# TECHNICAL GUIDE
# R-410A
# SERIES 10
# 3 - 5 TON
# 60 Hertz


J**ZT 3 THROUGH 5 TON

## Description

**ASHRAE 90.1 COMPLIANT**

Johnson Controls Series 10 units are convertible single packages with a common footprint cabinet and common roof curb for all 3 through 5 ton models. The units were designed for light commercial applications and can be easily installed on a roof curb, slab, or frame.

All Series 10 units are self-contained and assembled on rigid full perimeter base rails allowing for 3-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.

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.

Series 10 units are available in the following configurations: cooling only, cooling with electric heat and cooling with gas heat. Electric heaters are available as factory-installed options or field-installed accessories.

All units meet ASHRAE 90.1 single-zone variable supply air volume standard. Featuring a variable frequency drive on 3 through 5 ton J**ZT models.

Tested in accordance with:

DESIGN CERTIFIED

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CERTIFIED

AHRI CERTIFIED
www.ahridirectory.org
Unitary Small AC
AHRI Standard 210/240

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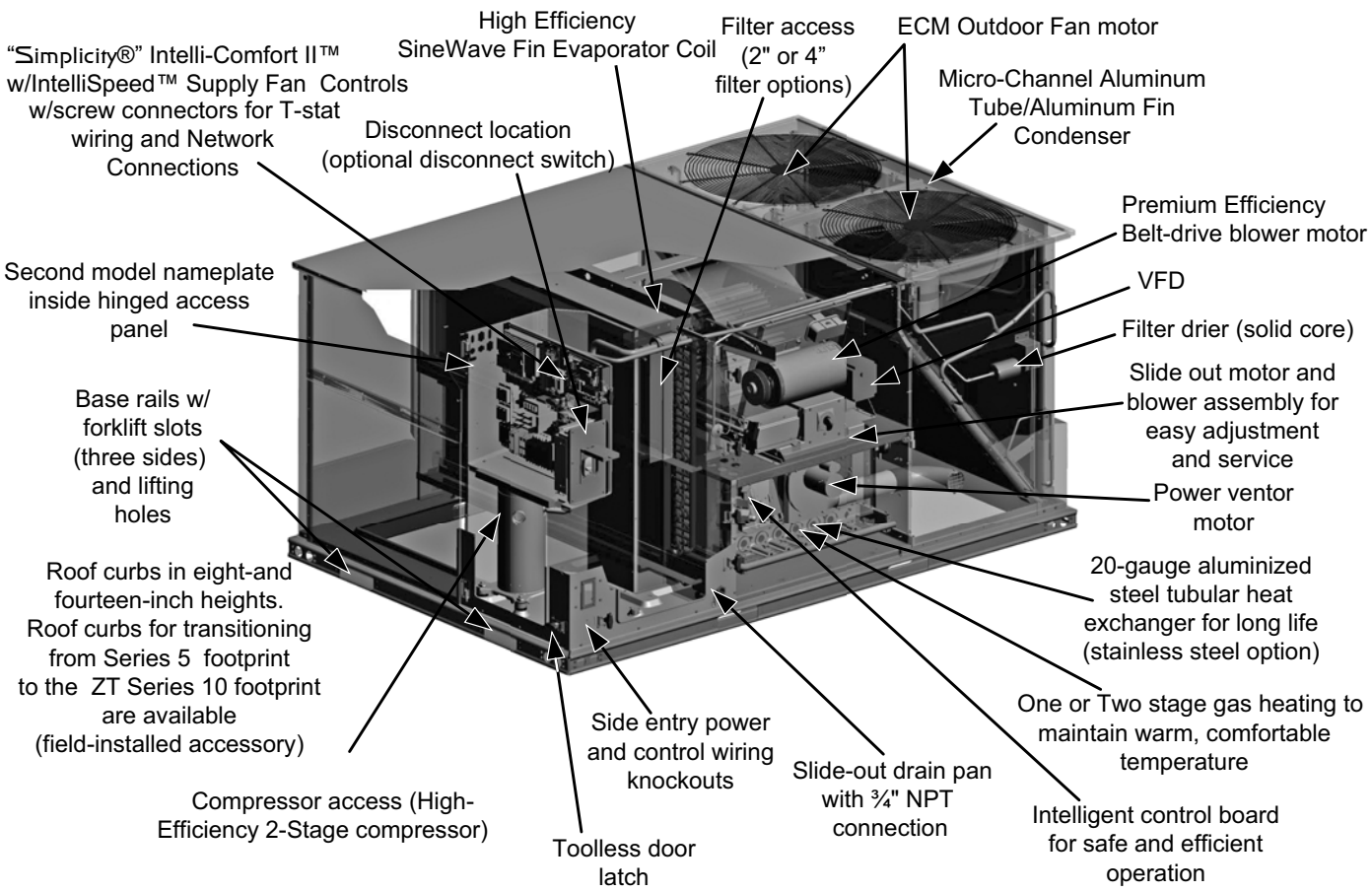
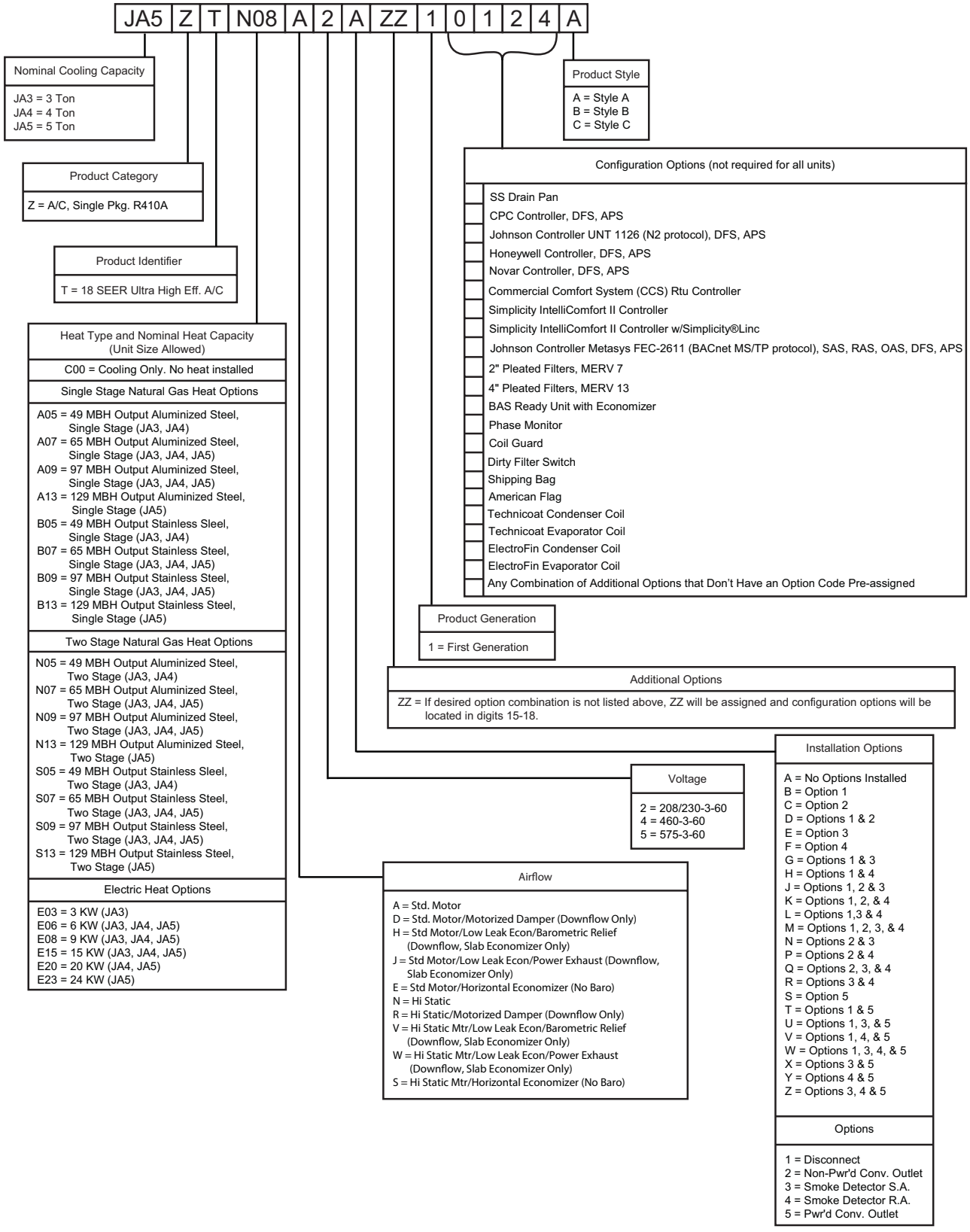
## Component Location

**Cooling With Gas Heat (3 Through 5 Ton)**



## Nomenclature

### 3-5 Ton JCI Series 10 Model Number Nomenclature



## Features and Benefits

### Standard Features for Ultra High Efficiency 3-5 Ton Units

- **Efficiency** – High efficiency units reach as high as 18.1 SEER and 14.35 EER. Gas/electric units have electronic spark ignition and power vented combustion with steady state efficiencies of 80%. These efficiencies exceed all legislated minimum levels and provide low operating costs.
- **Service Friendly** – The Series 10 incorporates a number of enhancements which improve serviceability.

  The motor and blower slide out of the unit as a common assembly. This facilitates greater access to all the indoor airflow components, thus simplifying maintenance and adjustment.

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

  Service windows have been placed in both condenser section walls. Rotation of the cover allows easy access to the condenser coils for cleaning or inspection.

  Both the unit control board and ignition control board utilize flash codes to aid in diagnosis of unit malfunctions. Unique alarm codes quickly identify the source of the unit alarm.

  All units use four filters of the same standard size. This standardization simplifies selections for filter replacement.

  The non-corrosive drain pan slides out of the unit to permit easy cleaning. The drain pan is accessed by removing the drain pan cover plate on the rear of the unit. Once the plate is removed, the drain pan slides out through the rear of the unit.

  All Series 10 units have a second model nameplate located inside the control access door. This is to prevent deterioration of the nameplate through weathering.
- **Simplicity® INTELLI-Comfort II™ Control w/ IntelliSpeed™ Supply Fan Control Option (ASHRAE 90.1 compliant, section 6.4.3.10) (Standard on Ultra High Efficiciency 3 to 5 ton units) Communicates on a MODBUS RTU protocol network -** The Simplicity® INTELLI-Comfort II™ control is factory installed. It includes a supply air sensor, a return air sensor, and an outside air sensor. There are provisions for a field installed dirty filter indicator switch, an air-proving switch, an Outside Air Humidity sensor, a Return Air Humidity sensor, an Inside IAQ sensor, and an Outside Air IAQ sensor. Construction mode operation, 365-day real time clock with 7 day programming plus holiday scheduling is built-in. Two different modes of demand ventilation are achieved through the INTELLI-Comfort II™ using CO2 sensors. It uses an inside CO2 sensor to perform Demand Ventilation. It can also use an Outside CO2 sensor to perform Differential Demand Ventilation. It uses a Patented Comfort Ventilation algorithm to provide comfortable ventilation air temperature. The patented economizer-loading algorithm will protect the equipment when harsh operating conditions exist. It uses the INTELLI-Start™ algorithm to maximize energy savings by recovering the building from the Unoccupied Setpoints to the Occupied Setpoints just in time for the Occupied Time Period to begin. The Simplicity® INTELLI-Comfort II™ balances space temperature, ventilation air temperature and CO2 for ultimate comfort. Units are configured with the ***IntelliSpeed™*** Supply Fan Option at the factory and will contain a VFD for variable volume supply fan operation. This option allows the supply fan RPM to vary based on the stages of compression or heating stages energized. The economizer's minimum position will also be configurable to vary based on the supply fan VFD frequency output.
- **Simplicity® INTELLI-Comfort II™ with Simplicity®LINC Control -** The Simplicity® INTELLI-Comfort II™ with Simplicity®LINC control is factory installed. It includes all the features of the INTELLI-Comfort II™ control with an additional control to translate communications from MODBUS to the BACnet MSTP protocol.
- **Indoor Motors -** Units come from the factory with Premium Efficiency, Inverter rated, Indoor Motor. Both motor and belt drive blower are mounted on a slide out assembly for ease of service.
- **VFD** - These factory supplied Variable Frequency Drives come with a 5 year warranty from the manufacturer. They also provide ease of commissioning without the need of a computer to program the motor. That also provide a soft start which equates to longevity of motor and belt life.
- **Outdoor motors** - Units come from the factory with long lasting, high efficiency ECM motors.
- **Coil Technology** – All J**ZT condensers utilize Micro-Channel “all-aluminum” condensers which provide improved heat transfer capabilities and reduced charge volumes. All evaporators utilize a conventional copper tube/aluminum fin design for proven reliability and performance.
- **Environmentally Aware** – For improved Indoor Air Quality, a combination of foil faced and elastometric rubber insulation is used exclusively throughout the units.
- **Balanced Heating** – The Series 10 two stage gas heating offers “Ultimate Heating Comfort” with a balance between 1st and 2nd stage gas heating. The first stage of a gas heat Series 10 unit provides 70% or 75% of the heating capacity.
- **Convertible Airflow Design** – The side duct openings are covered when they leave the factory. If a side supply/ return is desired, the installer simply 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. Convertible airflow design allows maximum field flexibility and minimum inventory.
- **System Protection** - Suction line freezestats are supplied on all units to protect against 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. Internal compressor protection is standard on all compressors. Phase Monitors are standard 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** - Simplicity® control boards have standardized a number of features previously available only as options or by utilizing additional controls.

**⚠ CAUTION**

The Simplicity® 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 reference applications bulletin AE-011-07 or call the applications department for Unitary Products @ 1-877-UPG-SERV for guidance. Additional accessories may be needed for stable operation at temperatures below 30° F.

- **Anti-Short Cycle Protection** - To aid compressor life, an anti-short cycle delay is incorporated into the standard controls. 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 and heat.
- **Safety Monitoring** - The control board monitors the high and low-pressure switches, the freezestats, the gas valve, if applicable, and the temperature limit switch on gas and electric heat units. The unit control board will alarm on ignition failures, compressor lockouts and repeated limit switch trips.
- **Nuisance Trip Protection and Strikes** - To prevent nuisance trouble calls, the control board uses a “three times, you’re out” philosophy. The high and low-pressure switches and the freezestats must trip three times within two hours before the unit control board will lock out the associated compressor.
- **On Board Diagnostics** - Each alarm will energize a trouble light on the thermostat, if so equipped, and flash an alarm code on the control board LED. Each high and low-pressure switch alarm as well as each freezestat alarm has its own flash code. The control board saves the five most recent alarms in memory, and these alarms can be reviewed at any time. Alarms and programmed values are retained through the loss of power.

- **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 Series 10 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 1000 hour salt spray test.
- **Flexible Placement** – All models and configurations share the same cabinet/footprint and thus the same roof curb. You have the flexibility to set one curb and choose the correct tonnage size and heating option after the internal loads have been determined.

  To further simplify planning and installation, Series 10 cabinets are designed to fit your roof. With the optional roof curb, the unit ductwork is designed to fit around 24” on-center joists or between 48” on-center joists.

  The drain pan can be rotated to drain to either the front or the rear of the unit. Additionally, the drain pan can be fitted to drain through the roof curb. As it is sometimes difficult to have a level installation, the drain pan features a generous slope to ensure proper drainage.
- **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 forklift access from 3 sides, and rigging holes are available 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. A clearly identified location is provided to mount a field supplied electrical disconnect switch. Utility connections can be made quickly and with a minimum amount of field labor.

  All units are shipped with 2” throw-away filters installed.
- **Wide Range of Indoor Airflows** – All indoor fan motors are belt-drive type providing maximum flexibility to handle most airflow requirements. For high static applications, factory installed alternate indoor fan motors are available. With the optional indoor fan motor, all units can supply nominal airflow at a minimum of 1.5” ESP.
- **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 heat exchangers carry a 10-year warranty and stainless steel heat exchangers carry a 15-year warranty.

## Factory Installed Options

Unitary Products offers several equipment options factory installed, for the Series 10 line.

- **Optional Factory Installed Economizers** - Series 10 units offer a variety of optional factory installed economizers with low leak dampers. The outdoor air enthalpy sensor enables economizer operation if the outdoor enthalpy is less than the setpoint of the economizer logic module. See economizer options section to determine the correct economizer for your application.
  - **Downflow Slab 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 90.1-2010, 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" of static pressure. Each economizer goes through a rigorous 60,000 cycle test. Dry bulb, single enthalpy, and dual enthalpy (with 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 dual enthalpy kit provides a second input used to monitor the return air (field installed). The installer needs only to assemble the outdoor air hood, attach the enthalpy control the hood and mount the hood to the unit (Hood and control are provided). When selected with **BAS Ready Economizer Option** the actuator requires 2-10 VDC input from an external source, such as a field-installed or factory-installed BAS controller. BAS-ready actuators have an adjustable auxiliary end-switch for optional power exhaust control.

- **Horizontal Economizer - (Without barometric relief) -** All features of the downflow economizer exist except economizer is not designed with low leak dampers and you must order the duct mount barometric relief separately. **You must order a 1EH0408 if you are installing a power exhaust. You can order a 1RD0411 Barometric Relief for horizontal flow economizers only.**
- **Power Exhaust (Downflow only)** - This accessory installs in the unit with a down flow economizer.
- **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.
- **Alternate Indoor Blower Motor** - For applications with high static restrictions, units are offered with optional indoor motors that provide higher static output and/or higher airflow, depending upon the installer's needs.
- **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.
- **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 3kW to 24kW and are available in all the voltage options of the base units. All heaters are intended for single point power supply.
- **Disconnect Switch** - For gas heat units and cooling units with electric heat, a HACR breaker sized to the unit is provided. For cooling only units, a switch sized to the largest electric heat available for the particular unit is provided. Factory installed option only.
- **Convenience Outlet - (Non-Powered/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 by interrupting power to the control board if smoke is detected within the air compartment. Available for both the supply and/or return air configurations.
- **Filters -** 2" Pleated MERV 7 or 4" Pleated MERV 13 are available to meet LEED requirements. A 2" Throwaway is shipped as standard.

**⚠WARNING**

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

- **Phase Monitors** - Designed to prevent unit damage. The phase monitor will shut the unit down in an out-of phase condition. **(Standard on units with Scroll Compressors.)**
- **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.
- **Technicoat Condenser Coils** - The condenser coils are coated with a phenolic coating for protection against corrosion due to harsh environments.
- **Technicoat Evaporator Coil** - The evaporator coils are coated with a phenolic coating for protection against corrosion due to harsh environments.
- **ElectroFin® E-coat Condenser Coils** - The condenser coils are coated with an epoxy polymer coating to protect against corrosion.
- **ElectroFin® E-coat Evaporator Coils** - The evaporator coils are coated with an epoxy polymer coating to protect against corrosion.

## Control Options

- **Novar® BAS Control** - The Novar® building automation system controller is factory installed. Includes supply air sensor, return air sensor, dirty filter indicator switch, and air proving switch.
- **Johnson Controls BAS Control -** The Johnson Control YK-UNT-1126 building automation system controller is factory installed. Includes supply air sensor, return air sensor, dirty filter indicator switch, and air proving switch.
- **CPC BAS Control** - The Computer Process Controls Model 810-3060 ARTC Advanced Rooftop building automation system controller is factory installed. Includes

supply air sensor, return air sensor, dirty filter indicator switch and air proving switch.

- **Honeywell BAS Control** - The Honeywell W7750C building automation system controller is factory installed. Includes air supply sensor, return air sensor, dirty filter indicator switch, and air proving switch.
- **Johnson Controls BACnet BAS Control** - The Johnson Controls FEC-2611 building automation system controller is factory installed. Includes supply air sensor, return air sensor, outdoor air sensor, dirty filter indicator switch, and air proving switch.

## Field Installed Accessories

Unitary Products offers several equipment accessories for field installation, for the Series 10 line.

- **Downflow Slab Economizers (with fresh air hood and without 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 90.1-2010, 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" of static pressure. Each economizer goes through a rigorous 60,000 cycle test. Dry bulb, single enthalpy, and dual enthalpy (with 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 dual enthalpy kit provides a second input used to monitor the return air (field installed). The installer needs only to assemble the outdoor air hood, attach the enthalpy control the hood and mount the hood to the unit (Hood and control are provided).
- **Horizontal Economizer - (Without barometric relief) -** All features of the downflow economizer exist except economizer is not designed with low leak dampers and you must order the duct mount barometric relief separately. **You must order a 1EH0408 if you are installing a power exhaust. You can order a 1RD0411 Barometric Relief for horizontal flow economizers only.**
- **Dual Enthalpy Control, Accessory** - This kit contains the required components to convert a single enthalpy economizer to dual enthalpy.
- **Barometric Relief Damper** - Zero to 100% capacity barometric relief dampers for use with horizontal flow, or field installed slab economizers.
- **Power Exhaust** - This accessory installs in the unit with a down flow economizer. Power exhaust plugs into the connector in the unit bulkhead. **You must purchase 1EH0408 barometric relief when applying to a horizontal flow application.**
- **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.
- **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.
- **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.
- **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.
- **-60°F Gas Heat Kit** - For installations which require gas heat units to perform in low ambient temperatures, a gas section heating kit is available. This kit provides electric heat in the gas heat controls section to ensure the gas valve and controls will continue to function properly at extremely low temperatures.
- **Gas Heat High Altitude Kit** - This kit converts a gas heat unit to operate at high altitudes, 2,000 to 6,000 feet. 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.
- **Gas Piping Kit** - Contains pipe nipples, fittings and gas cock required for gas supply connection with external shut off.
- **Electric Heaters** - The electric heaters range from 3kW to 24kW and are available in all the voltage options of the base units.

