5 | 117.4 | 109.4 | 89.1 | 68.8 | 48.6 | 118.5 | 6.3 | 118.5 | 111.7 | 104.9 | 84.6 | 64.3 | 44.0 |
| | 57 | 126.0 | 5.5 | 126.0 | 126.0 | 126.0 | 109.4 | 89.3 | 69.1 | 120.6 | 6.3 | 120.6 | 120.6 | 120.6 | 104.1 | 83.7 | 63.4 |
| | | 95°F | | | | | | | | 105°F | | | | | | | |
| 1875 | 77 | 116.5 | 7.2 | 55.7 | 46.4 | 37.1 | - | - | - | 108.1 | 8.2 | 52.3 | 43.8 | 35.3 | - | - | - |
| | 72 | 105.1 | 7.1 | 68.5 | 57.9 | 47.4 | 36.9 | - | - | 97.6 | 8.1 | 65.5 | 55.2 | 44.9 | 34.6 | - | - |
| | 67 | 93.7 | 7.0 | 81.2 | 69.4 | 57.6 | 47.4 | 37.2 | - | 87.0 | 7.9 | 78.6 | 66.6 | 54.5 | 44.4 | 34.3 | - |
| | 62 | 84.6 | 6.9 | 84.6 | 76.2 | 67.9 | 58.0 | 48.1 | 38.3 | 80.5 | 7.9 | 80.5 | 72.3 | 64.1 | 54.1 | 44.2 | 34.2 |
| 2250 | 77 | 117.8 | 7.2 | 63.8 | 51.1 | 38.4 | - | - | - | 108.8 | 8.2 | 60.6 | 48.3 | 36.0 | - | - | - |
| | 72 | 107.2 | 7.1 | 75.1 | 62.8 | 50.4 | 38.0 | - | - | 99.4 | 8.1 | 71.9 | 59.7 | 47.6 | 35.4 | - | - |
| | 67 | 96.6 | 7.0 | 86.5 | 74.5 | 62.4 | 50.2 | 38.1 | - | 89.9 | 8.0 | 83.2 | 71.2 | 59.1 | 47.0 | 34.9 | - |
| | 62 | 90.0 | 6.9 | 90.0 | 82.2 | 74.4 | 62.4 | 50.5 | 38.5 | 85.2 | 8.0 | 85.2 | 77.9 | 70.6 | 58.6 | 46.5 | 34.4 |
| | 57 | 83.4 | 6.9 | 83.4 | 83.4 | 83.4 | 74.6 | 62.9 | 51.1 | 80.5 | 7.9 | 80.5 | 80.5 | 80.5 | 70.1 | 58.1 | 46.1 |
| 2625 | 77 | 119.1 | 7.2 | 71.8 | 55.7 | 39.7 | - | - | - | 109.6 | 8.2 | 68.9 | 52.8 | 36.8 | - | - | - |
| | 72 | 109.3 | 7.1 | 81.8 | 67.6 | 53.4 | 39.2 | - | - | 101.2 | 8.1 | 78.3 | 64.3 | 50.2 | 36.2 | - | - |
| | 67 | 99.4 | 7.1 | 91.9 | 79.5 | 67.1 | 53.0 | 38.9 | - | 92.8 | 8.0 | 87.8 | 75.7 | 63.7 | 49.6 | 35.5 | - |
| | 62 | 95.4 | 7.0 | 95.4 | 88.1 | 80.9 | 66.8 | 52.8 | 38.7 | 89.9 | 8.0 | 89.9 | 83.5 | 77.1 | 63.0 | 48.8 | 34.6 |
| | 57 | 91.4 | 7.0 | 91.4 | 91.4 | 91.4 | 80.7 | 66.7 | 52.8 | 87.0 | 8.0 | 87.0 | 87.0 | 87.0 | 76.4 | 62.1 | 47.9 |
| 3000 | 77 | 120.4 | 7.2 | 79.9 | 60.4 | 40.9 | - | - | - | 110.3 | 8.2 | 77.1 | 57.3 | 37.5 | - | - | - |
| | 72 | 111.3 | 7.2 | 88.5 | 72.5 | 56.4 | 40.3 | - | - | 103.0 | 8.2 | 84.8 | 68.8 | 52.9 | 36.9 | - | - |
| | 67 | 102.2 | 7.1 | 97.2 | 84.6 | 71.9 | 55.8 | 39.7 | - | 95.7 | 8.1 | 92.4 | 80.3 | 68.3 | 52.2 | 36.0 | - |
| | 62 | 100.8 | 7.1 | 100.8 | 94.1 | 87.4 | 71.2 | 55.1 | 39.0 | 94.6 | 8.1 | 94.6 | 89.1 | 83.7 | 67.4 | 51.1 | 34.8 |
| | 57 | 99.3 | 7.0 | 99.3 | 99.3 | 99.3 | 86.7 | 70.5 | 54.4 | 93.5 | 8.1 | 93.5 | 93.5 | 93.5 | 82.6 | 66.1 | 49.7 |
| 3375 | 72 | 113.4 | 7.2 | 95.2 | 77.3 | 59.4 | 41.5 | - | - | 104.8 | 8.2 | 91.2 | 73.4 | 55.5 | 37.7 | - | - |
| | 67 | 105.1 | 7.1 | 102.6 | 89.6 | 76.6 | 58.6 | 40.5 | - | 98.6 | 8.2 | 97.0 | 84.9 | 72.9 | 54.7 | 36.6 | - |
| | 62 | 106.2 | 7.1 | 106.2 | 100.0 | 93.9 | 75.7 | 57.4 | 39.2 | 99.3 | 8.2 | 99.3 | 94.7 | 90.2 | 71.8 | 53.4 | 35.0 |
| | 57 | 107.3 | 7.1 | 107.3 | 107.3 | 107.3 | 92.7 | 74.4 | 56.0 | 100.0 | 8.2 | 100.0 | 100.0 | 100.0 | 88.8 | 70.2 | 51.5 |
| 3750 | 72 | 115.5 | 7.2 | 101.9 | 82.2 | 62.4 | 42.7 | - | - | 106.6 | 8.2 | 97.6 | 77.9 | 58.2 | 38.5 | - | - |
| | 67 | 107.9 | 7.2 | 107.9 | 94.7 | 81.4 | 61.4 | 41.3 | - | 101.5 | 8.2 | 101.5 | 89.5 | 77.4 | 57.3 | 37.2 | - |
| | 62 | 111.6 | 7.2 | 111.6 | 106.0 | 100.4 | 80.1 | 59.8 | 39.5 | 104.0 | 8.2 | 104.0 | 100.3 | 96.7 | 76.2 | 55.7 | 35.2 |
| | 57 | 115.3 | 7.2 | 115.3 | 115.3 | 115.3 | 98.8 | 78.2 | 57.6 | 106.4 | 8.2 | 106.4 | 106.4 | 106.4 | 95.0 | 74.2 | 53.3 |

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 115°F | | | | | | | | 125°F | | | | | | | |
| 1875 | 77 | 99.7 | 9.2 | 48.9 | 41.2 | 33.5 | - | - | - | 91.3 | 10.2 | 45.4 | 38.5 | 31.6 | - | - | - |
| | 72 | 90.0 | 9.1 | 62.5 | 52.4 | 42.4 | 32.4 | - | - | 82.4 | 10.0 | 59.5 | 49.7 | 39.9 | 30.2 | - | - |
| | 67 | 80.3 | 8.9 | 76.1 | 63.7 | 51.4 | 41.3 | 31.3 | - | 73.6 | 9.9 | 73.6 | 60.9 | 48.3 | 38.3 | 28.3 | - |
| | 62 | 76.5 | 8.9 | 76.5 | 68.4 | 60.4 | 50.3 | 40.2 | 30.1 | 72.4 | 10.0 | 72.4 | 64.5 | 56.6 | 46.4 | 36.2 | 26.1 |
| 2250 | 77 | 99.8 | 9.2 | 57.4 | 45.5 | 33.7 | - | - | - | 90.8 | 10.2 | 54.2 | 42.7 | 31.3 | - | - | - |
| | 72 | 91.5 | 9.1 | 68.6 | 56.7 | 44.7 | 32.8 | - | - | 83.7 | 10.1 | 65.4 | 53.6 | 41.9 | 30.2 | - | - |
| | 67 | 83.3 | 9.0 | 79.9 | 67.9 | 55.8 | 43.7 | 31.7 | - | 76.6 | 9.9 | 76.6 | 64.6 | 52.5 | 40.5 | 28.5 | - |
| | 62 | 80.4 | 9.0 | 80.4 | 73.7 | 66.9 | 54.7 | 42.5 | 30.3 | 75.7 | 10.0 | 75.7 | 69.4 | 63.1 | 50.8 | 38.5 | 26.2 |
| | 57 | 77.6 | 9.0 | 77.6 | 77.6 | 77.6 | 65.6 | 53.3 | 41.0 | 74.8 | 10.1 | 74.8 | 74.3 | 73.7 | 61.2 | 48.6 | 36.0 |
| 2625 | 77 | 100.0 | 9.2 | 65.9 | 49.9 | 33.9 | - | - | - | 90.4 | 10.2 | 62.9 | 46.9 | 31.0 | - | - | - |
| | 72 | 93.1 | 9.1 | 74.8 | 60.9 | 47.0 | 33.2 | - | - | 85.0 | 10.1 | 71.3 | 57.6 | 43.9 | 30.2 | - | - |
| | 67 | 86.2 | 9.0 | 83.7 | 72.0 | 60.2 | 46.1 | 32.0 | - | 79.6 | 10.0 | 79.6 | 68.2 | 56.8 | 42.7 | 28.6 | - |
| | 62 | 84.4 | 9.1 | 84.4 | 78.9 | 73.4 | 59.1 | 44.8 | 30.5 | 79.0 | 10.1 | 79.0 | 74.3 | 69.7 | 55.2 | 40.8 | 26.3 |
| | 57 | 82.6 | 9.1 | 82.6 | 82.6 | 82.6 | 72.1 | 57.5 | 43.0 | 78.3 | 10.1 | 78.3 | 78.3 | 78.3 | 67.8 | 52.9 | 38.1 |
| 3000 | 77 | 100.1 | 9.2 | 74.4 | 54.2 | 34.1 | - | - | - | 90.0 | 10.2 | 71.7 | 51.2 | 30.6 | - | - | - |
| | 72 | 94.7 | 9.2 | 81.0 | 65.2 | 49.4 | 33.5 | - | - | 86.3 | 10.2 | 77.2 | 61.5 | 45.8 | 30.2 | - | - |
| | 67 | 89.2 | 9.1 | 87.5 | 76.1 | 64.6 | 48.5 | 32.4 | - | 82.7 | 10.1 | 82.7 | 71.8 | 61.0 | 44.9 | 28.8 | - |
| | 62 | 88.4 | 9.1 | 88.4 | 84.2 | 79.9 | 63.5 | 47.1 | 30.6 | 82.2 | 10.1 | 82.2 | 79.2 | 76.2 | 59.6 | 43.0 | 26.5 |
| | 57 | 87.6 | 9.1 | 87.6 | 87.6 | 87.6 | 78.5 | 61.7 | 45.0 | 81.8 | 10.2 | 81.8 | 81.8 | 81.8 | 74.3 | 57.3 | 40.3 |
| 3375 | 72 | 96.2 | 9.2 | 87.1 | 69.4 | 51.7 | 33.9 | - | - | 87.6 | 10.2 | 83.1 | 65.4 | 47.8 | 30.2 | - | - |
| | 67 | 92.2 | 9.2 | 91.3 | 80.2 | 69.1 | 50.9 | 32.8 | - | 85.7 | 10.2 | 85.7 | 75.5 | 65.3 | 47.1 | 28.9 | - |
| | 62 | 92.4 | 9.2 | 92.4 | 89.4 | 86.4 | 67.9 | 49.4 | 30.8 | 85.5 | 10.2 | 85.5 | 84.1 | 82.7 | 64.0 | 45.3 | 26.6 |
| | 57 | 92.6 | 9.2 | 92.6 | 92.6 | 92.6 | 84.9 | 65.9 | 47.0 | 85.3 | 10.2 | 85.3 | 85.3 | 85.3 | 80.9 | 61.7 | 42.5 |
| 3750 | 72 | 97.8 | 9.3 | 93.3 | 73.6 | 54.0 | 34.3 | - | - | 89.0 | 10.3 | 89.0 | 69.4 | 49.8 | 30.2 | - | - |
| | 67 | 95.2 | 9.2 | 95.2 | 84.3 | 73.5 | 53.3 | 33.2 | - | 88.8 | 10.3 | 88.8 | 79.1 | 69.5 | 49.3 | 29.1 | - |
| | 62 | 96.4 | 9.2 | 96.4 | 94.7 | 93.0 | 72.3 | 51.6 | 31.0 | 88.8 | 10.2 | 88.8 | 88.8 | 88.8 | 68.4 | 47.6 | 26.7 |
| | 57 | 97.6 | 9.2 | 97.6 | 97.6 | 97.6 | 91.3 | 70.1 | 49.0 | 88.8 | 10.2 | 88.8 | 88.8 | 88.8 | 87.5 | 66.1 | 44.6 |

## Table 5: WP102 (8.5 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM | WB (°F) | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) Return dry bulb (°F) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 2125 | 77 | 134.3 | 5.8 | 67.4 | 58.5 | 49.6 | - | - | - | 127.5 | 6.7 | 63.5 | 54.8 | 46.0 | - | - | - |
| | 72 | 121.7 | 5.7 | 80.0 | 68.9 | 57.8 | 46.7 | - | - | 115.3 | 6.6 | 77.1 | 65.9 | 54.7 | 43.5 | - | - |
| | 67 | 109.2 | 5.6 | 92.5 | 79.2 | 66.0 | 56.7 | 45.8 | - | 103.2 | 6.5 | 90.7 | 77.1 | 63.4 | 53.3 | 42.5 | - |
| | 62 | 98.0 | 5.6 | 98.0 | 86.1 | 74.2 | 64.2 | 56.1 | 47.0 | 95.1 | 6.4 | 95.1 | 83.6 | 72.0 | 62.0 | 52.8 | 43.2 |
| 2550 | 77 | 136.4 | 5.9 | 75.3 | 62.5 | 49.7 | - | - | - | 128.7 | 6.7 | 72.3 | 59.0 | 45.8 | - | - | - |
| | 72 | 124.9 | 5.8 | 87.7 | 74.3 | 60.9 | 47.6 | - | - | 117.9 | 6.6 | 84.7 | 71.1 | 57.6 | 44.0 | - | - |
| | 67 | 113.5 | 5.7 | 100.1 | 86.1 | 72.2 | 60.2 | 46.9 | - | 107.1 | 6.5 | 97.1 | 83.2 | 69.4 | 56.7 | 43.3 | - |
| | 62 | 104.4 | 5.6 | 104.4 | 93.9 | 83.5 | 70.8 | 59.6 | 47.6 | 100.4 | 6.5 | 100.4 | 90.8 | 81.2 | 68.3 | 56.2 | 43.7 |
| | 57 | 95.3 | 5.5 | 95.3 | 95.3 | 94.7 | 83.5 | 72.3 | 61.0 | 93.7 | 6.4 | 93.7 | 93.7 | 93.0 | 81.0 | 69.0 | 57.1 |
| 2975 | 77 | 138.4 | 5.9 | 83.2 | 66.5 | 49.8 | - | - | - | 129.9 | 6.7 | 81.0 | 63.2 | 45.5 | - | - | - |
| | 72 | 128.1 | 5.8 | 95.4 | 79.8 | 64.1 | 48.5 | - | - | 120.4 | 6.7 | 92.2 | 76.3 | 60.4 | 44.5 | - | - |
| | 67 | 117.7 | 5.7 | 107.7 | 93.1 | 78.4 | 63.7 | 47.9 | - | 110.9 | 6.6 | 103.4 | 89.4 | 75.4 | 60.0 | 44.1 | - |
| | 62 | 110.7 | 5.6 | 110.7 | 101.8 | 92.8 | 77.4 | 63.1 | 48.2 | 105.7 | 6.5 | 105.7 | 98.0 | 90.3 | 74.6 | 59.5 | 44.2 |
| | 57 | 103.8 | 5.6 | 103.8 | 103.8 | 103.5 | 92.7 | 78.2 | 63.7 | 100.5 | 6.5 | 100.5 | 100.5 | 100.5 | 90.1 | 75.0 | 59.9 |
| 3400 | 77 | 140.5 | 5.9 | 91.0 | 70.4 | 49.9 | - | - | - | 131.1 | 6.8 | 89.7 | 67.5 | 45.2 | - | - | - |
| | 72 | 131.2 | 5.8 | 103.1 | 85.2 | 67.3 | 49.4 | - | - | 122.9 | 6.7 | 99.8 | 81.5 | 63.3 | 45.0 | - | - |
| | 67 | 121.9 | 5.7 | 115.3 | 100.0 | 84.7 | 67.2 | 49.0 | - | 114.8 | 6.6 | 109.8 | 95.6 | 81.4 | 63.3 | 44.8 | - |
| | 62 | 117.1 | 5.7 | 117.1 | 109.6 | 102.1 | 84.0 | 66.6 | 48.8 | 111.0 | 6.6 | 111.0 | 105.2 | 99.4 | 81.0 | 62.9 | 44.6 |
| | 57 | 112.3 | 5.7 | 112.3 | 112.3 | 112.3 | 101.8 | 84.1 | 66.4 | 107.2 | 6.6 | 107.2 | 107.2 | 107.2 | 99.3 | 81.0 | 62.7 |
| 3825 | 72 | 134.4 | 5.8 | 110.9 | 90.7 | 70.5 | 50.3 | - | - | 125.5 | 6.7 | 107.3 | 86.7 | 66.1 | 45.5 | - | - |
| | 67 | 126.2 | 5.8 | 122.8 | 106.9 | 90.9 | 70.7 | 50.1 | - | 118.6 | 6.6 | 116.1 | 101.7 | 87.4 | 66.6 | 45.6 | - |
| | 62 | 123.5 | 5.7 | 123.5 | 117.4 | 111.4 | 90.6 | 70.1 | 49.4 | 116.3 | 6.6 | 116.3 | 112.4 | 108.6 | 87.3 | 66.3 | 45.1 |
| | 57 | 120.7 | 5.7 | 120.7 | 120.7 | 120.7 | 111.0 | 90.1 | 69.1 | 113.9 | 6.6 | 113.9 | 113.9 | 113.9 | 108.4 | 86.9 | 65.5 |
| 4250 | 72 | 137.6 | 5.9 | 118.6 | 96.1 | 73.6 | 51.2 | - | - | 128.0 | 6.7 | 114.8 | 91.9 | 69.0 | 46.1 | - | - |
| | 67 | 130.4 | 5.8 | 130.4 | 113.8 | 97.2 | 74.2 | 51.1 | - | 122.5 | 6.7 | 122.5 | 107.9 | 93.4 | 69.9 | 46.4 | - |
| | 62 | 129.8 | 5.8 | 129.8 | 125.3 | 120.7 | 97.1 | 73.6 | 50.0 | 121.6 | 6.7 | 121.6 | 119.7 | 117.7 | 93.7 | 69.6 | 45.6 |
| | 57 | 129.2 | 5.8 | 129.2 | 129.2 | 129.2 | 120.1 | 96.0 | 71.8 | 120.7 | 6.7 | 120.7 | 120.7 | 120.7 | 117.5 | 92.9 | 68.3 |
| | | 95°F | | | | | | | | 105°F | | | | | | | |
| 2125 | 77 | 120.7 | 7.6 | 59.6 | 51.1 | 42.5 | - | - | - | 112.8 | 8.7 | 58.7 | 49.1 | 39.5 | - | - | - |
| | 72 | 108.9 | 7.5 | 74.3 | 63.0 | 51.6 | 40.3 | - | - | 101.3 | 8.6 | 71.5 | 60.0 | 48.5 | 37.0 | - | - |
| | 67 | 97.2 | 7.4 | 89.0 | 74.9 | 60.8 | 50.0 | 39.2 | - | 89.7 | 8.4 | 84.3 | 70.9 | 57.5 | 46.5 | 35.6 | - |
| | 62 | 92.1 | 7.3 | 92.1 | 81.0 | 69.9 | 59.7 | 49.5 | 39.4 | 86.2 | 8.5 | 86.2 | 76.3 | 66.4 | 56.1 | 45.7 | 35.3 |
| 2550 | 77 | 121.0 | 7.6 | 69.3 | 55.5 | 41.8 | - | - | - | 112.5 | 8.8 | 67.3 | 52.7 | 38.2 | - | - | - |
| | 72 | 110.8 | 7.5 | 81.7 | 67.9 | 54.2 | 40.4 | - | - | 102.9 | 8.6 | 78.1 | 64.3 | 50.6 | 36.9 | - | - |
| | 67 | 100.6 | 7.4 | 94.1 | 80.3 | 66.5 | 53.1 | 39.7 | - | 93.2 | 8.5 | 88.8 | 75.9 | 63.0 | 49.5 | 36.0 | - |
| | 62 | 96.4 | 7.4 | 96.4 | 87.6 | 78.9 | 65.8 | 52.8 | 39.7 | 90.2 | 8.5 | 90.2 | 82.8 | 75.5 | 62.1 | 48.8 | 35.5 |
| | 57 | 92.1 | 7.4 | 92.1 | 92.1 | 91.2 | 78.5 | 65.8 | 53.1 | 87.2 | 8.5 | 87.2 | 87.2 | 87.2 | 74.8 | 61.7 | 48.6 |
| 2975 | 77 | 121.3 | 7.6 | 78.9 | 60.0 | 41.2 | - | - | - | 112.3 | 8.8 | 75.9 | 56.4 | 36.8 | - | - | - |
| | 72 | 112.7 | 7.5 | 89.0 | 72.9 | 56.7 | 40.6 | - | - | 104.5 | 8.7 | 84.7 | 68.7 | 52.7 | 36.7 | - | - |
| | 67 | 104.1 | 7.4 | 99.2 | 85.7 | 72.3 | 56.2 | 40.2 | - | 96.7 | 8.5 | 93.4 | 81.0 | 68.6 | 52.5 | 36.3 | - |
| | 62 | 100.6 | 7.4 | 100.6 | 94.2 | 87.8 | 71.9 | 56.0 | 40.1 | 94.2 | 8.6 | 94.2 | 89.3 | 84.5 | 68.2 | 51.9 | 35.7 |
| | 57 | 97.1 | 7.4 | 97.1 | 97.1 | 97.1 | 87.6 | 71.8 | 56.0 | 91.7 | 8.6 | 91.7 | 91.7 | 91.7 | 83.9 | 67.5 | 51.1 |
| 3400 | 77 | 121.7 | 7.6 | 88.5 | 64.5 | 40.5 | - | - | - | 112.0 | 8.8 | 84.5 | 60.0 | 35.5 | - | - | - |
| | 72 | 114.6 | 7.6 | 96.4 | 77.8 | 59.3 | 40.7 | - | - | 106.1 | 8.7 | 91.2 | 73.0 | 54.8 | 36.6 | - | - |
| | 67 | 107.6 | 7.5 | 104.3 | 91.2 | 78.0 | 59.4 | 40.7 | - | 100.1 | 8.6 | 97.9 | 86.1 | 74.2 | 55.5 | 36.7 | - |
| | 62 | 104.9 | 7.5 | 104.9 | 100.8 | 96.8 | 78.0 | 59.2 | 40.5 | 98.2 | 8.6 | 98.2 | 95.8 | 93.5 | 74.3 | 55.0 | 35.8 |
| | 57 | 102.2 | 7.4 | 102.2 | 102.2 | 102.2 | 96.7 | 77.8 | 58.9 | 96.2 | 8.6 | 96.2 | 96.2 | 96.2 | 93.1 | 73.4 | 53.6 |
| 3825 | 72 | 116.5 | 7.6 | 103.7 | 82.8 | 61.8 | 40.8 | - | - | 107.7 | 8.7 | 97.8 | 77.4 | 56.9 | 36.5 | - | - |
| | 67 | 111.0 | 7.5 | 109.4 | 96.6 | 83.8 | 62.5 | 41.2 | - | 103.6 | 8.6 | 102.5 | 91.1 | 79.7 | 58.4 | 37.1 | - |
| | 62 | 109.1 | 7.5 | 109.1 | 107.4 | 105.8 | 84.1 | 62.5 | 40.9 | 102.2 | 8.6 | 102.2 | 102.2 | 102.2 | 80.3 | 58.2 | 36.0 |
| | 57 | 107.2 | 7.5 | 107.2 | 107.2 | 107.2 | 105.8 | 83.8 | 61.8 | 100.7 | 8.7 | 100.7 | 100.7 | 100.7 | 100.7 | 79.2 | 56.1 |
| 4250 | 72 | 118.4 | 7.6 | 111.1 | 87.7 | 64.3 | 41.0 | - | - | 109.3 | 8.8 | 104.4 | 81.7 | 59.1 | 36.4 | - | - |
| | 67 | 114.5 | 7.5 | 114.5 | 102.0 | 89.5 | 65.6 | 41.7 | - | 107.0 | 8.7 | 107.0 | 96.2 | 85.3 | 61.4 | 37.5 | - |
| | 62 | 113.4 | 7.5 | 113.4 | 113.4 | 113.4 | 90.2 | 65.7 | 41.2 | 106.1 | 8.7 | 106.1 | 106.1 | 106.1 | 86.4 | 61.3 | 36.1 |
| | 57 | 112.2 | 7.5 | 112.2 | 112.2 | 112.2 | 112.2 | 89.8 | 64.7 | 105.2 | 8.7 | 105.2 | 105.2 | 105.2 | 105.2 | 85.0 | 58.7 |

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 115°F | | | | | | | | 125°F | | | | | | | |
| 2125 | 77 | 104.9 | 9.9 | 57.7 | 47.1 | 36.5 | - | - | - | 97.0 | 11.0 | 56.8 | 45.2 | 33.5 | - | - | - |
| | 72 | 93.6 | 9.7 | 68.7 | 57.0 | 45.3 | 33.7 | - | - | 85.9 | 10.8 | 65.8 | 54.0 | 42.2 | 30.3 | - | - |
| | 67 | 82.3 | 9.5 | 79.6 | 66.9 | 54.1 | 43.0 | 31.9 | - | 74.9 | 10.6 | 74.9 | 62.8 | 50.8 | 39.5 | 28.3 | - |
| | 62 | 80.4 | 9.6 | 80.4 | 71.7 | 63.0 | 52.4 | 41.9 | 31.3 | 74.5 | 10.7 | 74.5 | 67.0 | 59.5 | 48.8 | 38.0 | 27.3 |
| 2550 | 77 | 104.1 | 9.9 | 65.4 | 49.9 | 34.5 | - | - | - | 95.6 | 11.0 | 63.4 | 47.1 | 30.8 | - | - | - |
| | 72 | 94.9 | 9.7 | 74.5 | 60.7 | 47.0 | 33.3 | - | - | 87.0 | 10.9 | 70.9 | 57.2 | 43.4 | 29.7 | - | - |
| | 67 | 85.8 | 9.6 | 83.6 | 71.6 | 59.5 | 45.9 | 32.2 | - | 78.3 | 10.7 | 78.3 | 67.2 | 56.0 | 42.2 | 28.5 | - |
| | 62 | 84.1 | 9.6 | 84.1 | 78.1 | 72.0 | 58.4 | 44.9 | 31.3 | 77.9 | 10.8 | 77.9 | 73.3 | 68.6 | 54.8 | 40.9 | 27.0 |
| | 57 | 82.4 | 9.7 | 82.4 | 82.4 | 82.4 | 71.0 | 57.5 | 44.0 | 77.5 | 10.8 | 77.5 | 77.5 | 77.5 | 67.3 | 53.3 | 39.4 |
| 2975 | 77 | 103.2 | 9.9 | 73.0 | 52.7 | 32.5 | - | - | - | 94.2 | 11.1 | 70.0 | 49.1 | 28.2 | - | - | - |
| | 72 | 96.2 | 9.8 | 80.3 | 64.5 | 48.7 | 32.9 | - | - | 88.0 | 10.9 | 75.9 | 60.3 | 44.7 | 29.1 | - | - |
| | 67 | 89.2 | 9.7 | 87.6 | 76.2 | 64.9 | 48.7 | 32.5 | - | 81.8 | 10.8 | 81.8 | 71.5 | 61.2 | 44.9 | 28.6 | - |
| | 62 | 87.8 | 9.7 | 87.8 | 84.5 | 81.1 | 64.5 | 47.8 | 31.2 | 81.4 | 10.8 | 81.4 | 79.6 | 77.8 | 60.8 | 43.8 | 26.8 |
| | 57 | 86.4 | 9.7 | 86.4 | 86.4 | 86.4 | 80.3 | 63.2 | 46.1 | 81.0 | 10.9 | 81.0 | 81.0 | 81.0 | 76.6 | 58.9 | 41.2 |
| 3400 | 77 | 102.4 | 9.9 | 80.6 | 55.5 | 30.5 | - | - | - | 92.7 | 11.1 | 76.7 | 51.1 | 25.5 | - | - | - |
| | 72 | 97.5 | 9.8 | 86.1 | 68.2 | 50.4 | 32.6 | - | - | 89.0 | 11.0 | 80.9 | 63.5 | 46.0 | 28.5 | - | - |
| | 67 | 92.7 | 9.7 | 91.6 | 80.9 | 70.3 | 51.5 | 32.8 | - | 85.2 | 10.9 | 85.2 | 75.8 | 66.5 | 47.6 | 28.8 | - |
| | 62 | 91.5 | 9.7 | 91.5 | 90.9 | 90.2 | 70.5 | 50.8 | 31.2 | 84.8 | 10.9 | 84.8 | 84.8 | 84.8 | 66.8 | 46.6 | 26.5 |
| | 57 | 90.3 | 9.8 | 90.3 | 90.3 | 90.3 | 89.5 | 68.9 | 48.3 | 84.4 | 10.9 | 84.4 | 84.4 | 84.4 | 84.4 | 64.4 | 43.0 |
| 3825 | 72 | 98.8 | 9.9 | 91.9 | 72.0 | 52.1 | 32.2 | - | - | 90.0 | 11.0 | 86.0 | 66.6 | 47.2 | 27.9 | - | - |
| | 67 | 96.1 | 9.8 | 95.6 | 85.6 | 75.7 | 54.4 | 33.1 | - | 88.7 | 10.9 | 88.7 | 80.2 | 71.7 | 50.3 | 29.0 | - |
| | 62 | 95.2 | 9.8 | 95.2 | 95.2 | 95.2 | 76.6 | 53.8 | 31.1 | 88.3 | 11.0 | 88.3 | 88.3 | 88.3 | 72.8 | 49.5 | 26.2 |
| | 57 | 94.3 | 9.8 | 94.3 | 94.3 | 94.3 | 94.3 | 74.6 | 50.4 | 87.9 | 11.0 | 87.9 | 87.9 | 87.9 | 87.9 | 70.0 | 44.7 |
| 4250 | 72 | 100.2 | 9.9 | 97.7 | 75.7 | 53.8 | 31.8 | - | - | 91.0 | 11.1 | 91.0 | 69.8 | 48.5 | 27.3 | - | - |
| | 67 | 99.6 | 9.9 | 99.6 | 90.3 | 81.1 | 57.2 | 33.4 | - | 92.1 | 11.0 | 92.1 | 84.5 | 76.9 | 53.0 | 29.2 | - |
| | 62 | 98.9 | 9.9 | 98.9 | 98.9 | 98.9 | 82.6 | 56.8 | 31.0 | 91.7 | 11.0 | 91.7 | 91.7 | 91.7 | 78.8 | 52.4 | 25.9 |
| | 57 | 98.3 | 9.9 | 98.3 | 98.3 | 98.3 | 98.3 | 80.3 | 52.6 | 91.3 | 11.0 | 91.3 | 91.3 | 91.3 | 91.3 | 75.6 | 46.5 |

## Table 6: WP120 (10 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM | WB (°F) | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) Return dry bulb (°F) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 2500 | 77 | 158.1 | 7.4 | 77.6 | 65.6 | 53.6 | - | - | - | 148.1 | 8.5 | 72.9 | 61.5 | 50.2 | - | - | - |
| | 72 | 143.5 | 7.2 | 93.8 | 80.2 | 66.7 | 53.1 | - | - | 134.5 | 8.4 | 90.3 | 76.8 | 63.3 | 49.7 | - | - |
| | 67 | 128.9 | 7.1 | 109.9 | 94.8 | 79.7 | 66.7 | 53.0 | - | 120.9 | 8.2 | 107.8 | 92.0 | 76.3 | 63.1 | 49.5 | - |
| | 62 | 117.4 | 7.0 | 117.4 | 105.6 | 92.7 | 77.0 | 66.4 | 53.3 | 113.4 | 8.1 | 113.4 | 101.8 | 89.3 | 74.8 | 62.9 | 49.6 |
| 3000 | 77 | 161.9 | 7.4 | 86.4 | 70.6 | 54.7 | - | - | - | 150.9 | 8.5 | 82.8 | 66.7 | 50.7 | - | - | - |
| | 72 | 148.2 | 7.3 | 102.9 | 86.7 | 70.5 | 54.3 | - | - | 138.6 | 8.4 | 99.2 | 82.9 | 66.7 | 50.4 | - | - |
| | 67 | 134.5 | 7.2 | 119.3 | 102.8 | 86.2 | 70.4 | 54.2 | - | 126.3 | 8.3 | 115.6 | 99.1 | 82.6 | 66.6 | 50.3 | - |
| | 62 | 125.4 | 7.1 | 125.4 | 113.7 | 102.0 | 84.0 | 70.2 | 54.3 | 120.4 | 8.2 | 120.4 | 109.5 | 98.6 | 81.4 | 66.4 | 50.2 |
| | 57 | 116.2 | 7.0 | 116.2 | 116.2 | 116.2 | 102.0 | 86.3 | 70.5 | 114.5 | 8.1 | 114.5 | 114.5 | 114.5 | 98.5 | 82.4 | 66.4 |
| 3500 | 77 | 165.8 | 7.4 | 95.2 | 75.5 | 55.8 | - | - | - | 153.6 | 8.5 | 92.7 | 71.9 | 51.2 | - | - | - |
| | 72 | 153.0 | 7.3 | 112.0 | 93.1 | 74.3 | 55.5 | - | - | 142.7 | 8.4 | 108.0 | 89.0 | 70.1 | 51.1 | - | - |
| | 67 | 140.2 | 7.2 | 128.7 | 110.8 | 92.8 | 74.2 | 55.3 | - | 131.8 | 8.3 | 123.3 | 106.1 | 89.0 | 70.1 | 51.0 | - |
| | 62 | 133.3 | 7.1 | 132.3 | 121.8 | 111.3 | 91.0 | 74.0 | 55.4 | 127.5 | 8.2 | 126.5 | 117.2 | 107.9 | 88.1 | 69.8 | 50.8 |
| | 57 | 126.5 | 7.1 | 126.5 | 126.5 | 126.5 | 111.2 | 92.7 | 74.1 | 123.1 | 8.2 | 123.1 | 123.1 | 123.1 | 107.7 | 88.7 | 69.6 |
| 4000 | 77 | 169.6 | 7.4 | 104.0 | 80.5 | 56.9 | - | - | - | 156.3 | 8.5 | 102.6 | 77.1 | 51.7 | - | - | - |
| | 72 | 157.7 | 7.3 | 121.1 | 99.6 | 78.1 | 56.7 | - | - | 146.8 | 8.4 | 116.8 | 95.2 | 73.5 | 51.8 | - | - |
| | 67 | 145.9 | 7.2 | 138.2 | 118.7 | 99.3 | 78.0 | 56.5 | - | 137.3 | 8.3 | 131.1 | 113.2 | 95.3 | 73.6 | 51.7 | - |
| | 62 | 141.3 | 7.2 | 139.2 | 129.9 | 120.5 | 98.1 | 77.8 | 56.4 | 134.5 | 8.3 | 132.6 | 124.9 | 117.1 | 94.7 | 73.3 | 51.4 |
| | 57 | 136.8 | 7.2 | 136.8 | 136.8 | 136.8 | 120.4 | 99.1 | 77.8 | 131.7 | 8.3 | 131.7 | 131.7 | 131.7 | 116.9 | 94.9 | 72.9 |
| 4500 | 72 | 162.5 | 7.3 | 130.2 | 106.1 | 81.9 | 57.8 | - | - | 150.9 | 8.5 | 125.6 | 101.3 | 76.9 | 52.5 | - | - |
| | 67 | 151.5 | 7.3 | 147.6 | 126.7 | 105.9 | 81.8 | 57.6 | - | 142.8 | 8.4 | 138.8 | 120.2 | 101.6 | 77.1 | 52.5 | - |
| | 62 | 149.3 | 7.3 | 146.1 | 137.9 | 129.8 | 105.1 | 81.6 | 57.5 | 141.5 | 8.4 | 138.7 | 132.5 | 126.4 | 101.3 | 76.8 | 52.0 |
| | 57 | 147.1 | 7.2 | 142.9 | 142.9 | 142.9 | 129.6 | 105.5 | 81.4 | 140.3 | 8.4 | 137.7 | 137.7 | 137.7 | 126.1 | 101.2 | 76.2 |
| 5000 | 72 | 167.2 | 7.4 | 139.3 | 112.5 | 85.8 | 59.0 | - | - | 155.0 | 8.5 | 134.5 | 107.4 | 80.3 | 53.2 | - | - |
| | 67 | 157.2 | 7.3 | 157.0 | 134.7 | 112.4 | 85.6 | 58.8 | - | 148.2 | 8.4 | 146.5 | 127.3 | 108.0 | 80.6 | 53.2 | - |
| | 62 | 157.3 | 7.3 | 153.0 | 146.0 | 139.0 | 112.2 | 85.3 | 58.5 | 148.6 | 8.4 | 144.8 | 140.2 | 135.7 | 108.0 | 80.3 | 52.6 |
| | 57 | 157.3 | 7.3 | 149.0 | 149.0 | 149.0 | 138.8 | 111.9 | 85.0 | 149.0 | 8.4 | 143.0 | 143.0 | 143.0 | 135.4 | 107.4 | 79.4 |
| | | 95°F | | | | | | | | 105°F | | | | | | | |
| 2500 | 77 | 138.2 | 9.7 | 68.1 | 57.4 | 46.8 | - | - | - | 128.2 | 11.1 | 67.0 | 55.5 | 43.9 | - | - | - |
| | 72 | 125.5 | 9.5 | 86.9 | 73.4 | 59.8 | 46.3 | - | - | 116.5 | 10.9 | 83.7 | 70.1 | 56.4 | 42.8 | - | - |
| | 67 | 112.9 | 9.3 | 105.7 | 89.3 | 72.9 | 59.5 | 46.0 | - | 104.8 | 10.7 | 100.4 | 84.7 | 69.0 | 55.6 | 42.2 | - |
| | 62 | 109.4 | 9.2 | 109.4 | 98.1 | 85.9 | 72.6 | 59.3 | 46.0 | 103.7 | 10.7 | 103.7 | 92.8 | 81.5 | 68.3 | 55.1 | 42.0 |
| 3000 | 77 | 139.8 | 9.7 | 79.1 | 62.9 | 46.7 | - | - | - | 129.5 | 11.1 | 77.2 | 60.0 | 42.8 | - | - | - |
| | 72 | 129.0 | 9.5 | 95.5 | 79.1 | 62.8 | 46.5 | - | - | 119.7 | 11.0 | 91.4 | 75.1 | 58.9 | 42.6 | - | - |
| | 67 | 118.2 | 9.4 | 111.8 | 95.4 | 79.0 | 62.7 | 46.4 | - | 109.9 | 10.8 | 105.6 | 90.3 | 75.0 | 58.6 | 42.3 | - |
| | 62 | 115.5 | 9.3 | 115.5 | 105.3 | 95.2 | 78.8 | 62.5 | 46.1 | 109.0 | 10.8 | 108.6 | 99.9 | 91.1 | 74.7 | 58.3 | 41.9 |
| | 57 | 112.8 | 9.2 | 112.8 | 112.8 | 111.4 | 95.0 | 78.6 | 62.3 | 108.2 | 10.7 | 108.2 | 108.2 | 107.2 | 90.7 | 74.2 | 57.8 |
| 3500 | 77 | 141.4 | 9.6 | 90.2 | 68.3 | 46.5 | - | - | - | 130.9 | 11.1 | 87.4 | 64.5 | 41.6 | - | - | - |
| | 72 | 132.4 | 9.5 | 104.0 | 84.9 | 65.8 | 46.8 | - | - | 122.9 | 11.0 | 99.1 | 80.2 | 61.3 | 42.4 | - | - |
| | 67 | 123.4 | 9.4 | 117.9 | 101.5 | 85.2 | 65.9 | 46.7 | - | 114.9 | 10.9 | 110.8 | 95.9 | 81.0 | 61.7 | 42.4 | - |
| | 62 | 121.6 | 9.4 | 120.8 | 112.6 | 104.5 | 85.1 | 65.7 | 46.3 | 114.4 | 10.8 | 113.1 | 106.9 | 100.7 | 81.1 | 61.4 | 41.8 |
| | 57 | 119.8 | 9.3 | 119.8 | 119.8 | 119.8 | 104.2 | 84.7 | 65.1 | 113.8 | 10.8 | 113.8 | 113.8 | 113.8 | 100.4 | 80.4 | 60.4 |
| 4000 | 77 | 143.1 | 9.6 | 101.2 | 73.8 | 46.4 | - | - | - | 132.2 | 11.1 | 97.6 | 69.0 | 40.4 | - | - | - |
| | 72 | 135.9 | 9.6 | 112.6 | 90.7 | 68.8 | 47.0 | - | - | 126.1 | 11.0 | 106.8 | 85.3 | 63.7 | 42.2 | - | - |
| | 67 | 128.7 | 9.5 | 123.9 | 107.6 | 91.3 | 69.1 | 47.0 | - | 120.0 | 10.9 | 116.0 | 101.5 | 87.0 | 64.8 | 42.6 | - |
| | 62 | 127.7 | 9.4 | 126.0 | 119.9 | 113.7 | 91.3 | 68.9 | 46.4 | 119.7 | 10.9 | 117.7 | 114.0 | 110.3 | 87.5 | 64.6 | 41.7 |
| | 57 | 126.7 | 9.4 | 126.7 | 126.7 | 126.7 | 113.5 | 90.8 | 68.0 | 119.5 | 10.9 | 119.4 | 119.4 | 119.4 | 110.1 | 86.5 | 63.0 |
| 4500 | 72 | 139.3 | 9.6 | 121.1 | 96.5 | 71.8 | 47.2 | - | - | 129.3 | 11.0 | 114.5 | 90.3 | 66.1 | 41.9 | - | - |
| | 67 | 134.0 | 9.5 | 130.0 | 113.7 | 97.4 | 72.4 | 47.3 | - | 125.0 | 11.0 | 121.2 | 107.1 | 93.0 | 67.9 | 42.7 | - |
| | 62 | 133.8 | 9.5 | 131.3 | 127.2 | 123.0 | 97.5 | 72.1 | 46.6 | 125.1 | 11.0 | 122.2 | 121.1 | 120.0 | 93.8 | 67.7 | 41.6 |
| | 57 | 133.6 | 9.5 | 132.6 | 132.6 | 132.6 | 122.7 | 96.8 | 70.9 | 125.1 | 11.0 | 123.2 | 123.2 | 123.2 | 119.8 | 92.7 | 65.6 |
| 5000 | 72 | 142.8 | 9.6 | 129.7 | 102.2 | 74.8 | 47.4 | - | - | 132.5 | 11.1 | 122.2 | 95.4 | 68.5 | 41.7 | - | - |
| | 67 | 139.3 | 9.6 | 136.1 | 119.8 | 103.6 | 75.6 | 47.6 | - | 130.1 | 11.0 | 126.4 | 112.7 | 99.1 | 71.0 | 42.9 | - |
| | 62 | 139.9 | 9.6 | 136.6 | 134.4 | 132.3 | 103.8 | 75.3 | 46.7 | 130.4 | 11.0 | 126.7 | 126.7 | 126.7 | 100.2 | 70.9 | 41.5 |
| | 57 | 140.6 | 9.6 | 137.0 | 137.0 | 137.0 | 132.0 | 102.9 | 73.8 | 130.8 | 11.0 | 127.1 | 127.1 | 127.1 | 127.1 | 98.8 | 68.2 |