  All heaters are dual staged. Cooling 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.
- **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.
  - **Low Limit Control (LLC):** To prevent the supply air from dropping below a specified setpoint by utilizing the units first stage heating means when there is a demand for cooling during cold outside conditions.
- **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” and 14” heights. For applications with security concerns, burglar bars are available for the duct openings of the roof curbs.
- **Roof Curb Transition -** Single Piece Adapter (10” High) - Roof curbs for transitioning from 7.5 T thru 12.5T Series10 units to Series 10 units. Fits 3 to 5 Ton roof curbs only.
- **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-volt electronic and electro-mechanical thermostats. All Ultra High Efficiency 3-5 Ton units (with or without an economizer) operate with two-stage heat/two-stage cool or two-stage cooling only thermostats, depending upon unit configuration.

## Accessories

**Field Installed Accessories - Non-Electrical**

| MODEL | VOLTAGE | DESCRIPTION | WHERE USED |
|---|---|---|---|
| 1BD0408 | All | Burglar Bars, Downflow | All Cabinets |
| 1CG0427 | All | Coil Guard | (Electric / Electric Models), 42” Tall Cabinets |
| 1CG0428 | All | Coil Guard | (Gas / Electric Models), 42" Tall Cabinets |
| 1HG0415 | All | Hail Guard Kit | All Short (42") Standard Cabinets |
| 1FE0412 | All | Flue Exhaust Extension Kit | All Cabinets |
| 1FF0415 | All | 2" only Metal Filter Frame Kit | All Tall 42" Cabinets |
| 1FL0423 | All | Permanent 2" only Filter Kit (Includes (4) four Filters) | All Tall 42" Cabinets |
| 1GP0405 | All | Gas Piping Kit | All Cabinets |
| 1HA0450 | All | High Altitude Kit for Natural Gas | 3 - 5T (80, 120 & 160 MBH Input) |
| 1HA0451 | All | High Altitude Kit for Natural Gas | 3 - 4T (60 MBH Input) |
| 1HA0452 | All | High Altitude Kit for Propane | 3 - 5T (80, 120 & 160 MBH Input) |
| 1HA0453 | All | High Altitude Kit for Propane | 3 - 4T (60 MBH Input) |
| 1NP0454 | All | Propane Conversion Kit | 3 - 5T (80, 120 & 160 MBH Input) |
| 1NP0455 | All | Propane Conversion Kit | 3 - 4T (60 MBH Input) |
| 1RC0470 | All | Roof Curb, 8" Height | All Cabinets |
| 1RC0471 | All | Roof Curb, 14" Height | All Cabinets |
| 1RC0472 | All | Roof Curb, Transition (7.5 T thru 12.5T Series10 to J**ZH/ZJ/ZR 3- 12T) | All Cabinets |
| 1WC0412 | All | Wooden Crate for extra protection during shipping and handling | Standard Cabinets Only (not applicable to units 119" in length) |
| 1LN0407 | All | Low NOx Kit | 3 - 5T (80, 120 & 160 MBH Input) |
| 1LN0408 | All | Low NOx Kit | 3 - 5T (60 MBH Input) |

## Accessories (Continued)

### Field Installed Accessories - Electric Heat

| MODEL | VOLTAGE | DESCRIPTION | WHERE USED |
|---|---|---|---|
| 2TP04510325 | 230 | 3kW Electric Heat | All 42" Cabinet 3 Ton Models |
| 2TP04510346 | 460 | | |
| 2TP04510625 | 230 | 6kW Electric Heat | All 42" Cabinet 3, 4 and 5 Ton Models |
| 2TP04510646 | 460 | | |
| 2TP04510825 | 230 | 9kW Electric Heat | All 42" Cabinet 3, 4 and 5 Ton Models |
| 2TP04510846 | 460 | | |
| 2TP04510858 | 575 | | |
| 2TP04511525 | 230 | 15kW Electric Heat | All 42" Cabinet 3, 4 and 5 Ton Models |
| 2TP04511546 | 460 | | |
| 2TP04511558 | 575 | | |
| 2TP04512025 | 230 | 20kW Electric Heat | All 42" 4 and 5 Ton Models |
| 2TP04512046 | 460 | | |
| 2TP04512058 | 575 | | |
| 2TP04512325 | 230 | 24kW Electric Heat | All 42" Cabinet 5 Ton Models |
| 2TP04512346 | 460 | | |
| 2TP04512358 | 575 | | |

### Field Installed Accessories - Fresh Air

| MODEL | VOLTAGE | DESCRIPTION | WHERE USED |
|---|---|---|---|
| 1EH0408 | All | Barometric Relief Kit for Power Exhaust, Horizontal Application | All Cabinets |
| 1FA0413 | All | Manual Outside Air Damper 0-35%, Downflow | All Cabinets |
| 1FA0414 | All | Manual Outside Air Damper 0-100%, Downflow | All Cabinets |
| 1RD0411 | All | Barometric Relief Kit for Horizontal Applications | All Cabinets |
| 2EC04700924 | All | Dual Enthalpy Control | All Cabinets |
| 2EE04707524 | All | Downflow Economizer, Slab type for ERV & Downflow Applications, (no Barometric Relief or FA hood) | All 42" Cabinets |
| 2EE04706024 | All | Horizontal Economizer without Barometric Relief | All Cabinets |
| 2MD04703224 | All | Motorized Damper, Downflow without Barometric Relief | All Cabinets |
| 2MD04703724 | All | Motorized Damper, Horizontal | All Cabinets |
| 2PE04704706* | 230 | Power Exhaust 230V Downflow or Horizontal | All Cabinets |
| 2PE04704746* | 460 | Power Exhaust 460V Downflow or Horizontal | All Cabinets |
| 2PE04704758* | 575 | Power Exhaust 575V Downflow or Horizontal | All Cabinets |

* Must be installed in return Duct on Horizontal Applications and a 1EH0408 is required.

### Field Installed Accessories - Controls

| MODEL | VOLTAGE | DESCRIPTION | WHERE USED |
|---|---|---|---|
| 2AP0401 | All | Air Proving Switch | All Units |
| 2AQ04700324B | All | $CO^2$ Space Accessory | All Units |
| 2AQ04700424C | All | $CO^2$ Unit Accessory | All Units |
| 2DF0402 | All | Dirty Air Switch | All Units |
| 2DH04700024 | All | Humidistat | All Units |
| 2SD04700624 | All | Smoke Detector for Supply or Return | All Gen 4 or older units with 2" Filter only capable Cabinets |
| 2SD04700824 | All | Smoke Detector for Supply | All Gen 6 units with 2" & 4" Filters |
| 2SD04700924 | All | Smoke Detector for Return | All Gen 6 units with 2" & 4" Filters |
| 2SD04701024 | All | Smoke Detector for Supply and Return | All Gen 6 units with 2" & 4" Filters |

### Field Installed Accessories - Electrical

| MODEL | VOLTAGE | DESCRIPTION | WHERE USED |
|---|---|---|---|
| 2BC04700106 | 230 | Gas heat kit, -60ºF | All Units |
| 2BC04700151 | 460 | Gas heat kit, -60ºF | All Units |
| 2BC04700154 | 575 | Gas heat kit, -60ºF | All Units |

## Guide Specifications

### GENERAL

Units shall be manufactured by Unitary Products in an ISO 9001 certified facility. Johnson Controls Series 10 units are convertible single packages with a common footprint cabinet and common roof curb for all 3 through 5 ton models. The units were designed for light commercial applications and can be easily installed on a roof curb, slab, or frame. All Series 10 units are self-contained and assembled on rigid full perimeter base rails allowing for 3-way forklift access and overhead rigging. Every unit is completely charged with R-410A, 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. Series 10 units are available in the following configurations: cooling only, cooling with electric heat and cooling with gas heat. Electric heaters are available as factory-installed options or field-installed accessories.

**DESCRIPTION**

Units shall be factory assembled, single package, (Elec/Elec, Gas/Elec), designed for outdoor installation. They shall 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-410A 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 1995/CAN/CSA No. 236-M90 standards.

**UNIT CABINET**

Unit cabinet shall be constructed of galvanized steel with exterior surfaces coated with a non-chalking, powder paint finish, certified at 1000 hour salt spray test per ASTM-B117 standards. Indoor blower sections shall be insulated with up to 1” 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 proper sealing on roof curb applications. Disposable 2” filters shall be furnished as standard 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 ¾” 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. Design shall meet ASHRAE 90.1 single-zone variable supply air volume standard. 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:

a. Shall be fully 2-stage, 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.

b. Shall have internal spring isolation and sound muffling to minimize vibration and noise, and be externally isolated on a dedicated, independent mounting.

Coils:

a. Evaporator coils shall have aluminum plate fins mechanically bonded to seamless internally enhanced copper tubes with all joints brazed. Special Phenolic coating shall be available as a factory option.

b. Evaporator coils shall be of the direct expansion, draw-thru design.

c. Condenser coils shall have Micro-Channel aluminum tube, aluminum fins.

d. Condenser coils shall be of the draw-thru design.

Refrigerant Circuit and Refrigerant Safety Components shall include:

a. Independent fixed-orifice or thermally operated expansion devices.

b. Solid core filter drier/strainer to eliminate any moisture or foreign matter.

c. Accessible service gage connections on both suction and discharge lines to charge, evacuate, and measure refrigerant pressure during any necessary servicing or troubleshooting, without losing charge.

Unit Controls:

a. Unit shall be complete with self-contained low-voltage control circuit protected by a resettable circuit breaker on the 24-volt transformer side.

b. 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-protection thermostat, evaporator coil. If any of the above safety devices trip, an LED (light-emitting

diode) indicator shall flash a diagnostic code that indicates which safety switch has tripped.

c. Unit shall incorporate “AUTO RESET” compressor over temperature, over current protection.

d. Unit shall operate with conventional thermostat designs and have a low voltage terminal strip for easy hook-up.

e. Unit control board shall have on-board diagnostics and fault code display.

f. Control board shall retain last 5 fault codes in non-volatile memory, which will not be lost in the event of a power loss.

**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:

a. Primary and auxiliary high-temperature limit switches.

b. Induced draft pressure sensor.

c. Flame roll out switch (manual reset).

d. Flame proving controls.

e. All two stage gas units shall have two independent stages of capacity (70% or 75% 1st stage, 100% 2nd stage).

**ELECTRIC HEATING SECTION (IF EQUIPPED)**

An electric heating section, with nickel chromium elements, shall be provided in a range of 3 thru 24KW. The heating section shall have a primary limit control(s) (automatic reset) to prevent the heating element system from operating at an excessive temperature. The Heating Section assembly shall slide out of the unit for easy maintenance and service. Units with Electric Heating Sections shall be 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 125 ºF outdoor temperature, exceeding maximum load criteria of AHRI Standard 340/360. The compressor, with standard controls, shall be capable of operation down to 0 ºF outdoor temperature. Unit shall be provided with fan time delay to prevent cold air delivery before heat exchanger warms up. (Gas heat only)

**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, Heat Exchanger – 10 Years, Elect. Heat Elem. – 5 Years, Parts – 1 Year

**FACTORY INSTALLED OPTIONAL OUTDOOR AIR** (Shall be made available by either/or):

- **ELECTRONIC ENTHALPY 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 90.1-2010, 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" of static pressure. During economizer operation, a mixed-air temperature control shall modulate the outdoor and return air damper assembly to prevent the supply air temperature from dropping below 55°F. 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 and/or higher airflow.
- **CONVENIENCE OUTLET (POWERED/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 3kW to 24kW 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** - 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.
- **BREAKER** – An HACR breaker can be factory installed on gas heat units or cooling units 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** – A smoke detector can be factory mounted and wired in the supply and/or return air compartments.

**OTHER PRE-ENGINEERED ACCESSORIES AVAILABLE**

- **ROOF CURB** - 14” and 8” 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.
- **-60ºF GAS HEAT KIT** – Provides an electric heat kit for the gas compartment for use in extreme low ambient conditions.
- **ECONOMIZER** (Downflow and Horizontal flow)
- **POWER EXHAUST** – (Unit mount – Downflow, Duct mount – Horizontal flow)
- **DUAL ENTHALPY KIT** - Provides a second input to economizer to monitor return air.

# Physical Data

### JA3 thru JA5ZT Single Stage Gas Physical Data

| Component | Models | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | JA3ZT | | | JA4ZT | | | JA5ZT | | |
| **Nominal Tonnage** | **3.0** | | | **4.0** | | | **5.0** | | |
| **AHRI COOLING PERFORMANCE** | | | | | | | | | |
| Gross Capacity @ AHRI A point (MBh) | 39000 | | | 54000 | | | 66000 | | |
| AHRI net capacity (MBh) | 38000 | | | 52000 | | | 64000 | | |
| EER | 14.15 | | | 14.35 | | | 13.85 | | |
| SEER | 18.1 | | | 18 | | | 17.5 | | |
| IPLV | - | | | - | | | - | | |
| Nominal CFM | 1200 | | | 1600 | | | 2000 | | |
| System power (KW) | 2.70 | | | 3.64 | | | 4.62 | | |
| Refrigerant type | R-410A | | | R-410A | | | R-410A | | |
| Refrigerant charge (lb-oz) | | | | | | | | | |
| System 1 | 9-12 | | | 13-2 | | | 12-7 | | |
| System 2 | - | | | - | | | - | | |
| **AHRI HEATING PERFORMANCE** | | | | | | | | | |
| Heating model | A05 | A07 | A09 | A05 | A07 | A09 | A07 | A09 | A13 |
| Heat input (K Btu) | 60 | 80 | 120 | 60 | 80 | 120 | 80 | 120 | 160 |
| Heat output (K Btu) | 49 | 65 | 97 | 49 | 65 | 97 | 65 | 97 | 129 |
| AFUE % | - | | - | - | | - | - | | - |
| Steady state efficiency (%) | 81.5 | 81 | 81 | 81.5 | 81 | 81 | 81 | 81 | 80.5 |
| No. burners | 4 | 4 | 6 | 4 | 4 | 6 | 4 | 6 | 8 |
| No. stages | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Temperature Rise Range (ºF) | 20-50°F | 25-65°F | 35-80°F | 20-50°F | 25-65°F | 35-80°F | 25-65°F | 35-80°F | 45-75°F |
| Gas Limit Setting (ºF) | 200 | 235 | 290 | 200 | 235 | 290 | 235 | 290 | 240 |
| Gas piping connection (in.) | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| **DIMENSIONS (inches)** | | | | | | | | | |
| Length | 89 | | | 89 | | | 89 | | |
| Width | 59 | | | 59 | | | 59 | | |
| Height | 42 | | | 42 | | | 42 | | |
| **OPERATING WT. (lbs.)** | 922 | | | 960 | | | 968 | | |
| **COMPRESSORS** | | | | | | | | | |
| Type | 2-stage scroll | | | 2-stage scroll | | | 2-stage scroll | | |
| Quantity | 1 | | | 1 | | | 1 | | |
| Unit Capacity Steps (%) | 67/100 | | | 67/100 | | | 67/100 | | |
| **CONDENSER COIL DATA** | | | | | | | | | |
| Face area (Sq. Ft.) | 12.2 | | | 12.2 | | | 12.2 | | |
| Rows | 1 | | | 1 | | | 1 | | |
| Fins per inch | 23 | | | 23 | | | 23 | | |
| Tube diameter (in./MM) | .98/25 | | | .98/25 | | | .98/25 | | |
| Circuitry Type | 2-pass Microchannel | | | 2-pass Microchannel | | | 2-pass Microchannel | | |
| **EVAPORATOR COIL DATA** | | | | | | | | | |
| Face area (Sq. Ft.) | 10.56 | | | 10.56 | | | 10.56 | | |
| Rows | 3 | | | 4 | | | 4 | | |
| Fins per inch | 15 | | | 15 | | | 15 | | |
| Tube diameter | 0.375 | | | 0.375 | | | 0.375 | | |
| Refrigerant control | TXV | | | TXV | | | TXV | | |

**JA3 thru JA5ZT Single Stage Gas Physical Data (Continued)**

| Component | Models | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | JA3ZT | | | JA4ZT | | | JA5ZT | | |
| **Nominal Tonnage** | **3.0** | | | **4.0** | | | **5.0** | | |
| **CONDENSER FAN DATA** | | | | | | | | | |
| Quantity of fans | 2 | | | 2 | | | 2 | | |
| Fan diameter (Inch) | 24 | | | 24 | | | 24 | | |
| Type | Prop | | | Prop | | | Prop | | |
| Drive type | Direct ECM | | | Direct ECM | | | Direct ECM | | |
| Quantity of motors | 2 | | | 2 | | | 2 | | |
| Motor HP each | 1/3 | | | 1/3 | | | 1/3 | | |
| No. speeds | Var. | | | Var. | | | Var. | | |
| RPM | 850 | | | 850 | | | 850 | | |
| Nominal total CFM | 7000 | | | 7000 | | | 7000 | | |
| **BELT DRIVE EVAP FAN DATA** | | | | | | | | | |
| Quantity | 1 | | | 1 | | | 1 | | |
| Fan Size (Inch) | 12 x 9 | | | 12 x 9 | | | 12 x 9 | | |
| Type | Centrifugal | | | Centrifugal | | | Centrifugal | | |
| Motor Sheave | 1VL40 | | 1VL40 | 1VL34 | | 1VL44 | 1VL40 | | 1VM50 |
| Blower Sheave | AK79 | | AK61 | AK64 | | AK69 | AK61 | | AK64 |
| Belt | A47 | | A45 | A47 | | A47 | A45 | | A47 |
| Motor HP each | 1-1/2 | | 1-1/2 | 1-1/2 | | 1-1/2 | 1-1/2 | | 2 |
| RPM | 1725 | | 1725 | 1725 | | 1725 | 1725 | | 1725 |
| Frame size | 56 | | 56 | 56 | | 56 | 56 | | 56 |
| **FILTERS** | | | | | | | | | |
| Quantity - Size | 4 - (24 x 16 x 2)[1,2] | | | 4 - (24 x 16 x 2)[1,2] | | | 4 - (24 x 16 x 2)[1,2] | | |
| | 4 - (24 x 16 x 4)[3] | | | 4 - (24 x 16 x 4)[3] | | | 4 - (24 x 16 x 4)[3] | | |

1. 2 In. Throwaway, Standard, MERV (Minimum Efficiency Reporting Value)
2. 2 In. Pleated, Optional, MERV 7.
3. 4 In. Pleated, Optional, MERV 13.

**JA3 thru JA5ZT Two Stage Gas Physical Data**

| Component | Models | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | JA3ZT | | | JA4ZT | | | JA5ZT | | |
| **Nominal Tonnage** | **3.0** | | | **4.0** | | | **5.0** | | |
| **AHRI COOLING PERFORMANCE** | | | | | | | | | |
| Gross Capacity @ AHRI A point (MBh) | 39000 | | | 54000 | | | 66000 | | |
| AHRI net capacity (MBh) | 38000 | | | 52000 | | | 64000 | | |
| EER | 14.15 | | | 14.35 | | | 13.85 | | |
| SEER | 18.1 | | | 18 | | | 17.5 | | |
| IPLV | - | | | - | | | - | | |
| Nominal CFM | 1200 | | | 1600 | | | 2000 | | |
| System power (KW) | 2.70 | | | 3.64 | | | 4.62 | | |
| Refrigerant type | R-410A | | | R-410A | | | R-410A | | |
| Refrigerant charge (lb-oz) | | | | | | | | | |
| System 1 | 9-12 | | | 13-2 | | | 12-7 | | |
| System 2 | - | | | - | | | - | | |
| **AHRI HEATING PERFORMANCE** | | | | | | | | | |
| Heating model | N05 | N07 | N09 | N05 | N07 | N09 | N07 | N09 | N13 |
| Heat input (K Btu) | 60 | 80 | 120 | 60 | 80 | 120 | 80 | 120 | 160 |
| Heat output (K Btu) | 49 | 65 | 97 | 49 | 65 | 97 | 65 | 97 | 129 |
| AFUE % | - | | - | - | | - | - | | - |
| Steady state efficiency (%) | 81.5 | 81 | 81 | 81.5 | 81 | 81 | 81 | 81 | 80.5 |
| No. burners | 4 | 4 | 6 | 4 | 4 | 6 | 4 | 6 | 8 |
| No. stages | $2^1$ | $2^2$ | $2^2$ | $2^1$ | $2^2$ | $2^2$ | $2^2$ | $2^2$ | $2^2$ |
| Temperature Rise Range (ºF) | 20-50°F | 25-65°F | 35-80°F | 20-50°F | 25-65°F | 35-80°F | 25-65°F | 35-80°F | 45-75°F |
| Gas Limit Setting (ºF) | 200 | 235 | 290 | 200 | 235 | 290 | 235 | 290 | 240 |
| Gas piping connection (in.) | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| **DIMENSIONS (inches)** | | | | | | | | | |
| Length | 89 | | | 89 | | | 89 | | |
| Width | 59 | | | 59 | | | 59 | | |
| Height | 42 | | | 42 | | | 42 | | |
| **OPERATING WT. (lbs.)** | 922 | | | 960 | | | 968 | | |
| **COMPRESSORS** | | | | | | | | | |
| Type | 2-stage scroll | | | 2-stage scroll | | | 2-stage scroll | | |
| Quantity | 2 | | | 2 | | | 2 | | |
| Unit Capacity Steps (%) | 67/100 | | | 67/100 | | | 67/100 | | |
| **CONDENSER COIL DATA** | | | | | | | | | |
| Face area (Sq. Ft.) | 12.2 | | | 12.2 | | | 12.2 | | |
| Rows | 1 | | | 1 | | | 1 | | |
| Fins per inch | 23 | | | 23 | | | 23 | | |
| Tube diameter (in./MM) | .98/25 | | | .98/25 | | | .98/25 | | |
| Circuitry Type | 2-pass Microchannel | | | 2-pass Microchannel | | | 2-pass Microchannel | | |
| **EVAPORATOR COIL DATA** | | | | | | | | | |
| Face area (Sq. Ft.) | 10.56 | | | 10.56 | | | 10.56 | | |
| Rows | 3 | | | 4 | | | 4 | | |
| Fins per inch | 15 | | | 15 | | | 15 | | |
| Tube diameter | 0.375 | | | 0.375 | | | 0.375 | | |
| Refrigerant control | TXV | | | TXV | | | TXV | | |

**JA3 thru JA5ZT Two Stage Gas Physical Data (Continued)**

| Component | Models | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | JA3ZT | | | JA4ZT | | | JA5ZT | | |
| **Nominal Tonnage** | **3.0** | | | **4.0** | | | **5.0** | | |
| **CONDENSER FAN DATA** | | | | | | | | | |
| Quantity of fans | 2 | | | 2 | | | 2 | | |
| Fan diameter (Inch) | 24 | | | 24 | | | 24 | | |
| Type | Prop | | | Prop | | | Prop | | |
| Drive type | Direct ECM | | | Direct ECM | | | Direct ECM | | |
| Quantity of motors | 2 | | | 2 | | | 2 | | |
| Motor HP each | 1/3 | | | 1/3 | | | 1/3 | | |
| No. speeds | Var. | | | Var. | | | Var. | | |
| RPM | 850 | | | 850 | | | 850 | | |
| Nominal total CFM | 7000 | | | 7000 | | | 7000 | | |
| **BELT DRIVE EVAP FAN DATA** | | | | | | | | | |
| Quantity | 1 | | | 1 | | | 1 | | |
| Fan Size (Inch) | 12 x 9 | | | 12 x 9 | | | 12 x 9 | | |
| Type | Centrifugal | | | Centrifugal | | | Centrifugal | | |
| Motor Sheave | 1VL40 | | 1VL40 | 1VL34 | | 1VL44 | 1VL40 | | 1VM50 |
| Blower Sheave | AK79 | | AK61 | AK64 | | AK69 | AK61 | | AK64 |
| Belt | A47 | | A45 | A47 | | A47 | A45 | | A47 |
| Motor HP each | 1-1/2 | | 1-1/2 | 1-1/2 | | 1-1/2 | 1-1/2 | | 2 |
| RPM | 1725 | | 1725 | 1725 | | 1725 | 1725 | | 1725 |
| Frame size | 56 | | 56 | 56 | | 56 | 56 | | 56 |
| **FILTERS** | | | | | | | | | |
| Quantity - Size | 4 - (24 x 16 x 2)[3,4] | | | 4 - (24 x 16 x 2)[3,4] | | | 4 - (24 x 16 x 2)[3,4] | | |
| | 4 - (24 x 16 x 4)[5] | | | 4 - (24 x 16 x 4)[5] | | | 4 - (24 x 16 x 4)[5] | | |

1. 1st Stage Capacity is 75% of Full Capacity.
2. 1st Stage Capacity is 70% of Full Capacity.
3. 2 In. Throwaway, Standard, MERV (Minimum Efficiency Reporting Value)
4. 2 In. Pleated, Optional, MERV 7.
5. 4 In. Pleated, Optional, MERV 13.