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 115°F | | | | | | | | 125°F | | | | | | | |
| 2500 | 77 | 118.1 | 12.6 | 65.9 | 53.5 | 41.1 | - | - | - | 108.1 | 14.1 | 64.7 | 51.5 | 38.2 | - | - | - |
| | 72 | 107.4 | 12.4 | 80.5 | 66.8 | 53.0 | 39.3 | - | - | 98.4 | 13.8 | 77.3 | 63.5 | 49.7 | 35.8 | - | - |
| | 67 | 96.7 | 12.1 | 95.1 | 80.1 | 65.0 | 51.7 | 38.3 | - | 88.7 | 13.6 | 88.7 | 75.5 | 61.1 | 47.7 | 34.4 | - |
| | 62 | 98.0 | 12.2 | 97.9 | 87.5 | 77.0 | 64.0 | 50.9 | 37.9 | 92.3 | 13.6 | 91.8 | 82.2 | 72.5 | 59.7 | 46.8 | 33.9 |
| 3000 | 77 | 119.2 | 12.6 | 75.2 | 57.0 | 38.8 | - | - | - | 108.9 | 14.1 | 73.3 | 54.1 | 34.9 | - | - | - |
| | 72 | 110.4 | 12.4 | 87.3 | 71.1 | 54.9 | 38.7 | - | - | 101.1 | 13.9 | 83.3 | 67.1 | 50.9 | 34.7 | - | - |
| | 67 | 101.6 | 12.2 | 99.4 | 85.2 | 70.9 | 54.6 | 38.2 | - | 93.3 | 13.7 | 93.3 | 80.1 | 66.9 | 50.5 | 34.2 | - |
| | 62 | 102.6 | 12.2 | 101.7 | 94.4 | 87.0 | 70.5 | 54.1 | 37.6 | 96.1 | 13.7 | 94.9 | 88.9 | 82.9 | 66.4 | 49.8 | 33.3 |
| | 57 | 103.6 | 12.2 | 103.6 | 103.5 | 103.0 | 86.4 | 69.9 | 53.3 | 99.0 | 13.7 | 96.5 | 96.5 | 96.5 | 82.2 | 65.5 | 48.8 |
| 3500 | 77 | 120.3 | 12.6 | 84.6 | 60.6 | 36.6 | - | - | - | 109.7 | 14.1 | 81.9 | 56.8 | 31.7 | - | - | - |
| | 72 | 113.3 | 12.4 | 94.2 | 75.5 | 56.7 | 38.0 | - | - | 103.8 | 13.9 | 89.3 | 70.7 | 52.2 | 33.6 | - | - |
| | 67 | 106.4 | 12.3 | 103.7 | 90.3 | 76.8 | 57.5 | 38.2 | - | 97.9 | 13.7 | 96.7 | 84.7 | 72.7 | 53.3 | 34.0 | - |
| | 62 | 107.2 | 12.3 | 105.5 | 101.2 | 97.0 | 77.1 | 57.2 | 37.3 | 99.9 | 13.8 | 97.9 | 95.6 | 93.2 | 73.0 | 52.9 | 32.7 |
| | 57 | 107.9 | 12.3 | 107.3 | 107.3 | 107.3 | 96.6 | 76.1 | 55.6 | 102.0 | 13.8 | 99.1 | 99.1 | 99.1 | 92.8 | 71.8 | 50.8 |
| 4000 | 77 | 121.3 | 12.6 | 94.0 | 64.2 | 34.4 | - | - | - | 110.4 | 14.1 | 90.4 | 59.4 | 28.4 | - | - | - |
| | 72 | 116.3 | 12.5 | 101.0 | 79.8 | 58.6 | 37.3 | - | - | 106.5 | 13.9 | 95.3 | 74.4 | 53.4 | 32.5 | - | - |
| | 67 | 111.2 | 12.4 | 108.1 | 95.4 | 82.8 | 60.5 | 38.2 | - | 102.5 | 13.8 | 100.1 | 89.3 | 78.5 | 56.1 | 33.8 | - |
| | 62 | 111.7 | 12.4 | 109.3 | 108.1 | 106.9 | 83.6 | 60.3 | 36.9 | 103.8 | 13.8 | 101.0 | 101.0 | 101.0 | 79.7 | 55.9 | 32.2 |
| | 57 | 112.3 | 12.4 | 110.6 | 110.6 | 110.6 | 106.7 | 82.3 | 57.9 | 105.1 | 13.9 | 101.8 | 101.8 | 101.8 | 101.8 | 78.1 | 52.9 |
| 4500 | 72 | 119.2 | 12.5 | 107.9 | 84.1 | 60.4 | 36.7 | - | - | 109.1 | 14.0 | 101.3 | 78.0 | 54.7 | 31.4 | - | - |
| | 67 | 116.0 | 12.5 | 112.4 | 100.5 | 88.7 | 63.4 | 38.2 | - | 107.1 | 13.9 | 103.5 | 93.9 | 84.3 | 58.9 | 33.6 | - |
| | 62 | 116.3 | 12.4 | 113.1 | 113.1 | 113.1 | 90.1 | 63.4 | 36.6 | 107.6 | 13.9 | 104.0 | 104.0 | 104.0 | 86.4 | 59.0 | 31.6 |
| | 57 | 116.6 | 12.4 | 113.9 | 113.9 | 113.9 | 113.9 | 88.6 | 60.3 | 108.1 | 13.9 | 104.5 | 104.5 | 104.5 | 104.5 | 84.4 | 54.9 |
| 5000 | 72 | 122.2 | 12.6 | 114.7 | 88.5 | 62.3 | 36.0 | - | - | 111.8 | 14.0 | 107.3 | 81.6 | 56.0 | 30.3 | - | - |
| | 67 | 120.9 | 12.5 | 116.7 | 105.6 | 94.6 | 66.4 | 38.1 | - | 111.7 | 14.0 | 107.0 | 98.5 | 90.1 | 61.7 | 33.4 | - |
| | 62 | 120.9 | 12.5 | 116.9 | 116.9 | 116.9 | 96.7 | 66.5 | 36.3 | 111.4 | 14.0 | 107.1 | 107.1 | 107.1 | 93.1 | 62.1 | 31.0 |
| | 57 | 121.0 | 12.5 | 117.1 | 117.1 | 117.1 | 117.1 | 94.8 | 62.6 | 111.2 | 14.0 | 107.2 | 107.2 | 107.2 | 107.2 | 90.8 | 57.0 |

## Table 7: WP150 (12.5 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM | WB (°F) | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) Return dry bulb (°F) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 3125 | 77 | 196.7 | 8.6 | 100.8 | 86.0 | 71.2 | - | - | - | 187.4 | 9.9 | 94.9 | 79.6 | 64.4 | - | - | - |
| | 72 | 180.3 | 8.6 | 120.4 | 103.4 | 86.5 | 69.5 | - | - | 170.2 | 9.9 | 115.4 | 98.1 | 80.9 | 63.6 | - | - |
| | 67 | 163.9 | 8.6 | 140.1 | 120.9 | 101.7 | 85.1 | 67.6 | - | 153.0 | 9.8 | 136.0 | 116.7 | 97.3 | 80.2 | 62.5 | - |
| | 62 | 151.6 | 8.5 | 151.6 | 135.2 | 117.0 | 97.6 | 82.8 | 65.7 | 146.2 | 9.8 | 146.2 | 130.4 | 113.8 | 95.2 | 78.7 | 61.2 |
| 3750 | 77 | 199.7 | 8.6 | 108.7 | 89.6 | 70.5 | - | - | - | 189.8 | 10.0 | 103.5 | 83.9 | 64.3 | - | - | - |
| | 72 | 184.8 | 8.6 | 129.4 | 109.4 | 89.5 | 69.5 | - | - | 174.2 | 9.9 | 124.1 | 104.0 | 84.0 | 63.9 | - | - |
| | 67 | 169.9 | 8.6 | 150.1 | 129.3 | 108.5 | 88.7 | 68.3 | - | 158.6 | 9.8 | 144.6 | 124.1 | 103.7 | 83.6 | 63.1 | - |
| | 62 | 160.8 | 8.5 | 160.8 | 144.1 | 127.5 | 105.4 | 87.0 | 66.7 | 153.1 | 9.8 | 153.1 | 138.2 | 123.4 | 102.0 | 82.4 | 62.0 |
| | 57 | 151.6 | 8.5 | 151.6 | 151.6 | 146.5 | 126.1 | 105.7 | 85.3 | 147.6 | 9.8 | 147.6 | 147.6 | 143.1 | 122.4 | 101.8 | 81.1 |
| 4375 | 77 | 202.6 | 8.6 | 116.5 | 93.1 | 69.7 | - | - | - | 192.3 | 10.0 | 112.2 | 88.2 | 64.1 | - | - | - |
| | 72 | 189.3 | 8.6 | 138.3 | 115.4 | 92.5 | 69.6 | - | - | 178.3 | 9.9 | 132.8 | 109.9 | 87.0 | 64.2 | - | - |
| | 67 | 175.9 | 8.6 | 160.1 | 137.6 | 115.2 | 92.3 | 68.9 | - | 164.3 | 9.9 | 153.3 | 131.6 | 110.0 | 87.0 | 63.7 | - |
| | 62 | 169.9 | 8.5 | 168.1 | 153.0 | 138.0 | 113.2 | 91.2 | 67.8 | 160.1 | 9.8 | 159.2 | 146.0 | 132.9 | 108.8 | 86.1 | 62.8 |
| | 57 | 163.9 | 8.5 | 163.9 | 163.9 | 160.7 | 137.1 | 113.4 | 89.8 | 155.8 | 9.8 | 155.8 | 155.8 | 155.8 | 132.2 | 108.6 | 84.9 |
| 5000 | 77 | 205.6 | 8.6 | 124.3 | 96.7 | 69.0 | - | - | - | 194.8 | 10.0 | 120.9 | 92.5 | 64.0 | - | - | - |
| | 72 | 193.8 | 8.6 | 147.2 | 121.3 | 95.5 | 69.6 | - | - | 182.4 | 9.9 | 141.5 | 115.8 | 90.1 | 64.4 | - | - |
| | 67 | 181.9 | 8.6 | 170.1 | 146.0 | 122.0 | 95.9 | 69.6 | - | 170.0 | 9.9 | 162.0 | 139.1 | 116.3 | 90.4 | 64.3 | - |
| | 62 | 179.0 | 8.6 | 175.5 | 162.0 | 148.5 | 121.0 | 95.4 | 68.8 | 167.0 | 9.9 | 165.3 | 153.8 | 142.4 | 115.7 | 89.8 | 63.6 |
| | 57 | 176.1 | 8.5 | 176.1 | 176.1 | 175.0 | 148.1 | 121.2 | 94.3 | 164.1 | 9.8 | 164.1 | 164.1 | 164.1 | 142.0 | 115.4 | 88.8 |
| 5625 | 72 | 198.3 | 8.6 | 156.1 | 127.3 | 98.5 | 69.6 | - | - | 186.5 | 9.9 | 150.2 | 121.7 | 93.2 | 64.7 | - | - |
| | 67 | 187.9 | 8.6 | 180.1 | 154.4 | 128.7 | 99.5 | 70.2 | - | 175.7 | 9.9 | 170.7 | 146.6 | 122.6 | 93.8 | 64.9 | - |
| | 62 | 188.1 | 8.6 | 182.8 | 170.9 | 159.0 | 128.8 | 99.6 | 69.9 | 174.0 | 9.9 | 171.3 | 161.6 | 151.9 | 122.5 | 93.5 | 64.3 |
| | 57 | 188.4 | 8.6 | 183.2 | 183.2 | 183.2 | 159.1 | 128.9 | 98.8 | 172.3 | 9.9 | 170.7 | 170.7 | 170.7 | 151.7 | 122.2 | 92.6 |
| 6250 | 72 | 202.8 | 8.6 | 165.0 | 133.3 | 101.5 | 69.7 | - | - | 190.6 | 9.9 | 158.9 | 127.6 | 96.3 | 65.0 | - | - |
| | 67 | 193.9 | 8.5 | 190.1 | 162.8 | 135.5 | 103.2 | 70.8 | - | 181.3 | 9.9 | 179.4 | 154.1 | 128.9 | 97.2 | 65.5 | - |
| | 62 | 197.3 | 8.6 | 190.2 | 179.8 | 169.5 | 136.6 | 103.8 | 70.9 | 180.9 | 9.9 | 177.4 | 169.4 | 161.4 | 129.3 | 97.2 | 65.1 |
| | 57 | 200.6 | 8.6 | 190.3 | 190.3 | 190.3 | 170.1 | 136.7 | 103.3 | 180.5 | 9.9 | 175.4 | 175.4 | 175.4 | 161.5 | 129.0 | 96.5 |
| | | 95°F | | | | | | | | 105°F | | | | | | | |
| 3125 | 77 | 178.0 | 11.3 | 88.9 | 73.2 | 57.6 | - | - | - | 164.1 | 12.9 | 86.1 | 69.2 | 52.4 | - | - | - |
| | 72 | 160.0 | 11.2 | 110.4 | 92.8 | 75.3 | 57.7 | - | - | 148.1 | 12.7 | 105.7 | 87.9 | 70.1 | 52.3 | - | - |
| | 67 | 142.0 | 11.1 | 131.9 | 112.4 | 93.0 | 75.2 | 57.5 | - | 132.1 | 12.6 | 125.3 | 106.6 | 87.8 | 69.8 | 51.9 | - |
| | 62 | 140.7 | 11.0 | 140.7 | 125.7 | 110.7 | 92.7 | 74.7 | 56.7 | 132.3 | 12.6 | 132.3 | 118.9 | 105.5 | 87.4 | 69.2 | 51.1 |
| 3750 | 77 | 180.0 | 11.3 | 98.4 | 78.2 | 58.1 | - | - | - | 166.2 | 12.9 | 95.9 | 74.1 | 52.3 | - | - | - |
| | 72 | 163.7 | 11.2 | 118.8 | 98.6 | 78.4 | 58.3 | - | - | 151.7 | 12.8 | 113.8 | 93.4 | 72.9 | 52.5 | - | - |
| | 67 | 147.3 | 11.1 | 139.2 | 119.0 | 98.8 | 78.4 | 58.0 | - | 137.1 | 12.6 | 131.7 | 112.7 | 93.6 | 72.9 | 52.2 | - |
| | 62 | 145.5 | 11.1 | 145.5 | 132.3 | 119.2 | 98.6 | 77.9 | 57.3 | 136.6 | 12.6 | 136.6 | 125.4 | 114.2 | 93.3 | 72.4 | 51.5 |
| | 57 | 143.6 | 11.0 | 143.6 | 143.6 | 139.6 | 118.7 | 97.8 | 76.9 | 136.0 | 12.6 | 136.0 | 136.0 | 134.8 | 113.7 | 92.5 | 71.4 |
| 4375 | 77 | 182.0 | 11.3 | 108.0 | 83.2 | 58.5 | - | - | - | 168.3 | 12.9 | 105.8 | 79.0 | 52.2 | - | - | - |
| | 72 | 167.3 | 11.2 | 127.3 | 104.4 | 81.6 | 58.8 | - | - | 155.2 | 12.8 | 122.0 | 98.9 | 75.8 | 52.7 | - | - |
| | 67 | 152.7 | 11.1 | 146.6 | 125.7 | 104.7 | 81.6 | 58.5 | - | 142.2 | 12.7 | 138.2 | 118.8 | 99.3 | 75.9 | 52.5 | - |
| | 62 | 150.3 | 11.1 | 150.3 | 139.0 | 127.8 | 104.4 | 81.1 | 57.8 | 140.9 | 12.7 | 140.9 | 131.9 | 122.9 | 99.2 | 75.5 | 51.8 |
| | 57 | 147.8 | 11.1 | 147.8 | 147.8 | 147.8 | 127.3 | 103.7 | 80.1 | 139.6 | 12.7 | 139.6 | 139.6 | 139.6 | 122.5 | 98.5 | 74.5 |
| 5000 | 77 | 184.0 | 11.3 | 117.5 | 88.3 | 59.0 | - | - | - | 170.3 | 12.9 | 115.7 | 83.9 | 52.1 | - | - | - |
| | 72 | 171.0 | 11.3 | 135.8 | 110.3 | 84.8 | 59.3 | - | - | 158.8 | 12.8 | 130.1 | 104.4 | 78.6 | 52.8 | - | - |
| | 67 | 158.0 | 11.2 | 154.0 | 132.3 | 110.5 | 84.8 | 59.0 | - | 147.3 | 12.7 | 144.6 | 124.8 | 105.1 | 79.0 | 52.9 | - |
| | 62 | 155.0 | 11.2 | 155.0 | 145.7 | 136.3 | 110.3 | 84.3 | 58.3 | 145.2 | 12.7 | 145.2 | 138.4 | 131.6 | 105.1 | 78.6 | 52.2 |
| | 57 | 152.0 | 11.1 | 152.0 | 152.0 | 152.0 | 135.8 | 109.5 | 83.3 | 143.2 | 12.7 | 143.2 | 143.2 | 143.2 | 131.2 | 104.4 | 77.6 |
| 5625 | 72 | 174.7 | 11.3 | 144.2 | 116.1 | 87.9 | 59.8 | - | - | 162.4 | 12.8 | 138.3 | 109.9 | 81.4 | 53.0 | - | - |
| | 67 | 163.4 | 11.2 | 161.4 | 138.9 | 116.4 | 88.0 | 59.6 | - | 152.4 | 12.8 | 151.0 | 130.9 | 110.8 | 82.0 | 53.2 | - |
| | 62 | 159.8 | 11.2 | 159.8 | 152.3 | 144.9 | 116.2 | 87.5 | 58.8 | 149.6 | 12.8 | 149.6 | 144.9 | 140.3 | 111.0 | 81.8 | 52.5 |
| | 57 | 156.3 | 11.2 | 156.3 | 156.3 | 156.3 | 144.4 | 115.4 | 86.4 | 146.7 | 12.7 | 146.7 | 146.7 | 146.7 | 140.0 | 110.4 | 80.7 |
| 6250 | 72 | 178.4 | 11.3 | 152.7 | 121.9 | 91.1 | 60.3 | - | - | 166.0 | 12.9 | 146.4 | 115.4 | 84.3 | 53.2 | - | - |
| | 67 | 168.7 | 11.3 | 168.7 | 145.5 | 122.3 | 91.2 | 60.1 | - | 157.5 | 12.8 | 157.5 | 137.0 | 116.6 | 85.1 | 53.5 | - |
| | 62 | 164.6 | 11.2 | 164.6 | 159.0 | 153.4 | 122.0 | 90.7 | 59.3 | 153.9 | 12.8 | 153.9 | 151.4 | 148.9 | 116.9 | 84.9 | 52.9 |
| | 57 | 160.5 | 11.2 | 160.5 | 160.5 | 160.5 | 152.9 | 121.3 | 89.6 | 150.3 | 12.8 | 150.3 | 150.3 | 150.3 | 148.8 | 116.3 | 83.8 |

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 115°F | | | | | | | | 125°F | | | | | | | |
| 3125 | 77 | 150.1 | 14.5 | 83.3 | 65.3 | 47.2 | - | - | - | 136.2 | 16.1 | 80.5 | 61.3 | 42.1 | - | - | - |
| | 72 | 136.1 | 14.3 | 101.0 | 83.0 | 64.9 | 46.9 | - | - | 124.2 | 15.8 | 96.4 | 78.1 | 59.8 | 41.5 | - | - |
| | 67 | 122.1 | 14.1 | 118.8 | 100.7 | 82.6 | 64.5 | 46.3 | - | 112.2 | 15.6 | 112.2 | 94.8 | 77.4 | 59.1 | 40.7 | - |
| | 62 | 123.8 | 14.1 | 123.8 | 112.1 | 100.3 | 82.0 | 63.8 | 45.5 | 115.4 | 15.7 | 115.4 | 105.3 | 95.1 | 76.7 | 58.3 | 39.9 |
| 3750 | 77 | 152.3 | 14.5 | 93.5 | 70.0 | 46.6 | - | - | - | 138.4 | 16.1 | 91.0 | 65.9 | 40.8 | - | - | - |
| | 72 | 139.6 | 14.3 | 108.9 | 88.1 | 67.4 | 46.7 | - | - | 127.6 | 15.9 | 103.9 | 82.9 | 61.9 | 41.0 | - | - |
| | 67 | 126.9 | 14.2 | 124.2 | 106.3 | 88.3 | 67.4 | 46.4 | - | 116.8 | 15.7 | 116.8 | 99.9 | 83.0 | 61.8 | 40.7 | - |
| | 62 | 127.7 | 14.2 | 127.7 | 118.4 | 109.2 | 88.0 | 66.8 | 45.7 | 118.8 | 15.7 | 118.8 | 111.5 | 104.1 | 82.7 | 61.3 | 39.9 |
| | 57 | 128.5 | 14.2 | 128.5 | 128.5 | 128.5 | 108.6 | 87.2 | 65.9 | 120.9 | 15.8 | 120.9 | 120.9 | 120.9 | 103.6 | 82.0 | 60.3 |
| 4375 | 77 | 154.5 | 14.5 | 103.6 | 74.8 | 45.9 | - | - | - | 140.7 | 16.0 | 101.5 | 70.5 | 39.6 | - | - | - |
| | 72 | 143.1 | 14.3 | 116.7 | 93.3 | 69.9 | 46.6 | - | - | 131.0 | 15.9 | 111.4 | 87.7 | 64.1 | 40.5 | - | - |
| | 67 | 131.8 | 14.2 | 129.7 | 111.9 | 94.0 | 70.3 | 46.6 | - | 121.3 | 15.8 | 121.3 | 105.0 | 88.6 | 64.6 | 40.6 | - |
| | 62 | 131.6 | 14.2 | 131.6 | 124.8 | 118.0 | 94.0 | 69.9 | 45.9 | 122.2 | 15.8 | 122.2 | 117.7 | 113.1 | 88.7 | 64.3 | 39.9 |
| | 57 | 131.4 | 14.2 | 131.4 | 131.4 | 131.4 | 117.6 | 93.3 | 68.9 | 123.2 | 15.8 | 123.2 | 123.2 | 123.2 | 112.8 | 88.1 | 63.3 |
| 5000 | 77 | 156.7 | 14.5 | 113.8 | 79.5 | 45.3 | - | - | - | 143.0 | 16.0 | 112.0 | 75.2 | 38.4 | - | - | - |
| | 72 | 146.6 | 14.4 | 124.5 | 98.5 | 72.5 | 46.4 | - | - | 134.4 | 15.9 | 118.9 | 92.6 | 66.3 | 40.0 | - | - |
| | 67 | 136.6 | 14.3 | 135.2 | 117.4 | 99.6 | 73.2 | 46.7 | - | 125.9 | 15.8 | 125.9 | 110.0 | 94.2 | 67.3 | 40.5 | - |
| | 62 | 135.4 | 14.3 | 135.4 | 131.1 | 126.8 | 99.9 | 73.0 | 46.1 | 125.7 | 15.8 | 125.7 | 123.9 | 122.1 | 94.7 | 67.3 | 40.0 |
| | 57 | 134.3 | 14.3 | 134.3 | 134.3 | 134.3 | 126.6 | 99.3 | 72.0 | 125.5 | 15.8 | 125.5 | 125.5 | 125.5 | 122.1 | 94.2 | 66.3 |
| 5625 | 72 | 150.1 | 14.4 | 132.4 | 103.7 | 75.0 | 46.3 | - | - | 137.9 | 15.9 | 126.4 | 97.4 | 68.5 | 39.5 | - | - |
| | 67 | 141.4 | 14.3 | 140.7 | 123.0 | 105.3 | 76.1 | 46.8 | - | 130.4 | 15.9 | 130.4 | 115.1 | 99.8 | 70.1 | 40.4 | - |
| | 62 | 139.3 | 14.3 | 139.3 | 137.5 | 135.6 | 105.9 | 76.1 | 46.3 | 129.1 | 15.9 | 129.1 | 129.1 | 129.1 | 100.7 | 70.4 | 40.0 |
| | 57 | 137.2 | 14.3 | 137.2 | 137.2 | 137.2 | 135.7 | 105.3 | 75.0 | 127.7 | 15.9 | 127.7 | 127.7 | 127.7 | 127.7 | 100.3 | 69.3 |
| 6250 | 72 | 153.6 | 14.4 | 140.2 | 108.8 | 77.5 | 46.1 | - | - | 141.3 | 16.0 | 133.9 | 102.3 | 70.6 | 39.0 | - | - |
| | 67 | 146.2 | 14.4 | 146.2 | 128.6 | 111.0 | 79.0 | 46.9 | - | 135.0 | 16.0 | 135.0 | 120.1 | 105.3 | 72.9 | 40.4 | - |
| | 62 | 143.2 | 14.4 | 143.2 | 143.2 | 143.2 | 111.8 | 79.2 | 46.5 | 132.5 | 15.9 | 132.5 | 132.5 | 132.5 | 106.7 | 73.4 | 40.1 |
| | 57 | 140.2 | 14.4 | 140.2 | 140.2 | 140.2 | 140.2 | 111.4 | 78.0 | 130.0 | 15.9 | 130.0 | 130.0 | 130.0 | 130.0 | 106.4 | 72.3 |

# WP078-150 reheat capacities

**Note:**

1. These capacities are gross ratings. For net capacity, deduct air blower motor, MBh = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.
2. These ratings include the condensate fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

### Table 8: WP078 (6.5 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 35°F | | | | | | | | 45°F | | | | | | | |
| 1625 | 77 | 61.4 | 5.1 | 6.1 | 4.8 | 3.5 | - | - | - | 60.5 | 5.0 | 0.0 | -1.1 | -2.1 | - | - | - |
| | 72 | 59.1 | 4.7 | 10.3 | 9.0 | 7.8 | 6.5 | - | - | 56.4 | 4.8 | 6.1 | 5.0 | 3.9 | 2.9 | - | - |
| | 67 | 56.8 | 4.3 | 14.5 | 13.3 | 12.0 | 10.7 | 9.4 | - | 52.3 | 4.5 | 12.2 | 11.1 | 10.0 | 8.9 | 7.9 | - |
| | 62 | 48.3 | 6.0 | 17.4 | 16.2 | 14.9 | 13.6 | 12.3 | 11.1 | 45.2 | 5.3 | 17.4 | 16.3 | 15.2 | 14.2 | 13.1 | 12.0 |
| 1950 | 77 | 66.3 | 4.3 | 9.3 | 7.0 | 4.7 | - | - | - | 64.9 | 4.6 | 0.6 | -1.3 | -3.1 | - | - | - |
| | 72 | 63.8 | 4.0 | 16.0 | 13.7 | 11.4 | 9.2 | - | - | 60.4 | 4.4 | 9.6 | 7.7 | 5.8 | 3.9 | - | - |
| | 67 | 61.2 | 3.6 | 22.8 | 20.5 | 18.2 | 15.9 | 13.6 | - | 56.0 | 4.2 | 18.5 | 16.6 | 14.7 | 12.9 | 11.0 | - |
| | 62 | 52.1 | 5.2 | 27.6 | 25.3 | 23.0 | 20.7 | 18.4 | 16.1 | 48.5 | 4.9 | 26.2 | 24.3 | 22.4 | 20.6 | 18.7 | 16.8 |
| | 57 | 48.3 | 5.3 | 35.7 | 33.4 | 31.1 | 28.8 | 26.5 | 24.2 | 44.1 | 4.8 | 33.4 | 31.6 | 29.7 | 27.8 | 25.9 | 24.0 |
| 2275 | 77 | 71.3 | 3.6 | 12.4 | 9.1 | 5.8 | - | - | - | 69.2 | 4.2 | 1.2 | -1.5 | -4.1 | - | - | - |
| | 72 | 68.5 | 3.2 | 21.7 | 18.4 | 15.1 | 11.8 | - | - | 64.5 | 4.0 | 13.0 | 10.4 | 7.7 | 5.0 | - | - |
| | 67 | 65.7 | 2.9 | 31.0 | 27.7 | 24.4 | 21.1 | 17.8 | - | 59.7 | 3.8 | 24.8 | 22.2 | 19.5 | 16.8 | 14.1 | - |
| | 62 | 56.0 | 4.4 | 37.7 | 34.4 | 31.1 | 27.8 | 24.5 | 21.2 | 51.7 | 4.4 | 35.0 | 32.3 | 29.6 | 26.9 | 24.3 | 21.6 |
| | 57 | 51.8 | 4.4 | 45.5 | 44.4 | 42.0 | 38.7 | 35.4 | 32.1 | 47.0 | 4.4 | 41.7 | 40.7 | 39.2 | 36.5 | 33.8 | 31.1 |
| 2600 | 77 | 76.2 | 2.8 | 15.6 | 11.3 | 7.0 | - | - | - | 73.5 | 3.8 | 1.8 | -1.7 | -5.1 | - | - | - |
| | 72 | 73.2 | 2.5 | 27.5 | 23.1 | 18.8 | 14.5 | - | - | 68.5 | 3.6 | 16.5 | 13.0 | 9.5 | 6.0 | - | - |
| | 67 | 70.2 | 2.2 | 39.3 | 35.0 | 30.6 | 26.3 | 22.0 | - | 63.5 | 3.4 | 31.2 | 27.7 | 24.2 | 20.7 | 17.2 | - |
| | 62 | 59.8 | 3.6 | 47.9 | 43.5 | 39.2 | 34.9 | 30.5 | 26.2 | 54.9 | 4.0 | 43.8 | 40.3 | 36.8 | 33.3 | 29.8 | 26.4 |
| | 57 | 55.3 | 3.6 | 55.3 | 55.3 | 52.9 | 48.6 | 44.3 | 39.9 | 49.9 | 3.9 | 49.9 | 49.9 | 48.7 | 45.2 | 41.7 | 38.3 |
| 2925 | 72 | 76.3 | 2.5 | 32.3 | 27.2 | 22.1 | 17.0 | - | - | 70.9 | 3.6 | 19.5 | 15.4 | 11.2 | 7.0 | - | - |
| | 67 | 73.2 | 2.3 | 46.5 | 41.4 | 36.3 | 31.2 | 26.1 | - | 65.7 | 3.4 | 36.8 | 32.6 | 28.4 | 24.3 | 20.1 | - |
| | 62 | 62.3 | 3.6 | 56.4 | 51.8 | 46.7 | 41.6 | 36.5 | 31.4 | 56.9 | 3.9 | 51.3 | 47.4 | 43.3 | 39.1 | 34.9 | 30.8 |
| | 57 | 57.7 | 3.7 | 57.7 | 57.7 | 56.5 | 51.4 | 46.3 | 41.2 | 51.7 | 3.9 | 51.7 | 51.7 | 51.1 | 46.9 | 42.8 | 38.6 |
| 3250 | 72 | 79.5 | 2.6 | 37.1 | 31.3 | 25.4 | 19.5 | - | - | 73.4 | 3.5 | 22.5 | 17.7 | 12.9 | 8.0 | - | - |
| | 67 | 76.1 | 2.3 | 53.8 | 47.9 | 42.0 | 36.2 | 30.3 | - | 68.0 | 3.4 | 42.3 | 37.5 | 32.7 | 27.8 | 23.0 | - |
| | 62 | 64.9 | 3.6 | 64.9 | 60.1 | 54.2 | 48.4 | 42.5 | 36.7 | 58.8 | 3.9 | 58.8 | 54.5 | 49.7 | 44.9 | 40.0 | 35.2 |
| | 57 | 60.0 | 3.7 | 60.0 | 60.0 | 60.0 | 54.1 | 48.3 | 42.4 | 53.5 | 3.9 | 53.5 | 53.5 | 53.5 | 48.7 | 43.8 | 39.0 |
| | | 55°F | | | | | | | | 65°F | | | | | | | |
| 1625 | 77 | 59.7 | 5.0 | -6.1 | -6.9 | -7.8 | - | - | - | 54.8 | 5.5 | -5.2 | -5.7 | -6.2 | - | - | - |
| | 72 | 53.7 | 4.9 | 1.9 | 1.0 | 0.1 | -0.8 | - | - | 48.7 | 5.4 | 0.3 | -0.1 | -0.6 | -1.0 | - | - |
| | 67 | 47.8 | 4.8 | 9.8 | 8.9 | 8.0 | 7.2 | 6.3 | - | 42.7 | 5.2 | 5.9 | 5.5 | 5.0 | 4.5 | 4.1 | - |
| | 62 | 42.1 | 4.6 | 17.3 | 16.5 | 15.6 | 14.7 | 13.8 | 13.0 | 37.2 | 4.9 | 11.3 | 10.9 | 10.4 | 9.9 | 9.5 | 9.0 |
| 1950 | 77 | 63.4 | 4.9 | -8.0 | -9.5 | -11.0 | - | - | - | 58.0 | 5.4 | -9.0 | -10.0 | -11.0 | - | - | - |
| | 72 | 57.1 | 4.8 | 3.1 | 1.6 | 0.2 | -1.3 | - | - | 51.6 | 5.3 | 0.6 | -0.5 | -1.5 | -2.5 | - | - |
| | 67 | 50.8 | 4.7 | 14.2 | 12.7 | 11.3 | 9.8 | 8.3 | - | 45.2 | 5.1 | 10.1 | 9.1 | 8.1 | 7.0 | 6.0 | - |
| | 62 | 44.8 | 4.5 | 24.8 | 23.3 | 21.9 | 20.4 | 18.9 | 17.5 | 39.4 | 4.8 | 19.4 | 18.4 | 17.3 | 16.3 | 15.3 | 14.3 |
| | 57 | 39.9 | 4.3 | 31.2 | 29.7 | 28.3 | 26.8 | 25.3 | 23.9 | 36.3 | 4.7 | 24.4 | 23.4 | 22.4 | 21.4 | 20.4 | 19.4 |
| 2275 | 77 | 67.1 | 4.8 | -10.0 | -12.0 | -14.1 | - | - | - | 61.3 | 5.3 | -12.7 | -14.3 | -15.9 | - | - | - |
| | 72 | 60.4 | 4.7 | 4.3 | 2.3 | 0.2 | -1.8 | - | - | 54.5 | 5.2 | 0.8 | -0.8 | -2.4 | -4.0 | - | - |
| | 67 | 53.7 | 4.7 | 18.6 | 16.6 | 14.5 | 12.5 | 10.4 | - | 47.8 | 5.0 | 14.3 | 12.7 | 11.1 | 9.5 | 8.0 | - |
| | 62 | 47.4 | 4.4 | 32.3 | 30.2 | 28.1 | 26.1 | 24.0 | 22.0 | 41.7 | 4.7 | 27.4 | 25.9 | 24.3 | 22.7 | 21.1 | 19.6 |
| | 57 | 42.2 | 4.3 | 37.9 | 37.1 | 36.4 | 34.3 | 32.3 | 30.2 | 38.3 | 4.6 | 32.4 | 31.9 | 31.4 | 29.8 | 28.2 | 26.6 |
| 2600 | 77 | 70.8 | 4.7 | -12.0 | -14.6 | -17.3 | - | - | - | 64.5 | 5.3 | -16.5 | -18.6 | -20.7 | - | - | - |
| | 72 | 63.7 | 4.7 | 5.6 | 2.9 | 0.3 | -2.4 | - | - | 57.4 | 5.1 | 1.0 | -1.1 | -3.3 | -5.4 | - | - |
| | 67 | 56.7 | 4.6 | 23.1 | 20.4 | 17.8 | 15.1 | 12.5 | - | 50.3 | 4.9 | 18.5 | 16.3 | 14.2 | 12.0 | 9.9 | - |
| | 62 | 50.0 | 4.4 | 39.7 | 37.1 | 34.4 | 31.8 | 29.1 | 26.5 | 43.9 | 4.7 | 35.5 | 33.4 | 31.2 | 29.1 | 27.0 | 24.8 |
| | 57 | 44.5 | 4.2 | 44.5 | 44.5 | 44.5 | 41.9 | 39.2 | 36.6 | 40.3 | 4.5 | 40.3 | 40.3 | 40.3 | 38.2 | 36.1 | 33.9 |

## Table 8: WP078 (6.5 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| 2925 | 72 | 65.5 | 4.6 | 6.8 | 3.5 | 0.3 | -2.9 | - | - | 59.2 | 5.0 | 1.2 | -1.5 | -4.3 | -7.0 | - | - |
| | 67 | 58.3 | 4.5 | 27.0 | 23.8 | 20.5 | 17.3 | 14.1 | - | 51.9 | 4.8 | 22.7 | 19.9 | 17.2 | 14.4 | 11.7 | - |
| | 62 | 51.4 | 4.3 | 46.3 | 43.0 | 39.8 | 36.6 | 33.3 | 30.1 | 45.2 | 4.6 | 41.1 | 39.0 | 37.0 | 34.3 | 31.5 | 28.8 |
| | 57 | 45.7 | 4.1 | 45.7 | 45.7 | 45.7 | 42.5 | 39.3 | 36.1 | 41.6 | 4.4 | 41.6 | 41.6 | 41.6 | 38.8 | 36.1 | 33.3 |
| 3250 | 72 | 67.3 | 4.5 | 8.0 | 4.1 | 0.3 | -3.5 | - | - | 61.0 | 4.9 | 1.4 | -1.9 | -5.3 | -8.7 | - | - |
| | 67 | 59.9 | 4.4 | 30.9 | 27.1 | 23.3 | 19.5 | 15.7 | - | 53.4 | 4.7 | 26.9 | 23.5 | 20.2 | 16.8 | 13.4 | - |
| | 62 | 52.8 | 4.2 | 52.8 | 49.0 | 45.2 | 41.4 | 37.6 | 33.7 | 46.6 | 4.5 | 46.6 | 44.7 | 42.8 | 39.4 | 36.0 | 32.7 |
| | 57 | 47.0 | 4.0 | 47.0 | 47.0 | 47.0 | 43.2 | 39.4 | 35.6 | 42.8 | 4.3 | 42.8 | 42.8 | 42.8 | 39.5 | 36.1 | 32.7 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 1625 | 77 | 49.9 | 6.1 | -4.4 | -4.5 | -4.5 | - | - | - | 44.9 | 6.7 | -3.6 | -3.2 | -2.9 | - | - | - |
| | 72 | 43.7 | 5.8 | -1.2 | -1.2 | -1.3 | -1.3 | - | - | 38.7 | 6.3 | -2.7 | -2.3 | -2.0 | -1.6 | - | - |
| | 67 | 37.6 | 5.5 | 2.1 | 2.0 | 2.0 | 1.9 | 1.9 | - | 32.5 | 5.9 | -1.8 | -1.4 | -1.1 | -0.7 | -0.3 | - |
| | 62 | 32.3 | 5.2 | 5.3 | 5.3 | 5.2 | 5.2 | 5.1 | 5.1 | 27.4 | 5.5 | -0.7 | -0.3 | 0.0 | 0.4 | 0.8 | 1.2 |
| 1950 | 77 | 52.7 | 6.0 | -9.9 | -10.5 | -11.1 | - | - | - | 47.3 | 6.5 | -10.9 | -11.0 | -11.1 | - | - | - |
| | 72 | 46.2 | 5.7 | -2.0 | -2.5 | -3.1 | -3.7 | - | - | 40.7 | 6.2 | -4.5 | -4.6 | -4.8 | -4.9 | - | - |
| | 67 | 39.7 | 5.4 | 6.0 | 5.4 | 4.8 | 4.3 | 3.7 | - | 34.2 | 5.8 | 1.9 | 1.8 | 1.6 | 1.5 | 1.4 | - |
| | 62 | 34.1 | 5.1 | 14.0 | 13.4 | 12.8 | 12.3 | 11.7 | 11.1 | 28.8 | 5.5 | 8.6 | 8.4 | 8.3 | 8.2 | 8.1 | 8.0 |
| | 57 | 32.7 | 5.0 | 17.7 | 17.1 | 16.5 | 16.0 | 15.4 | 14.8 | 29.1 | 5.3 | 10.9 | 10.8 | 10.7 | 10.6 | 10.5 | 10.3 |
| 2275 | 77 | 55.5 | 5.9 | -15.4 | -16.5 | -17.6 | - | - | - | 49.7 | 6.4 | -18.2 | -18.8 | -19.4 | - | - | - |
| | 72 | 48.7 | 5.6 | -2.8 | -3.9 | -5.0 | -6.1 | - | - | 42.8 | 6.1 | -6.3 | -6.9 | -7.5 | -8.2 | - | - |
| | 67 | 41.8 | 5.3 | 9.9 | 8.8 | 7.7 | 6.6 | 5.5 | - | 35.9 | 5.7 | 5.6 | 4.9 | 4.3 | 3.7 | 3.1 | - |
| | 62 | 35.9 | 5.0 | 22.6 | 21.5 | 20.4 | 19.3 | 18.2 | 17.1 | 30.2 | 5.4 | 17.8 | 17.2 | 16.6 | 16.0 | 15.3 | 14.7 |
| | 57 | 34.4 | 4.9 | 26.9 | 26.6 | 26.4 | 25.3 | 24.2 | 23.1 | 30.6 | 5.2 | 21.5 | 21.4 | 21.4 | 20.7 | 20.1 | 19.5 |
| 2600 | 77 | 58.3 | 5.8 | -21.0 | -22.6 | -24.2 | - | - | - | 52.0 | 6.3 | -25.5 | -26.6 | -27.7 | - | - | - |
| | 72 | 51.1 | 5.5 | -3.6 | -5.2 | -6.8 | -8.4 | - | - | 44.8 | 5.9 | -8.1 | -9.2 | -10.3 | -11.4 | - | - |
| | 67 | 43.9 | 5.2 | 13.9 | 12.2 | 10.6 | 9.0 | 7.4 | - | 37.6 | 5.6 | 9.2 | 8.1 | 7.0 | 5.9 | 4.8 | - |
| | 62 | 37.8 | 5.0 | 31.3 | 29.7 | 28.0 | 26.4 | 24.8 | 23.2 | 31.6 | 5.3 | 27.1 | 26.0 | 24.9 | 23.7 | 22.6 | 21.5 |
| | 57 | 36.2 | 4.8 | 36.2 | 36.2 | 36.2 | 34.6 | 32.9 | 31.3 | 32.0 | 5.1 | 32.0 | 32.0 | 32.0 | 30.9 | 29.8 | 28.7 |
| 2925 | 72 | 52.9 | 5.4 | -4.3 | -6.6 | -8.9 | -11.1 | - | - | 46.6 | 5.8 | -9.8 | -11.6 | -13.5 | -15.3 | - | - |
| | 67 | 45.5 | 5.1 | 18.4 | 16.1 | 13.8 | 11.5 | 9.3 | - | 39.1 | 5.5 | 14.1 | 12.3 | 10.5 | 8.7 | 6.9 | - |
| | 62 | 39.1 | 4.8 | 35.9 | 35.0 | 34.2 | 31.9 | 29.7 | 27.4 | 32.9 | 5.1 | 30.6 | 31.0 | 31.4 | 29.6 | 27.8 | 26.0 |
| | 57 | 37.4 | 4.7 | 37.4 | 37.4 | 37.4 | 35.2 | 32.9 | 30.6 | 33.3 | 5.0 | 33.3 | 33.3 | 33.3 | 31.5 | 29.7 | 27.9 |
| 3250 | 72 | 54.7 | 5.3 | -5.1 | -8.0 | -10.9 | -13.9 | - | - | 48.4 | 5.7 | -11.6 | -14.1 | -16.6 | -19.1 | - | - |
| | 67 | 47.0 | 5.0 | 22.9 | 20.0 | 17.0 | 14.1 | 11.2 | - | 40.6 | 5.3 | 18.9 | 16.4 | 13.9 | 11.4 | 8.9 | - |
| | 62 | 40.4 | 4.7 | 40.4 | 40.4 | 40.4 | 37.5 | 34.5 | 31.6 | 34.2 | 5.0 | 34.2 | 34.2 | 34.2 | 34.2 | 33.0 | 30.5 |
| | 57 | 38.7 | 4.6 | 38.7 | 38.7 | 38.7 | 35.8 | 32.8 | 29.9 | 34.6 | 4.9 | 34.6 | 34.6 | 34.6 | 32.1 | 29.6 | 27.1 |