**JA3 thru JA5ZT Unit Limitations**

| Size (Tons) | Model | Unit Voltage | Unit Limitations | | |
|---|---|---|---|---|---|
| | | | Applied Voltage | | Outdoor DB Temp |
| | | | Min | Max | Max (°F) |
| JA3 (3) | J**ZT | 208/230-3-60 | 187 | 252 | 125 |
| | | 460-3-60 | 432 | 504 | 125 |
| | | 575-3-60 | 540 | 630 | 125 |
| JA4 (4) | J**ZT | 208/230-3-60 | 187 | 252 | 125 |
| | | 460-3-60 | 432 | 504 | 125 |
| | | 575-3-60 | 540 | 630 | 125 |
| JA5 (5) | J**ZT | 208/230-3-60 | 187 | 252 | 125 |
| | | 460-3-60 | 432 | 504 | 125 |
| | | 575-3-60 | 540 | 630 | 125 |

# Capacity Performance

## JA3 thru JA5ZT Cooling Capacities

### JA3ZT High Speed Compressor (3.0 Ton)

| Air on Evaporator Coil | | Temperature of Air on Condenser Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total Capacity[1] (MBh) | Total Input (kW)[2] | Sensible Capacity (MBh) | | | | | | Total Capacity[1] (MBh) | Total Input (kW)[2] | 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 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 750 | 77 | 49.3 | 1.9 | 25.0 | 20.9 | 16.7 | - | - | - | 45.5 | 2.2 | 22.1 | 19.0 | 15.9 | - | - | - |
| | 72 | 43.4 | 1.9 | 28.1 | 24.1 | 20.2 | 16.2 | - | - | 40.8 | 2.1 | 26.7 | 23.0 | 19.3 | 15.6 | - | - |
| | 67 | 37.4 | 1.9 | 31.2 | 27.4 | 23.6 | 19.5 | 15.9 | - | 36.1 | 2.1 | 31.2 | 27.0 | 22.7 | 18.8 | 15.0 | - |
| | 62 | 35.5 | 1.9 | 35.4 | 31.2 | 27.1 | 22.6 | 19.5 | 15.7 | 34.0 | 2.1 | 33.8 | 30.0 | 26.1 | 21.8 | 18.1 | 14.1 |
| 900 | 77 | 49.8 | 1.9 | 26.8 | 21.8 | 16.8 | - | - | - | 46.2 | 2.2 | 24.7 | 20.3 | 15.9 | - | - | - |
| | 72 | 44.7 | 1.9 | 30.6 | 25.9 | 21.3 | 16.6 | - | - | 42.1 | 2.1 | 29.2 | 24.8 | 20.3 | 15.8 | - | - |
| | 67 | 39.6 | 1.9 | 34.3 | 30.0 | 25.7 | 20.9 | 16.4 | - | 38.0 | 2.1 | 33.8 | 29.3 | 24.7 | 20.0 | 15.4 | - |
| | 62 | 37.5 | 1.9 | 37.4 | 33.8 | 30.2 | 25.0 | 20.9 | 16.2 | 35.8 | 2.1 | 35.7 | 32.4 | 29.1 | 24.0 | 19.5 | 14.8 |
| | 57 | 35.4 | 1.9 | 35.4 | 35.4 | 34.7 | 30.0 | 25.3 | 20.6 | 33.6 | 2.1 | 33.6 | 33.6 | 33.5 | 28.6 | 23.7 | 18.7 |
| 1050 | 77 | 50.4 | 2.0 | 28.6 | 22.7 | 16.8 | - | - | - | 47.0 | 2.2 | 27.3 | 21.6 | 15.9 | - | - | - |
| | 72 | 46.0 | 1.9 | 33.0 | 27.7 | 22.3 | 17.0 | - | - | 43.5 | 2.2 | 31.8 | 26.5 | 21.3 | 16.0 | - | - |
| | 67 | 41.7 | 1.9 | 37.4 | 32.7 | 27.9 | 22.3 | 17.0 | - | 40.0 | 2.1 | 36.4 | 31.5 | 26.7 | 21.2 | 15.8 | - |
| | 62 | 39.5 | 1.9 | 39.4 | 36.4 | 33.4 | 27.4 | 22.2 | 16.7 | 37.7 | 2.1 | 37.5 | 34.8 | 32.1 | 26.3 | 21.0 | 15.4 |
| | 57 | 37.2 | 1.9 | 37.2 | 37.2 | 36.9 | 33.2 | 27.5 | 21.8 | 35.3 | 2.1 | 35.3 | 35.3 | 35.3 | 31.8 | 26.1 | 20.4 |
| 1200 | 77 | 50.9 | 2.0 | 30.4 | 23.6 | 16.8 | - | - | - | 47.7 | 2.2 | 29.9 | 22.9 | 15.9 | - | - | - |
| | 72 | 47.4 | 1.9 | 35.5 | 29.4 | 23.4 | 17.4 | - | - | 44.8 | 2.2 | 34.4 | 28.3 | 22.2 | 16.2 | - | - |
| | 67 | 43.8 | 1.9 | 40.6 | 35.3 | 30.0 | 23.7 | 17.5 | - | 41.9 | 2.2 | 39.0 | 33.8 | 28.6 | 22.4 | 16.2 | - |
| | 62 | 41.4 | 1.9 | 41.3 | 39.0 | 36.6 | 29.8 | 23.6 | 17.1 | 39.5 | 2.1 | 39.4 | 37.2 | 35.0 | 28.6 | 22.4 | 16.1 |
| | 57 | 39.0 | 1.9 | 39.0 | 39.0 | 39.0 | 36.5 | 29.7 | 23.0 | 37.1 | 2.1 | 37.1 | 37.1 | 37.1 | 35.0 | 28.5 | 22.1 |
| 1350 | 72 | 48.7 | 2.0 | 37.9 | 31.2 | 24.5 | 17.8 | - | - | 46.1 | 2.2 | 37.0 | 30.1 | 23.2 | 16.3 | - | - |
| | 67 | 46.0 | 2.0 | 43.7 | 37.9 | 32.1 | 25.0 | 18.0 | - | 43.8 | 2.2 | 41.6 | 36.1 | 30.6 | 23.6 | 16.6 | - |
| | 62 | 43.4 | 1.9 | 43.3 | 41.5 | 39.8 | 32.2 | 25.0 | 17.6 | 41.3 | 2.1 | 41.2 | 39.6 | 38.0 | 30.8 | 23.8 | 16.7 |
| | 57 | 40.8 | 1.9 | 40.8 | 40.8 | 40.8 | 39.7 | 32.0 | 24.3 | 38.9 | 2.1 | 38.9 | 38.9 | 38.9 | 38.2 | 31.0 | 23.8 |
| 1500 | 72 | 50.0 | 2.0 | 40.4 | 33.0 | 25.6 | 18.2 | - | - | 47.5 | 2.2 | 39.6 | 31.9 | 24.2 | 16.5 | - | - |
| | 67 | 48.1 | 2.0 | 46.8 | 40.5 | 34.3 | 26.4 | 18.6 | - | 45.7 | 2.2 | 44.1 | 38.4 | 32.6 | 24.8 | 17.0 | - |
| | 62 | 45.3 | 1.9 | 45.3 | 44.1 | 42.9 | 34.7 | 26.4 | 18.1 | 43.2 | 2.2 | 43.1 | 42.0 | 40.9 | 33.1 | 25.2 | 17.3 |
| | 57 | 42.5 | 1.9 | 42.5 | 42.5 | 42.5 | 42.5 | 34.2 | 25.5 | 40.6 | 2.1 | 40.6 | 40.6 | 40.6 | 40.6 | 33.4 | 25.4 |
| | | 95°F | | | | | | | | 105°F | | | | | | | |
| 750 | 77 | 41.7 | 2.4 | 19.2 | 17.1 | 15.0 | - | - | - | 39.3 | 2.7 | 18.9 | 16.8 | 14.8 | - | - | - |
| | 72 | 38.3 | 2.3 | 25.2 | 21.8 | 18.4 | 15.0 | - | - | 35.4 | 2.7 | 24.0 | 20.8 | 17.5 | 14.2 | - | - |
| | 67 | 34.8 | 2.3 | 31.2 | 26.5 | 21.8 | 18.0 | 14.2 | - | 31.7 | 2.7 | 29.2 | 24.7 | 20.2 | 16.7 | 13.1 | - |
| | 62 | 32.4 | 2.3 | 32.2 | 28.7 | 25.2 | 21.0 | 16.8 | 12.6 | 30.3 | 2.7 | 30.0 | 26.5 | 22.9 | 19.1 | 15.3 | 11.5 |
| 900 | 77 | 42.6 | 2.4 | 22.6 | 18.8 | 15.0 | - | - | - | 39.5 | 2.7 | 22.1 | 18.3 | 14.5 | - | - | - |
| | 72 | 39.6 | 2.4 | 27.9 | 23.6 | 19.3 | 15.0 | - | - | 36.5 | 2.7 | 26.6 | 22.4 | 18.2 | 14.0 | - | - |
| | 67 | 36.5 | 2.3 | 33.3 | 28.5 | 23.6 | 19.0 | 14.5 | - | 33.5 | 2.7 | 31.1 | 26.5 | 21.9 | 17.6 | 13.2 | - |
| | 62 | 34.1 | 2.3 | 34.0 | 31.0 | 28.0 | 23.1 | 18.2 | 13.4 | 31.8 | 2.7 | 31.6 | 28.6 | 25.6 | 21.1 | 16.6 | 12.1 |
| | 57 | 31.8 | 2.3 | 31.8 | 31.8 | 31.8 | 27.2 | 22.0 | 16.9 | 30.2 | 2.7 | 30.2 | 30.2 | 29.4 | 24.7 | 20.0 | 15.3 |
| 1050 | 77 | 43.6 | 2.4 | 26.0 | 20.4 | 14.9 | - | - | - | 39.8 | 2.7 | 25.3 | 19.8 | 14.2 | - | - | - |
| | 72 | 40.9 | 2.4 | 30.7 | 25.4 | 20.2 | 15.0 | - | - | 37.7 | 2.7 | 29.2 | 24.0 | 18.9 | 13.8 | - | - |
| | 67 | 38.2 | 2.4 | 35.4 | 30.4 | 25.5 | 20.1 | 14.7 | - | 35.3 | 2.7 | 33.0 | 28.3 | 23.6 | 18.5 | 13.3 | - |
| | 62 | 35.9 | 2.3 | 35.7 | 33.2 | 30.7 | 25.2 | 19.7 | 14.2 | 33.4 | 2.7 | 33.2 | 30.8 | 28.4 | 23.1 | 17.9 | 12.7 |
| | 57 | 33.5 | 2.3 | 33.5 | 33.5 | 33.5 | 30.3 | 24.7 | 19.0 | 31.6 | 2.7 | 31.6 | 31.6 | 31.6 | 27.8 | 22.5 | 17.2 |
| 1200 | 77 | 44.6 | 2.4 | 29.4 | 22.1 | 14.9 | - | - | - | 40.1 | 2.7 | 28.6 | 21.2 | 13.9 | - | - | - |
| | 72 | 42.3 | 2.4 | 33.4 | 27.2 | 21.1 | 14.9 | - | - | 38.8 | 2.7 | 31.7 | 25.7 | 19.6 | 13.6 | - | - |
| | 67 | 40.0 | 2.4 | 37.4 | 32.3 | 27.3 | 21.1 | 15.0 | - | 37.0 | 2.7 | 34.9 | 30.1 | 25.4 | 19.4 | 13.4 | - |
| | 62 | 37.6 | 2.4 | 37.4 | 35.4 | 33.5 | 27.3 | 21.1 | 15.0 | 35.0 | 2.7 | 34.8 | 33.0 | 31.1 | 25.2 | 19.2 | 13.3 |
| | 57 | 35.2 | 2.3 | 35.2 | 35.2 | 35.2 | 33.5 | 27.3 | 21.1 | 32.9 | 2.7 | 32.9 | 32.9 | 32.9 | 31.0 | 25.1 | 19.2 |
| 1350 | 72 | 43.6 | 2.4 | 36.1 | 29.0 | 22.0 | 14.9 | - | - | 40.0 | 2.7 | 34.3 | 27.3 | 20.3 | 13.3 | - | - |
| | 67 | 41.7 | 2.4 | 39.5 | 34.3 | 29.1 | 22.1 | 15.2 | - | 38.8 | 2.7 | 36.8 | 31.9 | 27.1 | 20.3 | 13.5 | - |
| | 62 | 39.3 | 2.4 | 39.2 | 37.7 | 36.2 | 29.4 | 22.6 | 15.8 | 36.6 | 2.7 | 36.4 | 35.1 | 33.9 | 27.2 | 20.5 | 13.9 |
| | 57 | 37.0 | 2.3 | 37.0 | 37.0 | 37.0 | 36.6 | 30.0 | 23.3 | 34.3 | 2.7 | 34.3 | 34.3 | 34.3 | 34.1 | 27.6 | 21.1 |
| 1500 | 72 | 44.9 | 2.4 | 38.8 | 30.8 | 22.9 | 14.9 | - | - | 41.1 | 2.7 | 36.9 | 29.0 | 21.0 | 13.1 | - | - |
| | 67 | 43.4 | 2.4 | 41.5 | 36.2 | 30.9 | 23.2 | 15.4 | - | 40.6 | 2.8 | 38.7 | 33.8 | 28.8 | 21.2 | 13.5 | - |
| | 62 | 41.0 | 2.4 | 40.9 | 39.9 | 39.0 | 31.5 | 24.0 | 16.6 | 38.1 | 2.7 | 38.0 | 37.3 | 36.6 | 29.2 | 21.9 | 14.5 |
| | 57 | 38.7 | 2.3 | 38.7 | 38.7 | 38.7 | 38.7 | 32.6 | 25.4 | 35.7 | 2.7 | 35.7 | 35.7 | 35.7 | 35.7 | 30.2 | 23.1 |

## JA3ZT High Speed Compressor (3.0 Ton) (Continued)

| Air on Evaporator Coil | | Temperature of Air on Condenser Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total Capacity[1] (MBh) | Total Input (kW)[2] | Sensible Capacity (MBh) | | | | | | Total Capacity[1] (MBh) | Total Input (kW)[2] | 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 | | | | | | | |
| 750 | 77 | 36.9 | 3.0 | 18.6 | 16.5 | 14.5 | - | - | - | 34.4 | 3.3 | 18.2 | 16.3 | 14.3 | - | - | - |
| | 72 | 32.4 | 3.0 | 22.8 | 19.7 | 16.6 | 13.4 | - | - | 29.5 | 3.3 | 21.6 | 18.6 | 15.6 | 12.6 | - | - |
| | 67 | 28.6 | 3.0 | 27.1 | 22.8 | 18.6 | 15.3 | 12.0 | - | 25.4 | 3.4 | 25.0 | 21.0 | 16.9 | 13.9 | 10.9 | - |
| | 62 | 28.1 | 3.0 | 27.8 | 24.2 | 20.6 | 17.2 | 13.8 | 10.3 | 26.0 | 3.3 | 25.7 | 22.0 | 18.3 | 15.2 | 12.2 | 9.2 |
| 900 | 77 | 36.4 | 3.0 | 21.6 | 17.8 | 14.0 | - | - | - | 33.3 | 3.3 | 21.2 | 17.3 | 13.5 | - | - | - |
| | 72 | 33.4 | 3.0 | 25.2 | 21.2 | 17.1 | 13.0 | - | - | 30.4 | 3.4 | 23.9 | 19.9 | 16.0 | 12.0 | - | - |
| | 67 | 30.4 | 3.0 | 28.8 | 24.5 | 20.2 | 16.1 | 11.9 | - | 27.4 | 3.4 | 26.6 | 22.5 | 18.5 | 14.6 | 10.7 | - |
| | 62 | 29.5 | 3.0 | 29.3 | 26.3 | 23.3 | 19.1 | 14.9 | 10.7 | 27.2 | 3.3 | 26.9 | 24.0 | 21.0 | 17.1 | 13.3 | 9.4 |
| | 57 | 28.6 | 3.0 | 28.6 | 28.1 | 26.4 | 22.2 | 17.9 | 13.7 | 27.1 | 3.3 | 27.1 | 25.4 | 23.5 | 19.7 | 15.9 | 12.1 |
| 1050 | 77 | 36.0 | 3.0 | 24.7 | 19.1 | 13.4 | - | - | - | 32.2 | 3.3 | 24.1 | 18.4 | 12.6 | - | - | - |
| | 72 | 34.4 | 3.0 | 27.7 | 22.6 | 17.6 | 12.6 | - | - | 31.2 | 3.4 | 26.2 | 21.2 | 16.3 | 11.4 | - | - |
| | 67 | 32.3 | 3.0 | 30.6 | 26.2 | 21.8 | 16.8 | 11.9 | - | 29.3 | 3.4 | 28.2 | 24.1 | 20.0 | 15.2 | 10.4 | - |
| | 62 | 31.0 | 3.0 | 30.7 | 28.4 | 26.1 | 21.1 | 16.1 | 11.2 | 28.5 | 3.3 | 28.2 | 26.0 | 23.7 | 19.0 | 14.3 | 9.7 |
| | 57 | 29.6 | 3.0 | 29.6 | 29.6 | 29.6 | 25.3 | 20.4 | 15.5 | 27.7 | 3.3 | 27.7 | 27.7 | 27.4 | 22.8 | 18.3 | 13.7 |
| 1200 | 77 | 35.6 | 3.0 | 27.8 | 20.3 | 12.8 | - | - | - | 31.1 | 3.3 | 27.0 | 19.4 | 11.8 | - | - | - |
| | 72 | 35.4 | 3.0 | 30.1 | 24.1 | 18.2 | 12.2 | - | - | 32.0 | 3.4 | 28.4 | 22.6 | 16.7 | 10.8 | - | - |
| | 67 | 34.1 | 3.1 | 32.3 | 27.9 | 23.5 | 17.6 | 11.8 | - | 31.2 | 3.4 | 29.8 | 25.7 | 21.6 | 15.9 | 10.2 | - |
| | 62 | 32.4 | 3.0 | 32.1 | 30.5 | 28.8 | 23.1 | 17.3 | 11.6 | 29.8 | 3.3 | 29.5 | 28.0 | 26.5 | 20.9 | 15.4 | 9.9 |
| | 57 | 30.6 | 3.0 | 30.6 | 30.6 | 30.6 | 28.5 | 22.8 | 17.2 | 28.3 | 3.3 | 28.3 | 28.3 | 28.3 | 26.0 | 20.6 | 15.3 |
| 1350 | 72 | 36.4 | 3.0 | 32.5 | 25.6 | 18.7 | 11.8 | - | - | 32.8 | 3.4 | 30.7 | 23.9 | 17.1 | 10.3 | - | - |
| | 67 | 36.0 | 3.1 | 34.1 | 29.6 | 25.1 | 18.4 | 11.7 | - | 33.1 | 3.4 | 31.4 | 27.3 | 23.1 | 16.5 | 10.0 | - |
| | 62 | 33.8 | 3.0 | 33.6 | 32.6 | 31.5 | 25.0 | 18.5 | 12.0 | 31.0 | 3.4 | 30.8 | 30.0 | 29.2 | 22.8 | 16.5 | 10.1 |
| | 57 | 31.6 | 3.0 | 31.6 | 31.6 | 31.6 | 31.6 | 25.3 | 19.0 | 28.9 | 3.3 | 28.9 | 28.9 | 28.9 | 28.9 | 23.0 | 16.8 |
| 1500 | 72 | 37.4 | 3.1 | 34.9 | 27.1 | 19.2 | 11.4 | - | - | 33.6 | 3.4 | - | 25.2 | 17.4 | 9.7 | - | - |
| | 67 | 37.8 | 3.1 | 35.8 | 31.3 | 26.7 | 19.2 | 11.6 | - | 35.1 | 3.4 | - | 28.8 | 24.7 | 17.2 | 9.7 | - |
| | 62 | 35.2 | 3.0 | 35.0 | 34.6 | 34.3 | 27.0 | 19.7 | 12.4 | 32.3 | 3.4 | - | 32.0 | 31.9 | 24.7 | 17.5 | 10.3 |
| | 57 | 32.6 | 3.0 | 32.6 | 32.6 | 32.6 | 32.6 | 27.8 | 20.7 | 29.6 | 3.3 | - | 29.6 | 29.6 | 29.6 | 25.3 | 18.4 |