## Table 9: WP090 (7.5 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 35°F | | | | | | | | 45°F | | | | | | | |
| 1875 | 77 | 72.2 | 4.4 | 1.4 | -1.1 | -3.6 | - | - | - | 71.1 | 4.6 | -2.5 | -4.0 | -5.5 | - | - | - |
| | 72 | 70.1 | 3.7 | 12.9 | 10.3 | 7.8 | 5.3 | - | - | 66.1 | 4.4 | 6.7 | 5.1 | 3.6 | 2.0 | - | - |
| | 67 | 67.9 | 3.1 | 24.3 | 21.8 | 19.2 | 16.7 | 14.2 | - | 61.1 | 4.2 | 15.8 | 14.2 | 12.7 | 11.2 | 9.6 | - |
| | 62 | 57.1 | 3.6 | 31.6 | 29.1 | 26.5 | 24.0 | 21.5 | 18.9 | 52.8 | 4.3 | 23.3 | 21.7 | 20.2 | 18.6 | 17.1 | 15.6 |
| 2250 | 77 | 75.2 | 4.4 | 3.5 | 0.2 | -3.2 | - | - | - | 74.2 | 4.6 | -2.9 | -5.2 | -7.4 | - | - | - |
| | 72 | 72.9 | 3.8 | 17.3 | 14.0 | 10.7 | 7.3 | - | - | 69.0 | 4.4 | 9.3 | 7.1 | 4.8 | 2.6 | - | - |
| | 67 | 70.7 | 3.1 | 31.1 | 27.8 | 24.5 | 21.2 | 17.8 | - | 63.9 | 4.1 | 21.6 | 19.3 | 17.1 | 14.8 | 12.6 | - |
| | 62 | 59.5 | 3.6 | 39.2 | 35.9 | 32.5 | 29.2 | 25.9 | 22.6 | 55.1 | 4.3 | 31.7 | 29.4 | 27.1 | 24.9 | 22.6 | 20.4 |
| | 57 | 54.8 | 3.7 | 49.8 | 46.5 | 43.1 | 39.8 | 36.5 | 33.1 | 49.9 | 4.2 | 40.4 | 38.1 | 35.8 | 33.6 | 31.3 | 29.1 |
| 2625 | 77 | 78.1 | 4.4 | 5.5 | 1.4 | -2.7 | - | - | - | 77.4 | 4.5 | -3.4 | -6.4 | -9.4 | - | - | - |
| | 72 | 75.8 | 3.8 | 21.7 | 17.6 | 13.5 | 9.4 | - | - | 72.0 | 4.3 | 12.0 | 9.0 | 6.0 | 3.1 | - | - |
| | 67 | 73.5 | 3.2 | 38.0 | 33.9 | 29.7 | 25.6 | 21.5 | - | 66.6 | 4.1 | 27.4 | 24.4 | 21.4 | 18.5 | 15.5 | - |
| | 62 | 61.8 | 3.6 | 46.8 | 42.7 | 38.6 | 34.4 | 30.3 | 26.2 | 57.5 | 4.2 | 40.1 | 37.1 | 34.1 | 31.1 | 28.1 | 25.2 |
| | 57 | 57.0 | 3.7 | 54.5 | 52.8 | 51.1 | 47.0 | 42.9 | 38.8 | 52.1 | 4.2 | 47.3 | 46.2 | 45.0 | 42.0 | 39.1 | 36.1 |
| 3000 | 77 | 81.1 | 4.4 | 7.5 | 2.6 | -2.3 | - | - | - | 80.6 | 4.5 | -3.9 | -7.6 | -11.3 | - | - | - |
| | 72 | 78.7 | 3.8 | 26.2 | 21.3 | 16.3 | 11.4 | - | - | 75.0 | 4.2 | 14.7 | 11.0 | 7.3 | 3.6 | - | - |
| | 67 | 76.3 | 3.2 | 44.8 | 39.9 | 35.0 | 30.0 | 25.1 | - | 69.3 | 4.0 | 33.2 | 29.5 | 25.8 | 22.1 | 18.4 | - |
| | 62 | 64.2 | 3.6 | 54.4 | 49.5 | 44.6 | 39.6 | 34.7 | 29.8 | 59.9 | 4.2 | 48.5 | 44.8 | 41.1 | 37.4 | 33.7 | 30.0 |
| | 57 | 59.1 | 3.7 | 59.1 | 59.1 | 59.1 | 54.2 | 49.3 | 44.4 | 54.2 | 4.1 | 54.2 | 54.2 | 54.2 | 50.5 | 46.8 | 43.1 |
| 3375 | 72 | 78.8 | 3.9 | 28.8 | 23.6 | 18.4 | 13.2 | - | - | 76.4 | 4.2 | 16.6 | 12.3 | 8.1 | 3.9 | - | - |
| | 67 | 76.6 | 3.3 | 47.5 | 42.3 | 37.1 | 31.9 | 26.7 | - | 70.6 | 4.0 | 37.2 | 33.0 | 28.8 | 24.6 | 20.3 | - |
| | 62 | 64.3 | 3.7 | 57.3 | 50.6 | 45.4 | 40.2 | 35.0 | 29.8 | 61.0 | 4.1 | 54.2 | 50.0 | 45.8 | 41.5 | 37.3 | 33.1 |
| | 57 | 59.3 | 3.8 | 59.3 | 59.3 | 59.3 | 54.1 | 48.9 | 43.7 | 55.2 | 4.1 | 55.2 | 55.2 | 55.2 | 51.0 | 46.8 | 42.6 |
| 3750 | 72 | 78.9 | 3.9 | 31.5 | 26.0 | 20.5 | 15.0 | - | - | 77.8 | 4.2 | 18.4 | 13.7 | 8.9 | 4.2 | - | - |
| | 67 | 76.8 | 3.4 | 50.2 | 44.7 | 39.2 | 33.7 | 28.2 | - | 71.9 | 4.0 | 41.2 | 36.5 | 31.7 | 27.0 | 22.3 | - |
| | 62 | 64.5 | 3.8 | 60.2 | 51.7 | 46.2 | 40.7 | 35.2 | 29.7 | 62.1 | 4.1 | 60.0 | 55.2 | 50.5 | 45.7 | 41.0 | 36.3 |
| | 57 | 59.5 | 3.9 | 59.5 | 59.5 | 59.5 | 54.0 | 48.5 | 42.9 | 56.2 | 4.1 | 56.2 | 56.2 | 56.2 | 51.5 | 46.8 | 42.0 |
| | | 55°F | | | | | | | | 65°F | | | | | | | |
| 1875 | 77 | 69.9 | 4.9 | -6.4 | -6.9 | -7.5 | - | - | - | 65.9 | 5.7 | -5.3 | -5.5 | -5.7 | - | - | - |
| | 72 | 62.1 | 5.1 | 0.4 | -0.1 | -0.7 | -1.2 | - | - | 57.8 | 5.7 | -0.5 | -0.8 | -1.0 | -1.2 | - | - |
| | 67 | 54.4 | 5.2 | 7.2 | 6.7 | 6.1 | 5.6 | 5.1 | - | 49.6 | 5.6 | 4.2 | 4.0 | 3.7 | 3.5 | 3.3 | - |
| | 62 | 48.5 | 5.1 | 14.9 | 14.4 | 13.8 | 13.3 | 12.8 | 12.2 | 44.1 | 5.4 | 9.4 | 9.2 | 9.0 | 8.7 | 8.5 | 8.3 |
| 2250 | 77 | 73.3 | 4.8 | -9.3 | -10.5 | -11.7 | - | - | - | 68.9 | 5.6 | -10.8 | -11.6 | -12.5 | - | - | - |
| | 72 | 65.1 | 5.0 | 1.3 | 0.2 | -1.0 | -2.2 | - | - | 60.4 | 5.6 | -1.1 | -1.9 | -2.7 | -3.5 | - | - |
| | 67 | 57.0 | 5.1 | 12.0 | 10.8 | 9.6 | 8.5 | 7.3 | - | 51.9 | 5.5 | 8.7 | 7.9 | 7.1 | 6.2 | 5.4 | - |
| | 62 | 50.8 | 4.9 | 24.1 | 22.9 | 21.7 | 20.6 | 19.4 | 18.2 | 46.2 | 5.3 | 19.3 | 18.5 | 17.7 | 16.8 | 16.0 | 15.2 |
| | 57 | 45.1 | 4.7 | 30.9 | 29.7 | 28.5 | 27.4 | 26.2 | 25.0 | 62.8 | 5.1 | 32.3 | 31.5 | 30.6 | 29.8 | 29.0 | 28.2 |
| 2625 | 77 | 76.7 | 4.7 | -12.3 | -14.1 | -16.0 | - | - | - | 71.9 | 5.5 | -16.4 | -17.8 | -19.2 | - | - | - |
| | 72 | 68.2 | 4.8 | 2.3 | 0.4 | -1.4 | -3.2 | - | - | 63.0 | 5.5 | -1.6 | -3.0 | -4.4 | -5.8 | - | - |
| | 67 | 59.7 | 5.0 | 16.8 | 15.0 | 13.1 | 11.3 | 9.5 | - | 54.2 | 5.4 | 13.3 | 11.8 | 10.4 | 9.0 | 7.5 | - |
| | 62 | 53.2 | 4.8 | 33.3 | 31.5 | 29.6 | 27.8 | 26.0 | 24.1 | 48.2 | 5.2 | 29.2 | 27.8 | 26.4 | 24.9 | 23.5 | 22.1 |
| | 57 | 47.2 | 4.6 | 40.1 | 39.5 | 38.9 | 37.1 | 35.3 | 33.4 | 65.5 | 5.0 | 48.9 | 48.1 | 47.3 | 45.8 | 44.4 | 43.0 |
| 3000 | 77 | 80.1 | 4.6 | -15.3 | -17.7 | -20.2 | - | - | - | 74.9 | 5.4 | -21.9 | -23.9 | -26.0 | - | - | - |
| | 72 | 71.2 | 4.7 | 3.2 | 0.7 | -1.8 | -4.3 | - | - | 65.7 | 5.4 | -2.1 | -4.1 | -6.1 | -8.2 | - | - |
| | 67 | 62.3 | 4.9 | 21.6 | 19.1 | 16.7 | 14.2 | 11.7 | - | 56.4 | 5.3 | 17.8 | 15.8 | 13.7 | 11.7 | 9.7 | - |
| | 62 | 55.6 | 4.7 | 42.5 | 40.0 | 37.5 | 35.1 | 32.6 | 30.1 | 50.2 | 5.1 | 39.1 | 37.1 | 35.1 | 33.0 | 31.0 | 29.0 |
| | 57 | 49.3 | 4.5 | 49.3 | 49.3 | 49.3 | 46.8 | 44.3 | 41.9 | 68.1 | 4.9 | 65.5 | 64.7 | 63.9 | 61.9 | 59.8 | 57.8 |
| 3375 | 72 | 73.9 | 4.6 | 4.3 | 1.0 | -2.2 | -5.4 | - | - | 68.2 | 5.3 | -2.5 | -5.2 | -7.9 | -10.6 | - | - |
| | 67 | 64.7 | 4.7 | 26.9 | 23.7 | 20.5 | 17.2 | 14.0 | - | 58.6 | 5.2 | 22.7 | 20.0 | 17.2 | 14.5 | 11.8 | - |
| | 62 | 57.6 | 4.6 | 51.1 | 49.4 | 46.1 | 42.9 | 39.7 | 36.5 | 52.1 | 5.0 | 46.6 | 45.3 | 43.3 | 40.6 | 37.9 | 35.1 |
| | 57 | 51.1 | 4.4 | 51.1 | 51.1 | 51.1 | 47.9 | 44.7 | 41.5 | 70.8 | 4.8 | 69.5 | 69.1 | 68.7 | 66.0 | 63.2 | 60.5 |
| 3750 | 72 | 76.6 | 4.5 | 5.3 | 1.4 | -2.6 | -6.6 | - | - | 70.8 | 5.2 | -2.8 | -6.3 | -9.7 | -13.1 | - | - |
| | 67 | 67.0 | 4.6 | 32.2 | 28.3 | 24.3 | 20.3 | 16.3 | - | 60.8 | 5.1 | 27.6 | 24.2 | 20.8 | 17.3 | 13.9 | - |
| | 62 | 59.7 | 4.5 | 59.7 | 58.7 | 54.7 | 50.8 | 46.8 | 42.8 | 54.1 | 4.9 | 54.1 | 53.6 | 51.6 | 48.2 | 44.7 | 41.3 |
| | 57 | 53.0 | 4.3 | 53.0 | 53.0 | 53.0 | 49.0 | 45.1 | 41.1 | 73.5 | 4.7 | 73.5 | 73.5 | 73.5 | 70.1 | 66.6 | 63.2 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 1875 | 77 | 62.0 | 6.5 | -4.2 | -4.1 | -4.0 | - | - | - | 58.0 | 7.3 | -3.1 | -2.7 | -2.3 | - | - | - |
| | 72 | 53.4 | 6.3 | -1.5 | -1.4 | -1.3 | -1.2 | - | - | 49.1 | 6.9 | -2.5 | -2.1 | -1.6 | -1.2 | - | - |
| | 67 | 44.9 | 6.0 | 1.2 | 1.3 | 1.4 | 1.5 | 1.5 | - | 40.2 | 6.4 | -1.9 | -1.5 | -1.0 | -0.6 | -0.2 | - |
| | 62 | 39.8 | 5.7 | 3.9 | 4.0 | 4.1 | 4.2 | 4.3 | 4.4 | 35.5 | 6.0 | -1.6 | -1.2 | -0.8 | -0.4 | 0.1 | 0.5 |

## Table 9: WP090 (7.5 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| 2250 | 77 | 64.6 | 6.5 | -12.3 | -12.8 | -13.2 | - | - | - | 60.2 | 7.3 | -13.8 | -13.9 | -14.0 | - | - | - |
| | 72 | 55.7 | 6.2 | -3.4 | -3.9 | -4.4 | -4.8 | - | - | 50.9 | 6.8 | -5.8 | -5.9 | -6.0 | -6.1 | - | - |
| | 67 | 46.8 | 5.9 | 5.4 | 5.0 | 4.5 | 4.0 | 3.6 | - | 41.7 | 6.3 | 2.1 | 2.0 | 1.9 | 1.8 | 1.7 | - |
| | 62 | 41.5 | 5.6 | 14.5 | 14.1 | 13.6 | 13.1 | 12.7 | 12.2 | 36.8 | 6.0 | 9.7 | 9.6 | 9.5 | 9.4 | 9.3 | 9.2 |
| | 57 | 80.5 | 5.4 | 33.7 | 33.2 | 32.7 | 32.3 | 31.8 | 31.4 | 98.2 | 5.8 | 35.1 | 35.0 | 34.9 | 34.7 | 34.6 | 34.5 |
| 2625 | 77 | 67.2 | 6.4 | -20.4 | -21.5 | -22.5 | - | - | - | 62.4 | 7.3 | -24.5 | -25.1 | -25.7 | - | - | - |
| | 72 | 57.9 | 6.1 | -5.4 | -6.4 | -7.4 | -8.5 | - | - | 52.8 | 6.8 | -9.2 | -9.8 | -10.4 | -11.1 | - | - |
| | 67 | 48.7 | 5.9 | 9.7 | 8.7 | 7.6 | 6.6 | 5.6 | - | 43.2 | 6.3 | 6.1 | 5.5 | 4.9 | 4.3 | 3.6 | - |
| | 62 | 43.2 | 5.6 | 25.1 | 24.1 | 23.1 | 22.1 | 21.0 | 20.0 | 38.2 | 5.9 | 21.1 | 20.4 | 19.8 | 19.2 | 18.6 | 17.9 |
| | 57 | 83.7 | 5.4 | 57.7 | 56.7 | 55.6 | 54.6 | 53.6 | 52.6 | 102.0 | 5.8 | 66.5 | 65.2 | 64.0 | 63.4 | 62.7 | 62.1 |
| 3000 | 77 | 69.8 | 6.3 | -28.6 | -30.1 | -31.7 | - | - | - | 64.6 | 7.2 | -35.2 | -36.4 | -37.5 | - | - | - |
| | 72 | 60.2 | 6.1 | -7.3 | -8.9 | -10.5 | -12.1 | - | - | 54.6 | 6.7 | -12.5 | -13.7 | -14.8 | -16.0 | - | - |
| | 67 | 50.6 | 5.8 | 14.0 | 12.4 | 10.8 | 9.2 | 7.6 | - | 44.7 | 6.3 | 10.1 | 9.0 | 7.8 | 6.7 | 5.6 | - |
| | 62 | 44.8 | 5.5 | 35.8 | 34.2 | 32.6 | 31.0 | 29.4 | 27.8 | 39.5 | 5.9 | 32.4 | 31.3 | 30.1 | 29.0 | 27.8 | 26.7 |
| | 57 | 87.0 | 5.3 | 81.7 | 80.1 | 78.5 | 76.9 | 75.3 | 73.7 | 105.8 | 5.7 | 97.9 | 95.5 | 93.1 | 92.0 | 90.8 | 89.7 |
| 3375 | 72 | 62.6 | 6.0 | -9.2 | -11.4 | -13.6 | -15.8 | - | - | 56.9 | 6.7 | -15.9 | -17.6 | -19.3 | -21.0 | - | - |
| | 67 | 52.6 | 5.7 | 18.4 | 16.2 | 14.0 | 11.8 | 9.6 | - | 46.6 | 6.2 | 14.2 | 12.5 | 10.8 | 9.0 | 7.3 | - |
| | 62 | 46.6 | 5.4 | 42.1 | 41.3 | 40.5 | 38.3 | 36.1 | 33.8 | 41.1 | 5.8 | 37.6 | 37.3 | 37.7 | 36.0 | 34.3 | 32.5 |
| | 57 | 90.4 | 5.2 | 87.8 | 87.0 | 86.2 | 84.0 | 81.8 | 79.6 | 110.1 | 5.7 | 106.1 | 105.0 | 103.8 | 102.0 | 100.3 | 98.6 |
| 3750 | 72 | 65.0 | 5.9 | -11.0 | -13.9 | -16.7 | -19.6 | - | - | 59.2 | 6.6 | -19.2 | -21.5 | -23.8 | -26.1 | - | - |
| | 67 | 54.6 | 5.6 | 22.9 | 20.1 | 17.2 | 14.4 | 11.5 | - | 48.4 | 6.1 | 18.3 | 16.0 | 13.7 | 11.4 | 9.1 | - |
| | 62 | 48.4 | 5.3 | 48.4 | 48.4 | 48.4 | 45.6 | 42.7 | 39.9 | 42.8 | 5.8 | 42.8 | 42.8 | 42.8 | 42.8 | 40.7 | 38.4 |
| | 57 | 93.9 | 5.2 | 93.9 | 93.9 | 93.9 | 91.1 | 88.2 | 85.4 | 114.4 | 5.6 | 114.4 | 114.4 | 114.4 | 112.1 | 109.8 | 107.5 |

## Table 10: WP102 (8.5 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 35°F | | | | | | | | 45°F | | | | | | | |
| 2125 | 77 | 72.8 | 4.9 | 6.4 | 4.6 | 2.8 | - | - | - | 70.0 | 5.4 | -0.6 | -1.9 | -3.2 | - | - | - |
| | 72 | 70.0 | 4.6 | 12.5 | 10.7 | 8.9 | 7.1 | - | - | 65.5 | 5.2 | 6.6 | 5.3 | 4.1 | 2.8 | - | - |
| | 67 | 67.1 | 4.2 | 18.6 | 16.8 | 15.0 | 13.2 | 11.4 | - | 61.1 | 4.9 | 13.8 | 12.6 | 11.3 | 10.0 | 8.8 | - |
| | 62 | 60.2 | 4.1 | 25.4 | 23.6 | 21.8 | 20.0 | 18.2 | 16.4 | 54.7 | 4.7 | 21.4 | 20.1 | 18.8 | 17.6 | 16.3 | 15.0 |
| 2550 | 77 | 77.7 | 4.7 | 10.9 | 7.9 | 4.8 | - | - | - | 74.9 | 5.2 | -0.2 | -2.6 | -4.9 | - | - | - |
| | 72 | 74.6 | 4.3 | 19.9 | 16.8 | 13.8 | 10.7 | - | - | 70.2 | 5.0 | 11.0 | 8.7 | 6.3 | 4.0 | - | - |
| | 67 | 71.6 | 4.0 | 28.9 | 25.8 | 22.8 | 19.7 | 16.7 | - | 65.4 | 4.8 | 22.2 | 19.9 | 17.5 | 15.2 | 12.9 | - |
| | 62 | 64.2 | 3.9 | 39.0 | 36.0 | 32.9 | 29.9 | 26.8 | 23.8 | 58.5 | 4.6 | 33.9 | 31.6 | 29.2 | 26.9 | 24.6 | 22.2 |
| | 57 | 55.1 | 4.7 | 43.2 | 40.2 | 37.1 | 34.1 | 31.0 | 28.0 | 52.1 | 4.9 | 39.2 | 36.8 | 34.5 | 32.1 | 29.8 | 27.5 |
| 2975 | 77 | 82.6 | 4.4 | 15.5 | 11.2 | 6.9 | - | - | - | 79.9 | 5.0 | 0.2 | -3.2 | -6.6 | - | - | - |
| | 72 | 79.3 | 4.1 | 27.3 | 23.0 | 18.7 | 14.4 | - | - | 74.8 | 4.8 | 15.4 | 12.0 | 8.6 | 5.2 | - | - |
| | 67 | 76.1 | 3.8 | 39.2 | 34.9 | 30.6 | 26.3 | 22.0 | - | 69.7 | 4.6 | 30.6 | 27.2 | 23.8 | 20.4 | 17.0 | - |
| | 62 | 68.3 | 3.7 | 52.6 | 48.3 | 44.0 | 39.7 | 35.4 | 31.2 | 62.4 | 4.4 | 46.4 | 43.0 | 39.6 | 36.2 | 32.8 | 29.4 |
| | 57 | 58.5 | 4.4 | 52.6 | 51.1 | 49.5 | 45.3 | 41.0 | 36.7 | 55.5 | 4.7 | 49.1 | 47.9 | 46.7 | 43.3 | 39.9 | 36.5 |
| 3400 | 77 | 87.4 | 4.2 | 20.0 | 14.5 | 8.9 | - | - | - | 84.9 | 4.8 | 0.6 | -3.9 | -8.4 | - | - | - |
| | 72 | 84.0 | 3.8 | 34.7 | 29.2 | 23.7 | 18.1 | - | - | 79.4 | 4.6 | 19.8 | 15.3 | 10.8 | 6.3 | - | - |
| | 67 | 80.6 | 3.5 | 49.4 | 43.9 | 38.4 | 32.8 | 27.3 | - | 74.0 | 4.4 | 39.0 | 34.5 | 30.0 | 25.5 | 21.0 | - |
| | 62 | 72.3 | 3.4 | 66.2 | 60.7 | 55.1 | 49.6 | 44.1 | 38.5 | 66.3 | 4.2 | 59.0 | 54.5 | 50.0 | 45.5 | 41.0 | 36.6 |
| | 57 | 62.0 | 4.2 | 62.0 | 62.0 | 62.0 | 56.4 | 50.9 | 45.4 | 59.0 | 4.5 | 59.0 | 59.0 | 59.0 | 54.5 | 50.0 | 45.5 |
| 3825 | 72 | 88.1 | 3.9 | 38.9 | 32.8 | 26.7 | 20.5 | - | - | 82.4 | 4.6 | 22.4 | 17.3 | 12.2 | 7.1 | - | - |
| | 67 | 84.5 | 3.6 | 55.0 | 48.9 | 42.8 | 36.7 | 30.5 | - | 76.8 | 4.4 | 44.0 | 38.9 | 33.8 | 28.7 | 23.6 | - |
| | 62 | 75.8 | 3.5 | 72.8 | 67.4 | 61.2 | 55.1 | 49.0 | 42.9 | 68.7 | 4.2 | 65.1 | 61.4 | 56.3 | 51.2 | 46.1 | 41.0 |
| | 57 | 65.0 | 4.2 | 65.0 | 65.0 | 65.0 | 58.9 | 52.8 | 46.6 | 61.2 | 4.5 | 61.2 | 61.2 | 61.2 | 56.1 | 51.0 | 45.9 |
| 4250 | 72 | 92.3 | 4.0 | 43.1 | 36.4 | 29.7 | 23.0 | - | - | 85.4 | 4.6 | 25.0 | 19.3 | 13.5 | 7.8 | - | - |
| | 67 | 88.4 | 3.6 | 60.7 | 53.9 | 47.2 | 40.5 | 33.8 | - | 79.6 | 4.4 | 49.1 | 43.3 | 37.6 | 31.9 | 26.1 | - |
| | 62 | 79.3 | 3.6 | 79.3 | 74.1 | 67.4 | 60.6 | 53.9 | 47.2 | 71.2 | 4.2 | 71.2 | 68.4 | 62.6 | 56.9 | 51.2 | 45.4 |
| | 57 | 68.1 | 4.3 | 68.1 | 68.1 | 68.1 | 61.4 | 54.6 | 47.9 | 63.4 | 4.5 | 63.4 | 63.4 | 63.4 | 57.7 | 51.9 | 46.2 |
| | | 55°F | | | | | | | | 65°F | | | | | | | |
| 2125 | 77 | 67.2 | 5.8 | -7.6 | -8.3 | -9.1 | - | - | - | 62.9 | 6.5 | -5.9 | -6.3 | -6.6 | - | - | - |
| | 72 | 61.1 | 5.7 | 0.8 | 0.0 | -0.7 | -1.5 | - | - | 56.6 | 6.3 | -0.3 | -0.6 | -1.0 | -1.3 | - | - |
| | 67 | 55.0 | 5.6 | 9.1 | 8.4 | 7.6 | 6.9 | 6.2 | - | 50.4 | 6.0 | 5.4 | 5.0 | 4.7 | 4.4 | 4.0 | - |
| | 62 | 49.1 | 5.3 | 17.3 | 16.6 | 15.8 | 15.1 | 14.4 | 13.6 | 44.2 | 5.7 | 10.9 | 10.6 | 10.3 | 9.9 | 9.6 | 9.2 |
| 2550 | 77 | 72.2 | 5.7 | -11.4 | -13.0 | -14.6 | - | - | - | 67.1 | 6.3 | -11.7 | -12.9 | -14.1 | - | - | - |
| | 72 | 65.7 | 5.6 | 2.1 | 0.5 | -1.2 | -2.8 | - | - | 60.4 | 6.1 | -0.2 | -1.4 | -2.5 | -3.7 | - | - |
| | 67 | 59.2 | 5.5 | 15.6 | 13.9 | 12.3 | 10.7 | 9.1 | - | 53.7 | 5.9 | 11.3 | 10.1 | 9.0 | 7.8 | 6.7 | - |
| | 62 | 52.8 | 5.2 | 28.8 | 27.2 | 25.5 | 23.9 | 22.3 | 20.6 | 47.2 | 5.6 | 22.6 | 21.5 | 20.3 | 19.2 | 18.0 | 16.9 |
| | 57 | 49.1 | 5.1 | 35.1 | 33.5 | 31.8 | 30.2 | 28.6 | 26.9 | 44.8 | 5.5 | 27.6 | 26.5 | 25.3 | 24.2 | 23.0 | 21.9 |
| 2975 | 77 | 77.2 | 5.6 | -15.1 | -17.6 | -20.2 | - | - | - | 71.3 | 6.2 | -17.6 | -19.5 | -21.5 | - | - | - |
| | 72 | 70.3 | 5.5 | 3.5 | 0.9 | -1.6 | -4.1 | - | - | 64.1 | 6.0 | -0.2 | -2.1 | -4.1 | -6.1 | - | - |
| | 67 | 63.3 | 5.4 | 22.0 | 19.5 | 17.0 | 14.5 | 11.9 | - | 57.0 | 5.8 | 17.2 | 15.2 | 13.3 | 11.3 | 9.3 | - |
| | 62 | 56.5 | 5.1 | 40.3 | 37.7 | 35.2 | 32.7 | 30.2 | 27.6 | 50.1 | 5.5 | 34.3 | 32.3 | 30.4 | 28.4 | 26.4 | 24.5 |
| | 57 | 52.6 | 5.0 | 45.5 | 44.7 | 43.9 | 41.4 | 38.8 | 36.3 | 47.6 | 5.4 | 39.0 | 38.4 | 37.9 | 35.9 | 33.9 | 32.0 |
| 3400 | 77 | 82.3 | 5.5 | -18.9 | -22.3 | -25.7 | - | - | - | 75.4 | 6.1 | -23.4 | -26.1 | -28.9 | - | - | - |
| | 72 | 74.8 | 5.4 | 4.8 | 1.4 | -2.0 | -5.4 | - | - | 67.9 | 5.9 | -0.1 | -2.9 | -5.7 | -8.5 | - | - |
| | 67 | 67.4 | 5.3 | 28.5 | 25.1 | 21.7 | 18.2 | 14.8 | - | 60.4 | 5.7 | 23.1 | 20.3 | 17.6 | 14.8 | 12.0 | - |
| | 62 | 60.2 | 5.0 | 51.7 | 48.3 | 44.9 | 41.5 | 38.0 | 34.6 | 53.0 | 5.4 | 46.0 | 43.2 | 40.4 | 37.7 | 34.9 | 32.1 |
| | 57 | 56.0 | 4.9 | 56.0 | 56.0 | 56.0 | 52.6 | 49.1 | 45.7 | 50.4 | 5.3 | 50.4 | 50.4 | 50.4 | 47.6 | 44.8 | 42.1 |
| 3825 | 72 | 76.7 | 5.3 | 5.9 | 1.8 | -2.3 | -6.4 | - | - | 69.8 | 5.8 | -0.2 | -3.8 | -7.3 | -10.8 | - | - |
| | 67 | 69.0 | 5.2 | 33.0 | 28.9 | 24.8 | 20.7 | 16.6 | - | 62.1 | 5.6 | 28.2 | 24.7 | 21.2 | 17.7 | 14.2 | - |
| | 62 | 61.7 | 5.0 | 57.4 | 55.5 | 51.4 | 47.3 | 43.2 | 39.1 | 54.5 | 5.4 | 51.0 | 49.5 | 46.9 | 43.4 | 39.9 | 36.4 |
| | 57 | 57.3 | 4.8 | 57.3 | 57.3 | 57.3 | 53.2 | 49.2 | 45.1 | 51.8 | 5.2 | 51.8 | 51.8 | 51.8 | 48.3 | 44.8 | 41.3 |
| 4250 | 72 | 78.5 | 5.3 | 6.9 | 2.1 | -2.6 | -7.4 | - | - | 71.7 | 5.8 | -0.3 | -4.6 | -8.9 | -13.1 | - | - |
| | 67 | 70.7 | 5.2 | 37.5 | 32.7 | 27.9 | 23.2 | 18.4 | - | 63.8 | 5.6 | 33.4 | 29.1 | 24.9 | 20.6 | 16.3 | - |
| | 62 | 63.1 | 4.9 | 63.1 | 62.7 | 57.9 | 53.2 | 48.4 | 43.7 | 56.0 | 5.3 | 56.0 | 55.8 | 53.4 | 49.2 | 44.9 | 40.6 |
| | 57 | 58.7 | 4.8 | 58.7 | 58.7 | 58.7 | 53.9 | 49.2 | 44.4 | 53.2 | 5.2 | 53.2 | 53.2 | 53.2 | 49.0 | 44.7 | 40.4 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 2125 | 77 | 58.7 | 7.1 | -4.3 | -4.2 | -4.2 | - | - | - | 54.5 | 7.8 | -2.6 | -2.2 | -1.7 | - | - | - |
| | 72 | 52.2 | 6.8 | -1.3 | -1.3 | -1.2 | -1.2 | - | - | 47.7 | 7.3 | -2.4 | -1.9 | -1.5 | -1.0 | - | - |
| | 67 | 45.7 | 6.4 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 | - | 41.0 | 6.8 | -2.1 | -1.7 | -1.2 | -0.8 | -0.3 | - |
| | 62 | 39.3 | 6.1 | 4.6 | 4.6 | 4.7 | 4.7 | 4.8 | 4.8 | 34.4 | 6.5 | -1.8 | -1.4 | -0.9 | -0.5 | 0.0 | 0.4 |

## Table 10: WP102 (8.5 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| 2550 | 77 | 62.0 | 7.0 | -12.1 | -12.8 | -13.5 | - | - | - | 56.9 | 7.6 | -12.5 | -12.7 | -12.9 | - | - | - |
| | 72 | 55.1 | 6.7 | -2.6 | -3.2 | -3.9 | -4.6 | - | - | 49.8 | 7.2 | -4.9 | -5.1 | -5.3 | -5.5 | - | - |
| | 67 | 48.2 | 6.3 | 7.0 | 6.3 | 5.6 | 5.0 | 4.3 | - | 42.8 | 6.7 | 2.7 | 2.5 | 2.3 | 2.1 | 1.9 | - |
| | 62 | 41.5 | 6.0 | 16.5 | 15.8 | 15.1 | 14.4 | 13.8 | 13.1 | 35.8 | 6.4 | 10.3 | 10.1 | 9.9 | 9.7 | 9.5 | 9.3 |
| | 57 | 40.5 | 5.9 | 20.2 | 19.5 | 18.8 | 18.1 | 17.5 | 16.8 | 36.2 | 6.2 | 12.7 | 12.5 | 12.3 | 12.1 | 11.9 | 11.7 |
| 2975 | 77 | 65.3 | 6.9 | -20.0 | -21.4 | -22.8 | - | - | - | 59.3 | 7.5 | -22.4 | -23.3 | -24.1 | - | - | - |
| | 72 | 58.0 | 6.5 | -3.8 | -5.2 | -6.6 | -8.0 | - | - | 51.9 | 7.0 | -7.5 | -8.3 | -9.1 | -10.0 | - | - |
| | 67 | 50.8 | 6.2 | 12.4 | 11.0 | 9.5 | 8.1 | 6.7 | - | 44.5 | 6.6 | 7.5 | 6.7 | 5.8 | 5.0 | 4.2 | - |
| | 62 | 43.7 | 5.9 | 28.3 | 26.9 | 25.5 | 24.1 | 22.7 | 21.3 | 37.3 | 6.3 | 22.4 | 21.5 | 20.7 | 19.9 | 19.0 | 18.2 |
| | 57 | 42.7 | 5.7 | 32.5 | 32.1 | 31.8 | 30.4 | 29.0 | 27.6 | 37.7 | 6.1 | 26.0 | 25.9 | 25.8 | 24.9 | 24.1 | 23.3 |
| 3400 | 77 | 68.6 | 6.7 | -27.9 | -30.0 | -32.1 | - | - | - | 61.7 | 7.4 | -32.4 | -33.8 | -35.3 | - | - | - |
| | 72 | 60.9 | 6.4 | -5.1 | -7.2 | -9.3 | -11.5 | - | - | 54.0 | 6.9 | -10.0 | -11.5 | -13.0 | -14.5 | - | - |
| | 67 | 53.3 | 6.1 | 17.7 | 15.6 | 13.5 | 11.3 | 9.2 | - | 46.3 | 6.5 | 12.3 | 10.8 | 9.3 | 7.9 | 6.4 | - |
| | 62 | 45.9 | 5.8 | 40.2 | 38.1 | 36.0 | 33.8 | 31.7 | 29.6 | 38.7 | 6.2 | 34.5 | 33.0 | 31.5 | 30.0 | 28.5 | 27.1 |
| | 57 | 44.8 | 5.6 | 44.8 | 44.8 | 44.8 | 42.7 | 40.6 | 38.4 | 39.2 | 6.0 | 39.2 | 39.2 | 39.2 | 37.7 | 36.3 | 34.8 |
| 3825 | 72 | 62.9 | 6.4 | -6.3 | -9.3 | -12.2 | -15.2 | - | - | 56.1 | 6.9 | -12.4 | -14.8 | -17.2 | -19.6 | - | - |
| | 67 | 55.1 | 6.0 | 23.5 | 20.6 | 17.6 | 14.7 | 11.7 | - | 48.1 | 6.4 | 18.8 | 16.4 | 14.0 | 11.6 | 9.3 | - |
| | 62 | 47.4 | 5.7 | 44.6 | 43.5 | 42.4 | 39.5 | 36.5 | 33.6 | 40.3 | 6.1 | 38.1 | 37.5 | 38.0 | 35.6 | 33.2 | 30.8 |
| | 57 | 46.3 | 5.6 | 46.3 | 46.3 | 46.3 | 43.3 | 40.4 | 37.4 | 40.8 | 6.0 | 40.8 | 40.8 | 40.8 | 38.4 | 36.0 | 33.6 |
| 4250 | 72 | 64.9 | 6.3 | -7.6 | -11.3 | -15.1 | -18.9 | - | - | 58.2 | 6.8 | -14.8 | -18.1 | -21.4 | -24.6 | - | - |
| | 67 | 56.8 | 6.0 | 29.3 | 25.6 | 21.8 | 18.0 | 14.2 | - | 49.9 | 6.4 | 25.3 | 22.0 | 18.7 | 15.4 | 12.1 | - |
| | 62 | 48.9 | 5.7 | 48.9 | 48.9 | 48.9 | 45.1 | 41.4 | 37.6 | 41.8 | 6.1 | 41.8 | 41.8 | 41.8 | 41.1 | 37.8 | 34.6 |
| | 57 | 47.7 | 5.5 | 47.7 | 47.7 | 47.7 | 44.0 | 40.2 | 36.4 | 42.3 | 5.9 | 42.3 | 42.3 | 42.3 | 39.0 | 35.7 | 32.4 |

## Table 11: WP120 (10 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 35°F | | | | | | | | 45°F | | | | | | | |
| 2500 | 77 | 94.6 | 5.1 | 6.3 | 3.3 | 0.3 | - | - | - | 88.6 | 5.9 | -2.7 | -4.8 | -6.8 | - | - | - |
| | 72 | 88.3 | 4.7 | 17.2 | 14.2 | 11.3 | 8.3 | - | - | 81.3 | 5.7 | 8.6 | 6.6 | 4.6 | 2.6 | - | - |
| | 67 | 82.0 | 4.3 | 28.2 | 25.2 | 22.2 | 19.2 | 16.2 | - | 74.0 | 5.4 | 20.0 | 18.0 | 16.0 | 13.9 | 11.9 | - |
| | 62 | 72.7 | 4.2 | 38.9 | 35.9 | 32.9 | 29.9 | 26.9 | 23.9 | 65.4 | 5.2 | 31.5 | 29.4 | 27.4 | 25.4 | 23.4 | 21.4 |
| 3000 | 77 | 100.8 | 5.1 | 9.5 | 5.4 | 1.2 | - | - | - | 94.5 | 5.8 | -3.3 | -6.3 | -9.3 | - | - | - |
| | 72 | 94.1 | 4.7 | 24.0 | 19.8 | 15.6 | 11.4 | - | - | 86.7 | 5.6 | 12.3 | 9.3 | 6.3 | 3.3 | - | - |
| | 67 | 87.3 | 4.3 | 38.4 | 34.2 | 30.0 | 25.8 | 21.6 | - | 78.9 | 5.4 | 28.0 | 25.0 | 22.0 | 19.0 | 15.9 | - |
| | 62 | 77.4 | 4.2 | 52.4 | 48.2 | 44.0 | 39.8 | 35.6 | 31.4 | 69.8 | 5.2 | 43.7 | 40.7 | 37.7 | 34.7 | 31.7 | 28.7 |
| | 57 | 68.0 | 4.6 | 59.2 | 55.0 | 50.8 | 46.7 | 42.5 | 38.3 | 62.4 | 5.3 | 51.4 | 48.4 | 45.4 | 42.4 | 39.4 | 36.4 |
| 3500 | 77 | 107.0 | 5.0 | 12.8 | 7.5 | 2.1 | - | - | - | 100.4 | 5.8 | -3.9 | -7.9 | -11.9 | - | - | - |
| | 72 | 99.8 | 4.6 | 30.7 | 25.3 | 19.9 | 14.6 | - | - | 92.1 | 5.6 | 16.0 | 12.0 | 8.0 | 4.1 | - | - |
| | 67 | 92.7 | 4.3 | 48.6 | 43.2 | 37.8 | 32.4 | 27.0 | - | 83.8 | 5.3 | 35.9 | 31.9 | 28.0 | 24.0 | 20.0 | - |
| | 62 | 82.1 | 4.2 | 65.9 | 60.5 | 55.1 | 49.7 | 44.3 | 39.0 | 74.1 | 5.1 | 56.0 | 52.0 | 48.0 | 44.0 | 40.0 | 36.0 |
| | 57 | 72.1 | 4.6 | 67.8 | 65.7 | 63.6 | 58.2 | 52.8 | 47.4 | 66.3 | 5.2 | 60.8 | 59.3 | 57.8 | 53.8 | 49.9 | 45.9 |
| 4000 | 77 | 113.1 | 5.0 | 16.1 | 9.5 | 3.0 | - | - | - | 106.3 | 5.7 | -4.5 | -9.4 | -14.4 | - | - | - |
| | 72 | 105.6 | 4.6 | 37.4 | 30.9 | 24.3 | 17.7 | - | - | 97.6 | 5.5 | 19.7 | 14.7 | 9.8 | 4.8 | - | - |
| | 67 | 98.0 | 4.2 | 58.8 | 52.2 | 45.6 | 39.0 | 32.4 | - | 88.8 | 5.3 | 43.9 | 38.9 | 33.9 | 29.0 | 24.0 | - |
| | 62 | 86.9 | 4.2 | 79.4 | 72.8 | 66.2 | 59.6 | 53.0 | 46.5 | 78.5 | 5.1 | 68.3 | 63.3 | 58.3 | 53.3 | 48.4 | 43.4 |
| | 57 | 76.3 | 4.6 | 76.3 | 76.3 | 76.3 | 69.7 | 63.1 | 56.6 | 70.2 | 5.2 | 70.2 | 70.2 | 70.2 | 65.3 | 60.3 | 55.3 |
| 4250 | 72 | 108.1 | 4.7 | 39.8 | 33.0 | 26.2 | 19.4 | - | - | 99.4 | 5.5 | 21.1 | 15.8 | 10.4 | 5.1 | - | - |
| | 67 | 100.3 | 4.3 | 60.9 | 54.1 | 47.2 | 40.4 | 33.6 | - | 90.5 | 5.3 | 46.9 | 41.6 | 36.2 | 30.9 | 25.5 | - |
| | 62 | 88.9 | 4.2 | 81.2 | 74.3 | 67.5 | 60.7 | 53.8 | 47.0 | 80.0 | 5.1 | 72.9 | 67.5 | 62.2 | 56.9 | 51.5 | 46.2 |
| | 57 | 78.1 | 4.6 | 78.1 | 78.1 | 78.1 | 71.3 | 64.5 | 57.6 | 71.6 | 5.2 | 71.6 | 71.6 | 71.6 | 66.2 | 60.9 | 55.6 |
| 4500 | 72 | 110.6 | 4.7 | 42.2 | 35.2 | 28.1 | 21.1 | - | - | 101.3 | 5.5 | 22.5 | 16.8 | 11.1 | 5.4 | - | - |
| | 67 | 102.6 | 4.3 | 63.0 | 56.0 | 48.9 | 41.8 | 34.8 | - | 92.2 | 5.2 | 49.9 | 44.2 | 38.5 | 32.8 | 27.0 | - |
| | 62 | 91.0 | 4.2 | 83.0 | 75.8 | 68.7 | 61.7 | 54.6 | 47.6 | 81.5 | 5.1 | 77.5 | 71.8 | 66.1 | 60.4 | 54.7 | 48.9 |
| | 57 | 79.9 | 4.6 | 79.9 | 79.9 | 79.9 | 72.9 | 65.8 | 58.7 | 72.9 | 5.2 | 72.9 | 72.9 | 72.9 | 67.2 | 61.5 | 55.8 |
| | | 55°F | | | | | | | | 65°F | | | | | | | |
| 2500 | 77 | 82.6 | 6.7 | -11.7 | -12.8 | -13.8 | - | - | - | 76.1 | 7.6 | -9.4 | -10.0 | -10.5 | - | - | - |
| | 72 | 74.3 | 6.6 | 0.0 | -1.0 | -2.1 | -3.1 | - | - | 68.0 | 7.3 | -1.1 | -1.7 | -2.2 | -2.8 | - | - |
| | 67 | 66.0 | 6.6 | 11.8 | 10.8 | 9.7 | 8.6 | 7.6 | - | 59.8 | 7.1 | 7.1 | 6.6 | 6.0 | 5.5 | 4.9 | - |
| | 62 | 58.2 | 6.2 | 24.0 | 23.0 | 21.9 | 20.9 | 19.8 | 18.8 | 52.4 | 6.7 | 15.6 | 15.1 | 14.5 | 14.0 | 13.4 | 12.9 |
| 3000 | 77 | 88.2 | 6.6 | -16.2 | -18.0 | -19.8 | - | - | - | 80.6 | 7.5 | -17.0 | -18.3 | -19.5 | - | - | - |
| | 72 | 79.4 | 6.6 | 0.7 | -1.1 | -3.0 | -4.8 | - | - | 72.0 | 7.2 | -2.2 | -3.4 | -4.7 | -6.0 | - | - |
| | 67 | 70.5 | 6.5 | 17.6 | 15.7 | 13.9 | 12.1 | 10.2 | - | 63.4 | 7.0 | 12.7 | 11.4 | 10.1 | 8.8 | 7.5 | - |
| | 62 | 62.2 | 6.2 | 35.1 | 33.3 | 31.4 | 29.6 | 27.8 | 26.0 | 55.5 | 6.7 | 27.8 | 26.5 | 25.2 | 23.9 | 22.7 | 21.4 |
| | 57 | 56.9 | 6.0 | 43.7 | 41.9 | 40.0 | 38.2 | 36.4 | 34.5 | 52.5 | 6.5 | 34.1 | 32.8 | 31.6 | 30.3 | 29.0 | 27.7 |
| 3500 | 77 | 93.9 | 6.6 | -20.6 | -23.2 | -25.8 | - | - | - | 85.2 | 7.4 | -24.6 | -26.6 | -28.6 | - | - | - |
| | 72 | 84.5 | 6.5 | 1.3 | -1.3 | -3.9 | -6.5 | - | - | 76.1 | 7.2 | -3.2 | -5.2 | -7.2 | -9.2 | - | - |
| | 67 | 75.0 | 6.4 | 23.3 | 20.7 | 18.1 | 15.5 | 12.9 | - | 67.0 | 6.9 | 18.2 | 16.2 | 14.2 | 12.2 | 10.2 | - |
| | 62 | 66.2 | 6.1 | 46.1 | 43.5 | 40.9 | 38.3 | 35.7 | 33.1 | 58.7 | 6.6 | 40.0 | 37.9 | 35.9 | 33.9 | 31.9 | 29.9 |
| | 57 | 60.5 | 5.9 | 53.9 | 53.0 | 52.1 | 49.5 | 46.9 | 44.3 | 55.4 | 6.4 | 46.2 | 45.6 | 44.9 | 42.8 | 40.8 | 38.8 |
| 4000 | 77 | 99.6 | 6.5 | -25.1 | -28.4 | -31.8 | - | - | - | 89.7 | 7.3 | -32.1 | -34.9 | -37.6 | - | - | - |
| | 72 | 89.6 | 6.4 | 2.0 | -1.4 | -4.8 | -8.1 | - | - | 80.2 | 7.1 | -4.2 | -6.9 | -9.7 | -12.4 | - | - |
| | 67 | 79.5 | 6.3 | 29.0 | 25.7 | 22.3 | 18.9 | 15.6 | - | 70.6 | 6.8 | 23.8 | 21.0 | 18.3 | 15.5 | 12.8 | - |
| | 62 | 70.1 | 6.0 | 57.2 | 53.8 | 50.4 | 47.0 | 43.7 | 40.3 | 61.8 | 6.5 | 52.1 | 49.4 | 46.6 | 43.9 | 41.1 | 38.4 |
| | 57 | 64.2 | 5.8 | 64.2 | 64.2 | 64.2 | 60.8 | 57.5 | 54.1 | 58.4 | 6.4 | 58.4 | 58.4 | 58.1 | 55.4 | 52.6 | 49.9 |
| 4250 | 72 | 90.8 | 6.3 | 2.4 | -1.5 | -5.4 | -9.2 | - | - | 81.3 | 7.1 | -4.7 | -7.9 | -11.1 | -14.3 | - | - |
| | 67 | 80.6 | 6.3 | 32.9 | 29.0 | 25.2 | 21.3 | 17.4 | - | 71.6 | 6.8 | 27.2 | 24.0 | 20.8 | 17.6 | 14.4 | - |
| | 62 | 71.1 | 6.0 | 64.6 | 60.8 | 56.9 | 53.1 | 49.2 | 45.3 | 62.7 | 6.5 | 57.9 | 55.4 | 53.0 | 49.8 | 46.6 | 43.4 |
| | 57 | 65.1 | 5.8 | 65.1 | 65.1 | 65.1 | 61.2 | 57.3 | 53.5 | 59.2 | 6.3 | 59.2 | 59.2 | 59.1 | 55.9 | 52.7 | 49.5 |
| 4500 | 72 | 92.0 | 6.3 | 2.8 | -1.6 | -6.0 | -10.3 | - | - | 82.5 | 7.0 | -5.3 | -8.9 | -12.6 | -16.2 | - | - |
| | 67 | 81.7 | 6.2 | 36.8 | 32.4 | 28.0 | 23.7 | 19.3 | - | 72.6 | 6.8 | 30.7 | 27.0 | 23.4 | 19.7 | 16.1 | - |
| | 62 | 72.0 | 5.9 | 72.0 | 67.8 | 63.4 | 59.1 | 54.7 | 50.3 | 63.6 | 6.5 | 63.6 | 61.4 | 59.3 | 55.6 | 52.0 | 48.3 |
| | 57 | 65.9 | 5.7 | 65.9 | 65.9 | 65.9 | 61.6 | 57.2 | 52.8 | 60.0 | 6.3 | 60.0 | 60.0 | 60.0 | 56.4 | 52.7 | 49.1 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 2500 | 77 | 69.6 | 8.4 | -7.1 | -7.1 | -7.2 | - | - | - | 63.2 | 9.2 | -4.8 | -4.3 | -3.8 | - | - | - |
| | 72 | 61.7 | 8.0 | -2.3 | -2.4 | -2.4 | -2.5 | - | - | 55.4 | 8.7 | -3.5 | -3.0 | -2.6 | -2.1 | - | - |
| | 67 | 53.7 | 7.6 | 2.4 | 2.4 | 2.4 | 2.3 | 2.3 | - | 47.6 | 8.1 | -2.2 | -1.8 | -1.3 | -0.9 | -0.4 | - |
| | 62 | 46.6 | 7.2 | 7.2 | 7.1 | 7.1 | 7.0 | 7.0 | 6.9 | 40.8 | 7.7 | -1.3 | -0.8 | -0.4 | 0.1 | 0.6 | 1.0 |

## Table 11: WP120 (10 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| 3000 | 77 | 73.1 | 8.3 | -17.8 | -18.5 | -19.3 | - | - | - | 65.5 | 9.2 | -18.6 | -18.8 | -19.0 | - | - | - |
| | 72 | 64.7 | 7.9 | -5.0 | -5.7 | -6.5 | -7.2 | - | - | 57.4 | 8.6 | -7.8 | -8.0 | -8.2 | -8.4 | - | - |
| | 67 | 56.4 | 7.5 | 7.8 | 7.1 | 6.3 | 5.6 | 4.8 | - | 49.3 | 8.1 | 2.9 | 2.7 | 2.5 | 2.3 | 2.1 | - |
| | 62 | 48.9 | 7.2 | 20.5 | 19.7 | 19.0 | 18.3 | 17.5 | 16.8 | 42.3 | 7.7 | 13.2 | 13.0 | 12.8 | 12.6 | 12.4 | 12.2 |
| | 57 | 48.0 | 7.0 | 24.6 | 23.8 | 23.1 | 22.4 | 21.6 | 20.9 | 43.6 | 7.5 | 15.0 | 14.8 | 14.6 | 14.4 | 14.2 | 14.0 |
| 3500 | 77 | 76.5 | 8.2 | -28.5 | -29.9 | -31.4 | - | - | - | 67.8 | 9.1 | -32.4 | -33.3 | -34.1 | - | - | - |
| | 72 | 67.7 | 7.9 | -7.7 | -9.1 | -10.5 | -12.0 | - | - | 59.4 | 8.5 | -12.2 | -13.0 | -13.9 | -14.7 | - | - |
| | 67 | 59.0 | 7.5 | 13.2 | 11.7 | 10.3 | 8.9 | 7.4 | - | 51.0 | 8.0 | 8.1 | 7.2 | 6.4 | 5.5 | 4.7 | - |
| | 62 | 51.2 | 7.1 | 33.8 | 32.4 | 30.9 | 29.5 | 28.1 | 26.6 | 43.7 | 7.6 | 27.6 | 26.8 | 25.9 | 25.1 | 24.3 | 23.4 |
| | 57 | 50.3 | 7.0 | 38.5 | 38.2 | 37.6 | 36.2 | 34.7 | 33.3 | 45.1 | 7.5 | 30.8 | 30.7 | 30.3 | 29.5 | 28.6 | 27.8 |
| 4000 | 77 | 79.9 | 8.2 | -39.2 | -41.3 | -43.4 | - | - | - | 70.1 | 9.0 | -46.3 | -47.8 | -49.3 | - | - | - |
| | 72 | 70.8 | 7.8 | -10.3 | -12.5 | -14.6 | -16.7 | - | - | 61.4 | 8.5 | -16.5 | -18.0 | -19.5 | -21.0 | - | - |
| | 67 | 61.6 | 7.4 | 18.5 | 16.4 | 14.3 | 12.1 | 10.0 | - | 52.7 | 7.9 | 13.2 | 11.7 | 10.2 | 8.7 | 7.2 | - |
| | 62 | 53.5 | 7.0 | 47.1 | 45.0 | 42.9 | 40.7 | 38.6 | 36.5 | 45.1 | 7.5 | 42.1 | 40.6 | 39.1 | 37.6 | 36.1 | 34.6 |
| | 57 | 52.5 | 6.9 | 52.5 | 52.5 | 52.1 | 50.0 | 47.8 | 45.7 | 46.7 | 7.4 | 46.7 | 46.7 | 46.0 | 44.5 | 43.0 | 41.5 |
| 4250 | 72 | 71.9 | 7.8 | -11.8 | -14.3 | -16.9 | -19.4 | - | - | 62.4 | 8.5 | -18.9 | -20.8 | -22.6 | -24.5 | - | - |
| | 67 | 62.6 | 7.4 | 21.5 | 19.0 | 16.5 | 14.0 | 11.4 | - | 53.6 | 7.9 | 15.8 | 14.0 | 12.1 | 10.3 | 8.4 | - |
| | 62 | 54.3 | 7.0 | 51.1 | 50.1 | 49.0 | 46.5 | 43.9 | 41.4 | 45.9 | 7.5 | 44.4 | 44.7 | 45.0 | 43.2 | 41.3 | 39.5 |
| | 57 | 53.3 | 6.9 | 53.3 | 53.3 | 53.1 | 50.6 | 48.1 | 45.5 | 47.4 | 7.4 | 47.4 | 47.4 | 47.1 | 45.3 | 43.4 | 41.6 |
| 4500 | 72 | 72.9 | 7.8 | -13.3 | -16.2 | -19.1 | -22.1 | - | - | 63.4 | 8.5 | -21.3 | -23.5 | -25.7 | -27.9 | - | - |
| | 67 | 63.5 | 7.4 | 24.5 | 21.6 | 18.7 | 15.8 | 12.9 | - | 54.5 | 8.0 | 18.4 | 16.2 | 14.0 | 11.8 | 9.6 | - |
| | 62 | 55.1 | 7.0 | 55.1 | 55.1 | 55.1 | 52.2 | 49.3 | 46.3 | 46.6 | 7.5 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 44.4 |
| | 57 | 54.1 | 6.9 | 54.1 | 54.1 | 54.1 | 51.2 | 48.3 | 45.4 | 48.2 | 7.4 | 48.2 | 48.2 | 48.2 | 46.0 | 43.8 | 41.6 |

## Table 12: WP150 (12.5 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 35°F | | | | | | | | 45°F | | | | | | | |
| 3125 | 77 | 113.8 | 7.3 | 9.3 | 7.0 | 4.8 | - | - | - | 108.5 | 8.4 | -3.0 | -4.8 | -6.6 | - | - | - |
| | 72 | 106.9 | 6.9 | 16.7 | 14.5 | 12.2 | 10.0 | - | - | 99.9 | 8.1 | 8.5 | 6.6 | 4.8 | 3.0 | - | - |
| | 67 | 100.0 | 6.5 | 24.1 | 21.9 | 19.7 | 17.4 | 15.2 | - | 91.3 | 7.8 | 19.9 | 18.1 | 16.3 | 14.4 | 12.6 | - |
| | 62 | 84.5 | 9.1 | 31.5 | 29.3 | 27.0 | 24.8 | 22.6 | 20.4 | 79.3 | 8.8 | 30.7 | 28.9 | 27.1 | 25.3 | 23.4 | 21.6 |
| 3750 | 77 | 122.9 | 6.6 | 13.7 | 10.0 | 6.4 | - | - | - | 116.4 | 8.0 | -4.0 | -7.0 | -9.9 | - | - | - |
| | 72 | 115.4 | 6.2 | 25.7 | 22.0 | 18.4 | 14.8 | - | - | 107.1 | 7.8 | 13.3 | 10.3 | 7.3 | 4.4 | - | - |
| | 67 | 107.9 | 5.9 | 37.6 | 34.0 | 30.4 | 26.7 | 23.1 | - | 97.9 | 7.5 | 30.5 | 27.6 | 24.6 | 21.6 | 18.6 | - |
| | 62 | 91.2 | 8.5 | 49.5 | 45.8 | 42.2 | 38.6 | 34.9 | 31.3 | 85.0 | 8.5 | 46.9 | 43.9 | 40.9 | 38.0 | 35.0 | 32.0 |
| | 57 | 83.5 | 8.6 | 60.4 | 56.8 | 53.1 | 49.5 | 45.9 | 42.2 | 78.0 | 8.4 | 57.2 | 54.2 | 51.2 | 48.3 | 45.3 | 42.3 |
| 4375 | 77 | 132.0 | 6.0 | 18.1 | 13.0 | 8.0 | - | - | - | 124.2 | 7.7 | -5.0 | -9.2 | -13.3 | - | - | - |
| | 72 | 123.9 | 5.6 | 34.6 | 29.6 | 24.5 | 19.5 | - | - | 114.4 | 7.4 | 18.1 | 14.0 | 9.8 | 5.7 | - | - |
| | 67 | 115.8 | 5.3 | 51.2 | 46.1 | 41.1 | 36.0 | 31.0 | - | 104.5 | 7.2 | 41.2 | 37.1 | 32.9 | 28.8 | 24.6 | - |
| | 62 | 98.0 | 7.8 | 67.5 | 62.4 | 57.4 | 52.3 | 47.3 | 42.3 | 90.8 | 8.1 | 63.1 | 59.0 | 54.8 | 50.7 | 46.5 | 42.4 |
| | 57 | 89.7 | 8.0 | 78.1 | 76.3 | 72.2 | 67.2 | 62.1 | 57.1 | 83.3 | 8.1 | 72.9 | 71.4 | 68.6 | 64.5 | 60.3 | 56.2 |
| 5000 | 77 | 141.1 | 5.3 | 22.5 | 16.1 | 9.6 | - | - | - | 132.1 | 7.3 | -6.0 | -11.4 | -16.7 | - | - | - |
| | 72 | 132.4 | 5.0 | 43.6 | 37.1 | 30.7 | 24.3 | - | - | 121.6 | 7.1 | 22.9 | 17.6 | 12.3 | 7.0 | - | - |
| | 67 | 123.8 | 4.7 | 64.7 | 58.2 | 51.8 | 45.3 | 38.9 | - | 111.2 | 6.9 | 51.9 | 46.6 | 41.3 | 36.0 | 30.6 | - |
| | 62 | 104.7 | 7.1 | 85.4 | 79.0 | 72.6 | 66.1 | 59.7 | 53.2 | 96.6 | 7.7 | 79.4 | 74.0 | 68.7 | 63.4 | 58.1 | 52.8 |
| | 57 | 95.9 | 7.3 | 95.9 | 95.9 | 91.3 | 84.9 | 78.4 | 72.0 | 88.6 | 7.7 | 88.6 | 88.6 | 86.0 | 80.7 | 75.4 | 70.0 |
| 5350 | 72 | 136.0 | 4.9 | 46.8 | 40.0 | 33.2 | 26.4 | - | - | 124.6 | 7.1 | 24.6 | 19.0 | 13.3 | 7.6 | - | - |
| | 67 | 127.1 | 4.6 | 69.3 | 62.5 | 55.7 | 48.9 | 42.1 | - | 113.9 | 6.8 | 55.9 | 50.2 | 44.6 | 38.9 | 33.2 | - |
| | 62 | 107.5 | 7.0 | 91.5 | 84.7 | 77.8 | 71.0 | 64.2 | 57.4 | 98.9 | 7.7 | 85.6 | 79.9 | 74.2 | 68.5 | 62.8 | 57.1 |
| | 57 | 98.4 | 7.2 | 98.4 | 98.4 | 96.2 | 89.3 | 82.5 | 75.7 | 90.7 | 7.7 | 90.7 | 90.7 | 89.4 | 83.7 | 78.1 | 72.4 |
| 5700 | 72 | 139.5 | 4.9 | 50.0 | 42.8 | 35.7 | 28.5 | - | - | 127.6 | 7.0 | 26.3 | 20.3 | 14.3 | 8.2 | - | - |
| | 67 | 130.3 | 4.6 | 73.9 | 66.7 | 59.6 | 52.4 | 45.2 | - | 116.6 | 6.8 | 59.9 | 53.9 | 47.8 | 41.8 | 35.8 | - |
| | 62 | 110.3 | 7.0 | 97.5 | 90.3 | 83.1 | 76.0 | 68.8 | 61.6 | 101.3 | 7.7 | 91.7 | 85.7 | 79.7 | 73.6 | 67.6 | 61.5 |
| | 57 | 101.0 | 7.2 | 101.0 | 101.0 | 101.0 | 93.8 | 86.7 | 79.5 | 92.9 | 7.6 | 92.9 | 92.9 | 92.9 | 86.8 | 80.8 | 74.7 |
| | | 55°F | | | | | | | | 65°F | | | | | | | |
| 3125 | 77 | 103.1 | 9.5 | -15.2 | -16.5 | -17.9 | - | - | - | 92.7 | 11.7 | -13.3 | -14.2 | -15.0 | - | - | - |
| | 72 | 92.8 | 9.4 | 0.2 | -1.2 | -2.5 | -3.9 | - | - | 83.0 | 11.1 | -1.5 | -2.3 | -3.2 | -4.0 | - | - |
| | 67 | 82.5 | 9.2 | 15.6 | 14.2 | 12.8 | 11.5 | 10.1 | - | 73.3 | 10.4 | 10.4 | 9.5 | 8.7 | 7.8 | 7.0 | - |
| | 62 | 74.1 | 8.5 | 29.9 | 28.5 | 27.1 | 25.7 | 24.3 | 22.9 | 64.8 | 9.7 | 21.9 | 21.0 | 20.2 | 19.3 | 18.4 | 17.6 |
| 3750 | 77 | 109.8 | 9.5 | -21.6 | -24.0 | -26.3 | - | - | - | 99.5 | 11.3 | -22.6 | -24.3 | -26.0 | - | - | - |
| | 72 | 98.8 | 9.3 | 0.9 | -1.4 | -3.7 | -6.1 | - | - | 89.1 | 10.6 | -2.5 | -4.2 | -5.9 | -7.6 | - | - |
| | 67 | 87.9 | 9.2 | 23.5 | 21.1 | 18.8 | 16.5 | 14.2 | - | 78.7 | 10.0 | 17.6 | 15.9 | 14.2 | 12.5 | 10.8 | - |
| | 62 | 78.9 | 8.5 | 44.3 | 42.0 | 39.7 | 37.4 | 35.0 | 32.7 | 69.6 | 9.3 | 37.3 | 35.6 | 33.9 | 32.2 | 30.5 | 28.7 |
| | 57 | 72.4 | 8.2 | 54.0 | 51.7 | 49.3 | 47.0 | 44.7 | 42.4 | 66.0 | 9.0 | 44.8 | 43.1 | 41.4 | 39.7 | 38.0 | 36.2 |
| 4375 | 77 | 116.5 | 9.4 | -28.1 | -31.4 | -34.6 | - | - | - | 106.3 | 10.8 | -31.8 | -34.4 | -37.0 | - | - | - |
| | 72 | 104.8 | 9.3 | 1.6 | -1.7 | -4.9 | -8.2 | - | - | 95.2 | 10.2 | -3.5 | -6.0 | -8.6 | -11.2 | - | - |
| | 67 | 93.2 | 9.1 | 31.3 | 28.1 | 24.8 | 21.5 | 18.3 | - | 84.0 | 9.6 | 24.9 | 22.3 | 19.7 | 17.2 | 14.6 | - |
| | 62 | 83.7 | 8.5 | 58.8 | 55.6 | 52.3 | 49.0 | 45.8 | 42.5 | 74.3 | 9.0 | 52.8 | 50.2 | 47.6 | 45.1 | 42.5 | 39.9 |
| | 57 | 76.8 | 8.2 | 67.6 | 66.4 | 65.0 | 61.7 | 58.5 | 55.2 | 70.6 | 8.7 | 60.0 | 59.1 | 58.1 | 55.5 | 52.9 | 50.3 |
| 5000 | 77 | 123.2 | 9.4 | -34.6 | -38.8 | -43.0 | - | - | - | 113.1 | 10.3 | -41.1 | -44.5 | -48.0 | - | - | - |
| | 72 | 110.8 | 9.2 | 2.3 | -1.9 | -6.1 | -10.3 | - | - | 101.2 | 9.8 | -4.5 | -7.9 | -11.4 | -14.8 | - | - |
| | 67 | 98.5 | 9.1 | 39.2 | 35.0 | 30.8 | 26.6 | 22.4 | - | 89.4 | 9.2 | 32.2 | 28.7 | 25.3 | 21.8 | 18.4 | - |
| | 62 | 88.5 | 8.4 | 73.3 | 69.1 | 64.9 | 60.7 | 56.5 | 52.3 | 79.1 | 8.6 | 68.3 | 64.8 | 61.4 | 57.9 | 54.5 | 51.0 |
| | 57 | 81.2 | 8.2 | 81.2 | 81.2 | 80.7 | 76.5 | 72.3 | 68.1 | 75.1 | 8.3 | 75.1 | 75.1 | 74.8 | 71.3 | 67.9 | 64.4 |
| 5350 | 72 | 113.2 | 9.2 | 2.5 | -2.1 | -6.6 | -11.2 | - | - | 103.3 | 9.7 | -5.1 | -8.9 | -12.7 | -16.5 | - | - |
| | 67 | 100.7 | 9.1 | 42.6 | 38.0 | 33.4 | 28.9 | 24.3 | - | 91.2 | 9.2 | 35.5 | 31.7 | 27.9 | 24.1 | 20.2 | - |
| | 62 | 90.4 | 8.4 | 79.6 | 75.1 | 70.5 | 66.0 | 61.4 | 56.9 | 80.7 | 8.6 | 73.7 | 70.8 | 67.8 | 64.0 | 60.2 | 56.4 |
| | 57 | 83.0 | 8.2 | 83.0 | 83.0 | 82.7 | 78.2 | 73.6 | 69.0 | 76.6 | 8.3 | 76.6 | 76.6 | 76.5 | 72.6 | 68.8 | 65.0 |
| 5700 | 72 | 115.6 | 9.2 | 2.7 | -2.2 | -7.2 | -12.1 | - | - | 105.4 | 9.7 | -5.7 | -9.8 | -14.0 | -18.2 | - | - |
| | 67 | 102.8 | 9.0 | 46.0 | 41.0 | 36.1 | 31.2 | 26.3 | - | 93.1 | 9.2 | 38.8 | 34.7 | 30.5 | 26.3 | 22.1 | - |
| | 62 | 92.3 | 8.4 | 86.0 | 81.1 | 76.2 | 71.2 | 66.3 | 61.4 | 82.3 | 8.5 | 79.2 | 76.7 | 74.2 | 70.1 | 65.9 | 61.7 |
| | 57 | 84.7 | 8.1 | 84.7 | 84.7 | 84.7 | 79.8 | 74.9 | 70.0 | 78.1 | 8.2 | 78.1 | 78.1 | 78.1 | 74.0 | 69.8 | 65.6 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 3125 | 77 | 82.3 | 14.0 | -11.5 | -11.8 | -12.1 | - | - | - | 71.9 | 16.2 | -9.6 | -9.4 | -9.2 | - | - | - |
| | 72 | 73.2 | 12.8 | -3.1 | -3.5 | -3.8 | -4.1 | - | - | 63.4 | 14.5 | -4.8 | -4.6 | -4.4 | -4.2 | - | - |
| | 67 | 64.1 | 11.6 | 5.2 | 4.8 | 4.5 | 4.2 | 3.9 | - | 54.9 | 12.8 | -0.1 | 0.2 | 0.4 | 0.6 | 0.8 | - |
| | 62 | 55.6 | 10.9 | 13.9 | 13.6 | 13.2 | 12.9 | 12.6 | 12.2 | 46.4 | 12.0 | 5.9 | 6.1 | 6.3 | 6.5 | 6.7 | 6.9 |

## Table 12: WP150 (12.5 ton)

| Air on evaporator coil | | Temperature of air on condenser coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | | Total capacity[1] (MBh) | Total input[2] (kW) | Sensible capacity (MBh) | | | | | |
| CFM | WB (°F) | | | Return dry bulb (°F) | | | | | | | | Return dry bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| 3750 | 77 | 89.2 | 13.1 | -23.5 | -24.6 | -25.7 | - | - | - | 78.9 | 14.9 | -24.4 | -24.9 | -25.4 | - | - | - |
| | 72 | 79.3 | 12.0 | -5.8 | -6.9 | -8.1 | -9.2 | - | - | 69.6 | 13.3 | -9.2 | -9.7 | -10.2 | -10.7 | - | - |
| | 67 | 69.5 | 10.9 | 11.8 | 10.7 | 9.6 | 8.5 | 7.4 | - | 60.3 | 11.7 | 6.0 | 5.5 | 5.0 | 4.5 | 3.9 | - |
| | 62 | 60.3 | 10.2 | 30.3 | 29.2 | 28.1 | 27.0 | 25.9 | 24.7 | 51.0 | 11.0 | 23.4 | 22.8 | 22.3 | 21.8 | 21.3 | 20.8 |
| | 57 | 59.6 | 9.8 | 35.7 | 34.6 | 33.5 | 32.3 | 31.2 | 30.1 | 53.3 | 10.5 | 26.6 | 26.0 | 25.5 | 25.0 | 24.5 | 24.0 |
| 4375 | 77 | 96.1 | 12.2 | -35.5 | -37.4 | -39.3 | - | - | - | 86.0 | 13.6 | -39.2 | -40.5 | -41.7 | - | - | - |
| | 72 | 85.5 | 11.2 | -8.5 | -10.4 | -12.3 | -14.2 | - | - | 75.8 | 12.1 | -13.6 | -14.8 | -16.0 | -17.3 | - | - |
| | 67 | 74.9 | 10.1 | 18.5 | 16.6 | 14.7 | 12.8 | 10.9 | - | 65.7 | 10.6 | 12.1 | 10.9 | 9.6 | 8.4 | 7.1 | - |
| | 62 | 65.0 | 9.5 | 46.8 | 44.9 | 43.0 | 41.1 | 39.2 | 37.3 | 55.6 | 10.0 | 40.8 | 39.6 | 38.3 | 37.1 | 35.9 | 34.6 |
| | 57 | 64.3 | 9.1 | 52.3 | 51.7 | 51.2 | 49.3 | 47.4 | 45.4 | 58.0 | 9.6 | 44.6 | 44.4 | 44.3 | 43.0 | 41.8 | 40.5 |
| 5000 | 77 | 103.0 | 11.3 | -47.6 | -50.3 | -53.0 | - | - | - | 93.0 | 12.3 | -54.0 | -56.0 | -58.0 | - | - | - |
| | 72 | 91.6 | 10.4 | -11.2 | -13.9 | -16.6 | -19.3 | - | - | 82.0 | 10.9 | -17.9 | -19.9 | -21.9 | -23.8 | - | - |
| | 67 | 80.2 | 9.4 | 25.2 | 22.5 | 19.8 | 17.1 | 14.4 | - | 71.1 | 9.5 | 18.2 | 16.2 | 14.2 | 12.3 | 10.3 | - |
| | 62 | 69.6 | 8.8 | 63.3 | 60.6 | 57.9 | 55.2 | 52.5 | 49.8 | 60.2 | 9.0 | 58.3 | 56.3 | 54.3 | 52.4 | 50.4 | 48.5 |
| | 57 | 68.9 | 8.5 | 68.9 | 68.9 | 68.9 | 66.2 | 63.5 | 60.8 | 62.7 | 8.6 | 62.7 | 62.7 | 62.7 | 61.0 | 59.1 | 57.1 |
| 5350 | 72 | 93.4 | 10.3 | -12.6 | -15.7 | -18.7 | -21.8 | - | - | 83.5 | 10.8 | -20.1 | -22.5 | -24.8 | -27.1 | - | - |
| | 67 | 81.8 | 9.3 | 28.4 | 25.4 | 22.3 | 19.2 | 16.2 | - | 72.3 | 9.5 | 21.4 | 19.1 | 16.7 | 14.4 | 12.1 | - |
| | 62 | 71.0 | 8.7 | 67.8 | 66.4 | 65.1 | 62.0 | 59.0 | 55.9 | 61.3 | 8.9 | 61.3 | 61.3 | 61.3 | 60.0 | 57.7 | 55.4 |
| | 57 | 70.2 | 8.4 | 70.2 | 70.2 | 70.2 | 67.1 | 64.1 | 61.0 | 63.8 | 8.5 | 63.8 | 63.8 | 63.8 | 61.6 | 59.3 | 57.0 |
| 5700 | 72 | 95.2 | 10.2 | -14.0 | -17.4 | -20.9 | -24.3 | - | - | 84.9 | 10.7 | -22.4 | -25.1 | -27.8 | -30.4 | - | - |
| | 67 | 83.3 | 9.3 | 31.7 | 28.3 | 24.9 | 21.4 | 18.0 | - | 73.6 | 9.4 | 24.6 | 21.9 | 19.2 | 16.5 | 13.8 | - |
| | 62 | 72.3 | 8.7 | 72.3 | 72.3 | 72.3 | 68.9 | 65.4 | 62.0 | 62.4 | 8.8 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.3 |
| | 57 | 71.5 | 8.3 | 71.5 | 71.5 | 71.5 | 68.1 | 64.7 | 61.2 | 64.9 | 8.4 | 64.9 | 64.9 | 64.9 | 62.2 | 59.5 | 56.8 |

# WP078-150 heating capacities

**Note:**

1. These capacities do not include the supply air blower motor heat. For net capacity, add motor heat, MBh = 3.415 x kW.
2. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.

**Table 13: WP078-150**

| Size (ton) | Model | Air over evaporator coil | | Capacity[1] and kW | Outdoor temperature (°F @ 72% RH) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CFM | DB (°F) | | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 |
| 078 (6.5) | WP | 1950 | 55 | MBH | 11.5 | 22.9 | 34.3 | 45.7 | 57.1 | 68.5 | 79.9 | 91.3 |
| | | | | kW | 4.3 | 4.5 | 4.7 | 4.9 | 5.1 | 5.3 | 5.5 | 5.7 |
| | | | 70 | MBH | 6.6 | 18.0 | 29.4 | 40.7 | 52.1 | 63.5 | 74.9 | 86.3 |
| | | | | kW | 5.0 | 5.2 | 5.4 | 5.6 | 5.8 | 6.0 | 6.2 | 6.4 |
| | | | 80 | MBH | 3.0 | 14.4 | 25.8 | 37.2 | 48.6 | 60.0 | 71.4 | 82.8 |
| | | | | kW | 5.8 | 6.0 | 6.2 | 6.4 | 6.6 | 6.8 | 7.0 | 7.1 |
| | | 2600 | 55 | MBH | 13.8 | 25.2 | 36.6 | 48.0 | 59.4 | 70.8 | 82.2 | 93.6 |
| | | | | kW | 3.7 | 3.9 | 4.1 | 4.3 | 4.5 | 4.7 | 4.9 | 5.1 |
| | | | 70 | MBH | 8.8 | 20.2 | 31.6 | 43.0 | 54.4 | 65.8 | 77.2 | 88.6 |
| | | | | kW | 4.4 | 4.6 | 4.8 | 5.0 | 5.2 | 5.4 | 5.6 | 5.8 |
| | | | 80 | MBH | 5.3 | 16.7 | 28.1 | 39.5 | 50.9 | 62.3 | 73.7 | 85.1 |
| | | | | kW | 5.2 | 5.4 | 5.6 | 5.8 | 6.0 | 6.1 | 6.3 | 6.5 |
| | | 3250 | 55 | MBH | 15.4 | 26.8 | 38.2 | 49.6 | 61.0 | 72.4 | 83.8 | 95.2 |
| | | | | kW | 3.5 | 3.7 | 3.9 | 4.1 | 4.3 | 4.5 | 4.7 | 4.9 |
| | | | 70 | MBH | 10.4 | 21.8 | 33.2 | 44.6 | 56.0 | 67.4 | 78.8 | 90.2 |
| | | | | kW | 4.2 | 4.4 | 4.6 | 4.8 | 5.0 | 5.2 | 5.4 | 5.6 |
| | | | 80 | MBH | 6.9 | 18.3 | 29.7 | 41.1 | 52.5 | 63.9 | 75.3 | 86.7 |
| | | | | kW | 5.0 | 5.2 | 5.4 | 5.6 | 5.8 | 6.0 | 6.1 | 6.3 |
| 090 (7.5) | WP | 2250 | 55 | MBH | 9.3 | 22.4 | 35.4 | 48.4 | 61.5 | 74.5 | 87.5 | 100.6 |
| | | | | kW | 4.6 | 4.8 | 5.0 | 5.2 | 5.4 | 5.6 | 5.8 | 6.0 |
| | | | 70 | MBH | 5.1 | 18.2 | 31.2 | 44.2 | 57.3 | 70.3 | 83.3 | 96.4 |
| | | | | kW | 5.5 | 5.7 | 5.9 | 6.1 | 6.3 | 6.5 | 6.6 | 6.8 |
| | | | 80 | MBH | 0.5 | 13.5 | 26.6 | 39.6 | 52.6 | 65.7 | 78.7 | 91.7 |
| | | | | kW | 6.2 | 6.4 | 6.5 | 6.7 | 6.9 | 7.1 | 7.3 | 7.5 |
| | | 3000 | 55 | MBH | 12.2 | 25.2 | 38.2 | 51.3 | 64.3 | 77.3 | 90.4 | 103.4 |
| | | | | kW | 4.1 | 4.3 | 4.4 | 4.6 | 4.8 | 5.0 | 5.2 | 5.4 |
| | | | 70 | MBH | 8.0 | 21.0 | 34.0 | 47.1 | 60.1 | 73.1 | 86.2 | 99.2 |
| | | | | kW | 4.9 | 5.1 | 5.3 | 5.5 | 5.7 | 5.9 | 6.1 | 6.3 |
| | | | 80 | MBH | 3.3 | 16.3 | 29.4 | 42.4 | 55.4 | 68.5 | 81.5 | 94.5 |
| | | | | kW | 5.6 | 5.8 | 6.0 | 6.2 | 6.4 | 6.6 | 6.7 | 6.9 |
| | | 3750 | 55 | MBH | 12.0 | 25.0 | 38.1 | 51.1 | 64.1 | 77.2 | 90.2 | 103.2 |
| | | | | kW | 3.7 | 3.9 | 4.1 | 4.3 | 4.5 | 4.7 | 4.8 | 5.0 |
| | | | 70 | MBH | 7.8 | 20.8 | 33.9 | 46.9 | 59.9 | 73.0 | 86.0 | 99.0 |
| | | | | kW | 4.6 | 4.8 | 5.0 | 5.2 | 5.3 | 5.5 | 5.7 | 5.9 |
| | | | 80 | MBH | 3.1 | 16.2 | 29.2 | 42.2 | 55.3 | 68.3 | 81.3 | 94.4 |
| | | | | kW | 5.3 | 5.4 | 5.6 | 5.8 | 6.0 | 6.2 | 6.4 | 6.6 |
| 102 (8.5) | WP | 2550 | 55 | MBH | 12.7 | 25.7 | 38.7 | 51.7 | 64.7 | 77.7 | 90.7 | 103.7 |
| | | | | kW | 4.8 | 4.9 | 5.1 | 5.2 | 5.4 | 5.6 | 5.7 | 5.9 |
| | | | 70 | MBH | 8.9 | 21.9 | 34.9 | 47.9 | 60.9 | 73.8 | 86.8 | 99.8 |
| | | | | kW | 5.8 | 6.0 | 6.1 | 6.3 | 6.4 | 6.6 | 6.7 | 6.9 |
| | | | 80 | MBH | 6.7 | 18.0 | 31.0 | 44.0 | 57.0 | 70.0 | 83.0 | 96.0 |
| | | | | kW | 6.6 | 6.8 | 6.9 | 7.1 | 7.2 | 7.4 | 7.5 | 7.7 |
| | | 3400 | 55 | MBH | 15.6 | 28.6 | 41.6 | 54.6 | 67.6 | 80.6 | 93.6 | 106.6 |
| | | | | kW | 4.2 | 4.4 | 4.5 | 4.7 | 4.8 | 5.0 | 5.1 | 5.3 |
| | | | 70 | MBH | 11.8 | 24.7 | 37.7 | 50.7 | 63.7 | 76.7 | 89.7 | 102.7 |
| | | | | kW | 5.2 | 5.4 | 5.5 | 5.7 | 5.8 | 6.0 | 6.1 | 6.3 |
| | | | 80 | MBH | 6.0 | 20.9 | 33.9 | 46.9 | 59.9 | 72.9 | 85.9 | 98.9 |
| | | | | kW | 6.0 | 6.2 | 6.4 | 6.5 | 6.7 | 6.8 | 7.0 | 7.1 |
| | | 4250 | 55 | MBH | 10.4 | 29.6 | 42.6 | 55.6 | 68.6 | 81.6 | 94.5 | 107.5 |
| | | | | kW | 3.8 | 3.9 | 4.1 | 4.3 | 4.4 | 4.6 | 4.7 | 4.9 |
| | | | 70 | MBH | 6.5 | 25.7 | 38.7 | 51.7 | 64.7 | 77.7 | 90.7 | 103.7 |
| | | | | kW | 4.8 | 5.0 | 5.1 | 5.3 | 5.4 | 5.6 | 5.7 | 5.9 |
| | | | 80 | MBH | 3.2 | 21.9 | 34.9 | 47.9 | 60.9 | 73.9 | 86.8 | 99.8 |
| | | | | kW | 5.6 | 5.8 | 5.9 | 6.1 | 6.2 | 6.4 | 6.5 | 6.7 |