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 condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## JA3ZT Low Speed Compressor (3.0 Ton)

| Air on Evaporator Coil | | Temperature of Air on Condenser Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sensible Capacity (MBh) | | | | | | | | Sensible Capacity (MBh) | | | | | |
| CFM | WB (°F) | Total Capacity[1] (MBh) | Total Input (kW)[2] | Return Dry Bulb (°F) | | | | | | Total Capacity[1] (MBh) | Total Input (kW)[2] | Return Dry Bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 750 | 77 | 38.7 | 1.2 | 19.8 | 16.4 | 13.1 | - | - | - | 35.0 | 1.4 | 18.5 | 15.0 | 11.5 | - | - | - |
| | 72 | 34.6 | 1.2 | 24.6 | 20.6 | 16.6 | 12.7 | - | - | 31.8 | 1.4 | 23.0 | 19.2 | 15.3 | 11.4 | - | - |
| | 67 | 30.5 | 1.2 | 29.3 | 24.8 | 20.2 | 16.3 | 12.5 | - | 28.6 | 1.4 | 27.5 | 23.3 | 19.1 | 15.2 | 11.3 | - |
| | 62 | 29.6 | 1.2 | 29.1 | 26.4 | 23.7 | 18.6 | 16.3 | 12.7 | 27.6 | 1.4 | 27.3 | 25.1 | 22.9 | 18.3 | 15.0 | 11.0 |
| 900 | 77 | 39.0 | 1.2 | 23.1 | 18.3 | 13.4 | - | - | - | 35.6 | 1.4 | 21.9 | 16.8 | 11.7 | - | - | - |
| | 72 | 35.7 | 1.2 | 27.1 | 22.4 | 17.8 | 13.1 | - | - | 33.0 | 1.4 | 25.5 | 20.9 | 16.4 | 11.8 | - | - |
| | 67 | 32.4 | 1.2 | 31.1 | 26.6 | 22.1 | 17.5 | 13.0 | - | 30.3 | 1.4 | 29.1 | 25.1 | 21.0 | 16.3 | 11.7 | - |
| | 62 | 31.3 | 1.2 | 30.9 | 28.7 | 26.5 | 20.9 | 17.6 | 13.1 | 29.2 | 1.4 | 28.9 | 27.3 | 25.7 | 20.4 | 16.2 | 11.5 |
| | 57 | 30.2 | 1.2 | 30.2 | 30.2 | 30.2 | 26.4 | 22.1 | 17.8 | 28.0 | 1.4 | 28.0 | 28.0 | 28.0 | 25.5 | 20.7 | 15.9 |
| 1050 | 77 | 39.4 | 1.2 | 26.5 | 20.1 | 13.8 | - | - | - | 36.2 | 1.4 | 25.2 | 18.6 | 11.9 | - | - | - |
| | 72 | 36.9 | 1.2 | 29.7 | 24.3 | 18.9 | 13.6 | - | - | 34.1 | 1.4 | 28.0 | 22.7 | 17.4 | 12.1 | - | - |
| | 67 | 34.3 | 1.2 | 32.9 | 28.5 | 24.1 | 18.8 | 13.5 | - | 32.0 | 1.4 | 30.7 | 26.8 | 22.9 | 17.5 | 12.1 | - |
| | 62 | 33.0 | 1.2 | 32.6 | 30.9 | 29.2 | 23.1 | 18.8 | 13.5 | 30.7 | 1.4 | 30.5 | 29.5 | 28.4 | 22.5 | 17.4 | 11.9 |
| | 57 | 31.6 | 1.2 | 31.6 | 31.6 | 31.6 | 29.2 | 24.0 | 18.9 | 29.5 | 1.4 | 29.5 | 29.5 | 29.5 | 28.3 | 22.7 | 17.0 |
| 1200 | 77 | 39.7 | 1.2 | 29.8 | 22.0 | 14.2 | - | - | - | 36.7 | 1.4 | 28.6 | 20.3 | 12.1 | - | - | - |
| | 72 | 38.0 | 1.2 | 32.2 | 26.2 | 20.1 | 14.0 | - | - | 35.2 | 1.4 | 30.5 | 24.5 | 18.5 | 12.5 | - | - |
| | 67 | 36.2 | 1.2 | 34.6 | 30.3 | 26.0 | 20.0 | 14.0 | - | 33.7 | 1.4 | 32.3 | 28.6 | 24.8 | 18.7 | 12.5 | - |
| | 62 | 34.6 | 1.2 | 34.4 | 33.2 | 32.0 | 25.4 | 20.0 | 13.9 | 32.3 | 1.4 | 32.1 | 31.7 | 31.2 | 24.6 | 18.6 | 12.3 |
| | 57 | 33.0 | 1.2 | 33.0 | 33.0 | 33.0 | 31.9 | 26.0 | 20.0 | 30.9 | 1.4 | 30.9 | 30.9 | 30.9 | 30.9 | 24.7 | 18.2 |
| 1350 | 72 | 39.1 | 1.2 | 34.8 | 28.0 | 21.3 | 14.5 | - | - | 36.4 | 1.4 | 32.9 | 26.2 | 19.5 | 12.8 | - | - |
| | 67 | 38.1 | 1.2 | 36.4 | 32.2 | 28.0 | 21.2 | 14.5 | - | 35.4 | 1.4 | 33.9 | 30.3 | 26.7 | 19.8 | 12.9 | - |
| | 62 | 36.3 | 1.2 | 36.1 | 35.4 | 34.8 | 27.7 | 21.2 | 14.4 | 33.9 | 1.4 | 33.8 | 33.8 | 33.8 | 26.7 | 19.8 | 12.7 |
| | 57 | 34.4 | 1.2 | 34.4 | 34.4 | 34.4 | 34.4 | 27.9 | 21.1 | 32.3 | 1.3 | 32.3 | 32.3 | 32.3 | 32.3 | 26.6 | 19.4 |
| 1500 | 72 | 40.2 | 1.2 | - | 29.9 | 22.4 | 15.0 | - | - | 37.5 | 1.3 | - | 28.0 | 20.6 | 13.1 | - | - |
| | 67 | 40.0 | 1.2 | - | 34.0 | 30.0 | 22.5 | 14.9 | - | 37.1 | 1.3 | - | 32.1 | 28.6 | 21.0 | 13.4 | - |
| | 62 | 37.9 | 1.1 | - | 37.7 | 37.5 | 29.9 | 22.4 | 14.8 | 35.5 | 1.3 | - | 35.4 | 35.4 | 28.8 | 21.0 | 13.1 |
| | 57 | 35.9 | 1.1 | - | 35.9 | 35.9 | 35.9 | 29.8 | 22.2 | 33.8 | 1.3 | - | 33.8 | 33.8 | 33.8 | 28.6 | 20.5 |
| | | 95°F | | | | | | | | 105°F | | | | | | | |
| 750 | 77 | 31.4 | 1.6 | 17.3 | 13.6 | 9.9 | - | - | - | 27.8 | 1.9 | 18.0 | 13.9 | 9.9 | - | - | - |
| | 72 | 29.0 | 1.6 | 21.5 | 17.8 | 14.0 | 10.2 | - | - | 26.1 | 1.9 | 20.7 | 17.0 | 13.3 | 9.6 | - | - |
| | 67 | 26.7 | 1.6 | 25.7 | 21.9 | 18.1 | 14.1 | 10.0 | - | 24.6 | 1.9 | 23.5 | 20.1 | 16.7 | 12.7 | 8.8 | - |
| | 62 | 25.6 | 1.6 | 25.4 | 23.8 | 22.2 | 17.9 | 13.7 | 9.4 | 24.1 | 1.9 | 23.3 | 21.7 | 20.1 | 15.9 | 11.8 | 7.6 |
| 900 | 77 | 32.2 | 1.6 | 20.7 | 15.3 | 9.9 | - | - | - | 28.4 | 1.9 | 20.5 | 14.9 | 9.3 | - | - | - |
| | 72 | 30.2 | 1.6 | 23.9 | 19.4 | 14.9 | 10.4 | - | - | 27.2 | 1.9 | 22.7 | 18.2 | 13.8 | 9.3 | - | - |
| | 67 | 28.2 | 1.6 | 27.2 | 23.5 | 19.9 | 15.2 | 10.4 | - | 26.0 | 1.9 | 24.8 | 21.5 | 18.3 | 13.7 | 9.0 | - |
| | 62 | 27.1 | 1.6 | 26.9 | 25.9 | 24.9 | 19.9 | 14.8 | 9.8 | 25.3 | 1.9 | 24.7 | 23.7 | 22.8 | 18.0 | 13.2 | 8.4 |
| | 57 | 25.9 | 1.6 | 25.9 | 25.9 | 25.9 | 24.6 | 19.3 | 14.0 | 24.6 | 1.9 | 24.5 | 24.5 | 24.5 | 22.3 | 17.4 | 12.5 |
| 1050 | 77 | 32.9 | 1.6 | 24.0 | 17.0 | 10.0 | - | - | - | 29.1 | 1.9 | 23.0 | 15.8 | 8.6 | - | - | - |
| | 72 | 31.3 | 1.6 | 26.3 | 21.1 | 15.9 | 10.7 | - | - | 28.3 | 1.9 | 24.6 | 19.4 | 14.2 | 9.0 | - | - |
| | 67 | 29.7 | 1.6 | 28.6 | 25.2 | 21.8 | 16.2 | 10.7 | - | 27.4 | 1.9 | 26.1 | 23.0 | 19.8 | 14.6 | 9.3 | - |
| | 62 | 28.5 | 1.6 | 28.4 | 28.0 | 27.6 | 21.8 | 16.0 | 10.2 | 26.5 | 1.8 | 26.0 | 25.7 | 25.5 | 20.1 | 14.7 | 9.2 |
| | 57 | 27.4 | 1.6 | 27.4 | 27.4 | 27.4 | 27.4 | 21.3 | 15.2 | 25.6 | 1.8 | 25.6 | 25.6 | 25.6 | 25.3 | 19.5 | 13.7 |
| 1200 | 77 | 33.7 | 1.6 | 27.4 | 18.7 | 10.0 | - | - | - | 29.7 | 1.9 | 25.6 | 16.8 | 7.9 | - | - | - |
| | 72 | 32.5 | 1.6 | 28.7 | 22.8 | 16.8 | 10.9 | - | - | 29.5 | 1.8 | 26.5 | 20.6 | 14.7 | 8.8 | - | - |
| | 67 | 31.2 | 1.6 | 30.0 | 26.8 | 23.6 | 17.3 | 11.1 | - | 28.8 | 1.8 | 27.4 | 24.4 | 21.4 | 15.5 | 9.5 | - |
| | 62 | 30.0 | 1.6 | 29.9 | 29.9 | 29.9 | 23.8 | 17.2 | 10.6 | 27.7 | 1.8 | 27.3 | 27.3 | 27.3 | 22.1 | 16.1 | 10.0 |
| | 57 | 28.8 | 1.6 | 28.8 | 28.8 | 28.8 | 28.8 | 23.4 | 16.5 | 26.6 | 1.8 | 26.6 | 26.6 | 26.6 | 26.6 | 21.6 | 15.0 |
| 1350 | 72 | 33.6 | 1.6 | 31.1 | 24.4 | 17.8 | 11.1 | - | - | 30.6 | 1.8 | 28.4 | 21.8 | 15.2 | 8.5 | - | - |
| | 67 | 32.8 | 1.6 | 31.5 | 28.5 | 25.4 | 18.4 | 11.4 | - | 30.2 | 1.8 | 28.7 | 25.8 | 23.0 | 16.4 | 9.7 | - |
| | 62 | 31.5 | 1.5 | 31.4 | 31.4 | 31.4 | 25.7 | 18.4 | 11.1 | 28.9 | 1.8 | 28.6 | 28.6 | 28.6 | 24.2 | 17.5 | 10.8 |
| | 57 | 30.2 | 1.5 | 30.2 | 30.2 | 30.2 | 30.2 | 25.4 | 17.7 | 27.7 | 1.8 | 27.7 | 27.7 | 27.7 | 27.7 | 23.7 | 16.2 |
| 1500 | 72 | 34.8 | 1.5 | - | 26.1 | 18.7 | 11.3 | - | - | 31.7 | 1.8 | - | 23.0 | 15.6 | 8.3 | - | - |
| | 67 | 34.3 | 1.5 | - | 30.1 | 27.3 | 19.5 | 11.8 | - | 31.6 | 1.8 | - | 27.3 | 24.6 | 17.3 | 9.9 | - |
| | 62 | 33.0 | 1.5 | - | 32.9 | 32.9 | 27.7 | 19.6 | 11.5 | 30.1 | 1.8 | - | 30.0 | 30.0 | 26.3 | 18.9 | 11.6 |
| | 57 | 31.7 | 1.5 | - | 31.7 | 31.7 | 31.7 | 27.4 | 18.9 | 28.7 | 1.8 | - | 28.7 | 28.7 | 28.7 | 25.9 | 17.5 |

## JA3ZT Low Speed Compressor (3.0 Ton) (Continued)

| Air on Evaporator Coil | | Temperature of Air on Condenser Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total Capacity[1] (MBh) | Total Input (kW)[2] | Sensible Capacity (MBh) | | | | | | Total Capacity[1] (MBh) | Total Input (kW)[2] | 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 | | | | | | | |
| 750 | 77 | 24.2 | 2.2 | 18.6 | 14.3 | 9.9 | - | - | - | 20.5 | 2.5 | 19.3 | 14.6 | 10.0 | - | - | - |
| | 72 | 23.1 | 2.2 | 20.0 | 16.3 | 12.6 | 8.9 | - | - | 20.1 | 2.5 | 19.2 | 15.6 | 11.9 | 8.3 | - | - |
| | 67 | 22.5 | 2.2 | 21.3 | 18.3 | 15.3 | 11.4 | 7.6 | - | 20.4 | 2.4 | 19.1 | 16.5 | 13.9 | 10.1 | 6.4 | - |
| | 62 | 22.5 | 2.1 | 21.3 | 19.6 | 18.0 | 13.9 | 9.9 | 5.9 | 21.0 | 2.4 | 19.2 | 17.5 | 15.8 | 11.9 | 8.0 | 4.1 |
| 900 | 77 | 24.7 | 2.2 | 20.3 | 14.5 | 8.6 | - | - | - | 20.9 | 2.5 | - | 14.0 | 7.9 | - | - | - |
| | 72 | 24.2 | 2.2 | 21.4 | 17.0 | 12.6 | 8.2 | - | - | 21.2 | 2.4 | - | 15.8 | 11.4 | 7.1 | - | - |
| | 67 | 23.7 | 2.1 | 22.4 | 19.5 | 16.6 | 12.2 | 7.7 | - | 21.5 | 2.4 | - | 17.5 | 15.0 | 10.7 | 6.3 | - |
| | 62 | 23.5 | 2.1 | 22.4 | 21.5 | 20.6 | 16.1 | 11.6 | 7.1 | 21.7 | 2.4 | - | 19.3 | 18.5 | 14.2 | 10.0 | 5.7 |
| | 57 | 23.2 | 2.1 | 22.4 | 22.4 | 22.4 | 20.1 | 15.5 | 10.9 | 21.9 | 2.4 | - | 20.3 | 20.3 | 17.8 | 13.6 | 9.4 |
| 1050 | 77 | 25.2 | 2.2 | 22.1 | 14.6 | 7.2 | - | - | - | 21.3 | 2.4 | 21.1 | 13.5 | 5.8 | - | - | - |
| | 72 | 25.3 | 2.1 | 22.8 | 17.7 | 12.6 | 7.4 | - | - | 22.3 | 2.4 | 21.1 | 16.0 | 10.9 | 5.8 | - | - |
| | 67 | 25.0 | 2.1 | 23.6 | 20.8 | 17.9 | 12.9 | 7.8 | - | 22.7 | 2.4 | 21.1 | 18.6 | 16.0 | 11.2 | 6.3 | - |
| | 62 | 24.4 | 2.1 | 23.6 | 23.4 | 23.3 | 18.3 | 13.3 | 8.3 | 22.4 | 2.4 | 21.2 | 21.2 | 21.1 | 16.5 | 11.9 | 7.3 |
| | 57 | 23.9 | 2.1 | 23.6 | 23.6 | 23.6 | 23.2 | 17.7 | 12.2 | 22.1 | 2.4 | 21.3 | 21.3 | 21.3 | 21.1 | 15.9 | 10.7 |
| 1200 | 77 | 25.7 | 2.1 | 23.8 | 14.8 | 5.8 | - | - | - | 21.7 | 2.4 | 21.7 | 12.9 | 3.7 | - | - | - |
| | 72 | 26.5 | 2.1 | 24.3 | 18.4 | 12.6 | 6.7 | - | - | 23.5 | 2.4 | 22.0 | 16.2 | 10.4 | 4.6 | - | - |
| | 67 | 26.3 | 2.1 | 24.7 | 22.0 | 19.3 | 13.6 | 7.9 | - | 23.8 | 2.4 | 22.1 | 19.6 | 17.1 | 11.7 | 6.3 | - |
| | 62 | 25.4 | 2.1 | 24.7 | 24.7 | 24.7 | 20.5 | 15.0 | 9.4 | 23.1 | 2.4 | 22.2 | 22.2 | 22.2 | 18.8 | 13.8 | 8.8 |
| | 57 | 24.5 | 2.1 | 24.5 | 24.5 | 24.5 | 24.5 | 19.9 | 13.5 | 22.3 | 2.4 | 22.3 | 22.3 | 22.3 | 22.3 | 18.2 | 12.0 |
| 1350 | 72 | 27.6 | 2.1 | 25.7 | 19.1 | 12.5 | 6.0 | - | - | 24.6 | 2.4 | 23.0 | 16.5 | 9.9 | 3.4 | - | - |
| | 67 | 27.5 | 2.1 | 25.9 | 23.2 | 20.6 | 14.3 | 8.0 | - | 24.9 | 2.4 | 23.1 | 20.6 | 18.2 | 12.2 | 6.3 | - |
| | 62 | 26.3 | 2.1 | 25.9 | 25.9 | 25.9 | 22.7 | 16.6 | 10.6 | 23.7 | 2.4 | 23.2 | 23.2 | 23.2 | 21.1 | 15.8 | 10.4 |
| | 57 | 25.1 | 2.1 | 25.1 | 25.1 | 25.1 | 25.1 | 22.1 | 14.8 | 22.5 | 2.4 | 22.5 | 22.5 | 22.5 | 22.5 | 20.5 | 13.3 |
| 1500 | 72 | 28.7 | 2.1 | - | 19.8 | 12.5 | 5.2 | - | - | 25.7 | 2.4 | - | - | - | - | - | - |
| | 67 | 28.8 | 2.1 | - | 24.5 | 21.9 | 15.0 | 8.1 | - | 26.1 | 2.4 | - | - | - | - | - | - |
| | 62 | 27.3 | 2.1 | - | 27.1 | 27.1 | 24.8 | 18.3 | 11.8 | 24.4 | 2.4 | - | - | - | - | - | - |
| | 57 | 25.7 | 2.1 | - | 25.7 | 25.7 | 25.7 | 24.3 | 16.1 | 22.7 | 2.4 | - | - | - | - | - | - |