## Table 13: WP078-150

| Size (ton) | Model | Air over evaporator coil | | Capacity[1] and kW | Outdoor temperature (°F @ 72% RH) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CFM | DB (°F) | | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 |
| 120 (10) | WP | 3000 | 55 | MBH | 20.2 | 35.1 | 50.0 | 64.9 | 79.8 | 94.8 | 109.7 | 124.6 |
| | | | | kW | 6.34 | 6.44 | 6.55 | 6.65 | 6.75 | 6.85 | 6.96 | 7.06 |
| | | | 70 | MBH | 15.9 | 30.9 | 45.8 | 60.7 | 75.6 | 90.5 | 105.4 | 120.3 |
| | | | | kW | 7.57 | 7.67 | 7.77 | 7.88 | 7.98 | 8.08 | 8.18 | 8.29 |
| | | | 80 | MBH | 11.7 | 26.6 | 41.5 | 56.4 | 71.3 | 86.2 | 101.1 | 116.0 |
| | | | | kW | 8.52 | 8.62 | 8.73 | 8.83 | 8.93 | 9.03 | 9.14 | 9.24 |
| | | 4000 | 55 | MBH | 22.1 | 37.0 | 51.9 | 66.8 | 81.8 | 96.7 | 111.6 | 126.5 |
| | | | | kW | 5.60 | 5.70 | 5.80 | 5.91 | 6.01 | 6.11 | 6.21 | 6.32 |
| | | | 70 | MBH | 17.9 | 32.8 | 47.7 | 62.6 | 77.6 | 92.5 | 107.4 | 122.3 |
| | | | | kW | 6.84 | 6.94 | 7.04 | 7.14 | 7.25 | 7.35 | 7.45 | 7.55 |
| | | | 80 | MBH | 13.7 | 28.6 | 43.5 | 58.4 | 73.3 | 88.2 | 103.1 | 118.0 |
| | | | | kW | 7.80 | 7.91 | 8.01 | 8.11 | 8.21 | 8.32 | 8.42 | 8.52 |
| | | 5000 | 55 | MBH | 22.1 | 37.0 | 51.9 | 66.9 | 81.8 | 96.7 | 111.6 | 126.5 |
| | | | | kW | 5.20 | 5.30 | 5.41 | 5.51 | 5.61 | 5.71 | 5.82 | 5.92 |
| | | | 70 | MBH | 17.9 | 32.8 | 47.7 | 62.6 | 77.5 | 92.4 | 107.3 | 122.3 |
| | | | | kW | 6.43 | 6.53 | 6.63 | 6.74 | 6.84 | 6.94 | 7.04 | 7.15 |
| | | | 80 | MBH | 13.6 | 28.5 | 43.4 | 58.3 | 73.2 | 88.1 | 103.1 | 118.0 |
| | | | | kW | 7.38 | 7.48 | 7.59 | 7.69 | 7.79 | 7.89 | 8.00 | 8.10 |
| 150 (12.5) | WP | 3750 | 55 | MBH | 19.1 | 42.2 | 65.4 | 88.5 | 111.7 | 134.9 | 158.0 | 181.2 |
| | | | | kW | 6.95 | 7.48 | 8.01 | 8.54 | 9.08 | 9.61 | 10.14 | 10.67 |
| | | | 70 | MBH | 8.4 | 31.5 | 54.7 | 77.8 | 101.0 | 124.2 | 147.3 | 170.5 |
| | | | | kW | 8.55 | 9.08 | 9.61 | 10.15 | 10.68 | 11.21 | 11.74 | 12.27 |
| | | | 80 | MBH | 1.9 | 25.1 | 48.3 | 71.4 | 94.6 | 117.7 | 140.9 | 164.1 |
| | | | | kW | 9.74 | 10.27 | 10.80 | 11.34 | 11.87 | 12.40 | 12.93 | 13.47 |
| | | 5000 | 55 | MBH | 21.2 | 44.3 | 67.5 | 90.7 | 113.8 | 137.0 | 160.1 | 183.3 |
| | | | | kW | 5.83 | 6.36 | 6.89 | 7.43 | 7.96 | 8.49 | 9.02 | 9.56 |
| | | | 70 | MBH | 11.2 | 34.4 | 57.6 | 80.7 | 103.9 | 127.0 | 150.2 | 173.4 |
| | | | | kW | 7.66 | 8.19 | 8.72 | 9.25 | 9.79 | 10.32 | 10.85 | 11.38 |
| | | | 80 | MBH | 4.9 | 28.1 | 51.2 | 74.4 | 97.6 | 120.7 | 143.9 | 167.0 |
| | | | | kW | 8.87 | 9.41 | 9.94 | 10.47 | 11.00 | 11.53 | 12.07 | 12.60 |
| | | 5600 | 55 | MBH | 22.8 | 45.9 | 69.1 | 92.3 | 115.4 | 138.6 | 161.7 | 184.9 |
| | | | | kW | 5.76 | 6.29 | 6.82 | 7.36 | 7.89 | 8.42 | 8.95 | 9.49 |
| | | | 70 | MBH | 12.1 | 35.2 | 58.4 | 81.5 | 104.7 | 127.9 | 151.0 | 174.2 |
| | | | | kW | 7.36 | 7.89 | 8.43 | 8.96 | 9.49 | 10.02 | 10.56 | 11.09 |
| | | | 80 | MBH | 5.6 | 28.8 | 52.0 | 75.1 | 98.3 | 121.5 | 144.6 | 167.8 |
| | | | | kW | 8.55 | 9.09 | 9.62 | 10.15 | 10.68 | 11.21 | 11.75 | 12.28 |

# Airflow performance

## WP078-150 side duct application

### Table 14: WP078 (6.5 ton) side duct

| Air flow (cfm) | Available external static pressure - IWG$_1$ | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.2 | | 0.4 | | 0.6 | | 0.8 | | 1.0 | | 1.2 | | 1.4 | | 1.6 | | 1.8 | | 2.0 | |
| | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp |
| | Field Supplied Drive | | | | Standard 1.5 HP and Drive | | | | | | Hi Static 2 HP and Drive | | | | | | | | | |
| 1800 | 551 | 0.15 | 617 | 0.35 | 682 | 0.53 | 747 | 0.71 | 810 | 0.89 | 872 | 1.06 | 932 | 1.24 | 989 | 1.42 | 1043 | 1.62 | 1093 | 1.83 |
| 2000 | 564 | 0.25 | 630 | 0.45 | 695 | 0.64 | 760 | 0.81 | 824 | 0.99 | 885 | 1.16 | 945 | 1.34 | 1002 | 1.53 | 1056 | 1.72 | 1106 | 1.93 |
| 2200 | 578 | 0.37 | 643 | 0.56 | 709 | 0.75 | 774 | 0.93 | 837 | 1.10 | 899 | 1.28 | 959 | 1.46 | 1016 | 1.64 | 1070 | 1.83 | 1120 | 2.04 |
| 2400 | 592 | 0.49 | 657 | 0.69 | 723 | 0.88 | 787 | 1.05 | 851 | 1.23 | 913 | 1.40 | 973 | 1.58 | 1030 | 1.77 | 1083 | 1.96 | 1134 | 2.17 |
| 2600 | 606 | 0.63 | 672 | 0.83 | 737 | 1.01 | 802 | 1.19 | 866 | 1.37 | 927 | 1.54 | 987 | 1.72 | 1044 | 1.90 | 1098 | 2.10 | 1148 | 2.30 |
| 2800 | 622 | 0.77 | 687 | 0.97 | 753 | 1.16 | 818 | 1.33 | 881 | 1.51 | 943 | 1.68 | 1003 | 1.86 | 1060 | 2.05 | 1113 | 2.24 | - | - |
| 3000 | 638 | 0.92 | 704 | 1.12 | 769 | 1.31 | 834 | 1.49 | 897 | 1.66 | 959 | 1.84 | 1019 | 2.01 | 1076 | 2.20 | - | - | - | - |
| 3200 | 655 | 1.08 | 721 | 1.28 | 786 | 1.47 | 851 | 1.64 | 915 | 1.82 | 976 | 1.99 | 1036 | 2.17 | - | - | - | - | - | - |
| 3400 | 673 | 1.25 | 739 | 1.44 | 804 | 1.63 | 869 | 1.81 | 933 | 1.98 | 995 | 2.16 | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | 2 HP and Field Supplied Drive | | | | | |

1. Blower performance includes gas heat exchangers and 2 in. filters. See the Table for additional applications.
2. See the *Selecting rpm* table to determine the required motor sheave setting and to determine the maximum continuous bhp.
3. kW = BHP x .862

### Table 15: WP090 (7.5 ton) side duct

| Air flow (cfm) | Available external static pressure - IWG[1] | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.2 | | 0.4 | | 0.6 | | 0.8 | | 1.0 | | 1.2 | | 1.4 | | 1.6 | | 1.8 | | 2.0 | |
| | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp |
| | Field Supplied Drive | | | | Standard 1.5 HP and Drive | | | | | | | | | | Hi Static 3 HP and Drive | | | | | |
| 2000 | - | - | 656 | 0.24 | 711 | 0.48 | 768 | 0.73 | 826 | 0.96 | 886 | 1.19 | 945 | 1.41 | 1003 | 1.61 | 1058 | 1.79 | 1110 | 1.95 |
| 2200 | 619 | 0.07 | 670 | 0.32 | 724 | 0.57 | 781 | 0.81 | 840 | 1.04 | 899 | 1.27 | 959 | 1.49 | 1016 | 1.69 | 1072 | 1.87 | 1124 | 2.04 |
| 2400 | 631 | 0.16 | 682 | 0.41 | 736 | 0.66 | 793 | 0.90 | 852 | 1.14 | 911 | 1.36 | 970 | 1.58 | 1028 | 1.78 | 1084 | 1.97 | 1136 | 2.13 |
| 2600 | 642 | 0.27 | 692 | 0.52 | 747 | 0.76 | 804 | 1.01 | 862 | 1.24 | 922 | 1.47 | 981 | 1.69 | 1039 | 1.89 | 1094 | 2.07 | 1146 | 2.24 |
| 2800 | 652 | 0.39 | 703 | 0.64 | 757 | 0.88 | 814 | 1.13 | 873 | 1.36 | 932 | 1.59 | 992 | 1.81 | 1049 | 2.01 | 1105 | 2.19 | 1157 | 2.36 |
| 3000 | 663 | 0.53 | 714 | 0.77 | 768 | 1.02 | 825 | 1.26 | 884 | 1.50 | 943 | 1.73 | 1003 | 1.94 | 1060 | 2.14 | 1116 | 2.33 | 1168 | 2.49 |
| 3200 | 675 | 0.68 | 726 | 0.92 | 780 | 1.17 | 837 | 1.41 | 896 | 1.65 | 955 | 1.88 | 1014 | 2.09 | 1072 | 2.29 | 1128 | 2.48 | 1180 | 2.64 |
| 3400 | 688 | 0.84 | 739 | 1.09 | 793 | 1.34 | 850 | 1.58 | 909 | 1.82 | 968 | 2.04 | 1027 | 2.26 | 1085 | 2.46 | 1141 | 2.65 | 1193 | 2.81 |
| 3600 | 703 | 1.03 | 753 | 1.28 | 807 | 1.52 | 864 | 1.76 | 923 | 2.00 | 983 | 2.23 | 1042 | 2.44 | 1100 | 2.64 | 1155 | 2.83 | - | - |
| 3800 | 718 | 1.23 | 769 | 1.47 | 823 | 1.72 | 880 | 1.96 | 939 | 2.20 | 998 | 2.43 | 1058 | 2.64 | 1115 | 2.84 | 1171 | 3.03 | - | - |

1. Blower performance includes gas heat exchangers and 2 in. filters. See the *Static resistance* for additional applications.
2. See the *Selecting rpm* table to determine the required motor sheave setting and to determine the maximum continuous bhp.
3. kW = BHP x .932.4. Field Supplied Drive.

### Table 16: WP102 (8.5 ton) side duct

| Air flow (cfm) | Available external static pressure - IWG[1] | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.2 | | 0.4 | | 0.6 | | 0.8 | | 1.0 | | 1.2 | | 1.4 | | 1.6 | | 1.8 | | 2.0 | |
| | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp |
| | 2 HP and Field Supplied Drive | | | | Standard 2 HP and Drive | | | | | | | | | | Hi Static 3 HP and Drive | | | | | |
| 2200 | 632 | 0.23 | 684 | 0.44 | 734 | 0.65 | 783 | 0.84 | 830 | 1.03 | 876 | 1.21 | 921 | 1.39 | 966 | 1.56 | 1009 | 1.74 | 1051 | 1.91 |
| 2400 | 639 | 0.32 | 691 | 0.53 | 741 | 0.74 | 790 | 0.93 | 837 | 1.12 | 883 | 1.30 | 928 | 1.48 | 972 | 1.65 | 1015 | 1.83 | 1058 | 2.00 |
| 2600 | 646 | 0.41 | 698 | 0.62 | 748 | 0.82 | 797 | 1.02 | 844 | 1.21 | 890 | 1.39 | 936 | 1.57 | 980 | 1.74 | 1023 | 1.92 | 1065 | 2.09 |
| 2800 | 654 | 0.50 | 706 | 0.71 | 756 | 0.92 | 805 | 1.11 | 852 | 1.30 | 898 | 1.48 | 943 | 1.66 | 987 | 1.83 | 1031 | 2.01 | 1073 | 2.18 |
| 3000 | 663 | 0.60 | 714 | 0.81 | 765 | 1.02 | 813 | 1.21 | 861 | 1.40 | 907 | 1.58 | 952 | 1.76 | 996 | 1.93 | 1039 | 2.11 | 1082 | 2.28 |
| 3200 | 673 | 0.71 | 724 | 0.93 | 774 | 1.13 | 823 | 1.32 | 871 | 1.51 | 917 | 1.69 | 962 | 1.87 | 1006 | 2.05 | 1049 | 2.22 | 1091 | 2.39 |
| 3400 | 684 | 0.84 | 735 | 1.05 | 785 | 1.25 | 834 | 1.45 | 882 | 1.63 | 928 | 1.82 | 973 | 2.00 | 1017 | 2.17 | 1060 | 2.34 | 1102 | 2.52 |
| 3600 | 696 | 0.98 | 747 | 1.19 | 798 | 1.39 | 846 | 1.59 | 894 | 1.78 | 940 | 1.96 | 985 | 2.14 | 1029 | 2.31 | 1072 | 2.48 | 1115 | 2.66 |
| 3800 | 709 | 1.14 | 761 | 1.35 | 811 | 1.55 | 860 | 1.75 | 907 | 1.93 | 953 | 2.12 | 999 | 2.29 | 1043 | 2.47 | 1086 | 2.64 | 1128 | 2.81 |
| 4000 | 724 | 1.31 | 776 | 1.52 | 826 | 1.72 | 874 | 1.92 | 922 | 2.11 | 968 | 2.29 | 1013 | 2.47 | 1057 | 2.64 | 1100 | 2.82 | 1143 | 2.99 |
| 4200 | 740 | 1.50 | 792 | 1.71 | 842 | 1.92 | 890 | 2.11 | 938 | 2.30 | 984 | 2.48 | 1029 | 2.66 | 1073 | 2.83 | 1116 | 3.01 | 1159 | 3.18 |
| | | | | | | | | | | | | | | | | | 3 HP and Field Supplied Drive | | | |

1. Blower performance includes gas heat exchangers and 2 in. filters. See the Table for additional applications.
2. See the *Selecting rpm* table to determine the required motor sheave setting and to determine the maximum continuous bhp.
3. kW = BHP x .932.4. Field Supplied Drive.

## Table 17: WP120 (10 ton) side duct

| Air flow (CFM) | Available external static pressure - IWG[1] | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.2 | | 0.4 | | 0.6 | | 0.8 | | 1.0 | | 1.2 | | 1.4 | | 1.6 | | 1.8 | | 2.0 | |
| | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp |
| | 2 HP and Field Supplied Drive | | | | | | Standard 2 HP and Drive | | | | | | | | | | Hi Static 3 HP and Drive | | | |
| 2600 | 646 | 0.41 | 698 | 0.62 | 748 | 0.82 | 797 | 1.02 | 844 | 1.21 | 890 | 1.39 | 936 | 1.57 | 980 | 1.74 | 1023 | 1.92 | 1065 | 2.09 |
| 2800 | 654 | 0.50 | 706 | 0.71 | 756 | 0.92 | 805 | 1.11 | 852 | 1.30 | 898 | 1.48 | 943 | 1.66 | 987 | 1.83 | 1031 | 2.01 | 1073 | 2.18 |
| 3000 | 663 | 0.60 | 714 | 0.81 | 765 | 1.02 | 813 | 1.21 | 861 | 1.40 | 907 | 1.58 | 952 | 1.76 | 996 | 1.93 | 1039 | 2.11 | 1082 | 2.28 |
| 3200 | 673 | 0.71 | 724 | 0.93 | 774 | 1.13 | 823 | 1.32 | 871 | 1.51 | 917 | 1.69 | 962 | 1.87 | 1006 | 2.05 | 1049 | 2.22 | 1091 | 2.39 |
| 3400 | 684 | 0.84 | 735 | 1.05 | 785 | 1.25 | 834 | 1.45 | 882 | 1.63 | 928 | 1.82 | 973 | 2.00 | 1017 | 2.17 | 1060 | 2.34 | 1102 | 2.52 |
| 3600 | 696 | 0.98 | 747 | 1.19 | 798 | 1.39 | 846 | 1.59 | 894 | 1.78 | 940 | 1.96 | 985 | 2.14 | 1029 | 2.31 | 1072 | 2.48 | 1115 | 2.66 |
| 3800 | 709 | 1.14 | 761 | 1.35 | 811 | 1.55 | 860 | 1.75 | 907 | 1.93 | 953 | 2.12 | 999 | 2.29 | 1043 | 2.47 | 1086 | 2.64 | 1128 | 2.81 |
| 4000 | 724 | 1.31 | 776 | 1.52 | 826 | 1.72 | 874 | 1.92 | 922 | 2.11 | 968 | 2.29 | 1013 | 2.47 | 1057 | 2.64 | 1100 | 2.82 | 1143 | 2.99 |
| 4200 | 740 | 1.50 | 792 | 1.71 | 842 | 1.92 | 890 | 2.11 | 938 | 2.30 | 984 | 2.48 | 1029 | 2.66 | 1073 | 2.83 | 1116 | 3.01 | 1159 | 3.18 |
| 4400 | 757 | 1.71 | 809 | 1.92 | 859 | 2.13 | 908 | 2.32 | 955 | 2.51 | 1001 | 2.69 | 1046 | 2.87 | 1091 | 3.04 | 1134 | 3.22 | 1176 | 3.39 |
| 4600 | 776 | 1.94 | 827 | 2.15 | 877 | 2.35 | 926 | 2.55 | 974 | 2.74 | 1020 | 2.92 | 1065 | 3.10 | 1109 | 3.27 | 1152 | 3.45 | - | - |
| 4800 | 795 | 2.19 | 847 | 2.40 | 897 | 2.60 | 946 | 2.79 | 993 | 2.98 | 1040 | 3.16 | 1085 | 3.34 | - | - | - | - | - | - |
| 5000 | 816 | 2.45 | 868 | 2.66 | 918 | 2.86 | 967 | 3.06 | 1014 | 3.25 | 1061 | 3.43 | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | | | 3 HP and Field Supplied Drive | | | |

1. Blower performance includes gas heat exchangers and 2 in. filters. See the Table for additional applications.
2. See the *Selecting rpm* table to determine the required motor sheave setting and to determine the maximum continuous bhp.
3. kW = BHP x .932.4. Field Supplied Drive.

## Table 18: WP150 (12.5 ton) side duct

| Air flow (CFM) | Available external static pressure - IWG[1] | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.2 | | 0.4 | | 0.6 | | 0.8 | | 1.0 | | 1.2 | | 1.4 | | 1.6 | | 1.8 | | 2.0 | |
| | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp |
| | 3 HP and Field Supplied Drive | | | | | | | | | | Standard 3 HP and Drive | | | | | | | | | |
| 3200 | 673 | 0.71 | 724 | 0.93 | 774 | 1.13 | 823 | 1.32 | 871 | 1.51 | 917 | 1.69 | 962 | 1.87 | 1006 | 2.05 | 1049 | 2.22 | 1091 | 2.39 |
| 3400 | 684 | 0.84 | 735 | 1.05 | 785 | 1.25 | 834 | 1.45 | 882 | 1.63 | 928 | 1.82 | 973 | 2.00 | 1017 | 2.17 | 1060 | 2.34 | 1102 | 2.52 |
| 3600 | 696 | 0.98 | 747 | 1.19 | 798 | 1.39 | 846 | 1.59 | 894 | 1.78 | 940 | 1.96 | 985 | 2.14 | 1029 | 2.31 | 1072 | 2.48 | 1115 | 2.66 |
| 3800 | 709 | 1.14 | 761 | 1.35 | 811 | 1.55 | 860 | 1.75 | 907 | 1.93 | 953 | 2.12 | 999 | 2.29 | 1043 | 2.47 | 1086 | 2.64 | 1128 | 2.81 |
| 4000 | 724 | 1.31 | 776 | 1.52 | 826 | 1.72 | 874 | 1.92 | 922 | 2.11 | 968 | 2.29 | 1013 | 2.47 | 1057 | 2.64 | 1100 | 2.82 | 1143 | 2.99 |
| 4200 | 740 | 1.50 | 792 | 1.71 | 842 | 1.92 | 890 | 2.11 | 938 | 2.30 | 984 | 2.48 | 1029 | 2.66 | 1073 | 2.83 | 1116 | 3.01 | 1159 | 3.18 |
| 4400 | 757 | 1.71 | 809 | 1.92 | 859 | 2.13 | 908 | 2.32 | 955 | 2.51 | 1001 | 2.69 | 1046 | 2.87 | 1091 | 3.04 | 1134 | 3.22 | 1176 | 3.39 |
| 4600 | 776 | 1.94 | 827 | 2.15 | 877 | 2.35 | 926 | 2.55 | 974 | 2.74 | 1020 | 2.92 | 1065 | 3.10 | 1109 | 3.27 | 1152 | 3.45 | 1194 | 3.62 |
| 4800 | 795 | 2.19 | 847 | 2.40 | 897 | 2.60 | 946 | 2.79 | 993 | 2.98 | 1040 | 3.16 | 1085 | 3.34 | 1129 | 3.52 | 1172 | 3.69 | 1214 | 3.86 |
| 5000 | 816 | 2.45 | 868 | 2.66 | 918 | 2.86 | 967 | 3.06 | 1014 | 3.25 | 1061 | 3.43 | 1106 | 3.61 | 1150 | 3.78 | 1193 | 3.95 | 1235 | 4.13 |
| 5200 | 839 | 2.73 | 890 | 2.94 | 940 | 3.14 | 989 | 3.34 | 1037 | 3.53 | 1083 | 3.71 | 1128 | 3.89 | 1172 | 4.06 | 1215 | 4.23 | 1257 | 4.41 |
| 5400 | 862 | 3.03 | 914 | 3.24 | 964 | 3.44 | 1012 | 3.64 | 1060 | 3.82 | 1106 | 4.01 | 1151 | 4.18 | 1195 | 4.36 | 1238 | 4.53 | 1281 | 4.70 |
| 5600 | 886 | 3.34 | 938 | 3.55 | 988 | 3.76 | 1037 | 3.95 | 1084 | 4.14 | 1131 | 4.32 | 1176 | 4.50 | 1220 | 4.67 | 1263 | 4.85 | 1305 | 5.02 |
| 5800 | 912 | 3.67 | 964 | 3.89 | 1014 | 4.09 | 1063 | 4.28 | 1110 | 4.47 | 1156 | 4.65 | 1201 | 4.83 | 1246 | 5.01 | 1289 | 5.18 | 1331 | 5.35 |
| 6000 | 939 | 4.02 | 990 | 4.23 | 1041 | 4.44 | 1089 | 4.63 | 1137 | 4.82 | 1183 | 5.00 | 1228 | 5.18 | 1272 | 5.35 | 1315 | 5.53 | 1358 | 5.70 |
| 6200 | 967 | 4.39 | 1018 | 4.60 | 1068 | 4.80 | 1117 | 4.99 | 1165 | 5.18 | 1211 | 5.36 | 1256 | 5.54 | 1300 | 5.72 | - | - | - | - |
| | Hi Static 5 HP and Drive | | | | | | | | | | | | | | 5 HP and Field Supplied Drive | | | | | |

1. Blower performance includes gas heat exchangers and 2 in. filters. See the Table for additional applications.
2. See the *Selecting rpm* table to determine the required motor sheave setting and to determine the maximum continuous bhp.
3. kW = BHP x .932.4. Field Supplied Drive.

# WP078-150 bottom duct application

## Table 19: WP078 (6.5 ton) bottom duct

| Air flow (cfm) | Available external static pressure - IWG[1] | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.2 | | 0.4 | | 0.6 | | 0.8 | | 1.0 | | 1.2 | | 1.4 | | 1.6 | | 1.8 | | 2.0 | |
| | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp |
| | Field Supplied Drive | | | | Standard 1.5 HP and Drive | | | | Hi Static 2 HP and Drive | | | | | | | | | | | |
| 1800 | 596 | 0.34 | 659 | 0.52 | 724 | 0.68 | 791 | 0.84 | 856 | 0.98 | 919 | 1.12 | 978 | 1.25 | 1032 | 1.37 | 1077 | 1.49 | 1114 | 1.61 |
| 2000 | 612 | 0.44 | 674 | 0.62 | 740 | 0.79 | 806 | 0.94 | 872 | 1.08 | 935 | 1.22 | 994 | 1.35 | 1047 | 1.47 | 1093 | 1.60 | 1130 | 1.72 |
| 2200 | 628 | 0.56 | 691 | 0.74 | 757 | 0.90 | 823 | 1.05 | 889 | 1.20 | 952 | 1.33 | 1011 | 1.46 | 1064 | 1.59 | 1110 | 1.71 | 1147 | 1.83 |
| 2400 | 647 | 0.68 | 710 | 0.86 | 775 | 1.02 | 842 | 1.18 | 907 | 1.32 | 970 | 1.46 | 1030 | 1.59 | 1083 | 1.71 | 1128 | 1.83 | 1165 | 1.95 |
| 2600 | 667 | 0.82 | 730 | 0.99 | 795 | 1.16 | 862 | 1.31 | 927 | 1.46 | 990 | 1.59 | 1049 | 1.72 | 1103 | 1.85 | 1148 | 1.97 | 1185 | 2.09 |
| 2800 | 688 | 0.96 | 751 | 1.14 | 817 | 1.30 | 883 | 1.46 | 949 | 1.60 | 1012 | 1.74 | 1071 | 1.87 | 1124 | 1.99 | 1170 | 2.11 | 1207 | 2.23 |
| 3000 | 712 | 1.12 | 775 | 1.29 | 840 | 1.46 | 907 | 1.61 | 972 | 1.76 | 1035 | 1.89 | 1094 | 2.02 | 1148 | 2.15 | 1193 | 2.27 | - | - |
| 3200 | 737 | 1.28 | 800 | 1.46 | 865 | 1.62 | 932 | 1.78 | 997 | 1.92 | 1061 | 2.06 | 1120 | 2.19 | - | - | - | - | - | - |
| 3400 | 764 | 1.46 | 826 | 1.63 | 892 | 1.80 | 958 | 1.95 | 1024 | 2.09 | 1087 | 2.23 | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | 2 HP and Field Supplied Drive | | | | | |

1. Blower performance includes gas heat exchangers and 2 in. filters. See the Table for additional applications.
2. See the *Selecting rpm* table to determine the required motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x .932.4. Field Supplied Drive.

## Table 20: WP090 (7.5 ton) bottom duct

| Air flow (cfm) | Available external static pressure - IWG[1] | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.2 | | 0.4 | | 0.6 | | 0.8 | | 1.0 | | 1.2 | | 1.4 | | 1.6 | | 1.8 | | 2.0 | |
| | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp |
| | Field Supplied Drive | | Standard 1.5 HP and Drive | | | | | | | | | | Hi Static 3 HP and Drive | | | | | | | |
| 2000 | 644 | 0.11 | 698 | 0.38 | 755 | 0.62 | 814 | 0.85 | 874 | 1.06 | 933 | 1.26 | 990 | 1.46 | 1043 | 1.66 | 1090 | 1.87 | 1131 | 2.09 |
| 2200 | 666 | 0.26 | 720 | 0.53 | 777 | 0.77 | 836 | 1.00 | 896 | 1.21 | 956 | 1.41 | 1012 | 1.61 | 1065 | 1.81 | 1113 | 2.02 | 1153 | 2.24 |
| 2400 | 689 | 0.42 | 743 | 0.69 | 800 | 0.93 | 859 | 1.16 | 919 | 1.37 | 978 | 1.57 | 1035 | 1.77 | 1088 | 1.97 | 1135 | 2.18 | 1176 | 2.40 |
| 2600 | 712 | 0.60 | 766 | 0.87 | 823 | 1.11 | 882 | 1.34 | 942 | 1.55 | 1002 | 1.75 | 1058 | 1.95 | 1111 | 2.15 | 1159 | 2.36 | 1199 | 2.58 |
| 2800 | 736 | 0.80 | 790 | 1.06 | 847 | 1.31 | 906 | 1.53 | 967 | 1.74 | 1026 | 1.94 | 1082 | 2.14 | 1135 | 2.34 | 1183 | 2.55 | 1223 | 2.78 |
| 3000 | 761 | 1.00 | 815 | 1.27 | 872 | 1.52 | 931 | 1.74 | 991 | 1.95 | 1051 | 2.15 | 1107 | 2.35 | 1160 | 2.55 | 1208 | 2.76 | 1248 | 2.98 |
| 3200 | 787 | 1.22 | 840 | 1.49 | 898 | 1.74 | 957 | 1.96 | 1017 | 2.17 | 1076 | 2.37 | 1133 | 2.57 | 1186 | 2.77 | 1233 | 2.98 | 1274 | 3.20 |
| 3400 | 813 | 1.46 | 867 | 1.73 | 924 | 1.97 | 984 | 2.19 | 1044 | 2.40 | 1103 | 2.61 | 1160 | 2.80 | 1212 | 3.01 | 1260 | 3.21 | - | - |
| 3600 | 841 | 1.70 | 894 | 1.97 | 952 | 2.21 | 1011 | 2.44 | 1071 | 2.65 | 1130 | 2.85 | 1187 | 3.05 | - | - | - | - | - | - |
| 3800 | 869 | 1.96 | 923 | 2.22 | 980 | 2.47 | 1039 | 2.69 | 1099 | 2.90 | 1158 | 3.10 | 1215 | 3.30 | - | - | - | - | - | - |
| | | | | | | | | | | | | | | | 3 HP and Field Supplied Drive | | | | | |

1. Blower performance includes gas heat exchangers and 2 in. filters. See the Table for additional applications.
2. See the *Selecting rpm* table to determine the required motor sheave setting and to determine the maximum continuous bhp.
3. kW = BHP x .932.4. Field Supplied Drive.

## Table 21: WP102 (8.5 ton) bottom duct

| Air flow (cfm) | Available external static pressure - IWG[1] | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.2 | | 0.4 | | 0.6 | | 0.8 | | 1.0 | | 1.2 | | 1.4 | | 1.6 | | 1.8 | | 2.0 | |
| | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp |
| | 2 HP and Field Supplied Drive | | | | Standard 2 HP and Drive | | | | | | | | Hi Static 3 HP and Drive | | | | | | | |
| 2200 | 662 | 0.53 | 717 | 0.68 | 770 | 0.83 | 821 | 0.96 | 870 | 1.09 | 918 | 1.22 | 965 | 1.35 | 1010 | 1.47 | 1055 | 1.59 | 1098 | 1.71 |
| 2400 | 677 | 0.63 | 732 | 0.78 | 784 | 0.93 | 835 | 1.06 | 885 | 1.19 | 933 | 1.32 | 979 | 1.44 | 1025 | 1.57 | 1069 | 1.69 | 1112 | 1.81 |
| 2600 | 693 | 0.75 | 748 | 0.90 | 801 | 1.04 | 852 | 1.18 | 901 | 1.31 | 949 | 1.44 | 996 | 1.56 | 1041 | 1.68 | 1085 | 1.80 | 1129 | 1.92 |
| 2800 | 712 | 0.88 | 767 | 1.03 | 819 | 1.17 | 871 | 1.31 | 920 | 1.44 | 968 | 1.57 | 1014 | 1.69 | 1060 | 1.81 | 1104 | 1.94 | 1148 | 2.06 |
| 3000 | 733 | 1.03 | 788 | 1.18 | 841 | 1.33 | 892 | 1.46 | 941 | 1.59 | 989 | 1.72 | 1036 | 1.84 | 1081 | 1.97 | 1125 | 2.09 | 1169 | 2.21 |
| 3200 | 757 | 1.20 | 811 | 1.36 | 864 | 1.50 | 915 | 1.64 | 964 | 1.77 | 1012 | 1.89 | 1059 | 2.02 | 1104 | 2.14 | 1149 | 2.26 | 1192 | 2.38 |
| 3400 | 782 | 1.40 | 837 | 1.55 | 890 | 1.69 | 941 | 1.83 | 990 | 1.96 | 1038 | 2.09 | 1085 | 2.21 | 1130 | 2.33 | 1174 | 2.45 | 1218 | 2.58 |
| 3600 | 810 | 1.61 | 865 | 1.76 | 918 | 1.91 | 969 | 2.04 | 1018 | 2.18 | 1066 | 2.30 | 1113 | 2.43 | 1158 | 2.55 | 1203 | 2.67 | 1246 | 2.79 |
| 3800 | 841 | 1.85 | 896 | 2.00 | 948 | 2.14 | 999 | 2.28 | 1049 | 2.41 | 1097 | 2.54 | 1143 | 2.66 | 1189 | 2.78 | 1233 | 2.91 | 1276 | 3.03 |
| 4000 | 874 | 2.11 | 928 | 2.26 | 981 | 2.40 | 1032 | 2.54 | 1082 | 2.67 | 1130 | 2.80 | 1176 | 2.92 | 1222 | 3.04 | 1266 | 3.16 | 1309 | 3.28 |
| 4200 | 909 | 2.38 | 963 | 2.53 | 1016 | 2.68 | 1067 | 2.81 | 1117 | 2.95 | 1164 | 3.07 | 1211 | 3.20 | 1256 | 3.32 | 1301 | 3.44 | - | - |
| | | | | | | | | | 3 HP and Field Supplied Drive | | | | | | | | | | | |

1. Blower performance includes gas heat exchangers and 2 in. filters. See the Table for additional applications.
2. See the *Selecting rpm* table to determine the required motor sheave setting and to determine the maximum continuous bhp.
3. kW = BHP x .932.4. Field Supplied Drive.

## Table 22: WP120 (10 ton) bottom duct

| Air flow (cfm) | Available external static pressure - IWG[1] | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.2 | | 0.4 | | 0.6 | | 0.8 | | 1.0 | | 1.2 | | 1.4 | | 1.6 | | 1.8 | | 2.0 | |
| | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp |
| | 2 HP and Field Supplied Drive | | | | Standard 2 HP and Drive | | | | | | | | Hi Static 3 HP and Drive | | | | | | | |
| 2600 | 693 | 0.75 | 748 | 0.90 | 801 | 1.04 | 852 | 1.18 | 901 | 1.31 | 949 | 1.44 | 996 | 1.56 | 1041 | 1.68 | 1085 | 1.80 | 1129 | 1.92 |
| 2800 | 712 | 0.88 | 767 | 1.03 | 819 | 1.17 | 871 | 1.31 | 920 | 1.44 | 968 | 1.57 | 1014 | 1.69 | 1060 | 1.81 | 1104 | 1.94 | 1148 | 2.06 |
| 3000 | 733 | 1.03 | 788 | 1.18 | 841 | 1.33 | 892 | 1.46 | 941 | 1.59 | 989 | 1.72 | 1036 | 1.84 | 1081 | 1.97 | 1125 | 2.09 | 1169 | 2.21 |
| 3200 | 757 | 1.20 | 811 | 1.36 | 864 | 1.50 | 915 | 1.64 | 964 | 1.77 | 1012 | 1.89 | 1059 | 2.02 | 1104 | 2.14 | 1149 | 2.26 | 1192 | 2.38 |
| 3400 | 782 | 1.40 | 837 | 1.55 | 890 | 1.69 | 941 | 1.83 | 990 | 1.96 | 1038 | 2.09 | 1085 | 2.21 | 1130 | 2.33 | 1174 | 2.45 | 1218 | 2.58 |
| 3600 | 810 | 1.61 | 865 | 1.76 | 918 | 1.91 | 969 | 2.04 | 1018 | 2.18 | 1066 | 2.30 | 1113 | 2.43 | 1158 | 2.55 | 1203 | 2.67 | 1246 | 2.79 |
| 3800 | 841 | 1.85 | 896 | 2.00 | 948 | 2.14 | 999 | 2.28 | 1049 | 2.41 | 1097 | 2.54 | 1143 | 2.66 | 1189 | 2.78 | 1233 | 2.91 | 1276 | 3.03 |
| 4000 | 874 | 2.11 | 928 | 2.26 | 981 | 2.40 | 1032 | 2.54 | 1082 | 2.67 | 1130 | 2.80 | 1176 | 2.92 | 1222 | 3.04 | 1266 | 3.16 | 1309 | 3.28 |
| 4200 | 909 | 2.38 | 963 | 2.53 | 1016 | 2.68 | 1067 | 2.81 | 1117 | 2.95 | 1164 | 3.07 | 1211 | 3.20 | 1256 | 3.32 | 1301 | 3.44 | - | - |
| 4400 | 946 | 2.68 | 1000 | 2.83 | 1053 | 2.98 | 1104 | 3.11 | 1154 | 3.24 | 1202 | 3.37 | - | - | - | - | - | - | - | - |
| 4600 | 985 | 3.00 | 1040 | 3.15 | 1092 | 3.29 | 1143 | 3.43 | - | - | - | - | - | - | - | - | - | - | - | - |
| 4800 | 1026 | 3.33 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | 3 HP and Field Supplied Drive | | | | | | | | | | | | | | | | | |

1. Blower performance includes gas heat exchangers and 2 in. filters. See the Table for additional applications.
2. See the *Selecting rpm* table to determine the required motor sheave setting and to determine the maximum continuous bhp.
3. kW = BHP x .932.4. Field Supplied Drive.

## Table 23: WP150 (12.5 ton) bottom duct

| Air flow (cfm) | Available external static pressure - IWG[1] | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.2 | | 0.4 | | 0.6 | | 0.8 | | 1.0 | | 1.2 | | 1.4 | | 1.6 | | 1.8 | | 2.0 | |
| | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp |
| | 3 HP and Field Supplied Drive | | | | | | Standard 3 HP and Drive | | | | | | | | | | Hi Static 5 HP and Drive | | | |
| 3200 | 757 | 1.20 | 811 | 1.36 | 864 | 1.50 | 915 | 1.64 | 964 | 1.77 | 1012 | 1.89 | 1059 | 2.02 | 1104 | 2.14 | 1149 | 2.26 | 1192 | 2.38 |
| 3400 | 782 | 1.40 | 837 | 1.55 | 890 | 1.69 | 941 | 1.83 | 990 | 1.96 | 1038 | 2.09 | 1085 | 2.21 | 1130 | 2.33 | 1174 | 2.45 | 1218 | 2.58 |
| 3600 | 810 | 1.61 | 865 | 1.76 | 918 | 1.91 | 969 | 2.04 | 1018 | 2.18 | 1066 | 2.30 | 1113 | 2.43 | 1158 | 2.55 | 1203 | 2.67 | 1246 | 2.79 |
| 3800 | 841 | 1.85 | 896 | 2.00 | 948 | 2.14 | 999 | 2.28 | 1049 | 2.41 | 1097 | 2.54 | 1143 | 2.66 | 1189 | 2.78 | 1233 | 2.91 | 1276 | 3.03 |
| 4000 | 874 | 2.11 | 928 | 2.26 | 981 | 2.40 | 1032 | 2.54 | 1082 | 2.67 | 1130 | 2.80 | 1176 | 2.92 | 1222 | 3.04 | 1266 | 3.16 | 1309 | 3.28 |
| 4200 | 909 | 2.38 | 963 | 2.53 | 1016 | 2.68 | 1067 | 2.81 | 1117 | 2.95 | 1164 | 3.07 | 1211 | 3.20 | 1256 | 3.32 | 1301 | 3.44 | 1344 | 3.56 |
| 4400 | 946 | 2.68 | 1000 | 2.83 | 1053 | 2.98 | 1104 | 3.11 | 1154 | 3.24 | 1202 | 3.37 | 1248 | 3.49 | 1294 | 3.62 | 1338 | 3.74 | 1381 | 3.86 |
| 4600 | 985 | 3.00 | 1040 | 3.15 | 1092 | 3.29 | 1143 | 3.43 | 1193 | 3.56 | 1241 | 3.69 | 1287 | 3.81 | 1333 | 3.93 | 1377 | 4.05 | 1420 | 4.18 |
| 4800 | 1026 | 3.33 | 1081 | 3.48 | 1133 | 3.63 | 1184 | 3.76 | 1234 | 3.90 | 1282 | 4.02 | 1328 | 4.15 | 1374 | 4.27 | 1418 | 4.39 | 1461 | 4.51 |
| 5000 | 1069 | 3.69 | 1124 | 3.84 | 1177 | 3.98 | 1228 | 4.12 | 1277 | 4.25 | 1325 | 4.38 | 1372 | 4.50 | 1417 | 4.62 | 1461 | 4.74 | 1505 | 4.87 |
| 5200 | 1114 | 4.06 | 1169 | 4.21 | 1222 | 4.35 | 1273 | 4.49 | 1322 | 4.62 | 1370 | 4.75 | 1417 | 4.87 | 1462 | 5.00 | 1506 | 5.12 | 1550 | 5.24 |
| 5400 | 1161 | 4.45 | 1216 | 4.60 | 1268 | 4.74 | 1319 | 4.88 | 1369 | 5.01 | 1417 | 5.14 | 1463 | 5.26 | 1509 | 5.38 | 1553 | 5.51 | 1596 | 5.63 |
| 5600 | 1210 | 4.86 | 1264 | 5.01 | 1317 | 5.15 | 1368 | 5.29 | 1418 | 5.42 | 1465 | 5.55 | 1512 | 5.67 | - | - | - | - | - | - |
| 5800 | 1260 | 5.28 | 1315 | 5.43 | 1367 | 5.57 | 1418 | 5.71 | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | 5 HP and Field Supplied Drive | | | | | | | | | | | | | | | | | |

1. Blower performance includes gas heat exchangers and 2 in. filters. See the Table for additional applications.
2. See the *Selecting rpm* table to determine the required motor sheave setting and to determine the maximum continuous bhp.
3. kW = BHP x .932.4. Field Supplied Drive.

## Table 24: Selecting rpm

| Size (ton) | Model | HP | Max BHP | Motor sheave | Blower sheave | 6 turns open | 5 turns open | 4 turns open | 3 turns open | 2 turns open | 1 turn open | Fully closed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 078 | WP | 1.5 | 1.73 | VL40 | AK74 | NA | 640 | 689 | 738 | 787 | 836 | 885 |
| (6.5) | | 2.0 | 2.30 | VL44 | AK71 | NA | 780 | 833 | 885 | 938 | 990 | 1043 |
| 090 | WP | 1.5 | 1.73 | 1VL40 | AK69 | N/A | 690 | 743 | 796 | 849 | 902 | 955 |
| (7.5) | | 3 | 3.45 | 1VM50 | AK69 | N/A | 955 | 1008 | 1062 | 1115 | 1168 | 1221 |
| 102 | WP | 2 | 2.30 | 1VP50 | AK89 | N/A | 735 | 775 | 815 | 851 | 889 | 930 |
| (8.5) | | 3 | 3.45 | 1VP50 | AK74 | N/A | 880 | 928 | 972 | 1016 | 1067 | 1110 |
| 120 | WP | 2 | 2.30 | 1VM50 | AK84 | N/A | 785 | 821 | 858 | 901 | 940 | 980 |
| (10) | | 3 | 3.45 | 1VM50 | AK74 | N/A | 880 | 928 | 972 | 1016 | 1067 | 1110 |
| 150 | WP | 3 | 3.45 | 1VM50 | AK74 | N/A | 880 | 928 | 972 | 1016 | 1067 | 1110 |
| (12.5) | | 5 | 5.75 | 1VP56 | BK77 | 1052 | 1095 | 1136 | 1175 | 1216 | 1272 | N/A |

# Drive selection

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

***Example***

1. 2600 CFM
2. 1.6 iwg
3. Using the supply air blower performance table below, the following data point was located: 1268 RPM and 1.95 BHP.
4. Using the RPM selection table below, Size X and Model Y is found.
5. 1.95 BHP exceeds the maximum continuous BHP rating of the 1.5 HP motor. The 2 HP motor is required.
6. 1268 RPM is within the range of the 2 HP drives.
7. Using the 2 HP motor and drive, .5 turns open will achieve 1268 RPM.

### Table 25: Example supply air blower performance

| Air flow (cfm) | Available external static pressure - IWG | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.2 | | 0.4 | | 0.6 | | 0.8 | | 1.0 | | 1.2 | | 1.4 | | 1.6 | | 1.8 | | 2.0 | |
| | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp | rpm | bhp |
| | 1.5 HP and Field Supplied Drive | | | | | | | | Standard 1.5 HP and Drive | | | | | | Alternate 2 HP and Drive | | | | | |
| 2200 | 804 | 0.50 | 866 | 0.71 | 925 | 0.90 | 982 | 1.06 | 1038 | 1.21 | 1092 | 1.35 | 1147 | 1.48 | 1203 | 1.61 | 1259 | 1.73 | 1317 | 1.87 |
| 2400 | 835 | 0.66 | 897 | 0.87 | 956 | 1.06 | 1013 | 1.22 | 1069 | 1.37 | 1124 | 1.51 | 1178 | 1.64 | 1234 | 1.77 | 1290 | 1.90 | 1348 | 2.03 |
| 2600 | 869 | 0.84 | 931 | 1.05 | 990 | 1.24 | 1047 | 1.40 | 1103 | 1.55 | 1158 | 1.69 | 1212 | 1.82 | 1268 | 1.95 | 1324 | 2.07 | 1382 | 2.21 |
| 2800 | 906 | 1.03 | 968 | 1.25 | 1027 | 1.43 | 1084 | 1.60 | 1139 | 1.75 | 1194 | 1.89 | 1249 | 2.02 | 1304 | 2.14 | 1361 | 2.27 | - | - |

### Table 26: RPM Selection

| Size (ton) | Model | HP | Max BHP | Motor sheave | Blower sheave | 6 turns open | 5 turns open | 4 turns open | 3 turns open | 2 turns open | 1 turn open | Fully closed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| X | Y | 1.5 | 1.73 | 1VM50 | AK74 | N/A | 897 | 945 | 991 | 1035 | 1079 | 1126 |
| | | 2 | 2.30 | 1VM50 | AK64 | N/A | 1039 | 1094 | 1150 | 1207 | 1256 | 1308 |

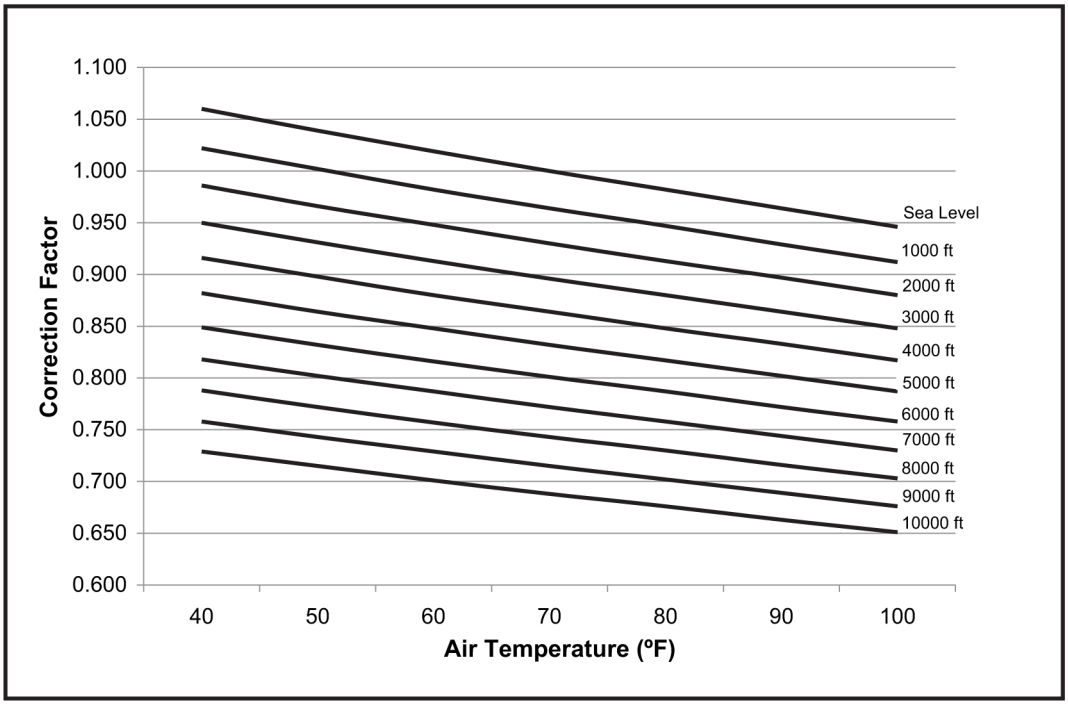
## Table 27: Additional static resistance

| Size (ton) | Model | CFM | Cooling only[1] | Reheat coil | Economizer[2, 3] | MERV 13 filter[2] | Electric Heat kW[2] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 9 | 18 | 24 | 36 | 54 |
| 078 (6.5)<br>090 (7.5)<br>102 (8.5)<br>120 (10)<br>150 (12.5) | WP | 1900 | 0.06 | 0.01 | 0.02 | 0.05 | 0.05 | 0.06 | 0.07 | 0.08 | 0.10 |
| | | 2100 | 0.07 | 0.01 | 0.02 | 0.06 | 0.06 | 0.07 | 0.08 | 0.09 | 0.11 |
| | | 2300 | 0.08 | 0.02 | 0.04 | 0.06 | 0.07 | 0.08 | 0.09 | 0.10 | 0.13 |
| | | 2500 | 0.09 | 0.02 | 0.11 | 0.07 | 0.08 | 0.09 | 0.10 | 0.11 | 0.14 |
| | | 2700 | 0.11 | 0.03 | 0.18 | 0.08 | 0.09 | 0.10 | 0.12 | 0.13 | 0.16 |
| | | 2900 | 0.12 | 0.03 | 0.25 | 0.08 | 0.10 | 0.11 | 0.13 | 0.14 | 0.18 |
| | | 3100 | 0.14 | 0.04 | 0.31 | 0.09 | 0.12 | 0.13 | 0.15 | 0.16 | 0.20 |
| | | 3300 | 0.16 | 0.14 | 0.37 | 0.10 | 0.13 | 0.14 | 0.17 | 0.18 | 0.22 |
| | | 3500 | 0.18 | 0.15 | 0.43 | 0.11 | 0.15 | 0.16 | 0.19 | 0.20 | 0.24 |
| | | 3700 | 0.20 | 0.17 | 0.49 | 0.12 | 0.17 | 0.18 | 0.21 | 0.22 | 0.26 |
| | | 3900 | 0.23 | 0.18 | 0.54 | 0.13 | 0.19 | 0.20 | 0.23 | 0.24 | 0.28 |
| | | 4100 | 0.25 | 0.19 | 0.58 | 0.14 | 0.21 | 0.22 | 0.25 | 0.26 | 0.31 |
| | | 4300 | 0.28 | 0.20 | 0.65 | 0.16 | 0.23 | 0.24 | 0.28 | 0.29 | 0.34 |
| | | 4500 | 0.30 | 0.21 | 0.69 | 0.17 | 0.25 | 0.26 | 0.30 | 0.31 | 0.37 |
| | | 4700 | 0.33 | 0.22 | 0.74 | 0.18 | 0.28 | 0.29 | 0.33 | 0.34 | 0.40 |
| | | 4900 | 0.36 | 0.24 | 0.78 | 0.20 | 0.30 | 0.31 | 0.35 | 0.37 | 0.43 |
| | | 5100 | 0.39 | 0.25 | 0.82 | 0.21 | 0.33 | 0.34 | 0.38 | 0.40 | 0.46 |
| | | 5300 | 0.42 | 0.26 | 0.86 | 0.23 | 0.35 | 0.37 | 0.41 | 0.43 | 0.49 |
| | | 5500 | 0.45 | 0.27 | 0.89 | 0.24 | 0.38 | 0.40 | 0.44 | 0.46 | 0.53 |
| | | 5700 | 0.48 | 0.28 | 0.93 | 0.26 | 0.41 | 0.43 | 0.47 | 0.49 | 0.56 |
| | | 5900 | 0.52 | 0.30 | 0.96 | 0.28 | 0.44 | 0.46 | 0.50 | 0.53 | 0.59 |
| | | 6100 | 0.56 | 0.31 | 0.98 | 0.29 | 0.47 | 0.49 | 0.53 | 0.56 | 0.62 |
| | | 6300 | 0.60 | 0.32 | 1.01 | 0.31 | 0.50 | 0.53 | 0.56 | 0.59 | 0.65 |

1. Add these values to the available static resistance in the respective *Blower performance*.
2. Deduct these values from the available external static pressure shown in the respective *Blower performance* tables.
3. 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 will deliver less cfm during full economizer operation.

## Table 28: Altitude/temperature correction factors

| Air temperature (°F) | 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 |




## Table 29: Electric heat minimum supply air

| Size (ton) | Model | Voltage | Minimum supply air (CFM) | | | | |
|---|---|---|---|---|---|---|---|
| | | | Heater kW | | | | |
| | | | 9 | 18 | 24 | 36 | 54 |
| 078 (6.5) | WP | 208/230-3-60 | 1950 | 1950 | 1950 | 1950 | — |
| | | 460-3-60 | 1950 | 1950 | 1950 | 1950 | — |
| | | 600-3-60 | 1950 | 1950 | 1950 | 2150 | — |
| 090 (7.5) | WP | 208/230-3-60 | 2250 | 2250 | 2250 | 2250 | — |
| | | 460-3-60 | 2250 | 2250 | 2250 | 2250 | — |
| | | 600-3-60 | 2250 | 2250 | 2250 | 2250 | — |
| 102 (8.5) | WP | 208/230-3-60 | 2550 | 2550 | 2550 | 2550 | — |
| | | 460-3-60 | 2550 | 2550 | 2550 | 2550 | — |
| | | 600-3-60 | 2550 | 2550 | 2550 | 2550 | — |
| 120 (10) | WP | 208/230-3-60 | — | 3000 | 3000 | 3000 | 3500 |
| | | 460-3-60 | — | 3000 | 3000 | 3000 | 3000 |
| | | 600-3-60 | — | 3000 | 3000 | 3000 | 3500 |
| 150 (12.5) | WP | 208/230-3-60 | — | 3750 | 3750 | 3750 | 4000 |
| | | 460-3-60 | — | 3750 | 3750 | 3750 | 3750 |
| | | 600-3-60 | — | 3750 | 3750 | 3750 | 3750 |

## Table 30: Indoor blower specifications

| Size (ton) | Model | Motor | | | | | Motor sheave | | | Blower sheave | | | Belt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HP | RPM | Eff. | SF | Frame | Datum diameter (in.) | Bore (in.) | Model | Datum diameter (in.) | Bore (in.) | Model | |
| 078 (6.5) | WP | 1-1/2 | 1725 | 0.86 | 1.15 | 56 | 2.4 - 3.4 | 7/8 | VL40 | 7.0 | 1 | AK74 | A52 |
| | | 2 | 1725 | 0.86 | 1.15 | 56 | 2.8 - 3.8 | 7/8 | VL44 | 6.7 | 1 | AK71 | A52 |
| 090 (7.5) | WP | 1-1/2 | 1725 | 0.86 | 1.15 | 56 | 2.4 - 3.4 | 7/8 | 1VL40 | 6.5 | 1 | AK69 | A52 |
| | | 3 | 1725 | 0.87 | 1.15 | 56 | 3.4 - 4.4 | 7/8 | 1VP50 | 6.5 | 1 | AK69 | A54 |
| 102 (8.5) | WP | 2 | 1725 | 0.86 | 1.15 | 56 | 3.4 - 4.4 | 7/8 | 1VP50 | 8.5 | 1 | AK89 | A56 |
| | | 3 | 1725 | 0.87 | 1.15 | 56 | 3.4 - 4.4 | 7/8 | 1VP50 | 7.0 | 1 | AK74 | A54 |
| 120 (10) | WP | 2 | 1725 | 0.86 | 1.15 | 56 | 3.4 - 4.4 | 7/8 | 1VP50 | 8.1 | 1 | AK84 | A56 |
| | | 3 | 1725 | 0.87 | 1.15 | 56 | 3.4 - 4.4 | 7/8 | 1VP50 | 7.0 | 1 | AK74 | A54 |
| 150 (12.5) | WP | 3 | 1725 | 0.87 | 1.15 | 56 | 3.4 - 4.4 | 7/8 | 1VP50 | 7.0 | 1 | AK74 | A54 |
| | | 5 | 1725 | 0.87 | 1.15 | 184T | 4.3 - 5.3 | 1-1/8 | 1VP56 | 7.1 | 1 | BK77 | BX56 |

## Table 31: Power exhaust specifications

| Model | Voltage | Motor | | | Unit (per circuit) | | | Fuse size | CFM @0.1 ESP |
|---|---|---|---|---|---|---|---|---|---|
| | | HP | RPM[1] | QTY | LRA | FLA | MCA | | |
| 2PE04704706 | 208/230-1-60 | 3/4 | 1075 | 1 | 24.9 | 5 | 6.3 | 10 | 4800 |
| 2PE04704746 | 460-1-60 | 3/4 | 1075 | 1 | N/A | 2.2 | 2.8 | 5 | 4800 |
| 2PE04704758 | 575-1-60 | 3/4 | 1050 | 1 | N/A | 1.5 | 1.9 | 4 | 4800 |

1. Motors are multi-tapped and factory wired for high speed.

## Table 32: Electric heat multipliers

| Voltage | | kW Capacity Multipliers |
|---|---|---|
| Nominal | Applied | |
| 240 | 208 | 0.75 |
| | 230 | 0.92 |
| 480 | 460 | 0.92 |
| 600 | 575 | 0.92 |

**Note:** 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 33: Indoor sound power levels

| Size (ton) | Model | CFM | ESP (IWG) | Blower | | Sound power, dB ($10^{-12}$) Watts | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Sound rating[1] dB (A) | Octave band centerline frequency (Hz) | | | | | | |
| | | | | RPM | BHP | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 078 (6.5) | WP | 2600 | 0.6 | 812 | 1.14 | 74 | 71 | 73 | 73 | 71 | 69 | 65 | 65 | 60 |
| 090 (7.5) | WP | 3000 | 0.6 | 854 | 1.47 | 77 | 74 | 76 | 76 | 74 | 72 | 68 | 68 | 63 |
| 102(8.5) | WP | 3400 | 0.6 | 872 | 1.65 | 80 | 77 | 79 | 79 | 77 | 75 | 71 | 71 | 66 |
| 120 (10) | WP | 4000 | 0.6 | 959 | 2.29 | 83 | 80 | 82 | 82 | 80 | 78 | 74 | 74 | 69 |
| 150 (12.5) | WP | 5000 | 0.6 | 1132 | 3.74 | 87 | 84 | 86 | 86 | 84 | 82 | 78 | 78 | 73 |

1. These values have been accessed using a model of sound propagation from a point source into the hemispheric/free field. The dBA values provided are to be used for reference only. Calculation of dBA values cover matters of system design and the fan manufacture has no way of knowing the details of each system. This constitutes an exception to any specification or guarantee requiring a dBA value of sound data in any other form than sound power level ratings.

## Table 34: Outdoor sound power levels

| Size (ton) | Model | Sound rating[1] dB (A) | Octave band centerline frequency (Hz) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 078 (6.5) | WP | 83 | 88.0 | 82.5 | 81.5 | 78.0 | 73.0 | 69.0 | 62.0 |
| 090 (7.5) | WP | 83 | 89.5 | 83.5 | 82.0 | 78.0 | 72.5 | 68.0 | 60.5 |
| 102 (8.5) | WP | 83 | 89.0 | 84.5 | 81.5 | 78.0 | 72.5 | 68.5 | 70.5 |
| 120 (10) | WP | 83 | 89.5 | 83.5 | 81.0 | 78.0 | 72.0 | 68.5 | 70.5 |
| 150 (12.5) | WP | 84 | 90.0 | 84.5 | 81.5 | 77.5 | 72.0 | 68.5 | 61.5 |

1. Rated in accordance with AHRI 270 standard.

# Electrical data

**Note:** This note relates to all electrical data tables.

1. MCA = Minimum circuit ampacity
2. Max fuse = Dual element, time delay type
3. Breaker size = HACR type per NEC

### Table 35: WP078-150 standard motor - without powered convenience outlet

| Size (ton) | Voltage | Compressors (each) | | | OD fan motors (each) | Supply blower motor | Pwr Exh motor | Pwr Conv outlet | Electric heat option | | | | MCA[1] (A) | MCA[1] w/Pwr Exh (A) | Max fuse [2] / breaker [3] size (A) | Max fuse[1] /breaker[2] size w/ Pwr Exh (A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RLA | LRA | MCC | FLA | FLA | FLA | FLA | Model | kW | Stages | Amps | | | | |
| 078 (6.5) | 208-3-60 | 9.6 | 90 | 15 | 1.65 | 9 | 5.5 | | None | - | - | - | 33.9 | 39.4 | 40 | 45 |
| | | | | | | | | | E09 | 6.8 | 1 | 18.9 | 57.5 | 63 | 60 | 70 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 80.8 | 86.3 | 90 | 90 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 96.4 | 101.9 | 100 | 110 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 122.4 | 127.9 | 125 | 150 |
| | 230-3-60 | 9.6 | 90 | 15 | 1.65 | 9 | 5.5 | | None | - | - | - | 33.9 | 39.4 | 40 | 45 |
| | | | | | | | | | E09 | 9 | 1 | 21.7 | 61 | 66.5 | 70 | 70 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 88 | 93.5 | 90 | 100 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 106 | 111.5 | 110 | 125 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 136.2 | 141.7 | 150 | 150 |
| | 460-3-60 | 4.9 | 36 | 8 | 1.1 | 4.6 | 2.2 | | None | - | - | - | 17.8 | 20 | 20 | 20 |
| | | | | | | | | | E09 | 9 | 1 | 10.8 | 31.3 | 33.5 | 35 | 35 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 44.9 | 47.1 | 45 | 50 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 53.9 | 56.1 | 60 | 60 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 68.9 | 71.1 | 70 | 80 |
| | 575-3-60 | 3.7 | 29 | 6 | 0.65 | 3.5 | 1.8 | | None | - | - | - | 13.1 | 14.9 | 15 | 15 |
| | | | | | | | | | E09 | 9 | 1 | 8.7 | 24 | 25.8 | 25 | 30 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 34.7 | 36.5 | 35 | 40 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 42 | 43.8 | 45 | 45 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 54 | 55.8 | 60 | 60 |
| 090 (7.5) | 208-3-60 | 12 | 123 | 19 | 1.65 | 9 | 5.5 | | None | - | - | - | 39.3 | 44.8 | 50 | 50 |
| | | | | | | | | | E09 | 6.8 | 1 | 18.9 | 62.9 | 68.4 | 70 | 70 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 86.2 | 91.7 | 90 | 100 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 101.8 | 107.3 | 110 | 110 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 127.8 | 133.3 | 150 | 150 |
| | 230-3-60 | 12 | 123 | 19 | 1.65 | 9 | 5.5 | | None | - | - | - | 39.3 | 44.8 | 50 | 50 |
| | | | | | | | | | E09 | 9 | 1 | 21.7 | 66.4 | 71.9 | 70 | 80 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 93.4 | 98.9 | 100 | 100 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 111.4 | 116.9 | 125 | 125 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 141.6 | 147.1 | 150 | 150 |
| | 460-3-60 | 6.3 | 60 | 10 | 1.1 | 4.6 | 2.2 | | None | - | - | - | 21 | 23.2 | 25 | 25 |
| | | | | | | | | | E09 | 9 | 1 | 10.8 | 34.5 | 36.7 | 35 | 40 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 48.1 | 50.3 | 50 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 57.1 | 59.3 | 60 | 60 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 72.1 | 74.3 | 80 | 80 |
| | 575-3-60 | 4.4 | 41 | 7 | 0.65 | 3.5 | 1.8 | | None | - | - | - | 14.7 | 16.5 | 15 | 20 |
| | | | | | | | | | E09 | 9 | 1 | 8.7 | 25.6 | 27.4 | 30 | 30 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 36.3 | 38.1 | 40 | 40 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 43.6 | 45.4 | 45 | 50 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 55.6 | 57.4 | 60 | 60 |

## Table 35: WP078-150 standard motor - without powered convenience outlet

| Size (ton) | Voltage | Compressors (each) | | | OD fan motors (each) | Supply blower motor | Pwr Exh motor | Pwr Conv outlet | Electric heat option | | | | MCA[1] (A) | MCA[1] w/Pwr Exh (A) | Max fuse[2] / breaker[3] size (A) | Max fuse[1] /breaker[2] size w/ Pwr Exh (A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RLA | LRA | MCC | FLA | FLA | FLA | FLA | Model | kW | Stages | Amps | | | | |
| 102 (8.5) | 208-3-60 | 13.5 | 120.4 | 21 | 1.65 | 9 | 5.5 | | None | - | - | - | 42 | 47.5 | 50 | 60 |
| | | | | | | | | | E09 | 6.8 | 1 | 18.9 | 65.6 | 71.1 | 70 | 80 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 88.9 | 94.4 | 90 | 100 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 104.5 | 110 | 110 | 110 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 130.5 | 136 | 150 | 150 |
| | 230-3-60 | 13.5 | 120.4 | 21 | 1.65 | 9 | 5.5 | | None | - | - | - | 42 | 47.5 | 50 | 60 |
| | | | | | | | | | E09 | 9 | 1 | 21.7 | 69.1 | 74.6 | 70 | 80 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 96.1 | 101.6 | 100 | 110 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 114.1 | 119.6 | 125 | 125 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 144.3 | 149.8 | 150 | 150 |
| | 460-3-60 | 6.4 | 50 | 10 | 1.1 | 4.6 | 2.2 | | None | - | - | - | 20.8 | 23 | 25 | 25 |
| | | | | | | | | | E09 | 9 | 1 | 10.8 | 34.3 | 36.5 | 35 | 40 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 47.9 | 50.1 | 50 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 56.9 | 59.1 | 60 | 60 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 71.9 | 74.1 | 80 | 80 |
| | 575-3-60 | 5.1 | 41 | 8 | 0.65 | 3.5 | 1.8 | | None | - | - | - | 17.2 | 19 | 20 | 20 |
| | | | | | | | | | E09 | 9 | 1 | 8.7 | 28.1 | 29.9 | 30 | 30 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 38.8 | 40.6 | 40 | 45 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 46.1 | 47.9 | 50 | 50 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 58.1 | 59.9 | 60 | 60 |
| 120 (10) | 208-3-60 | 16 | 156.4 | 25 | 1.65 | 9 | 5.5 | | None | - | - | - | 48.3 | 53.8 | 60 | 60 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 95.2 | 100.7 | 100 | 110 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 110.8 | 116.3 | 125 | 125 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 136.8 | 142.3 | 150 | 150 |
| | | | | | | | | | E54 | 40.6 | 2 | 112.7 | 152.1 | 159 | 175 | 175 |
| | 230-3-60 | 16 | 156.4 | 25 | 1.65 | 9 | 5.5 | | None | - | - | - | 48.3 | 53.8 | 60 | 60 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 102.4 | 107.9 | 110 | 110 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 120.4 | 125.9 | 125 | 150 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 150.6 | 156.1 | 175 | 175 |
| | | | | | | | | | E54 | 54 | 2 | 129.9 | 150.6 | 156.1 | 175 | 175 |
| | 460-3-60 | 7.1 | 69 | 11 | 1.1 | 4.6 | 2.2 | | None | - | - | - | 22.8 | 25 | 25 | 30 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 49.9 | 52.1 | 50 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 58.9 | 61.1 | 60 | 70 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 73.9 | 76.1 | 80 | 80 |
| | | | | | | | | | E54 | 54 | 2 | 65 | 73.9 | 76.1 | 80 | 80 |
| | 575-3-60 | 6.4 | 47.8 | 10 | 0.65 | 3.5 | 1.8 | | None | - | - | - | 19.2 | 21 | 25 | 25 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 40.8 | 42.6 | 45 | 45 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 48.1 | 49.9 | 50 | 50 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 60.1 | 61.9 | 70 | 70 |
| | | | | | | | | | E54 | 54 | 2 | 52 | 60.1 | 61.9 | 70 | 70 |
| 150 (12.5) | 208-3-60 | 22.4 | 166.2 | 35 | 3.5 | 13.2 | 5.5 | | None | - | - | - | 77.6 | 83.1 | 100 | 100 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 124.5 | 130 | 125 | 150 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 140.1 | 145.6 | 150 | 150 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 166.1 | 171.6 | 175 | 175 |
| | | | | | | | | | E54 | 40.6 | 2 | 112.7 | 166.1 | 171.6 | 175 | 175 |
| | 230-3-60 | 22.4 | 166.2 | 35 | 3.5 | 13.2 | 5.5 | | None | - | - | - | 77.6 | 83.1 | 100 | 100 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 131.7 | 137.2 | 150 | 150 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 149.7 | 155.2 | 150 | 175 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 179.9 | 185.4 | 200 | 200 |
| | | | | | | | | | E54 | 54 | 2 | 129.9 | 179.9 | 185.4 | 200 | 200 |
| | 460-3-60 | 8.8 | 74.6 | 14 | 1.6 | 6.1 | 2.2 | | None | - | - | - | 32.3 | 34.5 | 40 | 40 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 59.4 | 61.6 | 60 | 70 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 68.4 | 70.6 | 70 | 80 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 83.4 | 85.6 | 90 | 90 |
| | | | | | | | | | E54 | 54 | 2 | 65 | 83.4 | 85.6 | 90 | 90 |

## Table 36: WP078-150 Hi-Static motor - without powered convenience outlet

| Size (ton) | Voltage | Compressors (each) | | | OD fan motors (each) | Supply blower motor | Pwr Exh motor | Pwr Conv outlet | Electric heat option | | | | MCA[1] (A) | MCA[1]w/ Pwr Exh (A) | Max fuse[2]/breaker[3] size (A) | Max fuse[1]/ breaker[3] size w/ Pwr Exh (A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RLA | LRA | MCC | FLA | FLA | FLA | FLA | Model | kW | Stages | Amps | | | | |
| 078 (6.5) | 208-3-60 | 9.6 | 90 | 15 | 1.65 | 9 | 5.5 | | None | - | - | - | 33.9 | 39.4 | 40 | 45 |
| | | | | | | | | | E09 | 6.8 | 1 | 18.9 | 57.5 | 63 | 60 | 70 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 80.8 | 86.3 | 90 | 90 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 96.4 | 101.9 | 100 | 110 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 122.4 | 127.9 | 125 | 150 |
| | 230-3-60 | 9.6 | 90 | 15 | 1.65 | 9 | 5.5 | | None | - | - | - | 33.9 | 39.4 | 40 | 45 |
| | | | | | | | | | E09 | 9 | 1 | 21.7 | 61 | 66.5 | 70 | 70 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 88 | 93.5 | 90 | 100 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 106 | 111.5 | 110 | 125 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 136.2 | 141.7 | 150 | 150 |
| | 460-3-60 | 4.9 | 36 | 8 | 1.1 | 4.6 | 2.2 | | None | - | - | - | 17.8 | 20 | 20 | 20 |
| | | | | | | | | | E09 | 9 | 1 | 10.8 | 31.3 | 33.5 | 35 | 35 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 44.9 | 47.1 | 45 | 50 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 53.9 | 56.1 | 60 | 60 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 68.9 | 71.1 | 70 | 80 |
| | 575-3-60 | 3.7 | 29 | 6 | 0.65 | 3.5 | 1.8 | | None | - | - | - | 13.1 | 14.9 | 15 | 15 |
| | | | | | | | | | E09 | 9 | 1 | 8.7 | 24 | 25.8 | 25 | 30 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 34.7 | 36.5 | 35 | 40 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 42 | 43.8 | 45 | 45 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 54 | 55.8 | 60 | 60 |
| 090 (7.5) | 208-3-60 | 12 | 123 | 19 | 1.65 | 13.2 | 5.5 | | None | - | - | - | 43.8 | 49.3 | 50 | 60 |
| | | | | | | | | | E09 | 6.8 | 1 | 18.9 | 67.4 | 72.9 | 70 | 80 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 90.7 | 96.2 | 100 | 100 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 106.3 | 111.8 | 110 | 125 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 132.3 | 137.8 | 150 | 150 |
| | 230-3-60 | 12 | 123 | 19 | 1.65 | 13.2 | 5.5 | | None | - | - | - | 43.8 | 49.3 | 50 | 60 |
| | | | | | | | | | E09 | 9 | 1 | 21.7 | 70.9 | 76.4 | 80 | 80 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 97.9 | 103.4 | 100 | 110 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 115.9 | 121.4 | 125 | 125 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 146.1 | 151.6 | 150 | 175 |
| | 460-3-60 | 6.3 | 60 | 10 | 1.1 | 6.1 | 2.2 | | None | - | - | - | 22.5 | 24.7 | 25 | 30 |
| | | | | | | | | | E09 | 9 | 1 | 10.8 | 36 | 38.2 | 40 | 40 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 49.6 | 51.8 | 50 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 58.6 | 60.8 | 60 | 70 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 73.6 | 75.8 | 80 | 80 |
| | 575-3-60 | 4.4 | 41 | 7 | 0.65 | 4.9 | 1.8 | | None | - | - | - | 16.2 | 18 | 20 | 20 |
| | | | | | | | | | E09 | 9 | 1 | 8.7 | 27.1 | 28.9 | 30 | 30 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 37.8 | 39.6 | 40 | 40 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 45.1 | 46.9 | 50 | 50 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 57.1 | 58.9 | 60 | 60 |

## Table 36: WP078-150 Hi-Static motor - without powered convenience outlet

| Size (ton) | Voltage | Compressors (each) | | | OD fan motors (each) | Supply blower motor | Pwr Exh motor | Pwr Conv outlet | Electric heat option | | | | MCA[1] (A) | MCA[1]w/ Pwr Exh (A) | Max fuse[2]/breaker[3] size (A) | Max fuse[1]/ breaker[3] size w/ Pwr Exh (A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RLA | LRA | MCC | FLA | FLA | FLA | FLA | Model | kW | Stages | Amps | | | | |
| 102 (8.5) | 208-3-60 | 13.5 | 120.4 | 21 | 1.65 | 13.2 | 5.5 | | None | - | - | - | 46.2 | 51.7 | 50 | 60 |
| | | | | | | | | | E09 | 6.8 | 1 | 18.9 | 69.8 | 75.3 | 70 | 80 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 93.1 | 98.6 | 100 | 100 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 108.7 | 114.2 | 110 | 125 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 134.7 | 140.2 | 150 | 150 |
| | 230-3-60 | 13.5 | 120.4 | 21 | 1.65 | 13.2 | 5.5 | | None | - | - | - | 46.2 | 51.7 | 50 | 60 |
| | | | | | | | | | E09 | 9 | 1 | 21.7 | 73.3 | 78.8 | 80 | 80 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 100.3 | 105.8 | 110 | 110 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 118.3 | 123.8 | 125 | 125 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 148.5 | 154 | 150 | 175 |
| | 460-3-60 | 6.4 | 50 | 10 | 1.1 | 6.1 | 2.2 | | None | - | - | - | 22.3 | 24.5 | 25 | 30 |
| | | | | | | | | | E09 | 9 | 1 | 10.8 | 35.8 | 38 | 40 | 40 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 49.4 | 51.6 | 50 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 58.4 | 60.6 | 60 | 70 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 73.4 | 75.6 | 80 | 80 |
| | 575-3-60 | 5.1 | 41 | 8 | 0.65 | 4.9 | 1.8 | | None | - | - | - | 18.6 | 20.4 | 20 | 25 |
| | | | | | | | | | E09 | 9 | 1 | 8.7 | 29.5 | 31.3 | 30 | 35 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 40.2 | 42 | 45 | 45 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 47.5 | 49.3 | 50 | 50 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 59.5 | 61.3 | 60 | 70 |
| 120 (10.0) | 208-3-60 | 16 | 156.4 | 25 | 1.65 | 13.2 | 5.5 | | None | - | - | - | 52.5 | 58 | 60 | 70 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 99.4 | 104.9 | 100 | 110 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 115 | 120.5 | 125 | 125 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 141 | 146.5 | 150 | 150 |
| | | | | | | | | | E54 | 40.6 | 2 | 112.7 | 157.4 | 164.3 | 175 | 175 |
| | 230-3-60 | 16 | 156.4 | 25 | 1.65 | 13.2 | 5.5 | | None | - | - | - | 52.5 | 58 | 60 | 70 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 106.6 | 112.1 | 110 | 125 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 124.6 | 130.1 | 125 | 150 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 154.8 | 160.3 | 175 | 175 |
| | | | | | | | | | E54 | 54 | 2 | 129.9 | 154.8 | 160.3 | 175 | 175 |
| | 460-3-60 | 7.1 | 69 | 11 | 1.1 | 6.1 | 2.2 | | None | - | - | - | 24.3 | 26.5 | 30 | 30 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 51.4 | 53.6 | 60 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 60.4 | 62.6 | 70 | 70 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 75.4 | 77.6 | 80 | 80 |
| | | | | | | | | | E54 | 54 | 2 | 65 | 75.4 | 77.6 | 80 | 90 |
| | 575-3-60 | 6.4 | 47.8 | 10 | 0.65 | 4.9 | 1.8 | | None | - | - | - | 20.6 | 22.4 | 25 | 25 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 42.2 | 44 | 45 | 45 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 49.5 | 51.3 | 50 | 60 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 61.5 | 63.3 | 70 | 70 |
| | | | | | | | | | E54 | 54 | 2 | 52 | 61.5 | 63.3 | 70 | 70 |
| 150 (12.5) | 208-3-60 | 22.4 | 166.2 | 35 | 3.5 | 20.4 | 5.5 | | None | - | - | - | 84.8 | 90.3 | 100 | 110 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 131.7 | 137.2 | 150 | 150 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 147.3 | 152.8 | 150 | 175 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 173.3 | 178.8 | 175 | 200 |
| | | | | | | | | | E54 | 40.6 | 2 | 112.7 | 173.3 | 178.8 | 175 | 200 |
| | 230-3-60 | 22.4 | 166.2 | 35 | 3.5 | 20.4 | 5.5 | | None | - | - | - | 84.8 | 90.3 | 100 | 110 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 138.9 | 144.4 | 150 | 150 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 156.9 | 162.4 | 175 | 175 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 187.1 | 192.6 | 200 | 200 |
| | | | | | | | | | E54 | 54 | 2 | 129.9 | 187.1 | 192.6 | 200 | 200 |
| | 460-3-60 | 8.8 | 74.6 | 14 | 1.6 | 9.9 | 2.2 | | None | - | - | - | 36.4 | 38.6 | 45 | 45 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 63.5 | 65.7 | 70 | 70 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 72.5 | 74.7 | 80 | 80 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 87.5 | 89.7 | 90 | 90 |
| | | | | | | | | | E54 | 54 | 2 | 65 | 87.5 | 89.7 | 90 | 90 |

## Table 37: WP078-150 Standard motor - with powered convenience outlet

| Size (ton) | Voltage | Compressors (each) | | | OD fan motors (each) | Supply blower motor | Pwr Exh motor | Pwr Conv outlet | Electric heat option | | | | MCA [1](A) | MCA[1]w/ Pwr Exh (A) | Max fuse [2]/breaker [3] size (A) | Max fuse[1]/ breaker[3] size w/ Pwr Exh (A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RLA | LRA | MCC | FLA | FLA | FLA | FLA | Model | kW | Stages | Amps | | | | |
| 078 (6.5) | 208-3-60 | 9.6 | 90 | 15 | 1.65 | 9 | 5.5 | 20 | None | - | - | - | 44 | 49.5 | 50 | 50 |
| | | | | | | | | | E09 | 6.8 | 1 | 18.9 | 67.6 | 73.1 | 70 | 80 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 90.9 | 96.4 | 100 | 100 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 106.5 | 112 | 110 | 125 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 132.5 | 138 | 150 | 150 |
| | 230-3-60 | 9.6 | 90 | 15 | 1.65 | 9 | 5.5 | 20 | None | - | - | - | 44 | 49.5 | 50 | 50 |
| | | | | | | | | | E09 | 9 | 1 | 21.7 | 71.1 | 76.6 | 80 | 80 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 98.1 | 103.6 | 100 | 110 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 116.1 | 121.6 | 125 | 125 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 146.3 | 151.8 | 150 | 175 |
| | 460-3-60 | 4.9 | 36 | 8 | 1.1 | 4.6 | 2.2 | 20 | None | - | - | - | 22.9 | 25.1 | 25 | 30 |
| | | | | | | | | | E09 | 9 | 1 | 10.8 | 36.4 | 38.6 | 40 | 40 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 50 | 52.2 | 50 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 59 | 61.2 | 60 | 70 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 74 | 76.2 | 80 | 80 |
| | 575-3-60 | 3.7 | 29 | 6 | 0.65 | 3.5 | 1.8 | 20 | None | - | - | - | 17.2 | 19 | 20 | 20 |
| | | | | | | | | | E09 | 9 | 1 | 8.7 | 28.1 | 29.9 | 30 | 30 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 38.8 | 40.6 | 40 | 45 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 46.1 | 47.9 | 50 | 50 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 58.1 | 59.9 | 60 | 60 |
| 090 (7.5) | 208-3-60 | 12 | 123 | 19 | 1.65 | 9 | 5.5 | 20 | None | - | - | - | 49.3 | 54.8 | 60 | 60 |
| | | | | | | | | | E09 | 6.8 | 1 | 18.9 | 72.9 | 78.4 | 80 | 80 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 96.2 | 101.7 | 100 | 110 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 111.8 | 117.3 | 125 | 125 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 137.8 | 143.3 | 150 | 150 |
| | 230-3-60 | 12 | 123 | 19 | 1.65 | 9 | 5.5 | 20 | None | - | - | - | 49.3 | 54.8 | 60 | 60 |
| | | | | | | | | | E09 | 9 | 1 | 21.7 | 76.4 | 81.9 | 80 | 90 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 103.4 | 108.9 | 110 | 110 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 121.4 | 126.9 | 125 | 150 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 151.6 | 157.1 | 175 | 175 |
| | 460-3-60 | 6.3 | 60 | 10 | 1.1 | 4.6 | 2.2 | 20 | None | - | - | - | 26 | 28.2 | 30 | 30 |
| | | | | | | | | | E09 | 9 | 1 | 10.8 | 39.5 | 41.7 | 40 | 45 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 53.1 | 55.3 | 60 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 62.1 | 64.3 | 70 | 70 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 77.1 | 79.3 | 80 | 80 |
| | 575-3-60 | 4.4 | 41 | 7 | 0.65 | 3.5 | 1.8 | 20 | None | - | - | - | 18.7 | 20.5 | 20 | 25 |
| | | | | | | | | | E09 | 9 | 1 | 8.7 | 29.6 | 31.4 | 30 | 35 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 40.3 | 42.1 | 45 | 45 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 47.6 | 49.4 | 50 | 50 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 59.6 | 61.4 | 60 | 70 |