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 condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## JA4ZT High Speed Compressor (4.0 Ton)

| Air on Evaporator Coil | | Temperature of Air on Condenser Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sensible Capacity (MBh) | | | | | | | | Sensible Capacity (MBh) | | | | | |
| CFM | WB (°F) | Total Capacity[1] (MBh) | Total Input (kW)[2] | Return Dry Bulb (°F) | | | | | | Total Capacity[1] (MBh) | Total Input (kW)[2] | Return Dry Bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 1000 | 77 | 67.2 | 2.6 | 32.6 | 27.0 | 21.4 | - | - | - | 64.1 | 2.9 | 29.5 | 24.7 | 19.8 | - | - | - |
| | 72 | 60.1 | 2.5 | 38.7 | 33.3 | 27.9 | 22.5 | - | - | 57.1 | 2.8 | 36.6 | 31.4 | 26.2 | 21.0 | - | - |
| | 67 | 53.1 | 2.5 | 44.8 | 39.6 | 34.5 | 27.9 | 22.6 | - | 50.0 | 2.8 | 43.6 | 38.1 | 32.6 | 26.6 | 21.3 | - |
| | 62 | 49.5 | 2.5 | 49.4 | 45.2 | 41.0 | 32.4 | 28.1 | 21.7 | 47.4 | 2.8 | 47.3 | 43.1 | 39.0 | 31.8 | 26.7 | 20.6 |
| 1200 | 77 | 67.6 | 2.6 | 35.7 | 28.7 | 21.7 | - | - | - | 64.0 | 2.9 | 33.6 | 26.9 | 20.2 | - | - | - |
| | 72 | 61.3 | 2.6 | 42.0 | 35.6 | 29.3 | 22.9 | - | - | 57.9 | 2.9 | 40.1 | 33.8 | 27.5 | 21.3 | - | - |
| | 67 | 54.9 | 2.5 | 48.2 | 42.5 | 36.8 | 29.4 | 23.1 | - | 51.8 | 2.8 | 46.7 | 40.8 | 34.9 | 28.0 | 21.6 | - |
| | 62 | 52.1 | 2.5 | 52.0 | 48.1 | 44.3 | 35.3 | 29.7 | 22.5 | 49.8 | 2.8 | 49.7 | 46.0 | 42.3 | 34.4 | 28.3 | 21.3 |
| | 57 | 49.2 | 2.5 | 49.2 | 49.2 | 49.2 | 44.1 | 36.3 | 28.6 | 47.9 | 2.8 | 47.9 | 47.9 | 47.9 | 42.3 | 34.9 | 27.5 |
| 1400 | 77 | 68.0 | 2.6 | 38.8 | 30.5 | 22.1 | - | - | - | 63.8 | 2.9 | 37.6 | 29.1 | 20.5 | - | - | - |
| | 72 | 62.4 | 2.6 | 45.2 | 37.9 | 30.6 | 23.3 | - | - | 58.7 | 2.9 | 43.6 | 36.3 | 28.9 | 21.5 | - | - |
| | 67 | 56.8 | 2.5 | 51.7 | 45.4 | 39.1 | 30.9 | 23.6 | - | 53.7 | 2.8 | 49.7 | 43.4 | 37.2 | 29.4 | 22.0 | - |
| | 62 | 54.7 | 2.5 | 54.5 | 51.0 | 47.6 | 38.2 | 31.3 | 23.2 | 52.3 | 2.8 | 52.1 | 48.8 | 45.6 | 37.0 | 29.8 | 21.9 |
| | 57 | 52.6 | 2.5 | 52.6 | 52.6 | 52.6 | 47.5 | 39.0 | 30.5 | 50.9 | 2.8 | 50.9 | 50.9 | 50.9 | 45.8 | 37.6 | 29.5 |
| 1600 | 77 | 68.4 | 2.7 | 41.9 | 32.2 | 22.5 | - | - | - | 63.7 | 2.9 | 41.6 | 31.2 | 20.9 | - | - | - |
| | 72 | 63.5 | 2.6 | 48.5 | 40.2 | 31.9 | 23.6 | - | - | 59.6 | 2.9 | 47.1 | 38.7 | 30.2 | 21.7 | - | - |
| | 67 | 58.6 | 2.6 | 55.1 | 48.2 | 41.4 | 32.5 | 24.1 | - | 55.5 | 2.9 | 52.7 | 46.1 | 39.6 | 30.8 | 22.3 | - |
| | 62 | 57.3 | 2.6 | 57.1 | 54.0 | 50.8 | 41.0 | 32.9 | 24.0 | 54.7 | 2.8 | 54.4 | 51.7 | 48.9 | 39.7 | 31.3 | 22.5 |
| | 57 | 56.0 | 2.5 | 56.0 | 56.0 | 56.0 | 51.0 | 41.7 | 32.5 | 54.0 | 2.8 | 54.0 | 54.0 | 54.0 | 49.3 | 40.4 | 31.4 |
| 1800 | 72 | 64.6 | 2.7 | 51.8 | 42.5 | 33.2 | 24.0 | - | - | 60.4 | 2.9 | 50.7 | 41.1 | 31.5 | 22.0 | - | - |
| | 67 | 60.4 | 2.6 | 58.5 | 51.1 | 43.7 | 34.0 | 24.6 | - | 57.3 | 2.9 | 55.7 | 48.8 | 41.9 | 32.2 | 22.6 | - |
| | 62 | 59.9 | 2.6 | 59.7 | 56.9 | 54.1 | 43.9 | 34.5 | 24.7 | 57.2 | 2.9 | 56.8 | 54.5 | 52.2 | 42.3 | 32.9 | 23.2 |
| | 57 | 59.4 | 2.6 | 59.2 | 59.2 | 59.2 | 54.5 | 44.4 | 34.4 | 57.1 | 2.8 | 57.1 | 57.1 | 57.1 | 52.8 | 43.1 | 33.3 |
| 2000 | 72 | 65.7 | 2.7 | 55.1 | 44.8 | 34.6 | 24.3 | - | - | 61.2 | 2.9 | 54.2 | 43.5 | 32.9 | 22.2 | - | - |
| | 67 | 62.2 | 2.6 | 61.9 | 54.0 | 46.0 | 35.5 | 25.1 | - | 59.2 | 2.9 | 58.7 | 51.5 | 44.2 | 33.6 | 23.0 | - |
| | 62 | 62.5 | 2.6 | 62.2 | 59.8 | 57.4 | 46.8 | 36.1 | 25.5 | 59.6 | 2.9 | 59.2 | 57.4 | 55.5 | 45.0 | 34.4 | 23.8 |
| | 57 | 62.8 | 2.6 | 62.5 | 62.5 | 62.5 | 58.0 | 47.2 | 36.3 | 60.1 | 2.9 | 59.7 | 59.7 | 59.7 | 56.3 | 45.8 | 35.3 |
| | | 95°F | | | | | | | | 105°F | | | | | | | |
| 1000 | 77 | 61.1 | 3.2 | 26.5 | 22.4 | 18.3 | - | - | - | 55.6 | 3.6 | 25.0 | 21.0 | 17.1 | - | - | - |
| | 72 | 54.0 | 3.1 | 34.5 | 29.5 | 24.5 | 19.5 | - | - | 49.9 | 3.6 | 33.1 | 28.1 | 23.0 | 18.0 | - | - |
| | 67 | 46.8 | 3.1 | 42.5 | 36.6 | 30.7 | 25.3 | 19.9 | - | 44.2 | 3.5 | 41.3 | 35.1 | 28.9 | 23.6 | 18.2 | - |
| | 62 | 45.3 | 3.1 | 45.2 | 41.1 | 36.9 | 31.1 | 25.3 | 19.6 | 42.9 | 3.6 | 42.8 | 38.8 | 34.9 | 29.2 | 23.5 | 17.9 |
| 1200 | 77 | 60.3 | 3.2 | 31.4 | 25.0 | 18.6 | - | - | - | 55.2 | 3.6 | 29.8 | 23.4 | 17.1 | - | - | - |
| | 72 | 54.5 | 3.2 | 38.3 | 32.0 | 25.8 | 19.6 | - | - | 50.5 | 3.6 | 36.6 | 30.4 | 24.2 | 18.0 | - | - |
| | 67 | 48.7 | 3.1 | 45.1 | 39.1 | 33.0 | 26.6 | 20.1 | - | 45.9 | 3.6 | 43.4 | 37.3 | 31.3 | 24.8 | 18.3 | - |
| | 62 | 47.6 | 3.1 | 47.4 | 43.8 | 40.3 | 33.5 | 26.8 | 20.1 | 45.0 | 3.6 | 44.8 | 41.6 | 38.3 | 31.6 | 24.9 | 18.2 |
| | 57 | 46.5 | 3.1 | 46.5 | 46.5 | 46.5 | 40.5 | 33.5 | 26.5 | 44.0 | 3.6 | 44.0 | 44.0 | 44.0 | 38.5 | 31.5 | 24.6 |
| 1400 | 77 | 59.6 | 3.2 | 36.4 | 27.6 | 18.9 | - | - | - | 54.7 | 3.6 | 34.6 | 25.8 | 17.1 | - | - | - |
| | 72 | 55.1 | 3.2 | 42.0 | 34.6 | 27.2 | 19.7 | - | - | 51.2 | 3.6 | 40.0 | 32.7 | 25.3 | 17.9 | - | - |
| | 67 | 50.5 | 3.1 | 47.7 | 41.5 | 35.4 | 27.8 | 20.3 | - | 47.6 | 3.6 | 45.5 | 39.6 | 33.6 | 26.0 | 18.5 | - |
| | 62 | 49.9 | 3.1 | 49.6 | 46.6 | 43.6 | 35.9 | 28.3 | 20.6 | 47.1 | 3.6 | 46.7 | 44.3 | 41.8 | 34.1 | 26.3 | 18.6 |
| | 57 | 49.2 | 3.1 | 49.2 | 49.2 | 49.2 | 44.0 | 36.2 | 28.4 | 46.6 | 3.6 | 46.6 | 46.6 | 46.6 | 42.2 | 34.2 | 26.3 |
| 1600 | 77 | 58.9 | 3.2 | 41.3 | 30.3 | 19.2 | - | - | - | 54.3 | 3.6 | 39.4 | 28.2 | 17.0 | - | - | - |
| | 72 | 55.6 | 3.2 | 45.8 | 37.1 | 28.5 | 19.8 | - | - | 51.8 | 3.6 | 43.5 | 35.0 | 26.5 | 17.9 | - | - |
| | 67 | 52.4 | 3.2 | 50.3 | 44.0 | 37.7 | 29.1 | 20.4 | - | 49.3 | 3.6 | 47.7 | 41.8 | 35.9 | 27.2 | 18.6 | - |
| | 62 | 52.2 | 3.1 | 51.8 | 49.4 | 47.0 | 38.3 | 29.7 | 21.1 | 49.2 | 3.6 | 48.7 | 47.0 | 45.3 | 36.5 | 27.8 | 19.0 |
| | 57 | 52.0 | 3.1 | 52.0 | 52.0 | 52.0 | 47.6 | 39.0 | 30.4 | 49.1 | 3.6 | 49.1 | 49.1 | 49.1 | 45.8 | 36.9 | 28.0 |
| 1800 | 72 | 56.2 | 3.2 | 49.6 | 39.7 | 29.8 | 19.9 | - | - | 52.5 | 3.6 | 47.0 | 37.3 | 27.6 | 17.9 | - | - |
| | 67 | 54.3 | 3.2 | 52.9 | 46.5 | 40.1 | 30.3 | 20.6 | - | 51.0 | 3.6 | 49.8 | 44.0 | 38.2 | 28.5 | 18.7 | - |
| | 62 | 54.5 | 3.2 | 54.0 | 52.2 | 50.3 | 40.8 | 31.2 | 21.6 | 51.3 | 3.6 | 50.7 | 49.7 | 48.8 | 39.0 | 29.2 | 19.4 |
| | 57 | 54.8 | 3.1 | 54.8 | 54.8 | 54.8 | 51.2 | 41.7 | 32.3 | 51.6 | 3.6 | 51.6 | 51.6 | 51.6 | 49.5 | 39.6 | 29.7 |
| 2000 | 72 | 56.8 | 3.2 | - | 42.2 | 31.1 | 20.1 | - | - | 53.1 | 3.6 | 50.4 | 39.6 | 28.8 | 17.9 | - | - |
| | 67 | 56.1 | 3.2 | 55.5 | 48.9 | 42.4 | 31.6 | 20.8 | - | 52.7 | 3.6 | 51.9 | 46.2 | 40.5 | 29.7 | 18.8 | - |
| | 62 | 56.8 | 3.2 | 56.2 | 54.9 | 53.7 | 43.2 | 32.6 | 22.1 | 53.4 | 3.6 | 52.6 | 52.4 | 52.2 | 41.4 | 30.6 | 19.7 |
| | 57 | 57.5 | 3.2 | 56.9 | 56.9 | 56.9 | 54.7 | 44.5 | 34.2 | 54.2 | 3.6 | 53.4 | 53.4 | 53.4 | 53.1 | 42.3 | 31.4 |

## JA4ZT High Speed Compressor (4.0 Ton) (Continued)

| Air on Evaporator Coil | | Temperature of Air on Condenser Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sensible Capacity (MBh) | | | | | | | | Sensible Capacity (MBh) | | | | | |
| CFM | WB (°F) | Total Capacity[1] (MBh) | Total Input (kW)[2] | Return Dry Bulb (°F) | | | | | | Total Capacity[1] (MBh) | Total Input (kW)[2] | Return Dry Bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 115°F | | | | | | | | 125°F | | | | | | | |
| 1000 | 77 | 50.2 | 4.1 | 23.4 | 19.6 | 15.9 | - | - | - | 44.7 | 4.5 | 21.9 | 18.3 | 14.6 | - | - | - |
| | 72 | 45.9 | 4.0 | 31.8 | 26.6 | 21.5 | 16.4 | - | - | 41.8 | 4.5 | 30.4 | 25.2 | 20.0 | 14.9 | - | - |
| | 67 | 41.6 | 4.0 | 40.1 | 33.7 | 27.2 | 21.9 | 16.5 | - | 39.0 | 4.4 | 38.9 | 32.2 | 25.4 | 20.1 | 14.8 | - |
| | 62 | 40.4 | 4.0 | 40.4 | 36.6 | 32.9 | 27.3 | 21.7 | 16.2 | 38.0 | 4.5 | 37.9 | 34.4 | 30.8 | 25.4 | 19.9 | 14.5 |
| 1200 | 77 | 50.0 | 4.1 | 28.1 | 21.8 | 15.5 | - | - | - | 44.9 | 4.5 | 26.4 | 20.2 | 14.0 | - | - | - |
| | 72 | 46.6 | 4.0 | 34.9 | 28.7 | 22.5 | 16.3 | - | - | 42.6 | 4.5 | 33.2 | 27.0 | 20.8 | 14.6 | - | - |
| | 67 | 43.1 | 4.0 | 41.8 | 35.6 | 29.5 | 23.0 | 16.6 | - | 40.4 | 4.4 | 40.1 | 33.9 | 27.7 | 21.3 | 14.8 | - |
| | 62 | 42.4 | 4.0 | 42.1 | 39.3 | 36.4 | 29.8 | 23.1 | 16.4 | 39.7 | 4.5 | 39.5 | 37.0 | 34.5 | 27.9 | 21.2 | 14.6 |
| | 57 | 41.6 | 4.1 | 41.6 | 41.6 | 41.6 | 36.5 | 29.6 | 22.7 | 39.1 | 4.6 | 38.8 | 38.8 | 38.8 | 34.5 | 27.6 | 20.8 |
| 1400 | 77 | 49.9 | 4.1 | 32.7 | 24.0 | 15.2 | - | - | - | 45.0 | 4.5 | 30.9 | 22.1 | 13.3 | - | - | - |
| | 72 | 47.3 | 4.0 | 38.1 | 30.8 | 23.5 | 16.2 | - | - | 43.4 | 4.5 | 36.1 | 28.9 | 21.6 | 14.4 | - | - |
| | 67 | 44.7 | 4.0 | 43.4 | 37.6 | 31.8 | 24.2 | 16.7 | - | 41.7 | 4.5 | 41.2 | 35.6 | 29.9 | 22.4 | 14.9 | - |
| | 62 | 44.3 | 4.0 | 43.9 | 41.9 | 40.0 | 32.2 | 24.4 | 16.6 | 41.5 | 4.5 | 41.0 | 39.6 | 38.2 | 30.4 | 22.5 | 14.7 |
| | 57 | 43.9 | 4.1 | 43.9 | 43.9 | 43.9 | 40.3 | 32.2 | 24.2 | 41.2 | 4.6 | 40.7 | 40.7 | 40.7 | 38.4 | 30.2 | 22.1 |
| 1600 | 77 | 49.7 | 4.1 | 37.4 | 26.1 | 14.9 | - | - | - | 45.2 | 4.5 | 35.5 | 24.1 | 12.7 | - | - | - |
| | 72 | 48.0 | 4.1 | 41.2 | 32.8 | 24.4 | 16.1 | - | - | 44.2 | 4.5 | 38.9 | 30.7 | 22.4 | 14.2 | - | - |
| | 67 | 46.2 | 4.0 | 45.0 | 39.5 | 34.0 | 25.4 | 16.7 | - | 43.1 | 4.5 | 42.4 | 37.3 | 32.2 | 23.5 | 14.9 | - |
| | 62 | 46.2 | 4.0 | 45.6 | 44.6 | 43.6 | 34.7 | 25.8 | 16.9 | 43.2 | 4.5 | 42.5 | 42.2 | 41.9 | 32.9 | 23.8 | 14.8 |
| | 57 | 46.2 | 4.1 | 46.2 | 46.2 | 46.2 | 44.0 | 34.9 | 25.7 | 43.3 | 4.5 | 42.6 | 42.6 | 42.6 | 42.3 | 32.8 | 23.3 |
| 1800 | 72 | 48.7 | 4.1 | 44.4 | 34.9 | 25.4 | 15.9 | - | - | 45.0 | 4.5 | 41.8 | 32.5 | 23.2 | 13.9 | - | - |
| | 67 | 47.7 | 4.1 | 46.7 | 41.5 | 36.3 | 26.6 | 16.8 | - | 44.5 | 4.5 | 43.5 | 39.0 | 34.4 | 24.7 | 14.9 | - |
| | 62 | 48.1 | 4.1 | 47.3 | 47.3 | 47.2 | 37.2 | 27.1 | 17.1 | 45.0 | 4.5 | 44.0 | 44.0 | 44.0 | 35.4 | 25.1 | 14.9 |
| | 57 | 48.5 | 4.1 | 48.0 | 48.0 | 48.0 | 47.8 | 37.5 | 27.2 | 45.4 | 4.5 | 44.5 | 44.5 | 44.5 | 44.5 | 35.4 | 24.6 |
| 2000 | 72 | 49.5 | 4.1 | 47.5 | 37.0 | 26.4 | 15.8 | - | - | 45.8 | 4.5 | - | 34.3 | 24.0 | 13.7 | - | - |
| | 67 | 49.3 | 4.1 | 48.3 | 43.4 | 38.6 | 27.7 | 16.9 | - | 45.9 | 4.5 | - | 40.7 | 36.7 | 25.8 | 14.9 | - |
| | 62 | 50.1 | 4.1 | 49.1 | 49.1 | 49.1 | 39.6 | 28.5 | 17.4 | 46.7 | 4.5 | - | 45.5 | 45.5 | 37.9 | 26.4 | 15.0 |
| | 57 | 50.9 | 4.0 | 49.9 | 49.9 | 49.9 | 49.9 | 40.1 | 28.7 | 47.6 | 4.5 | - | 46.4 | 46.4 | 46.4 | 38.0 | 25.9 |

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 condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## JA4ZT Low Speed Compressor (4.0 Ton)