## Table 37: WP078-150 Standard motor - with powered convenience outlet

| Size (ton) | Voltage | Compressors (each) | | | OD fan motors (each) | Supply blower motor | Pwr Exh motor | Pwr Conv outlet | Electric heat option | | | | MCA [1](A) | MCA[1]w/ Pwr Exh (A) | Max fuse [2]/breaker [3] size (A) | Max fuse[1]/ breaker[3] size w/ Pwr Exh (A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RLA | LRA | MCC | FLA | FLA | FLA | FLA | Model | kW | Stages | Amps | | | | |
| 102 (8.5) | 208-3-60 | 13.5 | 120.4 | 21 | 1.65 | 9 | 5.5 | 20 | None | - | - | - | 52 | 57.5 | 60 | 70 |
| | | | | | | | | | E09 | 6.8 | 1 | 18.9 | 75.6 | 81.1 | 80 | 90 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 98.9 | 104.4 | 100 | 110 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 114.5 | 120 | 125 | 125 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 140.5 | 146 | 150 | 150 |
| | 230-3-60 | 13.5 | 120.4 | 21 | 1.65 | 9 | 5.5 | 20 | None | - | - | - | 52 | 57.5 | 60 | 70 |
| | | | | | | | | | E09 | 9 | 1 | 21.7 | 79.1 | 84.6 | 80 | 90 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 106.1 | 111.6 | 110 | 125 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 124.1 | 129.6 | 125 | 150 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 154.3 | 159.8 | 175 | 175 |
| | 460-3-60 | 6.4 | 50 | 10 | 1.1 | 4.6 | 2.2 | 20 | None | - | - | - | 25.8 | 28 | 30 | 30 |
| | | | | | | | | | E09 | 9 | 1 | 10.8 | 39.3 | 41.5 | 40 | 45 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 52.9 | 55.1 | 60 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 61.9 | 64.1 | 70 | 70 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 76.9 | 79.1 | 80 | 80 |
| | 575-3-60 | 5.1 | 41 | 8 | 0.65 | 3.5 | 1.8 | 20 | None | - | - | - | 21.2 | 23 | 25 | 25 |
| | | | | | | | | | E09 | 9 | 1 | 8.7 | 32.1 | 33.9 | 35 | 35 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 42.8 | 44.6 | 45 | 45 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 50.1 | 51.9 | 60 | 60 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 62.1 | 63.9 | 70 | 70 |
| 120 (10.0) | 208-3-60 | 16 | 156.4 | 25 | 1.65 | 9 | 5.5 | 20 | None | - | - | - | 58.3 | 63.8 | 70 | 70 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 105.2 | 110.7 | 110 | 125 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 120.8 | 126.3 | 125 | 150 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 146.8 | 152.3 | 150 | 175 |
| | | | | | | | | | E54 | 40.6 | 2 | 112.7 | 164.6 | 171.5 | 175 | 175 |
| | 230-3-60 | 16 | 156.4 | 25 | 1.65 | 9 | 5.5 | 20 | None | - | - | - | 58.3 | 63.8 | 70 | 70 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 112.4 | 117.9 | 125 | 125 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 130.4 | 135.9 | 150 | 150 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 160.6 | 166.1 | 175 | 175 |
| | | | | | | | | | E54 | 54 | 2 | 129.9 | 160.6 | 166.1 | 175 | 175 |
| | 460-3-60 | 7.1 | 69 | 11 | 1.1 | 4.6 | 2.2 | 20 | None | - | - | - | 27.8 | 30 | 30 | 35 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 54.9 | 57.1 | 60 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 63.9 | 66.1 | 70 | 70 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 78.9 | 81.1 | 80 | 90 |
| | | | | | | | | | E54 | 54 | 2 | 65 | 78.9 | 81.1 | 90 | 90 |
| | 575-3-60 | 6.4 | 47.8 | 10 | 0.65 | 3.5 | 1.8 | 20 | None | - | - | - | 23.2 | 25 | 25 | 30 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 44.8 | 46.6 | 45 | 50 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 52.1 | 53.9 | 60 | 60 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 64.1 | 65.9 | 70 | 70 |
| | | | | | | | | | E54 | 54 | 2 | 52 | 64.1 | 65.9 | 70 | 70 |
| 150 (12.5) | 208-3-60 | 22.4 | 166.2 | 35 | 3.5 | 13.2 | 5.5 | 20 | None | - | - | - | 87.6 | 93.1 | 110 | 110 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 134.5 | 140 | 150 | 150 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 150.1 | 155.6 | 175 | 175 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 176.1 | 181.6 | 200 | 200 |
| | | | | | | | | | E54 | 40.6 | 2 | 112.7 | 176.1 | 181.6 | 200 | 200 |
| | 230-3-60 | 22.4 | 166.2 | 35 | 3.5 | 13.2 | 5.5 | 20 | None | - | - | - | 87.6 | 93.1 | 110 | 110 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 141.7 | 147.2 | 150 | 150 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 159.7 | 165.2 | 175 | 175 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 189.9 | 195.4 | 200 | 200 |
| | | | | | | | | | E54 | 54 | 2 | 129.9 | 189.9 | 195.4 | 200 | 200 |
| | 460-3-60 | 8.8 | 74.6 | 14 | 1.6 | 6.1 | 2.2 | 20 | None | - | - | - | 37.3 | 39.5 | 45 | 45 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 64.4 | 66.6 | 70 | 70 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 73.4 | 75.6 | 80 | 80 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 88.4 | 90.6 | 90 | 100 |
| | | | | | | | | | E54 | 54 | 2 | 65 | 88.4 | 90.6 | 90 | 100 |

## Table 38: WP078-150 Hi-Static motor - with powered convenience outlet

| Size (ton) | Voltage | Compressors (each) | | | OD Fan Motors (each) | Supply Blower Motor | Pwr Exh Motor | Pwr Conv Outlet | Electric Heat Option | | | | MCA [1](A) | MCA[1]w/ Pwr Exh (A) | Max Fuse[2]/ Breaker[3] Size (A) | Max Fuse[2]/ Breaker[3] Size w/ Pwr Exh (A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RLA | LRA | MCC | FLA | FLA | FLA | FLA | Model | kW | Stages | Amps | | | | |
| 078 (6.5) | 208-3-60 | 9.6 | 90 | 15 | 1.65 | 9 | 5.5 | 20 | None | - | - | - | 44 | 49.5 | 50 | 50 |
| | | | | | | | | | E09 | 6.8 | 1 | 18.9 | 67.6 | 73.1 | 70 | 80 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 90.9 | 96.4 | 100 | 100 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 106.5 | 112 | 110 | 125 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 132.5 | 138 | 150 | 150 |
| | 230-3-60 | 9.6 | 90 | 15 | 1.65 | 9 | 5.5 | 20 | None | - | - | - | 44 | 49.5 | 50 | 50 |
| | | | | | | | | | E09 | 9 | 1 | 21.7 | 71.1 | 76.6 | 80 | 80 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 98.1 | 103.6 | 100 | 110 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 116.1 | 121.6 | 125 | 125 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 146.3 | 151.8 | 150 | 175 |
| | 460-3-60 | 4.9 | 36 | 8 | 1.1 | 4.6 | 2.2 | 20 | None | - | - | - | 22.9 | 25.1 | 25 | 30 |
| | | | | | | | | | E09 | 9 | 1 | 10.8 | 36.4 | 38.6 | 40 | 40 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 50 | 52.2 | 50 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 59 | 61.2 | 60 | 70 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 74 | 76.2 | 80 | 80 |
| | 575-3-60 | 3.7 | 29 | 6 | 0.65 | 3.5 | 1.8 | 20 | None | - | - | - | 17.2 | 19 | 20 | 20 |
| | | | | | | | | | E09 | 9 | 1 | 8.7 | 28.1 | 29.9 | 30 | 30 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 38.8 | 40.6 | 40 | 45 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 46.1 | 47.9 | 50 | 50 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 58.1 | 59.9 | 60 | 60 |
| 090 (7.5) | 208-3-60 | 12 | 123 | 19 | 1.65 | 13.2 | 5.5 | 20 | None | - | - | - | 53.8 | 59.3 | 60 | 70 |
| | | | | | | | | | E09 | 6.8 | 1 | 18.9 | 77.4 | 82.9 | 80 | 90 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 100.7 | 106.2 | 110 | 110 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 116.3 | 121.8 | 125 | 125 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 142.3 | 147.8 | 150 | 150 |
| | 230-3-60 | 12 | 123 | 19 | 1.65 | 13.2 | 5.5 | 20 | None | - | - | - | 53.8 | 59.3 | 60 | 70 |
| | | | | | | | | | E09 | 9 | 1 | 21.7 | 80.9 | 86.4 | 90 | 90 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 107.9 | 113.4 | 110 | 125 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 125.9 | 131.4 | 150 | 150 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 156.1 | 161.6 | 175 | 175 |
| | 460-3-60 | 6.3 | 60 | 10 | 1.1 | 6.1 | 2.2 | 20 | None | - | - | - | 27.5 | 29.7 | 30 | 35 |
| | | | | | | | | | E09 | 9 | 1 | 10.8 | 41 | 43.2 | 45 | 45 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 54.6 | 56.8 | 60 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 63.6 | 65.8 | 70 | 70 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 78.6 | 80.8 | 80 | 90 |
| | 575-3-60 | 4.4 | 41 | 7 | 0.65 | 4.9 | 1.8 | 20 | None | - | - | - | 20.2 | 22 | 25 | 25 |
| | | | | | | | | | E09 | 9 | 1 | 8.7 | 31.1 | 32.9 | 35 | 35 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 41.8 | 43.6 | 45 | 45 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 49.1 | 50.9 | 50 | 60 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 61.1 | 62.9 | 70 | 70 |

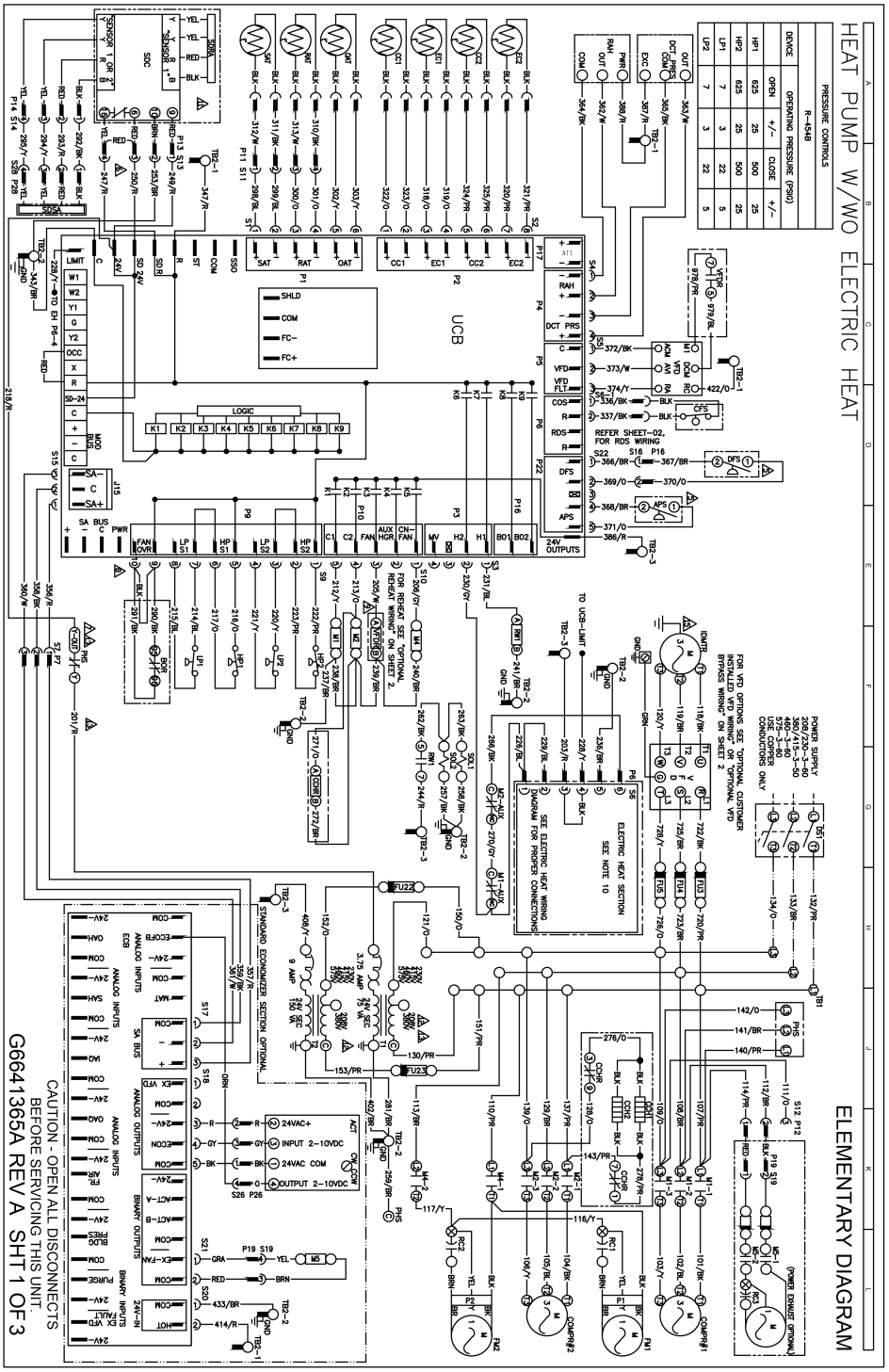
## Table 38: WP078-150 Hi-Static motor - with powered convenience outlet

| Size (ton) | Voltage | Compressors (each) | | | OD Fan Motors (each) | Supply Blower Motor | Pwr Exh Motor | Pwr Conv Outlet | Electric Heat Option | | | | MCA [1](A) | MCA[1]w/ Pwr Exh (A) | Max Fuse[2]/ Breaker[3] Size (A) | Max Fuse[2]/ Breaker[3] Size w/ Pwr Exh (A) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RLA | LRA | MCC | FLA | FLA | FLA | FLA | Model | kW | Stages | Amps | | | | |
| 102 (8.5) | 208-3-60 | 13.5 | 120.4 | 21 | 1.65 | 13.2 | 5.5 | 20 | None | - | - | - | 56.2 | 61.7 | 60 | 70 |
| | | | | | | | | | E09 | 6.8 | 1 | 18.9 | 79.8 | 85.3 | 80 | 90 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 103.1 | 108.6 | 110 | 110 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 118.7 | 124.2 | 125 | 125 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 144.7 | 150.2 | 150 | 175 |
| | 230-3-60 | 13.5 | 120.4 | 21 | 1.65 | 13.2 | 5.5 | 20 | None | - | - | - | 56.2 | 61.7 | 60 | 70 |
| | | | | | | | | | E09 | 9 | 1 | 21.7 | 83.3 | 88.8 | 90 | 90 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 110.3 | 115.8 | 125 | 125 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 128.3 | 133.8 | 150 | 150 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 158.5 | 164 | 175 | 175 |
| | 460-3-60 | 6.4 | 50 | 10 | 1.1 | 6.1 | 2.2 | 20 | None | - | - | - | 27.3 | 29.5 | 30 | 35 |
| | | | | | | | | | E09 | 9 | 1 | 10.8 | 40.8 | 43 | 45 | 45 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 54.4 | 56.6 | 60 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 63.4 | 65.6 | 70 | 70 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 78.4 | 80.6 | 80 | 90 |
| | 575-3-60 | 5.1 | 41 | 8 | 0.65 | 4.9 | 1.8 | 20 | None | - | - | - | 22.6 | 24.4 | 25 | 30 |
| | | | | | | | | | E09 | 9 | 1 | 8.7 | 33.5 | 35.3 | 35 | 40 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 44.2 | 46 | 45 | 50 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 51.5 | 53.3 | 60 | 60 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 63.5 | 65.3 | 70 | 70 |
| 120 (10.0) | 208-3-60 | 16 | 156.4 | 25 | 1.65 | 13.2 | 5.5 | 20 | None | - | - | - | 62.5 | 68 | 70 | 80 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 109.4 | 114.9 | 110 | 125 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 125 | 130.5 | 125 | 150 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 151 | 156.5 | 175 | 175 |
| | | | | | | | | | E54 | 40.6 | 2 | 112.7 | 169.9 | 176.8 | 175 | 200 |
| | 230-3-60 | 16 | 156.4 | 25 | 1.65 | 13.2 | 5.5 | 20 | None | - | - | - | 62.5 | 68 | 70 | 80 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 116.6 | 122.1 | 125 | 125 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 134.6 | 140.1 | 150 | 150 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 164.8 | 170.3 | 175 | 175 |
| | | | | | | | | | E54 | 54 | 2 | 129.9 | 164.8 | 170.3 | 175 | 175 |
| | 460-3-60 | 7.1 | 69 | 11 | 1.1 | 6.1 | 2.2 | 20 | None | - | - | - | 29.3 | 31.5 | 35 | 35 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 56.4 | 58.6 | 60 | 60 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 65.4 | 67.6 | 70 | 70 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 80.4 | 82.6 | 90 | 90 |
| | | | | | | | | | E54 | 54 | 2 | 65 | 80.4 | 82.6 | 90 | 90 |
| | 575-3-60 | 6.4 | 47.8 | 10 | 0.65 | 4.9 | 1.8 | 20 | None | - | - | - | 24.6 | 26.4 | 30 | 30 |
| | | | | | | | | | E18 | 18 | 2 | 17.3 | 46.2 | 48 | 50 | 50 |
| | | | | | | | | | E24 | 24 | 2 | 23.1 | 53.5 | 55.3 | 60 | 60 |
| | | | | | | | | | E36 | 34 | 2 | 32.7 | 65.5 | 67.3 | 70 | 70 |
| | | | | | | | | | E54 | 54 | 2 | 52 | 65.5 | 67.3 | 70 | 70 |
| 150 (12.5) | 208-3-60 | 22.4 | 166.2 | 35 | 3.5 | 20.4 | 5.5 | 20 | None | - | - | - | 94.8 | 100.3 | 110 | 110 |
| | | | | | | | | | E18 | 13.5 | 2 | 37.5 | 141.7 | 147.2 | 150 | 150 |
| | | | | | | | | | E24 | 18 | 2 | 50 | 157.3 | 162.8 | 175 | 175 |
| | | | | | | | | | E36 | 25.5 | 2 | 70.8 | 183.3 | 188.8 | 200 | 200 |
| | | | | | | | | | E54 | 40.6 | 2 | 112.7 | 183.3 | 188.8 | 200 | 200 |
| | 230-3-60 | 22.4 | 166.2 | 35 | 3.5 | 20.4 | 5.5 | 20 | None | - | - | - | 94.8 | 100.3 | 110 | 110 |
| | | | | | | | | | E18 | 18 | 2 | 43.3 | 148.9 | 154.4 | 150 | 175 |
| | | | | | | | | | E24 | 24 | 2 | 57.7 | 166.9 | 172.4 | 175 | 175 |
| | | | | | | | | | E36 | 34 | 2 | 81.8 | 197.1 | 202.6 | 200 | 225 |
| | | | | | | | | | E54 | 54 | 2 | 129.9 | 197.1 | 202.6 | 200 | 225 |
| | 460-3-60 | 8.8 | 74.6 | 14 | 1.6 | 9.9 | 2.2 | 20 | None | - | - | - | 41.4 | 43.6 | 50 | 50 |
| | | | | | | | | | E18 | 18 | 2 | 21.7 | 68.5 | 70.7 | 70 | 80 |
| | | | | | | | | | E24 | 24 | 2 | 28.9 | 77.5 | 79.7 | 80 | 80 |
| | | | | | | | | | E36 | 34 | 2 | 40.9 | 92.5 | 94.7 | 100 | 100 |
| | | | | | | | | | E54 | 54 | 2 | 65 | 92.5 | 94.7 | 100 | 100 |

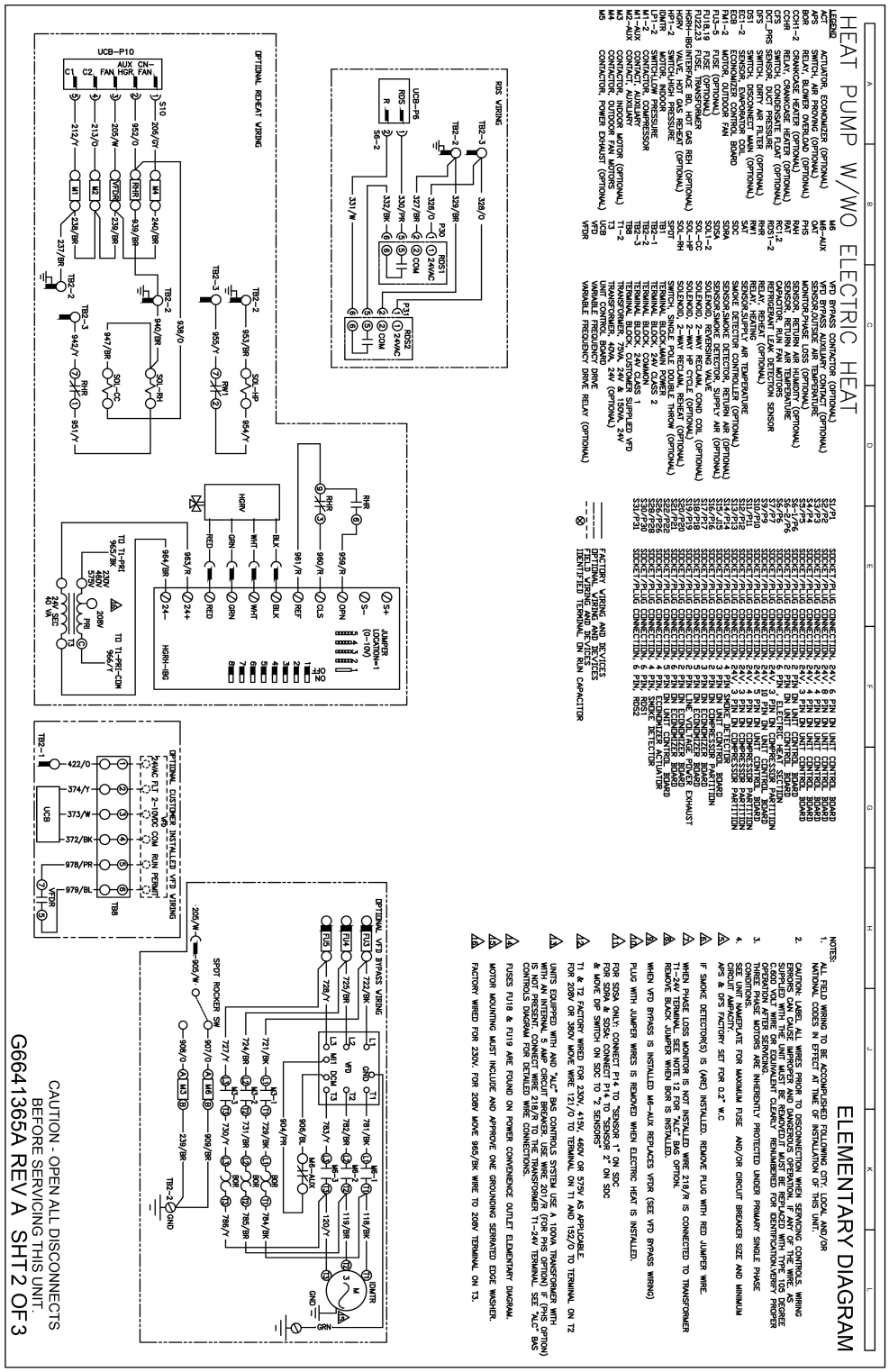
# Typical wiring diagrams

## WP078-150 typical wiring diagrams

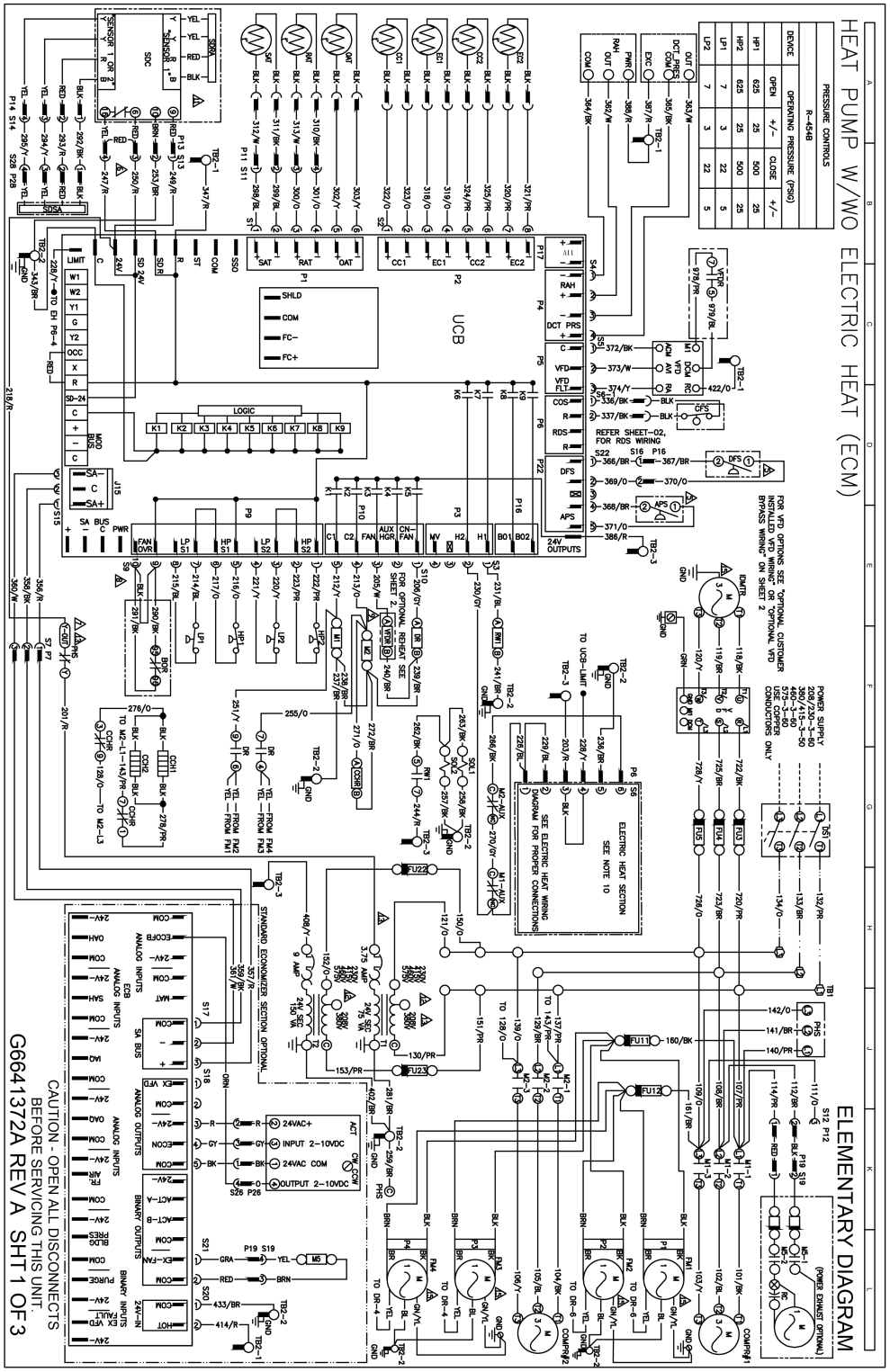
**Figure 3: Typical WP078-120 heat pump with/without electric heat wiring diagram**



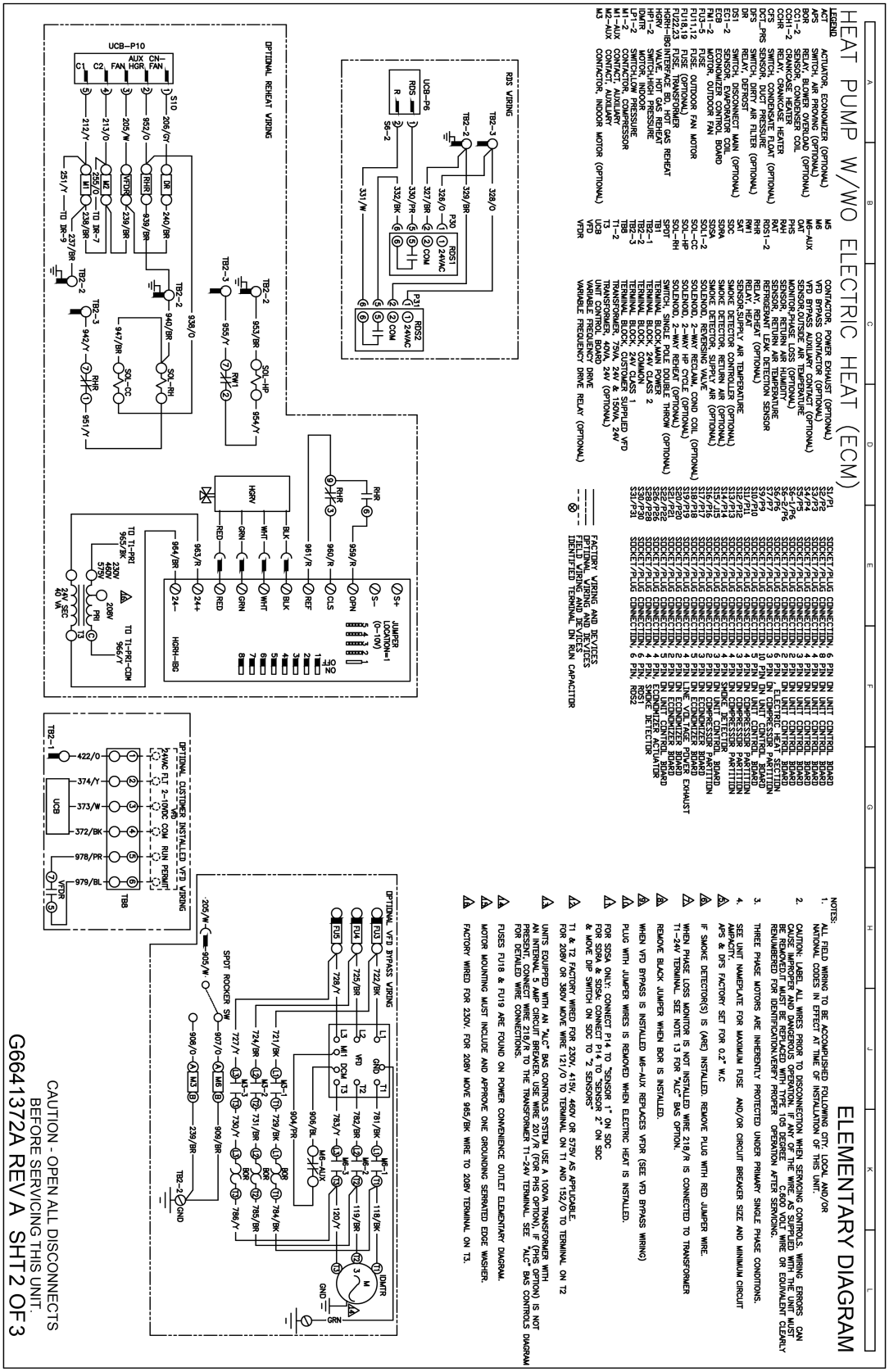
## Figure 4: Typical WP078-120 heat pump with/without electric heat unit (options)



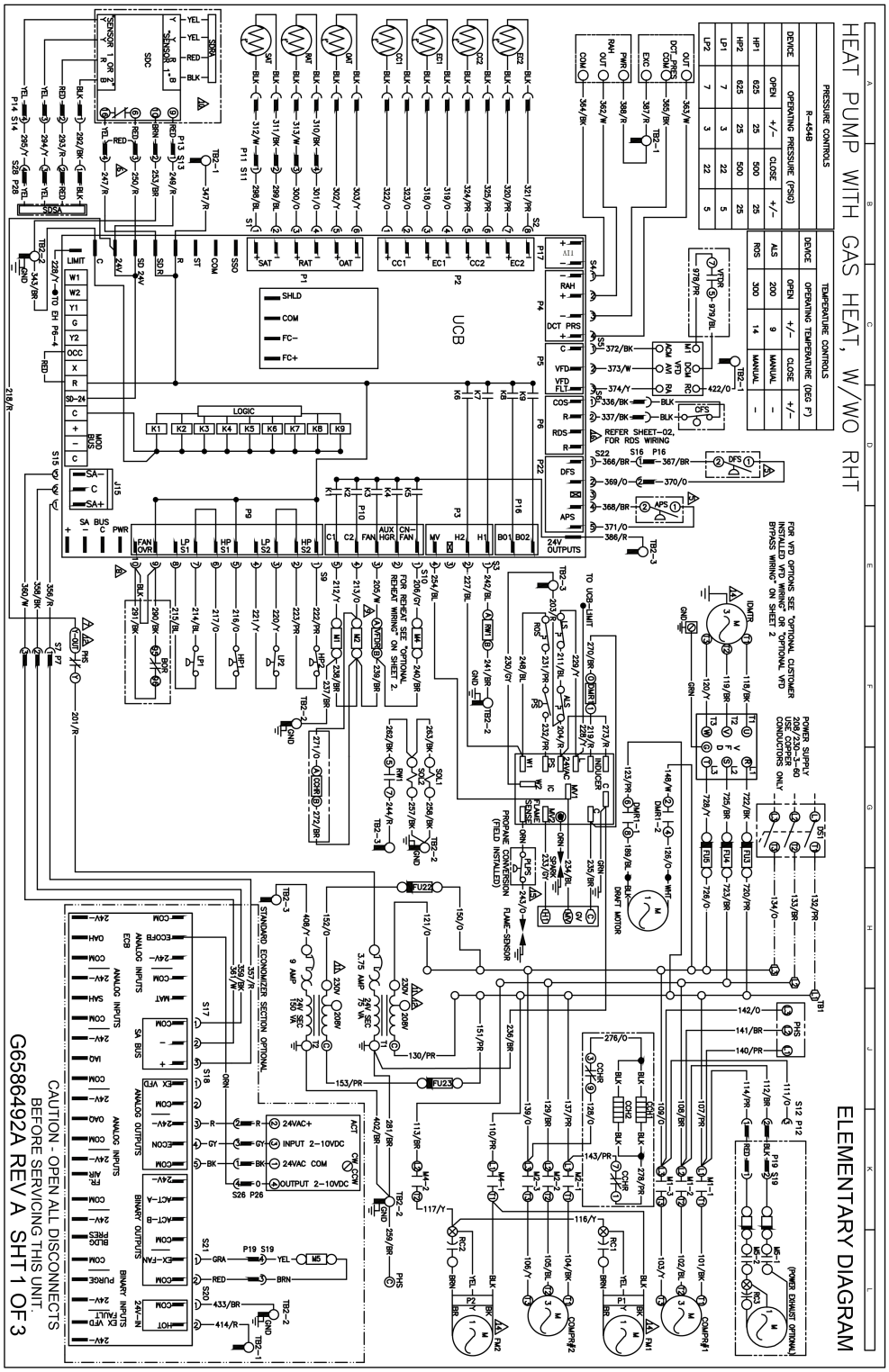
## Figure 5: Typical WP150 heat pump with/without electric heat wiring diagram



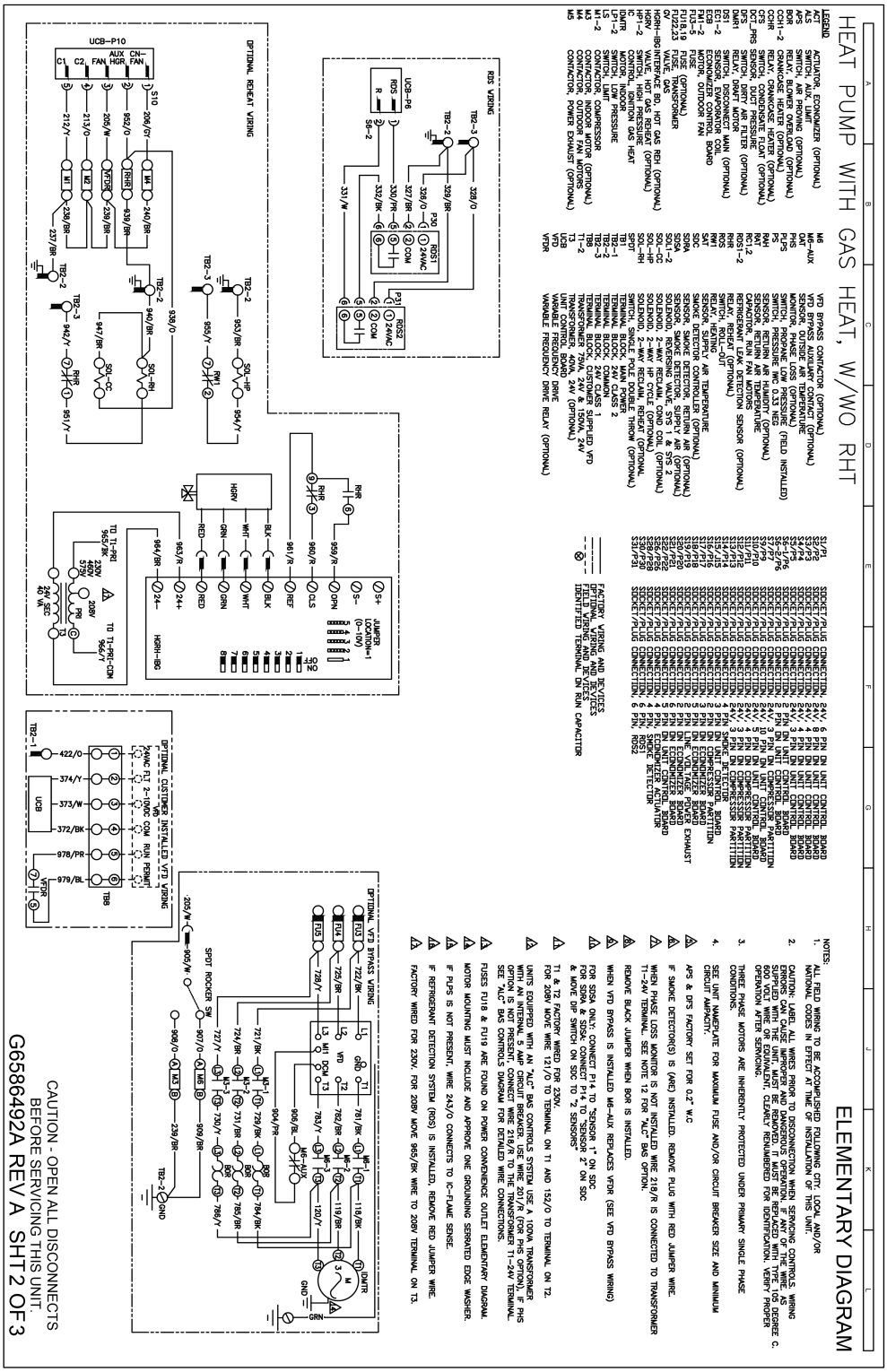
## Figure 6: Typical WP150 heat pump with/without electric heat unit (options)



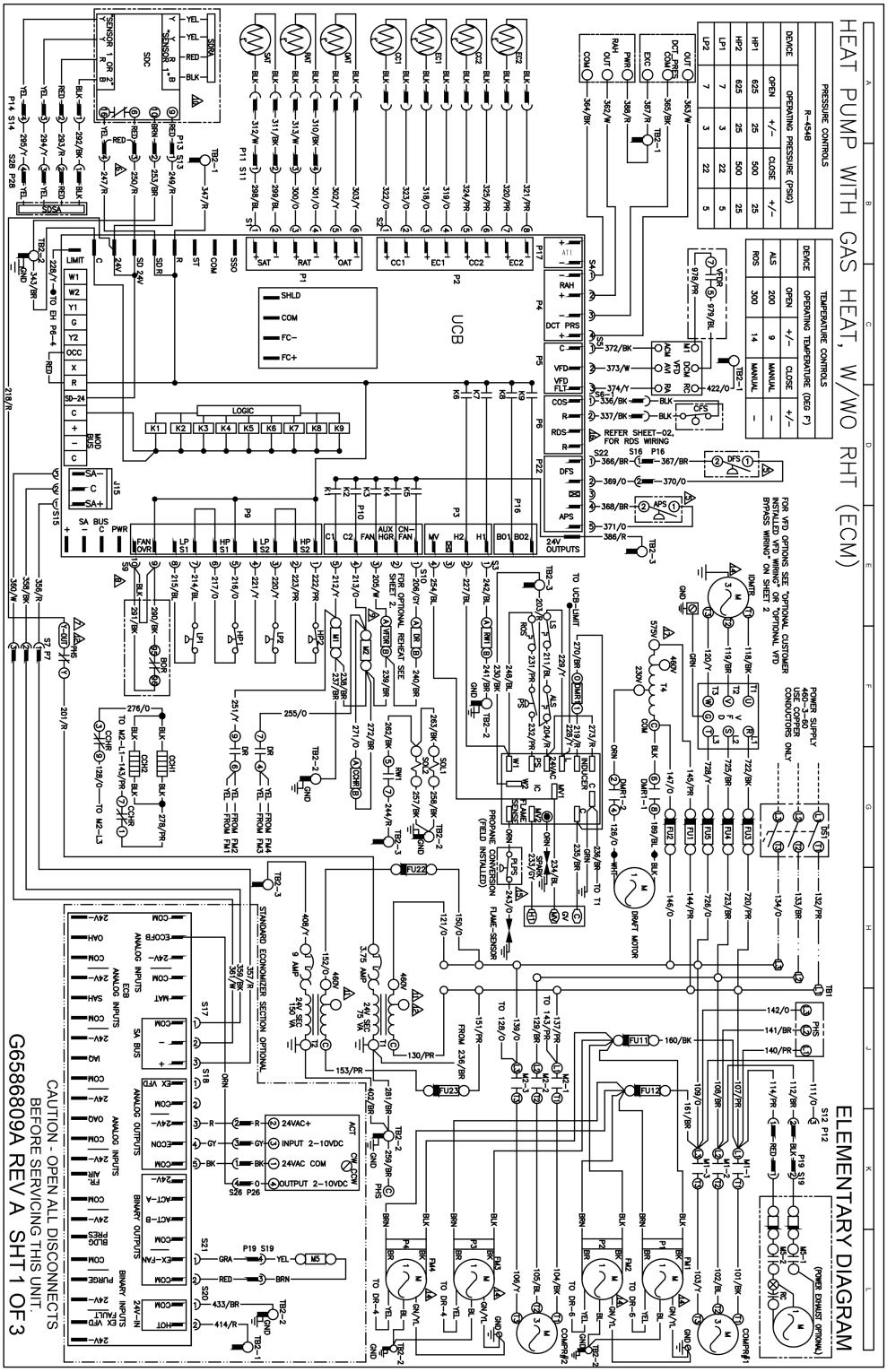
## Figure 7: Typical WP078-120 heat pump with gas heat, with/without reheat wiring diagram



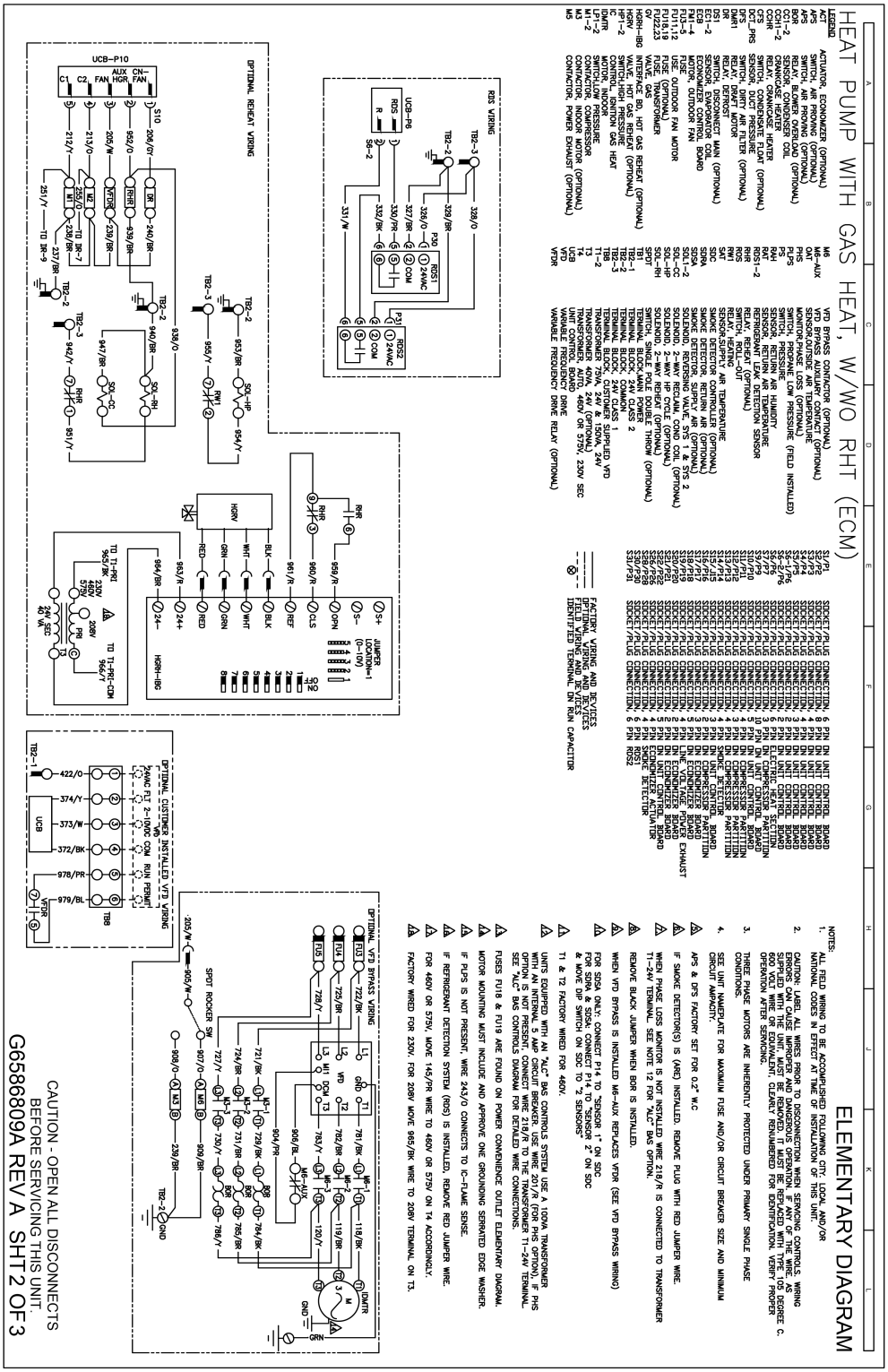
## Figure 8: Typical WP078-120 heat pump with gas heat, with/without reheat (options)



## Figure 9: Typical WP150 heat pump with gas heat, with/without reheat wiring diagram

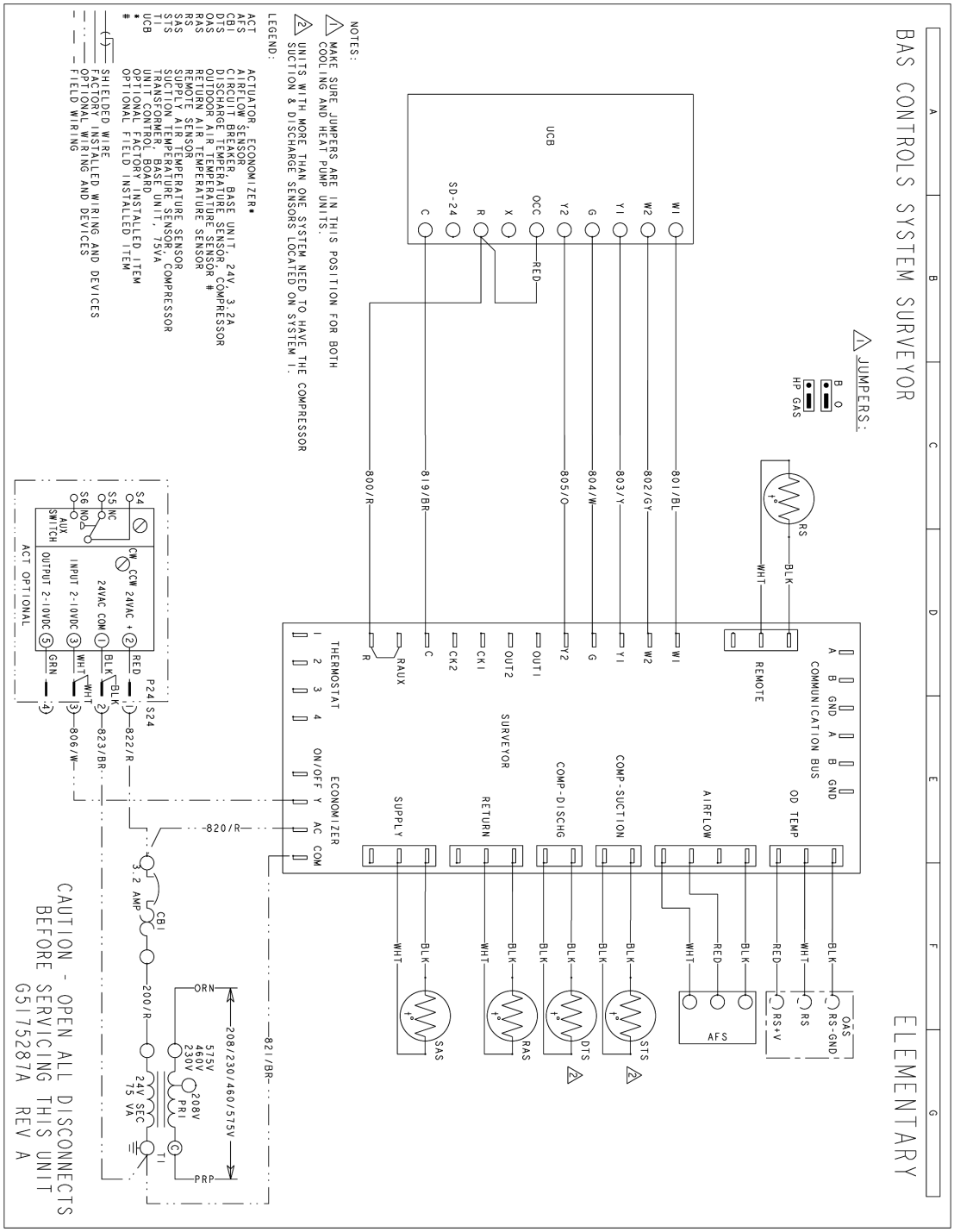


## Figure 10: Typical WP150 heat pump with gas heat, with/without reheat (options)



# BAS controls typical wiring diagrams

**Figure 11: Typical SURVEYOR BAS control wiring diagram**



# Weights and dimensions

## WP078-150 unit weights

**Figure 12: Unit 4 point load weight**

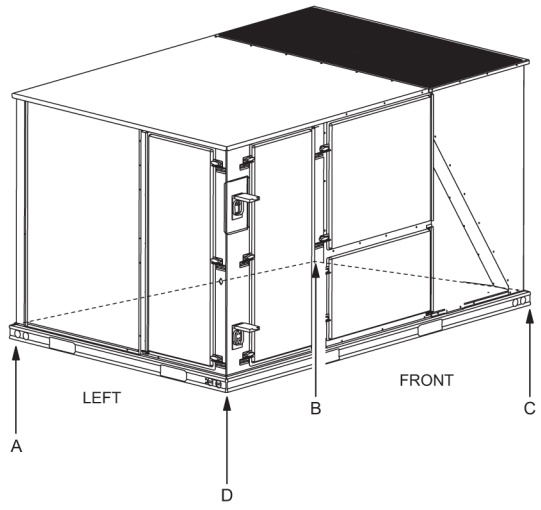



**Figure 13: Unit 6 point load weight**

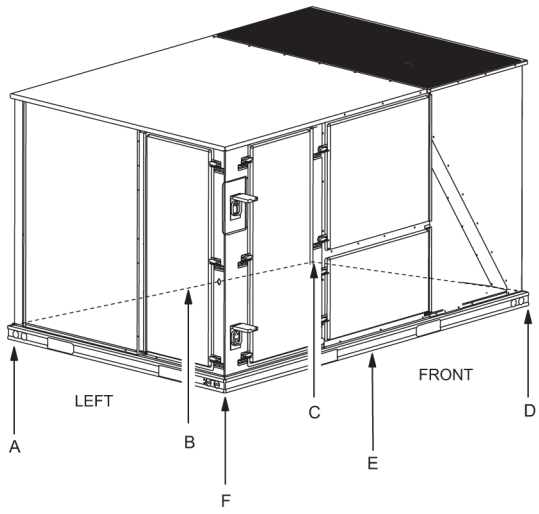



**Figure 14: Center of Gravity**

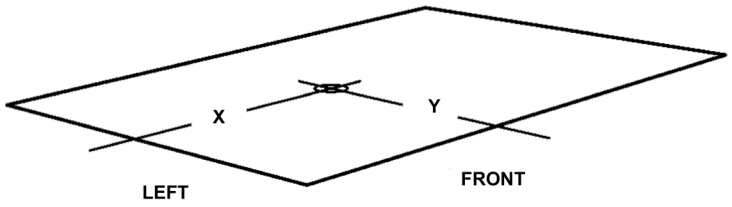



**Table 39: WP078-150 standard unit weights**

| Size (ton) | Model | Weight (lb) | | Center of gravity | | 4 point load location (lb) | | | | 6 point load location (lb) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Shipping | Operating | X | Y | A | B | C | D | A | B | C | D | E | F |
| 078 (6.5) | WP | 1085 | 1080 | 38 | 25 | 262 | 195 | 266 | 357 | 184 | 150 | 124 | 169 | 204 | 250 |
| 090 (7.5) | WP | 1095 | 1090 | 38 | 23 | 243 | 181 | 284 | 381 | 171 | 139 | 115 | 181 | 217 | 267 |
| 102 (8.5) | WP | 1142 | 1137 | 38 | 25.5 | 282 | 210 | 276 | 370 | 197 | 161 | 133 | 175 | 211 | 259 |
| 120 (10.0) | WP | 1140 | 1135 | 38 | 25.5 | 281 | 209 | 275 | 369 | 197 | 160 | 133 | 175 | 211 | 259 |
| 150 (12.5) | WP | 1408 | 1403 | 51 | 25.5 | 259 | 347 | 456 | 340 | 165 | 198 | 244 | 320 | 260 | 216 |

**Table 40: WP078-150 with MagnaDry option unit weights**

| Size (ton) | Model | Weight (lb) | | Center of gravity | | 4 point load location (lb) | | | | 6 point load location (lb) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Shipping | Operating | X | Y | A | B | C | D | A | B | C | D | E | F |
| 078 (6.5) | WP | 1105 | 1100 | 40.6 | 24 | 243 | 204 | 298 | 355 | 167 | 148 | 132 | 193 | 216 | 244 |
| 090 (7.5) | WP | 1145 | 1140 | 39.5 | 24 | 258 | 206 | 300 | 376 | 179 | 153 | 132 | 193 | 223 | 261 |
| 102 (8.5) | WP | 1145 | 1140 | 39.3 | 23.5 | 254 | 201 | 303 | 383 | 176 | 150 | 129 | 194 | 226 | 266 |
| 120 (10) | WP | 1165 | 1160 | 39.75 | 24 | 261 | 211 | 307 | 381 | 180 | 156 | 136 | 198 | 227 | 263 |
| 150 (12.5) | WP | 1475 | 1470 | 48 | 24.5 | 365 | 245 | 345 | 514 | 261 | 196 | 153 | 216 | 277 | 367 |

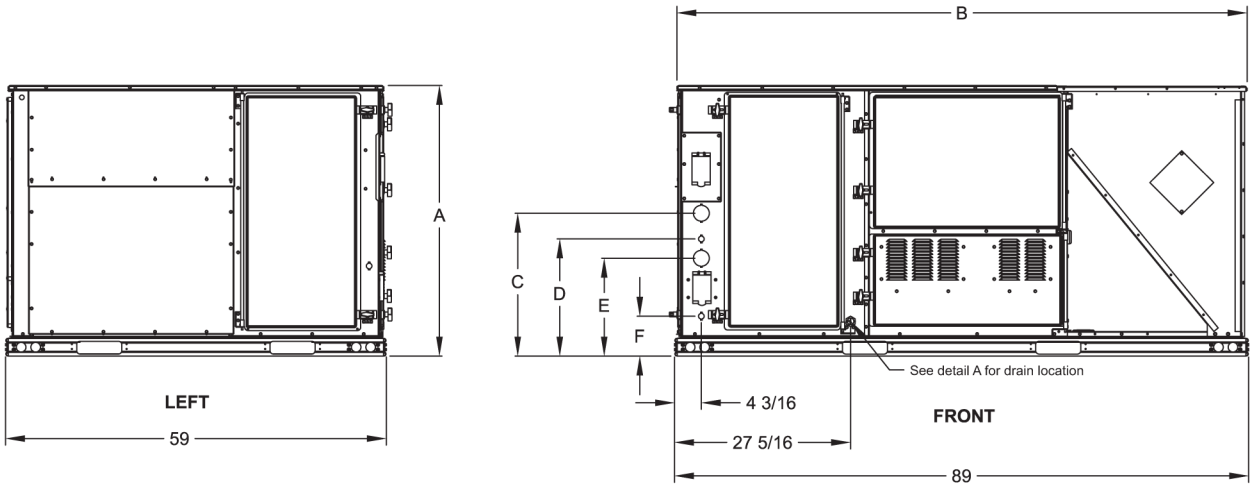
### Table 41: WP078-150 unit accessory weights

| Unit accessory | Weight (lb) | |
|---|---|---|
| | Shipping | Operating |
| Economizer | 90 | 85 |
| Power exhaust | 40 | 35 |
| Electric heat | 49 | 49 |
| Gas heat | 110 | 110 |

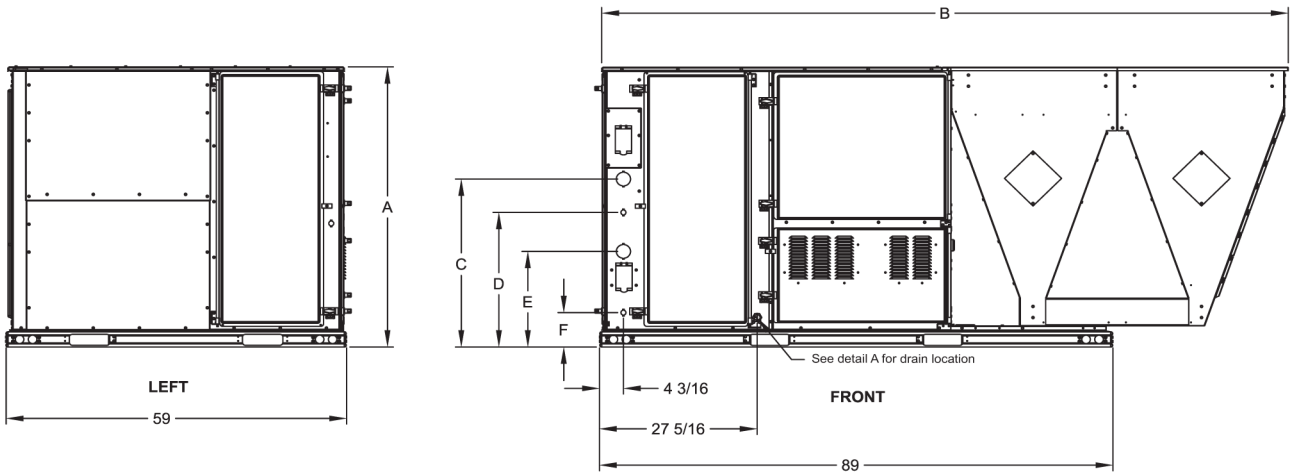
**Note:**
- Electric heat weight given is for the maximum heater size available 54kW.
- Gas heat weight given is for the maximum number of tube heat exchangers available (8 tube).

# WP078-150 unit dimensions

### Figure 15: WP078-120



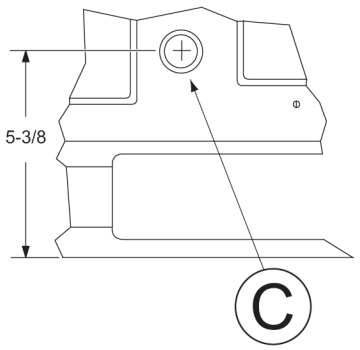

### Figure 16: WP150




### Table 42: WP078-150 unit physical dimensions

| Unit model number | Dimension (in.) | | | | | |
|---|---|---|---|---|---|---|
| | A | B | C | D | E | F |
| 078 | 50 3/4 | 89 | 30 3/16 | 24 3/16 | 17 3/16 | 6 3/16 |
| 090 | 50 3/4 | 89 | 30 3/16 | 24 3/16 | 17 3/16 | 6 3/16 |
| 102 | 50 3/4 | 89 | 30 3/16 | 24 3/16 | 17 3/16 | 6 3/16 |
| 120 | 50 3/4 | 89 | 30 3/16 | 24 3/16 | 17 3/16 | 6 3/16 |
| 150 | 50 3/4 | 119 1/2 | 30 3/16 | 24 3/16 | 17 3/16 | 6 3/16 |

## Figure 17: Detail A




## Table 43: WP078-150 unit clearances

| Direction | Distance (in.) | Direction | Distance (in.) |
|---|---|---|---|
| Top [1] | 72 | Right | 12 |
| Front | 48 | Left | 36 |
| Rear | 36 | Bottom [2] | 0 |

1 Units must be installed outdoors. Make sure that overhanging structures or shrubs do not obscure the condenser air discharge outlet.
2 Units may be installed on combustible floors made from wood or class A, B or C roof covering materials.

## Figure 18: WP078-150 unit bottom duct openings

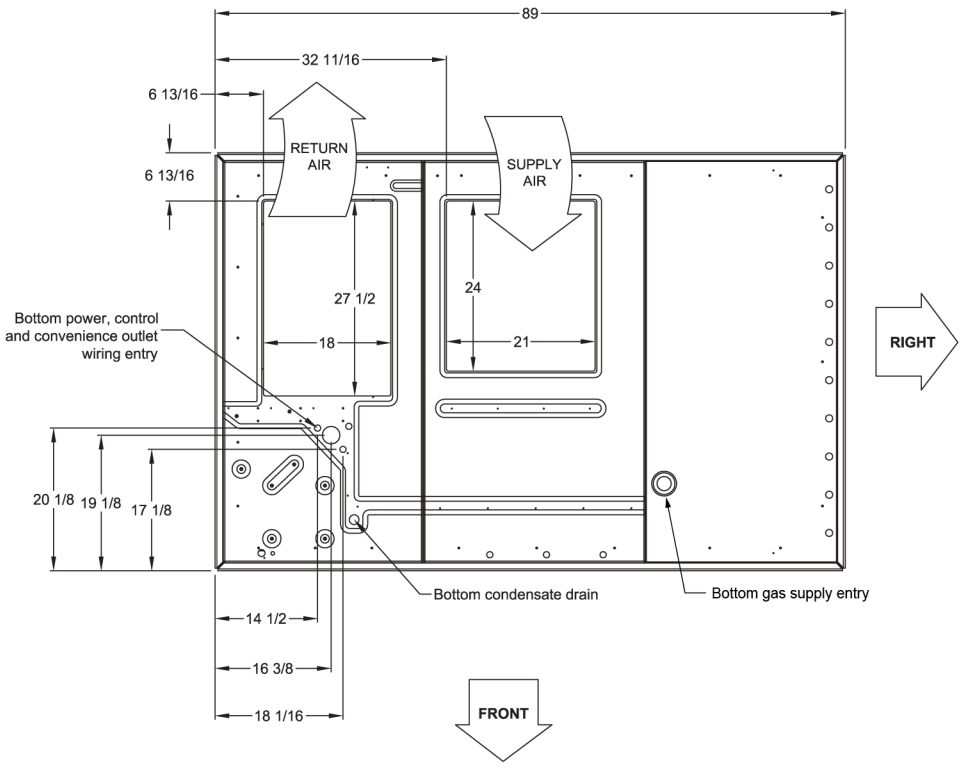


**Figure 19: WP078-150 unit electrical entry**

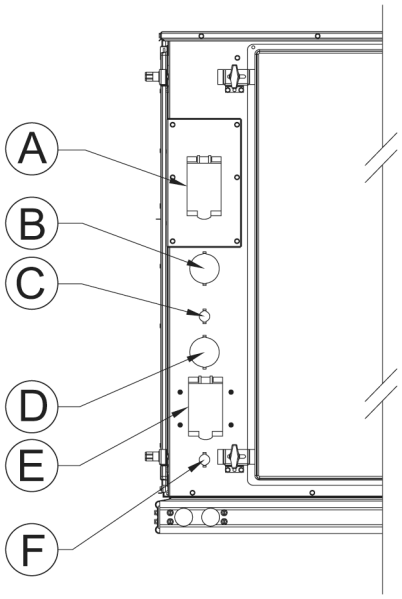
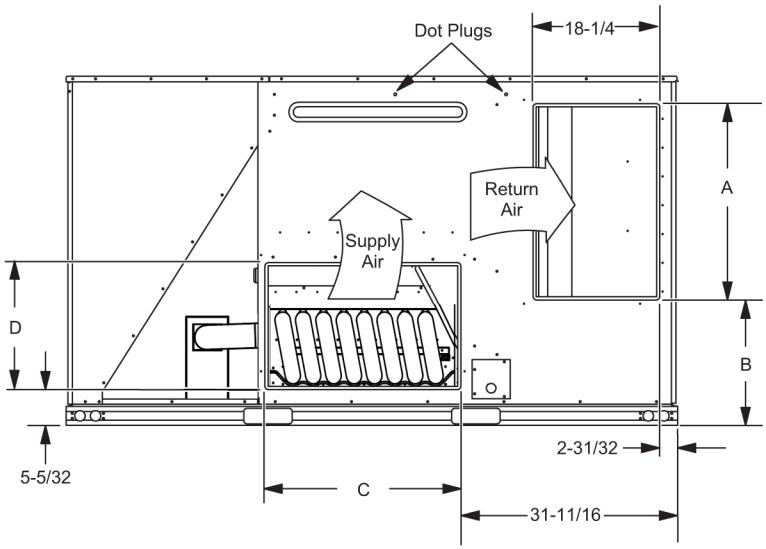
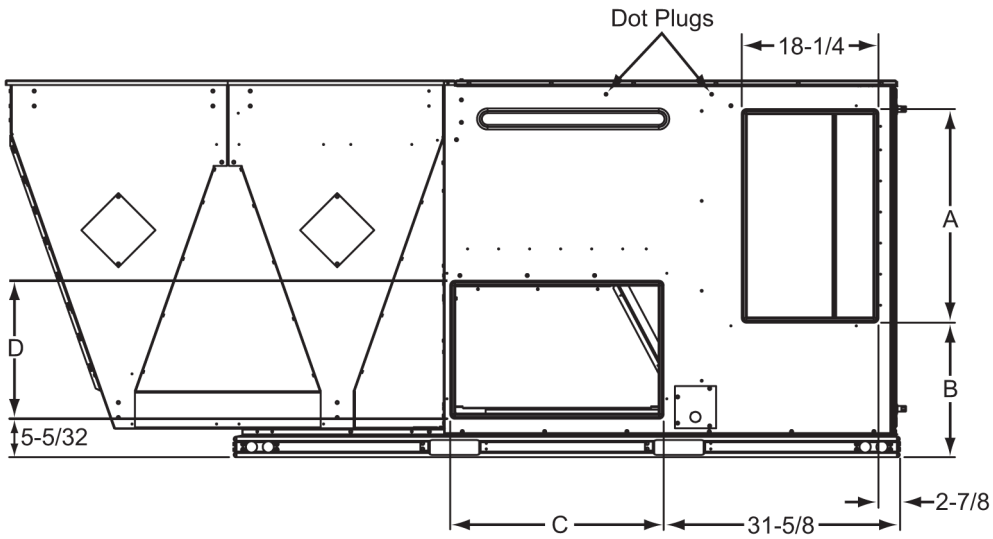



**Figure 20: WP078-120 unit side duct openings**



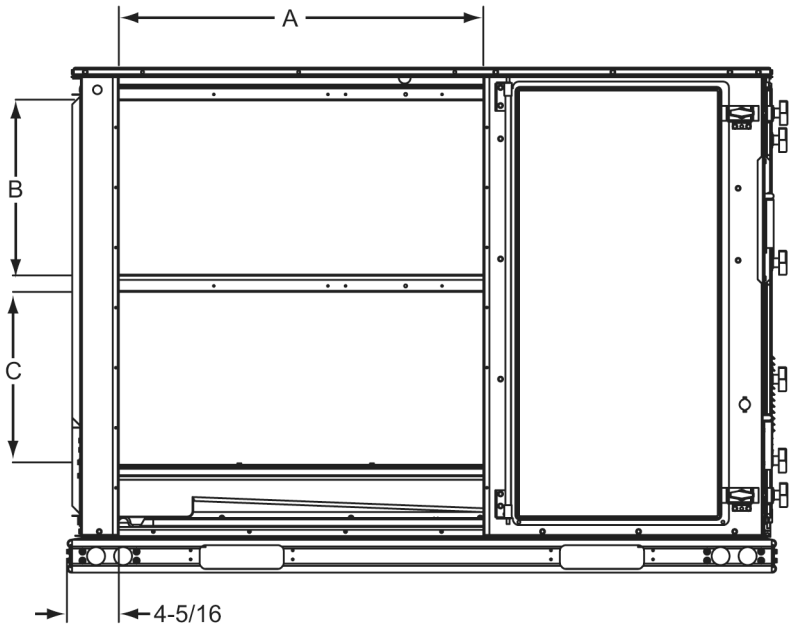
## Figure 21: WP150 unit side duct openings




## Table 44: Side duct dimensions

| Unit model number | Dimension (in.) | | | |
|---|---|---|---|---|
| | A | B | C | D |
| 078 | 28 1/4 | 18 1/16 | 28 1/4 | 18 1/4 |
| 090 | 28 1/4 | 18 1/16 | 28 1/4 | 18 1/4 |
| 102 | 28 1/4 | 18 1/16 | 28 1/4 | 18 1/4 |
| 120 | 28 1/4 | 18 1/16 | 28 1/4 | 18 1/4 |
| 150 | 28 1/4 | 18 1/16 | 28 1/4 | 18 1/4 |

## Figure 22: WP078-150 unit left duct opening




## Table 45: Left/end duct dimensions

| Unit model number | Dimension (in.) | | |
|---|---|---|---|
| | A | B | C |
| 078 | 30.358 | 22.580 | 22.330 |
| 090 | 30.358 | 22.580 | 22.330 |

## Table 45: Left/end duct dimensions

| Unit model number | Dimension (in.) | | |
|---|---|---|---|
| | A | B | C |
| 102 | 30.358 | 22.580 | 22.330 |
| 120 | 30.358 | 22.580 | 22.330 |
| 150 | 30.358 | 22.580 | 22.330 |

# WP078-150 unit accessory dimensions

**Figure 23: WP078-150 roof curb**

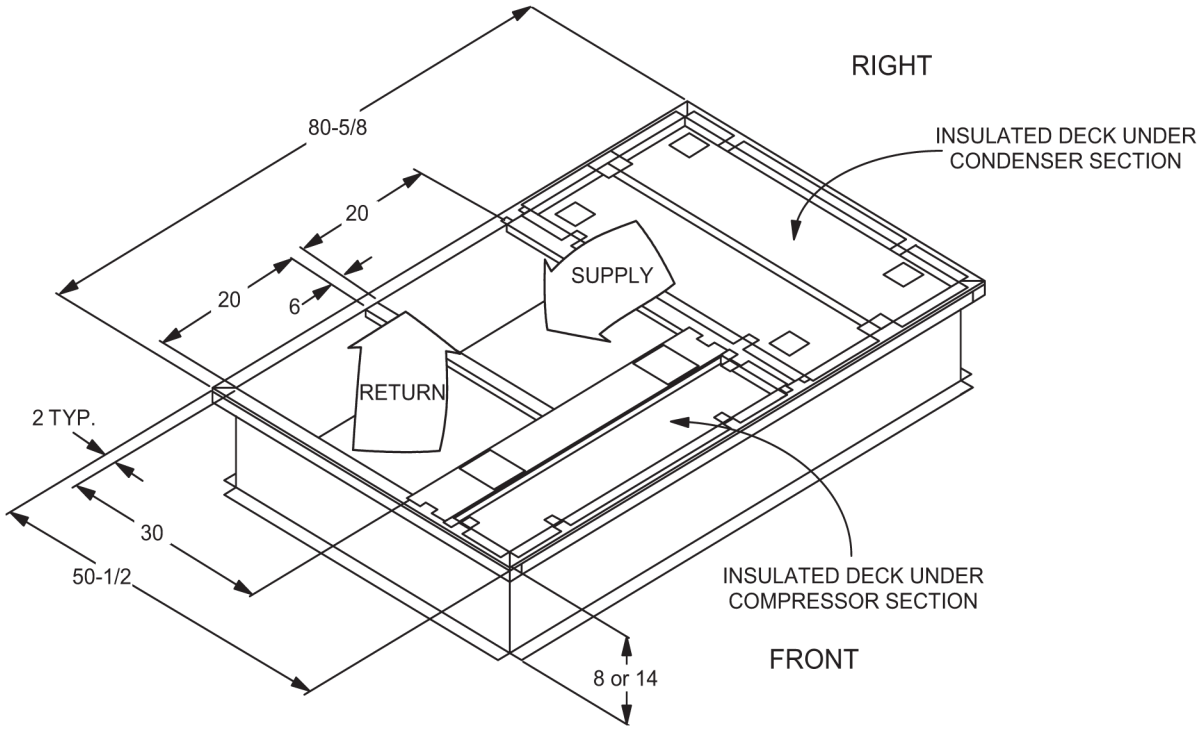



**Figure 24: WP078-150 transition roof curb**

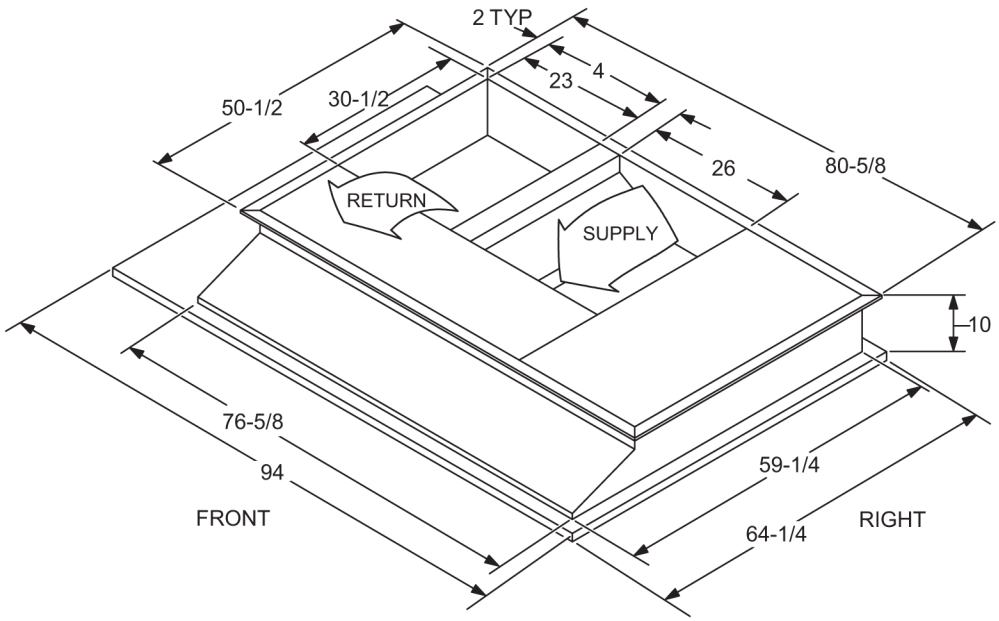
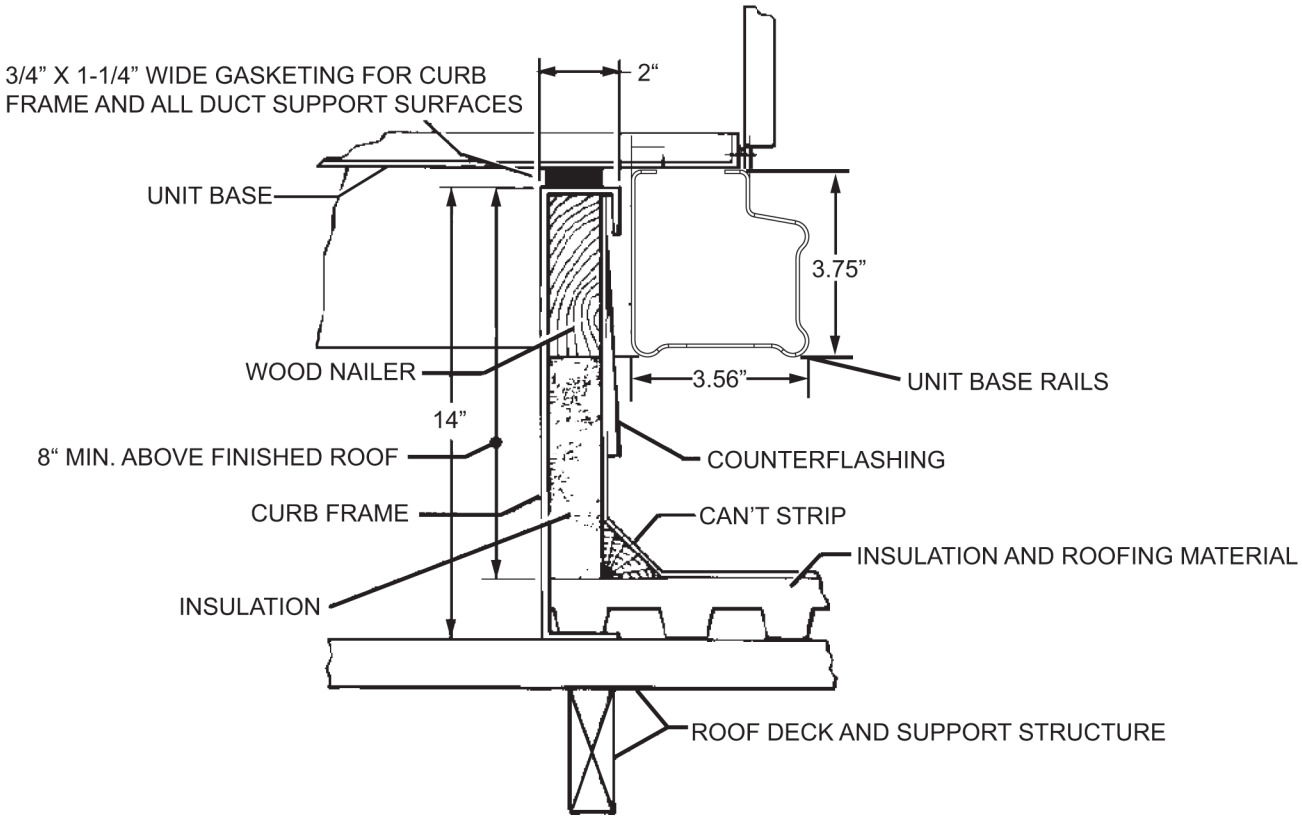


**Figure 25: WP078-150 roof curb cut away**



# Economizer options

### Table 46: Economizer Usage

| Application | Cabinet Height | Description | Model |
|---|---|---|---|
| Side return | All | Horizontal economizer without barometric relief | 2EE04706924[1] |
| Downflow, end return horizontal or bottom return vertical | 42 in. | Economizer, 42 in. tall cabinet | 2EE04717425 [2] |
| | | Economizer, 42 in. tall cabinet, BAS Ready | 2EE04709725[2] |
| | 50 in. | Economizer, 50 in. tall cabinet | 2EE04717625[2] |
| | | Economizer, 50 in. tall cabinet, BAS Ready | 2EE04709825[2] |

1. Barometric relief must be ordered separately and installed in duct work.
2. Includes fresh air hood, exhaust hood and barometric relief.

### Figure 26: Economizer downflow with power exhaust

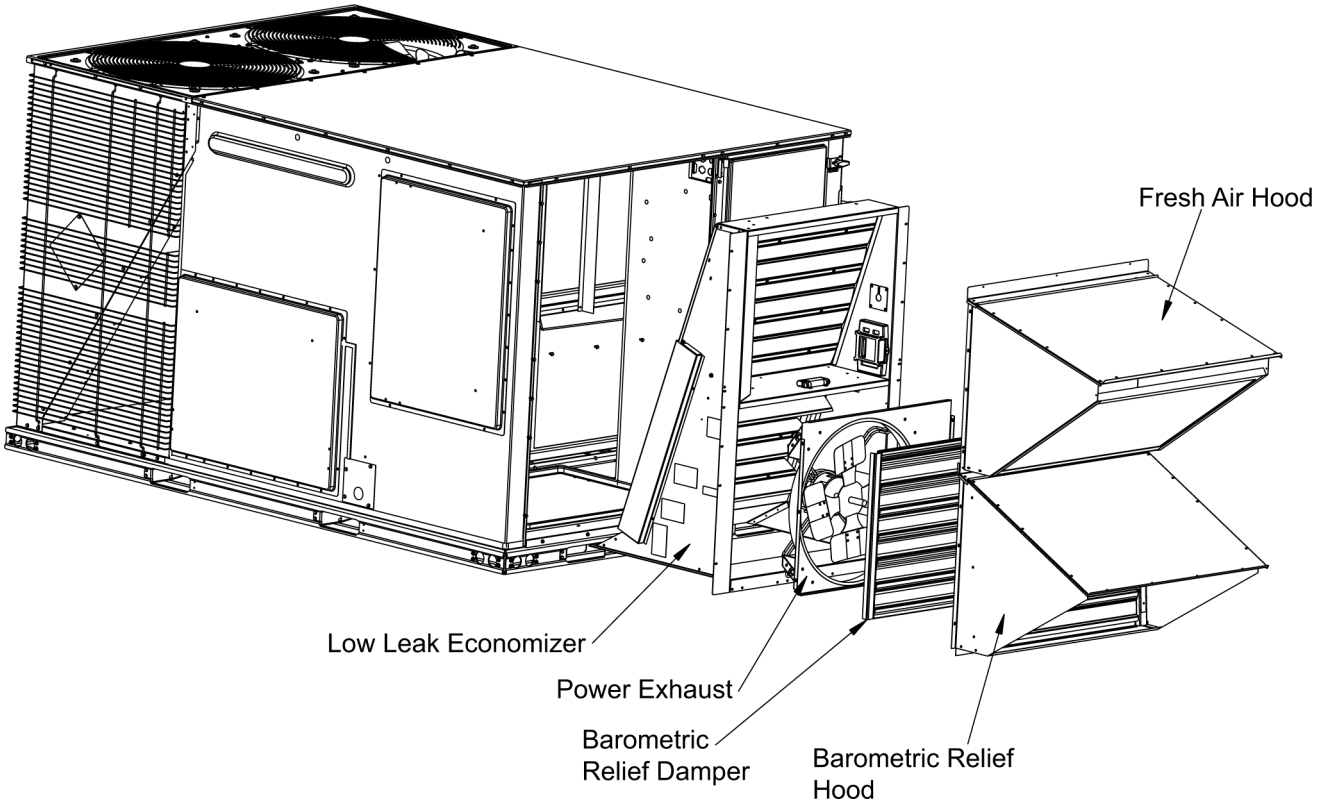


**Figure 27: Economizer end return with power exhaust**

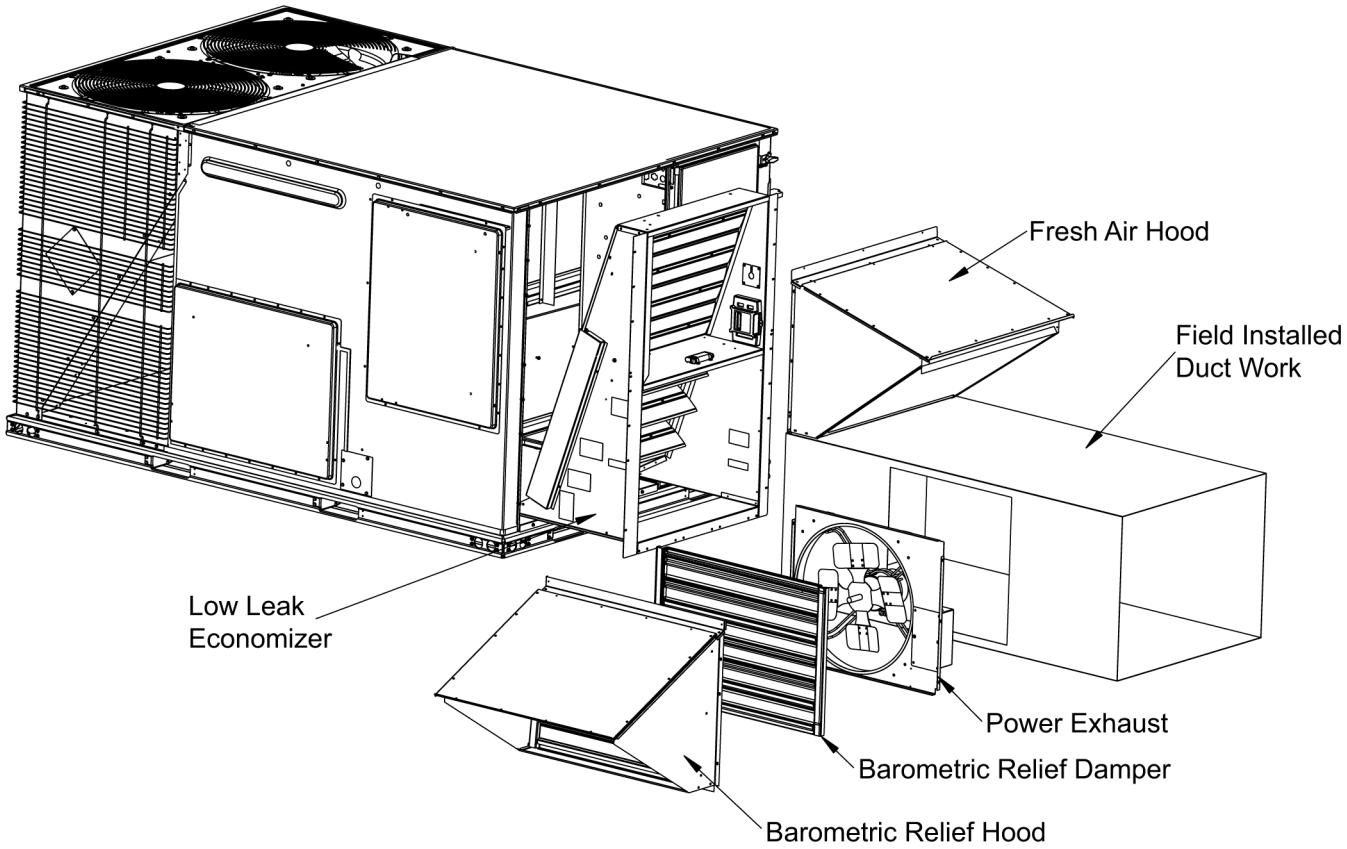



**Figure 28: Field-installed horizontal economizer with power exhaust**