| Air on Evaporator Coil | | Temperature of Air on Condenser Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total Capacity[1] (MBh) | Total Input (kW)[2] | Sensible Capacity (MBh) | | | | | | Total Capacity[1] (MBh) | Total Input (kW)[2] | 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 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 1000 | 77 | 53.1 | 1.6 | 27.6 | 22.9 | 18.3 | - | - | - | 48.3 | 1.9 | 27.7 | 22.3 | 17.0 | - | - | - |
| | 72 | 46.5 | 1.6 | 33.7 | 28.4 | 23.1 | 17.8 | - | - | 43.0 | 1.9 | 32.7 | 27.2 | 21.8 | 16.4 | - | - |
| | 67 | 39.9 | 1.7 | 39.9 | 34.0 | 28.0 | 22.3 | 17.6 | - | 37.7 | 1.9 | 37.7 | 32.2 | 26.6 | 21.1 | 16.1 | - |
| | 62 | 40.1 | 1.7 | 40.0 | 36.4 | 32.9 | 25.3 | 22.6 | 17.5 | 37.6 | 1.9 | 37.6 | 34.5 | 31.5 | 25.1 | 21.2 | 16.0 |
| 1200 | 77 | 52.8 | 1.6 | 31.9 | 24.7 | 17.5 | - | - | - | 48.1 | 1.9 | 31.4 | 23.7 | 16.0 | - | - | - |
| | 72 | 47.4 | 1.6 | 36.9 | 30.5 | 24.0 | 17.6 | - | - | 43.8 | 1.9 | 35.4 | 29.0 | 22.5 | 16.1 | - | - |
| | 67 | 41.9 | 1.6 | 41.9 | 36.2 | 30.5 | 23.7 | 17.6 | - | 39.5 | 1.9 | 39.4 | 34.3 | 29.1 | 22.5 | 16.2 | - |
| | 62 | 42.1 | 1.6 | 42.0 | 39.5 | 37.0 | 28.6 | 24.1 | 17.7 | 39.5 | 1.9 | 39.4 | 37.6 | 35.7 | 28.2 | 22.7 | 16.2 |
| | 57 | 42.3 | 1.7 | 42.2 | 42.2 | 42.2 | 37.1 | 30.6 | 24.2 | 39.6 | 1.9 | 39.5 | 39.5 | 39.5 | 35.7 | 29.2 | 22.6 |
| 1400 | 77 | 52.5 | 1.6 | 36.3 | 26.5 | 16.8 | - | - | - | 47.9 | 1.9 | 35.1 | 25.0 | 14.9 | - | - | - |
| | 72 | 48.2 | 1.6 | 40.1 | 32.5 | 24.9 | 17.3 | - | - | 44.6 | 1.9 | 38.1 | 30.7 | 23.2 | 15.8 | - | - |
| | 67 | 44.0 | 1.6 | 43.8 | 38.4 | 33.0 | 25.1 | 17.7 | - | 41.3 | 1.9 | 41.1 | 36.4 | 31.6 | 23.8 | 16.3 | - |
| | 62 | 44.2 | 1.6 | 44.1 | 42.6 | 41.1 | 32.0 | 25.7 | 18.0 | 41.5 | 1.9 | 41.3 | 40.6 | 39.9 | 31.3 | 24.2 | 16.3 |
| | 57 | 44.3 | 1.6 | 44.3 | 44.3 | 44.3 | 41.5 | 33.6 | 25.8 | 41.6 | 1.9 | 41.4 | 41.4 | 41.4 | 40.2 | 32.1 | 24.0 |
| 1600 | 77 | 52.2 | 1.6 | 40.6 | 28.4 | 16.1 | - | - | - | 47.8 | 1.9 | 38.8 | 26.3 | 13.9 | - | - | - |
| | 72 | 49.1 | 1.6 | 43.2 | 34.5 | 25.8 | 17.1 | - | - | 45.4 | 1.9 | 40.8 | 32.4 | 24.0 | 15.5 | - | - |
| | 67 | 46.1 | 1.6 | 45.8 | 40.7 | 35.6 | 26.5 | 17.8 | - | 43.0 | 1.9 | 42.9 | 38.5 | 34.1 | 25.1 | 16.4 | - |
| | 62 | 46.2 | 1.6 | 46.1 | 45.7 | 45.3 | 35.3 | 27.2 | 18.2 | 43.4 | 1.9 | 43.1 | 43.1 | 43.1 | 34.4 | 25.7 | 16.5 |
| | 57 | 46.3 | 1.6 | 46.3 | 46.3 | 46.3 | 45.8 | 36.7 | 27.5 | 43.7 | 1.9 | 43.4 | 43.4 | 43.4 | 43.4 | 35.0 | 25.4 |
| 1800 | 72 | 50.0 | 1.6 | 46.4 | 36.5 | 26.7 | 16.9 | - | - | 46.2 | 1.9 | 43.6 | 34.1 | 24.7 | 15.2 | - | - |
| | 67 | 48.1 | 1.6 | 47.7 | 42.9 | 38.1 | 27.9 | 17.9 | - | 44.8 | 1.9 | 44.6 | 40.6 | 36.5 | 26.5 | 16.5 | - |
| | 62 | 48.2 | 1.6 | 48.1 | 48.1 | 48.1 | 38.6 | 28.8 | 18.5 | 45.3 | 1.9 | 45.0 | 45.0 | 45.0 | 37.5 | 27.2 | 16.6 |
| | 57 | 48.3 | 1.6 | 48.3 | 48.3 | 48.3 | 48.3 | 39.7 | 29.1 | 45.7 | 1.9 | 45.4 | 45.4 | 45.4 | 45.4 | 37.9 | 26.7 |
| 2000 | 72 | 50.9 | 1.6 | - | 38.6 | 27.6 | 16.6 | - | - | 47.0 | 1.9 | - | 35.8 | 25.4 | 14.9 | - | - |
| | 67 | 50.2 | 1.6 | - | 45.1 | 40.6 | 29.3 | 18.0 | - | 46.6 | 1.9 | - | 42.7 | 39.0 | 27.8 | 16.6 | - |
| | 62 | 50.3 | 1.6 | - | 50.1 | 50.1 | 42.0 | 30.3 | 18.7 | 47.2 | 1.9 | - | 46.8 | 46.8 | 40.7 | 28.7 | 16.7 |
| | 57 | 50.4 | 1.6 | - | 50.4 | 50.4 | 50.4 | 42.7 | 30.7 | 47.8 | 1.9 | - | 47.4 | 47.4 | 47.4 | 40.8 | 28.1 |
| | | 95°F | | | | | | | | 105°F | | | | | | | |
| 1000 | 77 | 43.5 | 2.2 | - | 21.8 | 15.7 | - | - | - | 38.6 | 2.6 | - | 21.3 | 14.4 | - | - | - |
| | 72 | 39.5 | 2.2 | - | 26.1 | 20.5 | 15.0 | - | - | 35.9 | 2.6 | - | 24.9 | 19.3 | 13.6 | - | - |
| | 67 | 35.6 | 2.2 | - | 30.4 | 25.3 | 19.9 | 14.6 | - | 33.2 | 2.6 | - | 28.6 | 24.1 | 18.6 | 13.0 | - |
| | 62 | 35.2 | 2.2 | - | 32.6 | 30.1 | 24.9 | 19.8 | 14.6 | 32.8 | 2.6 | - | 30.9 | 29.0 | 23.5 | 18.1 | 12.7 |
| 1200 | 77 | 43.4 | 2.2 | - | 22.6 | 14.4 | - | - | - | 39.0 | 2.6 | - | 21.7 | 13.0 | - | - | - |
| | 72 | 40.3 | 2.2 | - | 27.5 | 21.0 | 14.6 | - | - | 36.7 | 2.6 | - | 26.0 | 19.5 | 13.1 | - | - |
| | 67 | 37.1 | 2.2 | 36.9 | 32.3 | 27.7 | 21.2 | 14.7 | - | 34.5 | 2.6 | 34.3 | 30.2 | 26.1 | 19.6 | 13.1 | - |
| | 62 | 37.0 | 2.2 | 36.8 | 35.6 | 34.4 | 27.8 | 21.2 | 14.6 | 34.4 | 2.6 | 34.2 | 33.5 | 32.7 | 26.1 | 19.5 | 13.0 |
| | 57 | 36.9 | 2.2 | 36.7 | 36.7 | 36.7 | 34.4 | 27.7 | 21.1 | 34.3 | 2.6 | 34.2 | 34.2 | 34.2 | 32.6 | 26.0 | 19.3 |
| 1400 | 77 | 43.4 | 2.2 | 33.9 | 23.5 | 13.0 | - | - | - | 39.3 | 2.6 | 32.8 | 22.2 | 11.5 | - | - | - |
| | 72 | 41.0 | 2.2 | 36.2 | 28.9 | 21.6 | 14.3 | - | - | 37.5 | 2.6 | 34.2 | 27.0 | 19.8 | 12.6 | - | - |
| | 67 | 38.6 | 2.2 | 38.4 | 34.3 | 30.1 | 22.5 | 14.8 | - | 35.8 | 2.6 | 35.6 | 31.9 | 28.1 | 20.7 | 13.2 | - |
| | 62 | 38.7 | 2.2 | 38.5 | 38.5 | 38.5 | 30.7 | 22.7 | 14.7 | 36.0 | 2.6 | 35.7 | 35.7 | 35.7 | 28.7 | 21.0 | 13.2 |
| | 57 | 38.9 | 2.2 | 38.6 | 38.6 | 38.6 | 38.6 | 30.5 | 22.2 | 36.3 | 2.6 | 35.8 | 35.8 | 35.8 | 35.8 | 28.7 | 20.7 |
| 1600 | 77 | 43.4 | 2.2 | 37.0 | 24.3 | 11.7 | - | - | - | 39.6 | 2.6 | 35.1 | 22.6 | 10.1 | - | - | - |
| | 72 | 41.7 | 2.2 | 38.5 | 30.3 | 22.1 | 13.9 | - | - | 38.3 | 2.6 | 36.1 | 28.1 | 20.1 | 12.1 | - | - |
| | 67 | 40.0 | 2.2 | 39.9 | 36.2 | 32.6 | 23.8 | 14.9 | - | 37.1 | 2.6 | 37.0 | 33.6 | 30.2 | 21.7 | 13.3 | - |
| | 62 | 40.5 | 2.2 | 40.2 | 40.2 | 40.2 | 33.6 | 24.1 | 14.7 | 37.7 | 2.6 | 37.2 | 37.2 | 37.2 | 31.3 | 22.4 | 13.5 |
| | 57 | 41.0 | 2.2 | 40.5 | 40.5 | 40.5 | 40.5 | 33.3 | 23.3 | 38.2 | 2.6 | 37.5 | 37.5 | 37.5 | 37.5 | 31.5 | 22.2 |
| 1800 | 72 | 42.4 | 2.1 | 40.8 | 31.7 | 22.6 | 13.6 | - | - | 39.1 | 2.5 | 37.9 | 29.1 | 20.4 | 11.6 | - | - |
| | 67 | 41.5 | 2.1 | 41.4 | 38.2 | 35.0 | 25.0 | 15.1 | - | 38.5 | 2.5 | 38.3 | 35.2 | 32.2 | 22.8 | 13.4 | - |
| | 62 | 42.3 | 2.1 | 41.9 | 41.9 | 41.9 | 36.5 | 25.6 | 14.7 | 39.3 | 2.5 | 38.7 | 38.7 | 38.7 | 33.9 | 23.8 | 13.8 |
| | 57 | 43.1 | 2.1 | 42.4 | 42.4 | 42.4 | 42.4 | 36.1 | 24.3 | 40.1 | 2.5 | 39.2 | 39.2 | 39.2 | 39.2 | 34.3 | 23.6 |
| 2000 | 72 | 43.2 | 2.1 | - | 33.1 | 23.2 | 13.3 | - | - | 39.9 | 2.5 | - | 30.2 | 20.7 | 11.1 | - | - |
| | 67 | 43.0 | 2.1 | - | 40.2 | 37.4 | 26.3 | 15.2 | - | 39.8 | 2.5 | - | 36.9 | 34.2 | 23.8 | 13.4 | - |
| | 62 | 44.1 | 2.1 | - | 43.6 | 43.6 | 39.4 | 27.1 | 14.7 | 40.9 | 2.5 | - | 40.2 | 40.2 | 36.5 | 25.3 | 14.0 |
| | 57 | 45.2 | 2.1 | - | 44.3 | 44.3 | 44.3 | 38.9 | 25.4 | 42.1 | 2.5 | - | 40.8 | 40.8 | 40.8 | 37.1 | 25.0 |

## JA4ZT Low Speed Compressor (4.0 Ton) (Continued)

| Air on Evaporator Coil | | Temperature of Air on Condenser Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total Capacity[1] (MBh) | Total Input (kW)[2] | Sensible Capacity (MBh) | | | | | | Total Capacity[1] (MBh) | Total Input (kW)[2] | 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 | | | | | | | |
| 1000 | 77 | 33.8 | 3.0 | - | 20.8 | 13.1 | - | - | - | 28.9 | 3.4 | - | 20.4 | 11.8 | - | - | - |
| | 72 | 32.3 | 3.0 | - | 23.8 | 18.0 | 12.3 | - | - | 28.8 | 3.4 | - | 22.7 | 16.8 | 10.9 | - | - |
| | 67 | 30.8 | 3.0 | - | 26.7 | 23.0 | 17.2 | 11.5 | - | 28.4 | 3.4 | - | 24.9 | 21.8 | 15.9 | 10.0 | - |
| | 62 | 30.4 | 3.0 | - | 29.1 | 27.9 | 22.2 | 16.5 | 10.8 | 28.0 | 3.4 | - | 27.4 | 26.8 | 20.8 | 14.8 | 8.9 |
| 1200 | 77 | 34.5 | 3.0 | - | 20.8 | 11.6 | - | - | - | 30.0 | 3.4 | - | 20.0 | 10.2 | - | - | - |
| | 72 | 33.2 | 3.0 | - | 24.5 | 18.1 | 11.6 | - | - | 29.7 | 3.4 | - | 23.0 | 16.6 | 10.1 | - | - |
| | 67 | 31.9 | 3.0 | 31.7 | 28.1 | 24.5 | 18.0 | 11.5 | - | 29.3 | 3.4 | - | 26.0 | 23.0 | 16.5 | 10.0 | - |
| | 62 | 31.9 | 3.0 | 31.7 | 31.4 | 31.0 | 24.5 | 17.9 | 11.3 | 29.3 | 3.4 | - | 29.1 | 29.1 | 22.8 | 16.2 | 9.6 |
| | 57 | 31.8 | 3.0 | 31.6 | 31.6 | 31.6 | 30.9 | 24.2 | 17.6 | 29.3 | 3.4 | - | 29.1 | 29.1 | 29.1 | 22.5 | 15.8 |
| 1400 | 77 | 35.2 | 3.0 | 31.7 | 20.9 | 10.0 | - | - | - | 31.1 | 3.3 | 30.6 | 19.5 | 8.5 | - | - | - |
| | 72 | 34.0 | 3.0 | 32.3 | 25.2 | 18.1 | 11.0 | - | - | 30.6 | 3.4 | 30.3 | 23.3 | 16.3 | 9.3 | - | - |
| | 67 | 33.1 | 3.0 | 32.9 | 29.5 | 26.1 | 18.9 | 11.6 | - | 30.3 | 3.4 | 30.1 | 27.1 | 24.1 | 17.0 | 9.9 | - |
| | 62 | 33.3 | 3.0 | 33.0 | 33.0 | 33.0 | 26.7 | 19.3 | 11.8 | 30.6 | 3.4 | 30.2 | 30.2 | 30.2 | 24.8 | 17.6 | 10.4 |
| | 57 | 33.6 | 3.0 | 33.1 | 33.1 | 33.1 | 33.1 | 27.0 | 19.3 | 30.9 | 3.4 | 30.3 | 30.3 | 30.3 | 30.3 | 25.2 | 17.9 |
| 1600 | 77 | 35.9 | 2.9 | 33.3 | 20.9 | 8.5 | - | - | - | 32.1 | 3.3 | 31.4 | 19.1 | 6.9 | - | - | - |
| | 72 | 34.9 | 3.0 | 33.7 | 25.9 | 18.1 | 10.3 | - | - | 31.5 | 3.3 | 31.2 | 23.7 | 16.1 | 8.5 | - | - |
| | 67 | 34.2 | 3.0 | 34.0 | 30.9 | 27.7 | 19.7 | 11.6 | - | 31.3 | 3.4 | 31.1 | 28.2 | 25.3 | 17.6 | 9.9 | - |
| | 62 | 34.8 | 3.0 | 34.3 | 34.3 | 34.3 | 29.0 | 20.7 | 12.3 | 32.0 | 3.3 | 31.3 | 31.3 | 31.3 | 26.8 | 18.9 | 11.1 |
| | 57 | 35.4 | 2.9 | 34.5 | 34.5 | 34.5 | 34.5 | 29.7 | 21.1 | 32.6 | 3.3 | 31.5 | 31.5 | 31.5 | 31.5 | 27.9 | 20.0 |
| 1800 | 72 | 35.7 | 2.9 | 35.0 | 26.6 | 18.1 | 9.7 | - | - | 32.4 | 3.3 | 32.2 | 24.0 | 15.9 | 7.7 | - | - |
| | 67 | 35.4 | 2.9 | 35.2 | 32.3 | 29.3 | 20.5 | 11.6 | - | 32.3 | 3.3 | 32.1 | 29.3 | 26.5 | 18.2 | 9.9 | - |
| | 62 | 36.3 | 2.9 | 35.6 | 35.6 | 35.6 | 31.3 | 22.1 | 12.8 | 33.3 | 3.3 | 32.4 | 32.4 | 32.4 | 28.7 | 20.3 | 11.9 |
| | 57 | 37.2 | 2.9 | 35.9 | 35.9 | 35.9 | 35.9 | 32.5 | 22.8 | 34.2 | 3.3 | 32.7 | 32.7 | 32.7 | 32.7 | 30.7 | 22.1 |
| 2000 | 72 | 36.6 | 2.9 | 36.4 | 27.3 | 18.1 | 9.0 | - | - | 33.3 | 3.3 | - | - | - | - | - | - |
| | 67 | 36.5 | 2.9 | 36.4 | 33.7 | 30.9 | 21.3 | 11.7 | - | 33.3 | 3.3 | - | - | - | - | - | - |
| | 62 | 37.8 | 2.9 | 36.9 | 36.9 | 36.9 | 33.6 | 23.5 | 13.3 | 34.6 | 3.3 | - | - | - | - | - | - |
| | 57 | 39.0 | 2.9 | 37.4 | 37.4 | 37.4 | 37.4 | 35.2 | 24.6 | 35.9 | 3.3 | - | - | - | - | - | - |

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 condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## JA5ZT High Speed Compressor (5.0 Ton)

| Air on Evaporator Coil | | Temperature of Air on Condenser Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sensible Capacity (MBh) | | | | | | | | Sensible Capacity (MBh) | | | | | |
| CFM | WB (°F) | Total Capacity[1] (MBh) | Total Input (kW)[2] | Return Dry Bulb (°F) | | | | | | Total Capacity[1] (MBh) | Total Input (kW)[2] | Return Dry Bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 1250 | 77 | 84.7 | 3.4 | 41.4 | 36.0 | 30.6 | - | - | - | 80.9 | 3.8 | 39.1 | 34.1 | 29.0 | - | - | - |
| | 72 | 75.5 | 3.4 | 49.5 | 43.0 | 36.5 | 30.0 | - | - | 71.6 | 3.7 | 47.5 | 41.2 | 34.8 | 28.5 | - | - |
| | 67 | 66.4 | 3.3 | 57.6 | 50.0 | 42.4 | 36.2 | 29.8 | - | 62.3 | 3.7 | 56.0 | 48.3 | 40.7 | 34.4 | 28.0 | - |
| | 62 | 61.3 | 3.2 | 61.0 | 54.6 | 48.3 | 40.7 | 36.0 | 29.9 | 59.1 | 3.6 | 58.5 | 52.5 | 46.5 | 39.5 | 33.9 | 27.6 |
| 1500 | 77 | 84.6 | 3.4 | 44.6 | 37.2 | 29.7 | - | - | - | 80.1 | 3.8 | 42.6 | 35.3 | 28.0 | - | - | - |
| | 72 | 76.3 | 3.4 | 52.7 | 45.1 | 37.4 | 29.8 | - | - | 72.0 | 3.7 | 50.7 | 43.1 | 35.6 | 28.1 | - | - |
| | 67 | 67.9 | 3.3 | 60.8 | 53.0 | 45.1 | 37.6 | 29.8 | - | 63.9 | 3.7 | 58.8 | 51.0 | 43.3 | 35.7 | 28.0 | - |
| | 62 | 63.9 | 3.3 | 63.5 | 58.1 | 52.8 | 44.0 | 37.5 | 29.9 | 61.4 | 3.6 | 60.7 | 55.8 | 50.9 | 42.6 | 35.4 | 27.6 |
| | 57 | 60.0 | 3.2 | 60.0 | 60.0 | 60.0 | 52.9 | 45.2 | 37.6 | 58.8 | 3.6 | 58.8 | 58.8 | 58.6 | 50.7 | 42.7 | 34.8 |
| 1750 | 77 | 84.6 | 3.4 | 47.8 | 38.3 | 28.8 | - | - | - | 79.4 | 3.8 | 46.0 | 36.5 | 26.9 | - | - | - |
| | 72 | 77.0 | 3.4 | 55.9 | 47.1 | 38.3 | 29.6 | - | - | 72.5 | 3.7 | 53.8 | 45.1 | 36.4 | 27.7 | - | - |
| | 67 | 69.4 | 3.3 | 64.0 | 55.9 | 47.8 | 39.0 | 29.9 | - | 65.5 | 3.7 | 61.5 | 53.7 | 45.9 | 37.0 | 27.9 | - |
| | 62 | 66.5 | 3.3 | 66.0 | 61.6 | 57.3 | 47.3 | 39.0 | 29.9 | 63.6 | 3.7 | 62.9 | 59.1 | 55.4 | 45.7 | 36.8 | 27.5 |
| | 57 | 63.7 | 3.2 | 63.7 | 63.7 | 63.7 | 57.5 | 48.2 | 38.8 | 61.6 | 3.6 | 61.6 | 61.6 | 61.6 | 55.3 | 45.7 | 36.1 |
| 2000 | 77 | 84.6 | 3.4 | 50.9 | 39.4 | 28.0 | - | - | - | 78.7 | 3.8 | 49.5 | 37.7 | 25.9 | - | - | - |
| | 72 | 77.7 | 3.4 | 59.1 | 49.2 | 39.3 | 29.3 | - | - | 72.9 | 3.7 | 56.9 | 47.1 | 37.2 | 27.4 | - | - |
| | 67 | 70.9 | 3.3 | 67.3 | 58.9 | 50.6 | 40.3 | 30.0 | - | 67.1 | 3.7 | 64.3 | 56.4 | 48.5 | 38.2 | 27.9 | - |
| | 62 | 69.2 | 3.3 | 68.5 | 65.2 | 61.9 | 50.6 | 40.5 | 29.9 | 65.8 | 3.7 | 65.1 | 62.5 | 59.8 | 48.8 | 38.2 | 27.4 |
| | 57 | 67.4 | 3.3 | 67.4 | 67.4 | 67.4 | 62.1 | 51.1 | 40.1 | 64.4 | 3.7 | 64.4 | 64.4 | 64.4 | 59.9 | 48.6 | 37.3 |
| 2250 | 72 | 78.5 | 3.4 | 62.3 | 51.2 | 40.2 | 29.1 | - | - | 73.4 | 3.7 | 60.1 | 49.0 | 38.0 | 27.0 | - | - |
| | 67 | 72.4 | 3.3 | 70.5 | 61.9 | 53.3 | 41.7 | 30.1 | - | 68.7 | 3.7 | 67.1 | 59.2 | 51.2 | 39.5 | 27.9 | - |
| | 62 | 71.8 | 3.3 | 71.0 | 68.7 | 66.4 | 53.9 | 42.0 | 29.9 | 68.0 | 3.7 | 67.3 | 65.8 | 64.3 | 51.8 | 39.7 | 27.4 |
| | 57 | 71.1 | 3.3 | 70.3 | 70.3 | 70.3 | 66.8 | 54.0 | 41.3 | 67.3 | 3.7 | 66.8 | 66.8 | 66.8 | 64.5 | 51.5 | 38.6 |
| 2500 | 72 | 79.2 | 3.4 | 65.5 | 53.3 | 41.1 | 28.9 | - | - | 73.8 | 3.7 | 63.2 | 51.0 | 38.8 | 26.7 | - | - |
| | 67 | 74.0 | 3.3 | 73.7 | 64.9 | 56.0 | 43.1 | 30.1 | - | 70.4 | 3.7 | 69.9 | 61.9 | 53.8 | 40.8 | 27.8 | - |
| | 62 | 74.4 | 3.3 | 73.5 | 72.2 | 70.9 | 57.2 | 43.6 | 29.9 | 70.2 | 3.7 | 69.5 | 69.1 | 68.7 | 54.9 | 41.1 | 27.3 |
| | 57 | 74.7 | 3.3 | 73.2 | 73.2 | 73.2 | 71.4 | 57.0 | 42.5 | 70.1 | 3.7 | 69.0 | 69.0 | 69.0 | 69.0 | 54.5 | 39.8 |
| | | 95°F | | | | | | | | 105°F | | | | | | | |
| 1250 | 77 | 77.0 | 4.2 | 36.8 | 32.1 | 27.3 | - | - | - | 70.3 | 4.8 | 34.7 | 29.7 | 24.6 | - | - | - |
| | 72 | 67.6 | 4.1 | 45.6 | 39.4 | 33.1 | 26.9 | - | - | 62.8 | 4.7 | 43.5 | 37.1 | 30.7 | 24.4 | - | - |
| | 67 | 58.2 | 4.1 | 54.3 | 46.6 | 38.9 | 32.6 | 26.2 | - | 55.3 | 4.6 | 52.2 | 44.5 | 36.8 | 30.4 | 24.0 | - |
| | 62 | 56.9 | 4.0 | 56.0 | 50.4 | 44.7 | 38.3 | 31.8 | 25.3 | 53.6 | 4.6 | 52.5 | 47.7 | 42.9 | 36.5 | 30.0 | 23.5 |
| 1500 | 77 | 75.6 | 4.2 | 40.6 | 33.4 | 26.2 | - | - | - | 69.0 | 4.8 | 38.6 | 31.0 | 23.5 | - | - | - |
| | 72 | 67.8 | 4.1 | 48.6 | 41.2 | 33.8 | 26.4 | - | - | 62.9 | 4.7 | 46.4 | 38.9 | 31.4 | 23.9 | - | - |
| | 67 | 59.9 | 4.1 | 56.7 | 49.1 | 41.5 | 33.8 | 26.1 | - | 56.8 | 4.6 | 54.2 | 46.7 | 39.3 | 31.6 | 23.8 | - |
| | 62 | 58.8 | 4.0 | 57.9 | 53.5 | 49.1 | 41.1 | 33.2 | 25.2 | 55.3 | 4.6 | 54.3 | 50.8 | 47.3 | 39.3 | 31.3 | 23.3 |
| | 57 | 57.6 | 4.0 | 57.6 | 57.6 | 56.7 | 48.5 | 40.2 | 32.0 | 53.8 | 4.5 | 53.8 | 53.8 | 53.8 | 46.9 | 38.7 | 30.4 |
| 1750 | 77 | 74.2 | 4.2 | 44.3 | 34.7 | 25.0 | - | - | - | 67.7 | 4.7 | 42.4 | 32.4 | 22.3 | - | - | - |
| | 72 | 67.9 | 4.1 | 51.7 | 43.1 | 34.5 | 25.9 | - | - | 63.0 | 4.7 | 49.3 | 40.7 | 32.1 | 23.5 | - | - |
| | 67 | 61.6 | 4.1 | 59.1 | 51.5 | 44.0 | 35.0 | 26.0 | - | 58.3 | 4.6 | 56.1 | 49.0 | 41.8 | 32.7 | 23.7 | - |
| | 62 | 60.6 | 4.0 | 59.8 | 56.6 | 53.5 | 44.0 | 34.6 | 25.1 | 57.0 | 4.6 | 56.0 | 53.8 | 51.6 | 42.0 | 32.5 | 23.0 |
| | 57 | 59.5 | 4.0 | 59.5 | 59.5 | 59.5 | 53.0 | 43.2 | 33.3 | 55.7 | 4.5 | 55.7 | 55.7 | 55.7 | 51.3 | 41.3 | 31.3 |
| 2000 | 77 | 72.8 | 4.1 | 48.1 | 36.0 | 23.9 | - | - | - | 66.5 | 4.7 | 46.2 | 33.7 | 21.2 | - | - | - |
| | 72 | 68.1 | 4.1 | 54.8 | 45.0 | 35.2 | 25.4 | - | - | 63.1 | 4.7 | 52.2 | 42.4 | 32.7 | 23.0 | - | - |
| | 67 | 63.3 | 4.1 | 61.4 | 54.0 | 46.5 | 36.2 | 25.8 | - | 59.8 | 4.6 | 58.1 | 51.2 | 44.3 | 33.9 | 23.5 | - |
| | 62 | 62.4 | 4.1 | 61.7 | 59.8 | 57.8 | 46.9 | 36.0 | 25.0 | 58.7 | 4.6 | 57.8 | 56.8 | 55.9 | 44.8 | 33.7 | 22.7 |
| | 57 | 61.5 | 4.0 | 61.5 | 61.5 | 61.5 | 57.6 | 46.1 | 34.6 | 57.6 | 4.6 | 57.5 | 57.5 | 57.5 | 55.7 | 43.9 | 32.2 |
| 2250 | 72 | 68.2 | 4.1 | 57.8 | 46.9 | 35.9 | 24.9 | - | - | 63.3 | 4.6 | 55.0 | 44.2 | 33.4 | 22.6 | - | - |
| | 67 | 65.1 | 4.1 | 63.8 | 56.4 | 49.0 | 37.4 | 25.7 | - | 61.3 | 4.6 | 60.0 | 53.4 | 46.8 | 35.1 | 23.4 | - |
| | 62 | 64.2 | 4.1 | 63.6 | 62.9 | 62.2 | 49.8 | 37.3 | 24.9 | 60.4 | 4.6 | 59.6 | 59.6 | 59.6 | 47.6 | 35.0 | 22.4 |
| | 57 | 63.4 | 4.1 | 63.4 | 63.4 | 63.4 | 62.2 | 49.0 | 35.9 | 59.5 | 4.6 | 59.1 | 59.1 | 59.1 | 59.1 | 46.6 | 33.1 |
| 2500 | 72 | 68.4 | 4.1 | 60.9 | 48.7 | 36.6 | 24.4 | - | - | 63.4 | 4.6 | 57.9 | 46.0 | 34.1 | 22.1 | - | - |
| | 67 | 66.8 | 4.1 | 66.1 | 58.9 | 51.6 | 38.5 | 25.5 | - | 62.7 | 4.6 | 61.9 | 55.6 | 49.3 | 36.2 | 23.2 | - |
| | 62 | 66.1 | 4.1 | 65.5 | 65.5 | 65.5 | 52.6 | 38.7 | 24.8 | 62.1 | 4.6 | 61.3 | 61.3 | 61.3 | 50.4 | 36.2 | 22.1 |
| | 57 | 65.4 | 4.1 | 64.8 | 64.8 | 64.8 | 64.8 | 51.9 | 37.2 | 61.5 | 4.6 | 60.7 | 60.7 | 60.7 | 60.7 | 49.2 | 34.0 |

## JA5ZT High Speed Compressor (5.0 Ton) (Continued)

| Air on Evaporator Coil | | Temperature of Air on Condenser Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sensible Capacity (MBh) | | | | | | | | Sensible Capacity (MBh) | | | | | |
| CFM | WB (°F) | Total Capacity[1] (MBh) | Total Input (kW)[2] | Return Dry Bulb (°F) | | | | | | Total Capacity[1] (MBh) | Total Input (kW)[2] | Return Dry Bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 115°F | | | | | | | | 125°F | | | | | | | |
| 1250 | 77 | 63.5 | 5.4 | 32.6 | 27.3 | 21.9 | - | - | - | 56.7 | 6.1 | 30.5 | 24.9 | 19.2 | - | - | - |
| | 72 | 57.9 | 5.3 | 41.4 | 34.9 | 28.3 | 21.8 | - | - | 53.0 | 5.9 | 39.3 | 32.6 | 25.9 | 19.3 | - | - |
| | 67 | 52.3 | 5.2 | 50.1 | 42.4 | 34.7 | 28.3 | 21.8 | - | 49.4 | 5.8 | 48.0 | 40.3 | 32.6 | 26.1 | 19.5 | - |
| | 62 | 50.2 | 5.1 | 49.0 | 45.1 | 41.1 | 34.7 | 28.2 | 21.8 | 46.8 | 5.7 | 45.5 | 42.4 | 39.4 | 32.9 | 26.5 | 20.0 |
| 1500 | 77 | 62.3 | 5.4 | 36.6 | 28.7 | 20.8 | - | - | - | 55.7 | 6.0 | 34.5 | 26.3 | 18.0 | - | - | - |
| | 72 | 58.0 | 5.3 | 44.1 | 36.5 | 29.0 | 21.4 | - | - | 53.1 | 5.9 | 41.8 | 34.2 | 26.6 | 18.9 | - | - |
| | 67 | 53.6 | 5.2 | 51.6 | 44.4 | 37.2 | 29.4 | 21.6 | - | 50.5 | 5.8 | 49.1 | 42.1 | 35.1 | 27.2 | 19.3 | - |
| | 62 | 51.8 | 5.1 | 50.6 | 48.0 | 45.4 | 37.4 | 29.3 | 21.3 | 48.3 | 5.7 | 47.0 | 45.3 | 43.6 | 35.5 | 27.4 | 19.3 |
| | 57 | 50.0 | 5.0 | 49.6 | 49.6 | 49.6 | 45.4 | 37.1 | 28.8 | 46.2 | 5.6 | 44.8 | 44.8 | 44.8 | 43.8 | 35.5 | 27.2 |
| 1750 | 77 | 61.2 | 5.3 | 40.5 | 30.0 | 19.6 | - | - | - | 54.7 | 5.9 | 38.6 | 27.7 | 16.9 | - | - | - |
| | 72 | 58.1 | 5.2 | 46.8 | 38.2 | 29.6 | 21.0 | - | - | 53.2 | 5.8 | 44.4 | 35.8 | 27.2 | 18.5 | - | - |
| | 67 | 54.9 | 5.2 | 53.2 | 46.4 | 39.6 | 30.5 | 21.4 | - | 51.5 | 5.7 | 50.2 | 43.8 | 37.5 | 28.3 | 19.1 | - |
| | 62 | 53.4 | 5.1 | 52.3 | 51.0 | 49.7 | 40.0 | 30.4 | 20.8 | 49.8 | 5.7 | 48.5 | 48.1 | 47.8 | 38.1 | 28.4 | 18.6 |
| | 57 | 51.9 | 5.1 | 51.3 | 51.3 | 51.3 | 49.6 | 39.4 | 29.3 | 48.0 | 5.6 | 46.7 | 46.7 | 46.7 | 46.7 | 37.6 | 27.3 |
| 2000 | 77 | 60.1 | 5.3 | 44.4 | 31.4 | 18.4 | - | - | - | 53.7 | 5.8 | 42.6 | 29.1 | 15.7 | - | - | - |
| | 72 | 58.2 | 5.2 | 49.6 | 39.9 | 30.3 | 20.6 | - | - | 53.3 | 5.7 | 47.0 | 37.4 | 27.8 | 18.2 | - | - |
| | 67 | 56.2 | 5.1 | 54.7 | 48.4 | 42.1 | 31.7 | 21.2 | - | 52.6 | 5.7 | 51.3 | 45.6 | 39.9 | 29.4 | 18.9 | - |
| | 62 | 55.0 | 5.1 | 53.9 | 53.9 | 53.9 | 42.7 | 31.5 | 20.3 | 51.2 | 5.6 | 50.0 | 50.0 | 50.0 | 40.6 | 29.3 | 17.9 |
| | 57 | 53.8 | 5.1 | 53.1 | 53.1 | 53.1 | 53.1 | 41.8 | 29.8 | 49.9 | 5.6 | 48.6 | 48.6 | 48.6 | 48.6 | 39.6 | 27.4 |
| 2250 | 72 | 58.3 | 5.2 | 52.3 | 41.6 | 30.9 | 20.2 | - | - | 53.3 | 5.7 | 49.5 | 38.9 | 28.4 | 17.8 | - | - |
| | 67 | 57.5 | 5.1 | 56.2 | 50.4 | 44.5 | 32.8 | 21.1 | - | 53.7 | 5.6 | 52.4 | 47.4 | 42.3 | 30.5 | 18.7 | - |
| | 62 | 56.6 | 5.1 | 55.5 | 55.5 | 55.5 | 45.4 | 32.6 | 19.8 | 52.7 | 5.6 | 51.5 | 51.5 | 51.5 | 43.2 | 30.2 | 17.2 |
| | 57 | 55.7 | 5.1 | 54.8 | 54.8 | 54.8 | 54.8 | 44.1 | 30.3 | 51.8 | 5.6 | 50.5 | 50.5 | 50.5 | 50.5 | 41.7 | 27.5 |
| 2500 | 72 | 58.4 | 5.1 | 55.0 | 43.3 | 31.5 | 19.8 | - | - | 53.4 | 5.6 | - | 40.5 | 29.0 | 17.5 | - | - |
| | 67 | 58.7 | 5.1 | 57.8 | 52.4 | 47.0 | 33.9 | 20.9 | - | 54.7 | 5.6 | - | 49.1 | 44.7 | 31.6 | 18.6 | - |
| | 62 | 58.1 | 5.1 | 57.2 | 57.2 | 57.2 | 48.1 | 33.7 | 19.3 | 54.2 | 5.6 | - | 53.0 | 53.0 | 45.8 | 31.2 | 16.5 |
| | 57 | 57.5 | 5.1 | 56.6 | 56.6 | 56.6 | 56.6 | 46.5 | 30.8 | 53.6 | 5.6 | - | 52.4 | 52.4 | 52.4 | 43.8 | 27.6 |

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 condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

## JA5ZT Low Speed Compressor (5.0 Ton)

| Air on Evaporator Coil | | Temperature of Air on Condenser Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sensible Capacity (MBh) | | | | | | | | Sensible Capacity (MBh) | | | | | |
| CFM | WB (°F) | Total Capacity[1] (MBh) | Total Input (kW)[2] | Return Dry Bulb (°F) | | | | | | Total Capacity[1] (MBh) | Total Input (kW)[2] | Return Dry Bulb (°F) | | | | | |
| | | | | 90 | 85 | 80 | 75 | 70 | 65 | | | 90 | 85 | 80 | 75 | 70 | 65 |
| | | 75°F | | | | | | | | 85°F | | | | | | | |
| 1250 | 77 | 62.4 | 2.0 | 33.2 | 27.2 | 21.2 | - | - | - | 58.7 | 2.4 | 34.6 | 27.8 | 21.0 | - | - | - |
| | 72 | 56.5 | 2.1 | 41.8 | 35.0 | 28.3 | 21.5 | - | - | 53.5 | 2.4 | 41.2 | 34.2 | 27.3 | 20.4 | - | - |
| | 67 | 50.7 | 2.1 | 50.3 | 42.8 | 35.3 | 27.9 | 21.8 | - | 48.3 | 2.4 | 47.8 | 40.7 | 33.7 | 26.7 | 20.4 | - |
| | 62 | 49.2 | 2.1 | 48.8 | 45.8 | 42.9 | 31.7 | 28.9 | 22.1 | 47.2 | 2.4 | 46.7 | 43.5 | 40.3 | 31.7 | 27.3 | 20.9 |
| 1500 | 77 | 62.4 | 2.0 | 38.2 | 29.6 | 21.0 | - | - | - | 58.5 | 2.4 | 38.6 | 29.4 | 20.2 | - | - | - |
| | 72 | 57.3 | 2.0 | 45.1 | 37.4 | 29.6 | 21.9 | - | - | 54.1 | 2.4 | 43.9 | 36.1 | 28.3 | 20.6 | - | - |
| | 67 | 52.3 | 2.1 | 52.0 | 45.1 | 38.3 | 29.7 | 22.3 | - | 49.7 | 2.4 | 49.2 | 42.9 | 36.5 | 28.4 | 20.7 | - |
| | 62 | 51.1 | 2.1 | 50.7 | 48.8 | 46.9 | 35.5 | 30.4 | 22.1 | 48.8 | 2.4 | 48.3 | 46.5 | 44.7 | 35.1 | 28.7 | 20.7 |
| | 57 | 49.8 | 2.1 | 49.5 | 49.5 | 49.5 | 47.0 | 38.5 | 30.0 | 48.0 | 2.4 | 47.5 | 47.5 | 47.5 | 44.8 | 36.6 | 28.5 |
| 1750 | 77 | 62.4 | 2.0 | 43.2 | 32.0 | 20.8 | - | - | - | 58.3 | 2.4 | 42.6 | 31.0 | 19.3 | - | - | - |
| | 72 | 58.1 | 2.0 | 48.4 | 39.7 | 31.0 | 22.3 | - | - | 54.7 | 2.4 | 46.6 | 38.0 | 29.4 | 20.7 | - | - |
| | 67 | 53.9 | 2.1 | 53.6 | 47.4 | 41.2 | 31.6 | 22.8 | - | 51.1 | 2.4 | 50.6 | 45.0 | 39.4 | 30.0 | 21.1 | - |
| | 62 | 53.0 | 2.1 | 52.7 | 51.8 | 50.9 | 39.3 | 31.9 | 22.2 | 50.4 | 2.4 | 50.0 | 49.6 | 49.1 | 38.5 | 30.1 | 20.4 |
| | 57 | 52.0 | 2.1 | 51.8 | 51.8 | 51.8 | 50.6 | 41.1 | 30.8 | 49.8 | 2.4 | 49.3 | 49.3 | 49.3 | 48.9 | 39.0 | 28.8 |
| 2000 | 77 | 62.4 | 2.0 | 48.1 | 34.4 | 20.7 | - | - | - | 58.1 | 2.4 | 46.6 | 32.6 | 18.5 | - | - | - |
| | 72 | 58.9 | 2.0 | 51.7 | 42.0 | 32.4 | 22.7 | - | - | 55.3 | 2.4 | 49.3 | 39.9 | 30.4 | 20.9 | - | - |
| | 67 | 55.5 | 2.0 | 55.3 | 49.7 | 44.1 | 33.4 | 23.3 | - | 52.5 | 2.4 | 52.1 | 47.2 | 42.2 | 31.7 | 21.4 | - |
| | 62 | 54.9 | 2.0 | 54.6 | 54.6 | 54.6 | 43.1 | 33.4 | 22.2 | 52.0 | 2.4 | 51.6 | 51.6 | 51.6 | 42.0 | 31.4 | 20.1 |
| | 57 | 54.2 | 2.0 | 54.0 | 54.0 | 54.0 | 54.0 | 43.6 | 31.6 | 51.6 | 2.4 | 51.2 | 51.2 | 51.2 | 51.2 | 41.4 | 29.2 |
| 2250 | 72 | 59.7 | 2.0 | 55.0 | 44.4 | 33.8 | 23.2 | - | - | 55.9 | 2.4 | 52.1 | 41.7 | 31.4 | 21.1 | - | - |
| | 67 | 57.1 | 2.0 | 56.9 | 52.0 | 47.1 | 35.3 | 23.8 | - | 53.9 | 2.4 | 53.5 | 49.3 | 45.1 | 33.4 | 21.8 | - |
| | 62 | 56.7 | 2.0 | 56.6 | 56.6 | 56.6 | 46.9 | 35.0 | 22.3 | 53.6 | 2.4 | 53.3 | 53.3 | 53.3 | 45.4 | 32.8 | 19.9 |
| | 57 | 56.4 | 2.0 | 56.2 | 56.2 | 56.2 | 56.2 | 46.2 | 32.5 | 53.4 | 2.4 | 53.0 | 53.0 | 53.0 | 53.0 | 43.9 | 29.6 |
| 2500 | 72 | 60.5 | 2.0 | - | 46.7 | 35.1 | 23.6 | - | - | 56.4 | 2.4 | - | 43.6 | 32.4 | 21.2 | - | - |
| | 67 | 58.7 | 2.0 | - | 54.3 | 50.0 | 37.1 | 24.2 | - | 55.3 | 2.3 | - | 51.4 | 47.9 | 35.0 | 22.1 | - |
| | 62 | 58.6 | 2.0 | - | 58.5 | 58.5 | 50.7 | 36.5 | 22.3 | 55.2 | 2.4 | - | 54.9 | 54.9 | 48.8 | 34.2 | 19.6 |
| | 57 | 58.6 | 2.0 | - | 58.5 | 58.5 | 58.5 | 48.8 | 33.3 | 55.2 | 2.4 | - | 54.9 | 54.9 | 54.9 | 46.3 | 29.9 |
| | | 95°F | | | | | | | | 105°F | | | | | | | |
| 1250 | 77 | 55.1 | 2.8 | 35.9 | 28.3 | 20.7 | - | - | - | 50.1 | 3.3 | 36.1 | 27.6 | 19.2 | - | - | - |
| | 72 | 50.5 | 2.8 | 40.5 | 33.5 | 26.4 | 19.3 | - | - | 46.6 | 3.3 | 39.1 | 32.0 | 24.8 | 17.6 | - | - |
| | 67 | 45.9 | 2.8 | 45.2 | 38.6 | 32.0 | 25.5 | 19.0 | - | 43.1 | 3.2 | 42.2 | 36.3 | 30.4 | 23.8 | 17.1 | - |
| | 62 | 45.3 | 2.7 | 44.6 | 41.1 | 37.7 | 31.7 | 25.7 | 19.8 | 42.7 | 3.2 | 41.8 | 38.9 | 36.1 | 29.9 | 23.7 | 17.5 |
| 1500 | 77 | 54.7 | 2.8 | 39.0 | 29.1 | 19.3 | - | - | - | 49.9 | 3.3 | 38.4 | 27.9 | 17.3 | - | - | - |
| | 72 | 50.9 | 2.8 | 42.7 | 34.9 | 27.0 | 19.2 | - | - | 47.0 | 3.2 | 40.8 | 33.0 | 25.1 | 17.3 | - | - |
| | 67 | 47.1 | 2.8 | 46.4 | 40.6 | 34.8 | 27.0 | 19.2 | - | 44.1 | 3.2 | 43.3 | 38.1 | 33.0 | 25.1 | 17.2 | - |
| | 62 | 46.6 | 2.7 | 45.9 | 44.2 | 42.5 | 34.8 | 27.0 | 19.2 | 43.8 | 3.2 | 43.0 | 41.9 | 40.8 | 32.9 | 25.0 | 17.1 |
| | 57 | 46.1 | 2.7 | 45.4 | 45.4 | 45.4 | 42.5 | 34.8 | 27.0 | 43.5 | 3.2 | 42.7 | 42.7 | 42.7 | 40.7 | 32.8 | 24.9 |
| 1750 | 77 | 54.2 | 2.7 | 42.0 | 29.9 | 17.9 | - | - | - | 49.7 | 3.2 | 40.7 | 28.1 | 15.5 | - | - | - |
| | 72 | 51.3 | 2.7 | 44.8 | 36.3 | 27.7 | 19.1 | - | - | 47.4 | 3.2 | 42.5 | 34.0 | 25.5 | 17.0 | - | - |
| | 67 | 48.3 | 2.7 | 47.7 | 42.6 | 37.6 | 28.5 | 19.4 | - | 45.1 | 3.2 | 44.3 | 39.9 | 35.5 | 26.4 | 17.4 | - |
| | 62 | 47.9 | 2.7 | 47.3 | 47.3 | 47.3 | 37.8 | 28.2 | 18.6 | 45.0 | 3.2 | 44.2 | 44.2 | 44.2 | 35.9 | 26.3 | 16.7 |
| | 57 | 47.5 | 2.7 | 46.9 | 46.9 | 46.9 | 46.9 | 37.0 | 26.9 | 44.8 | 3.2 | 44.0 | 44.0 | 44.0 | 44.0 | 35.2 | 25.1 |
| 2000 | 77 | 53.8 | 2.7 | 45.1 | 30.7 | 16.4 | - | - | - | 49.4 | 3.2 | 43.0 | 28.3 | 13.6 | - | - | - |
| | 72 | 51.6 | 2.7 | 47.0 | 37.7 | 28.4 | 19.1 | - | - | 47.8 | 3.2 | 44.2 | 35.0 | 25.8 | 16.6 | - | - |
| | 67 | 49.5 | 2.7 | 48.9 | 44.6 | 40.3 | 30.0 | 19.6 | - | 46.2 | 3.2 | 45.4 | 41.7 | 38.0 | 27.8 | 17.5 | - |
| | 62 | 49.2 | 2.7 | 48.6 | 48.6 | 48.6 | 40.9 | 29.4 | 18.0 | 46.1 | 3.2 | 45.3 | 45.3 | 45.3 | 38.9 | 27.6 | 16.3 |
| | 57 | 48.9 | 2.7 | 48.4 | 48.4 | 48.4 | 48.4 | 39.3 | 26.8 | 46.1 | 3.2 | 45.3 | 45.3 | 45.3 | 45.3 | 37.7 | 25.3 |
| 2250 | 72 | 52.0 | 2.7 | 49.1 | 39.1 | 29.0 | 19.0 | - | - | 48.3 | 3.2 | 45.9 | 36.0 | 26.2 | 16.3 | - | - |
| | 67 | 50.7 | 2.7 | 50.1 | 46.6 | 43.1 | 31.5 | 19.8 | - | 47.2 | 3.2 | 46.5 | 43.5 | 40.5 | 29.1 | 17.7 | - |
| | 62 | 50.5 | 2.7 | 50.0 | 50.0 | 50.0 | 43.9 | 30.7 | 17.4 | 47.3 | 3.2 | 46.5 | 46.5 | 46.5 | 41.9 | 28.9 | 15.9 |
| | 57 | 50.4 | 2.7 | 49.8 | 49.8 | 49.8 | 49.8 | 41.5 | 26.7 | 47.3 | 3.2 | 46.6 | 46.6 | 46.6 | 46.6 | 40.1 | 25.5 |
| 2500 | 72 | 52.4 | 2.7 | - | 40.5 | 29.7 | 18.9 | - | - | 48.7 | 3.2 | - | 37.0 | 26.5 | 16.0 | - | - |
| | 67 | 51.9 | 2.7 | - | 48.6 | 45.9 | 32.9 | 20.0 | - | 48.3 | 3.1 | - | 45.3 | 43.1 | 30.4 | 17.8 | - |
| | 62 | 51.8 | 2.7 | - | 51.3 | 51.3 | 47.0 | 31.9 | 16.8 | 48.4 | 3.2 | - | 47.7 | 47.7 | 44.9 | 30.2 | 15.5 |
| | 57 | 51.8 | 2.7 | - | 51.3 | 51.3 | 51.3 | 43.8 | 26.6 | 48.6 | 3.2 | - | 47.9 | 47.9 | 47.9 | 42.6 | 25.7 |

## JA5ZT Low Speed Compressor (5.0 Ton) (Continued)

| Air on Evaporator Coil | | Temperature of Air on Condenser Coil | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total Capacity[1] (MBh) | Total Input (kW)[2] | Sensible Capacity (MBh) | | | | | | Total Capacity[1] (MBh) | Total Input (kW)[2] | 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 | | | | | | | |
| 1250 | 77 | 45.1 | 3.8 | - | 27.0 | 17.6 | - | - | - | 40.1 | 4.3 | - | 26.3 | 16.1 | - | - | - |
| | 72 | 42.6 | 3.7 | - | 30.5 | 23.2 | 16.0 | - | - | 38.7 | 4.2 | - | 29.0 | 21.6 | 14.3 | - | - |
| | 67 | 40.2 | 3.7 | - | 34.0 | 28.8 | 22.0 | 15.2 | - | 37.4 | 4.1 | - | 31.7 | 27.2 | 20.3 | 13.3 | - |
| | 62 | 40.0 | 3.7 | - | 36.7 | 34.4 | 28.1 | 21.7 | 15.3 | 37.4 | 4.2 | - | 34.5 | 32.8 | 26.2 | 19.6 | 13.0 |
| 1500 | 77 | 45.1 | 3.8 | - | 26.6 | 15.4 | - | - | - | 40.3 | 4.3 | - | 25.4 | 13.4 | - | - | - |
| | 72 | 43.1 | 3.7 | - | 31.1 | 23.2 | 15.4 | - | - | 39.2 | 4.2 | - | 29.2 | 21.3 | 13.5 | - | - |
| | 67 | 41.1 | 3.7 | - | 35.6 | 31.1 | 23.2 | 15.3 | - | 38.1 | 4.1 | - | 33.1 | 29.3 | 21.3 | 13.3 | - |
| | 62 | 41.0 | 3.7 | - | 39.5 | 39.0 | 31.0 | 23.0 | 15.0 | 38.2 | 4.2 | - | 37.0 | 37.0 | 29.1 | 21.1 | 13.0 |
| | 57 | 40.9 | 3.7 | - | 39.9 | 39.9 | 38.8 | 30.8 | 22.7 | 38.4 | 4.2 | - | 37.2 | 37.2 | 37.0 | 28.8 | 20.6 |
| 1750 | 77 | 45.1 | 3.7 | 39.4 | 26.3 | 13.1 | - | - | - | 40.5 | 4.2 | 38.1 | 24.4 | 10.7 | - | - | - |
| | 72 | 43.6 | 3.7 | 40.2 | 31.7 | 23.3 | 14.8 | - | - | 39.7 | 4.2 | 37.9 | 29.5 | 21.0 | 12.6 | - | - |
| | 67 | 42.0 | 3.7 | 41.0 | 37.2 | 33.4 | 24.4 | 15.4 | - | 38.8 | 4.1 | 37.7 | 34.5 | 31.3 | 22.3 | 13.3 | - |
| | 62 | 42.0 | 3.7 | 41.0 | 41.0 | 41.0 | 34.0 | 24.4 | 14.8 | 39.1 | 4.1 | 37.9 | 37.9 | 37.9 | 32.1 | 22.5 | 12.9 |
| | 57 | 42.1 | 3.7 | 41.1 | 41.1 | 41.1 | 41.1 | 33.4 | 23.3 | 39.3 | 4.2 | 38.1 | 38.1 | 38.1 | 38.1 | 31.6 | 21.5 |
| 2000 | 77 | 45.1 | 3.7 | 41.0 | 25.9 | 10.9 | - | - | - | 40.8 | 4.2 | 38.9 | 23.5 | 8.1 | - | - | - |
| | 72 | 44.0 | 3.7 | 41.4 | 32.4 | 23.3 | 14.2 | - | - | 40.3 | 4.2 | 38.7 | 29.7 | 20.7 | 11.8 | - | - |
| | 67 | 42.9 | 3.6 | 41.9 | 38.8 | 35.7 | 25.6 | 15.4 | - | 39.6 | 4.1 | 38.4 | 35.9 | 33.4 | 23.4 | 13.4 | - |
| | 62 | 43.0 | 3.7 | 42.1 | 42.1 | 42.1 | 36.9 | 25.8 | 14.6 | 39.9 | 4.1 | 38.8 | 38.8 | 38.8 | 35.0 | 23.9 | 12.8 |
| | 57 | 43.2 | 3.7 | 42.2 | 42.2 | 42.2 | 42.2 | 36.1 | 23.8 | 40.3 | 4.1 | 39.1 | 39.1 | 39.1 | 39.1 | 34.5 | 22.3 |
| 2250 | 72 | 44.5 | 3.7 | 42.7 | 33.0 | 23.3 | 13.6 | - | - | 40.8 | 4.1 | 39.4 | 29.9 | 20.4 | 10.9 | - | - |
| | 67 | 43.8 | 3.6 | 42.8 | 40.4 | 38.0 | 26.8 | 15.5 | - | 40.3 | 4.1 | 39.2 | 37.3 | 35.4 | 24.4 | 13.4 | - |
| | 62 | 44.0 | 3.6 | 43.1 | 43.1 | 43.1 | 39.9 | 27.1 | 14.3 | 40.8 | 4.1 | 39.6 | 39.6 | 39.6 | 37.9 | 25.3 | 12.8 |
| | 57 | 44.3 | 3.6 | 43.3 | 43.3 | 43.3 | 43.3 | 38.7 | 24.4 | 41.2 | 4.1 | 40.1 | 40.1 | 40.1 | 40.1 | 37.3 | 23.2 |
| 2500 | 72 | 45.0 | 3.6 | - | 33.6 | 23.3 | 13.0 | - | - | 41.3 | 4.1 | - | - | - | - | - | - |
| | 67 | 44.6 | 3.6 | - | 42.0 | 40.3 | 27.9 | 15.6 | - | 41.0 | 4.1 | - | - | - | - | - | - |
| | 62 | 45.0 | 3.6 | - | 44.1 | 44.1 | 42.9 | 28.5 | 14.1 | 41.6 | 4.1 | - | - | - | - | - | - |
| | 57 | 45.4 | 3.6 | - | 44.5 | 44.5 | 44.5 | 41.3 | 24.9 | 42.2 | 4.1 | - | - | - | - | - | - |

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 condenser fan motors (total 1 kW) and the compressor motors but not the supply air blower motor.

***Drive Selection***

1. Determine side or bottom supply duct Application.
2. Determine desired airflow.
3. Calculate or measure the amount of external static pressure.
   - Add or deduct any additional static resistance from “Additional Static Resistance Table”.
4. Using the operating point determined from steps 1, 2 & 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 turns open to obtain the desired 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 & 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.

## Airflow Performance

***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 & Field Supplied Drive | | | | | | | | Standard 1.5 HP & Drive | | | | | | Alternate 2 HP & 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 | - | - |

***Example RPM Selection***

| Size (Tons) | Model | Airflow Option | 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 | Std. | 1.5 | 1.73 | 1VM50 | AK74 | N/A | 897 | 945 | 991 | 1035 | 1079 | 1126 |
| | | H. Static | 2 | 2.30 | 1VM50 | AK64 | N/A | 1039 | 1094 | 1150 | 1207 | 1256 | 1308 |

***Example Additional Static Resistance***

| Size (Tons) | Model | CFM | Cooling Only | Economizer | 4” Pleated Filter | Electric Heat kW | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 3 | 6 | 9 | 15 | 20 | 24 |
| X | Y | 900 | 0.05 | -0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 |
| | | 1000 | 0.05 | -0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 |
| | | 1100 | 0.04 | -0.02 | 0.03 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
| | | 1200 | 0.04 | 0.00 | 0.04 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
| | | 1300 | 0.03 | 0.01 | 0.05 | 0.01 | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 |

**Altitude and Temperature Correction for CFM, Static Pressure and Power.**

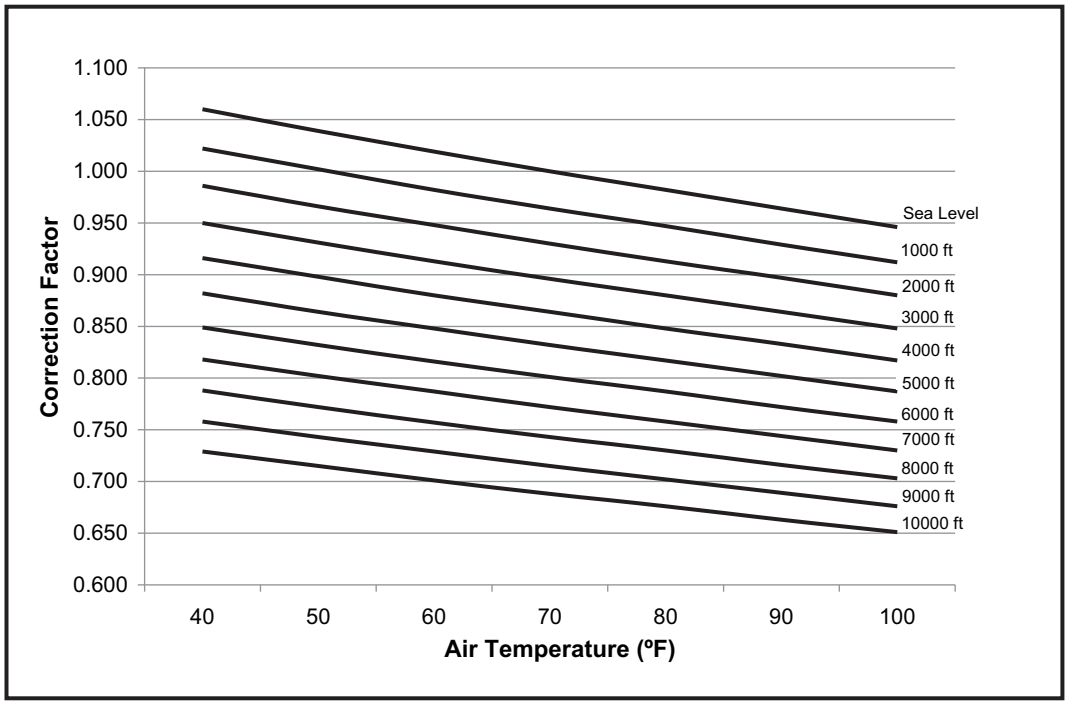
The information below should be used to assist in application of product when being applied at altitudes at or exceeding 1000 feet above sea level.

The air flow rates listed in the standard blower performance tables are based on standard air at sea level. As the altitude or temperature increases, the density of air decreases. In order to use the indoor blower tables for high altitude applications, certain corrections are necessary.

A centrifugal fan is a "constant volume" device. This means that, if the rpm remains constant, the CFM delivered is the same regardless of the density of the air. However, since the air at high altitude is less dense, less static pressure will be generated and less power will be required than a similar application at sea level. Air density correction factors are shown in Table 14 and Figure 27.

**Altitude/Temperature Correction Factors**

| Air Temp. | Altitude (Ft.) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 | 10000 |
| 40 | 1.060 | 1.022 | 0.986 | 0.950 | 0.916 | 0.882 | 0.849 | 0.818 | 0.788 | 0.758 | 0.729 |
| 50 | 1.039 | 1.002 | 0.966 | 0.931 | 0.898 | 0.864 | 0.832 | 0.802 | 0.772 | 0.743 | 0.715 |
| 60 | 1.019 | 0.982 | 0.948 | 0.913 | 0.880 | 0.848 | 0.816 | 0.787 | 0.757 | 0.729 | 0.701 |
| 70 | 1.000 | 0.964 | 0.930 | 0.896 | 0.864 | 0.832 | 0.801 | 0.772 | 0.743 | 0.715 | 0.688 |
| 80 | 0.982 | 0.947 | 0.913 | 0.880 | 0.848 | 0.817 | 0.787 | 0.758 | 0.730 | 0.702 | 0.676 |
| 90 | 0.964 | 0.929 | 0.897 | 0.864 | 0.833 | 0.802 | 0.772 | 0.744 | 0.716 | 0.689 | 0.663 |
| 100 | 0.946 | 0.912 | 0.880 | 0.848 | 0.817 | 0.787 | 0.758 | 0.730 | 0.703 | 0.676 | 0.651 |




The examples below will assist in determining the airflow performance of the product at altitude.

**Example 1:** What are the corrected CFM, static pressure, and BHP at an elevation of 5,000 ft. if the blower performance data is 6,000 CFM, 1.5 IWC and 4.0 BHP?

**Solution:** At an elevation of 5,000 ft. the indoor blower will still deliver 6,000 CFM if the rpm is unchanged. However, Table 13 must be used to determine the static pressure and BHP. Since no temperature data is given, we will assume an air temperature of 70°F. Table 15 shows the correction factor to be 0.832.

Corrected static pressure = 1.5 x 0.832 = 1.248 IWC

Corrected BHP = 4.0 x 0.832 = 3.328

**Example 2:** A system, located at 5,000 feet of elevation, is to deliver 6,000 CFM at a static pressure of 1.5". Use the unit blower tables to select the blower speed and the BHP requirement.

**Solution:** As in the example above, no temperature information is given so 70°F is assumed.

The 1.5" static pressure given is at an elevation of 5,000 ft. The first step is to convert this static pressure to equivalent sea level conditions.

Sea level static pressure = 1.5 / .832 = 1.80"

Enter the blower table at 6000 sCFM and static pressure of 1.8". The rpm listed will be the same rpm needed at 5,000 ft.

Suppose that the corresponding BHP listed in the table is 3.2. This value must be corrected for elevation.

BHP at 5,000 ft. = 3.2 x .832 = 2.66

### Indoor Blower Specifications

| Size (Tons) | Model | Airflow Option | Motor | | | | | Motor Sheave | | | Blower Sheave | | | Belt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | HP | RPM | Eff. | SF | Frame | Datum Dia. (in.) | Bore (in.) | Model | Datum Dia. (in.) | Bore (in.) | Model | |
| JA3 (3) | J**ZT | Std. | 1-1/2 | 1725 | 0.86 | 1.15 | 56 | 2.4 - 3.4 | 7/8 | 1VL40 | 7.5 | 1 | AK79 | A47 |
| | | H. Static | 1-1/2 | 1725 | 0.86 | 1.15 | 56 | 2.4 - 3.4 | 7/8 | 1VL40 | 5.7 | 1 | AK61 | A45 |
| JA4 (4) | J**ZT | Std. | 1-1/2 | 1725 | 0.86 | 1.15 | 56 | 1.9 - 2.9 | 7/8 | 1VL34 | 6 | 1 | AK64 | A47 |
| | | H. Static | 1-1/2 | 1725 | 0.86 | 1.15 | 56 | 2.8 - 3.8 | 7/8 | 1VL44 | 6.5 | 1 | AK69 | A47 |
| JA5 (5) | J**ZT | Std. | 1-1/2 | 1725 | 0.86 | 1.15 | 56 | 2.4 - 3.4 | 7/8 | 1VL40 | 5.7 | 1 | AK61 | A45 |
| | | H. Static | 2 | 1725 | 0.86 | 1.15 | 56 | 3.4 - 4.4 | 7/8 | 1VM50 | 6 | 1 | AK64 | A47 |

### Power Exhaust Specifications

| Model | Voltage | Motor | | | Motor | | | Fuse Size | CFM @ 0.1 ESP |
|---|---|---|---|---|---|---|---|---|---|
| | | HP | RPM[1] | QTY | LRA | FLA | MCA | | |
| 2PE04703225 | 208/230-1-60 | 3/4 | 1075 | 1 | 7.8 | 5 | 6.3 | 10 | 3800 |
| 2PE04703246 | 460-1-60 | 3/4 | 1075 | 1 | 3.4 | 2.2 | 2.8 | 5 | 3800 |
| 2PE04703258 | 575-1-60 | 3/4 | 1050 | 1 | 2.9 | 1.5 | 1.9 | 4 | 3800 |

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

### RPM Selection

| Size (Tons) | Model | Airflow Option | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JA3 (3) | J**ZT | Field Supplied | 1.5 | 1.5 | 1VL34 | AK79 | N/A | 465 | 512 | 557 | 606 | 651 | 695 |
| | | Std. | 1.5 | 1.5 | 1VL40 | AK79 | N/A | 612 | 661 | 707 | 752 | 799 | 844 |
| | | H. Static | 1.5 | 1.5 | 1VL40 | AK61 | N/A | 782 | 846 | 906 | 968 | 1022 | 1085 |
| | | Field Supplied | 1.5 | 1.5 | 1VL40 | AK54 | N/A | 896 | 960 | 1030 | 1090 | 166 | 1238 |
| JA4 (4) | J**ZT | Std. | 1.5 | 1.5 | 1VL34 | AK64 | N/A | 576 | 631 | 688 | 747 | 800 | 859 |
| | | H. Static | 1.5 | 1.5 | 1VL44 | AK69 | N/A | 792 | 844 | 892 | 944 | 996 | 1045 |
| | | Field Supplied | 1.5 | 1.5 | 1VL44 | AK59 | N/A | 915 | 989 | 1050 | 1113 | 1173 | 1238 |
| JA5 (5) | J**ZT | Field Supplied | 1.5 | 1.5 | 1VL40 | AK79 | N/A | 609 | 656 | 703 | 746 | 792 | 839 |
| | | Std. | 1.5 | 1.5 | 1VL40 | AK61 | N/A | 782 | 846 | 906 | 968 | 1022 | 1085 |
| | | Field Supplied | 2 | 2 | 1VL40 | AK54 | N/A | 896 | 960 | 1030 | 1090 | 1166 | 1238 |
| | | H. Static | 2 | 2 | 1VM50 | AK64 | N/A | 1022 | 1079 | 1135 | 1190 | 1246 | 1297 |

### Additional Static Resistance

| Size (Tons) | Model | CFM | Cooling Only[1] | Economizer[2 3] | 4" Pleated Filter[2] | Electric Heat kW[2] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 3 | 6 | 9 | 15 | 20 | 24 |
| JA3 (3) | J**ZT | 900 | 0.05 | -0.05 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 |
| | | 1000 | 0.05 | -0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 |
| | | 1100 | 0.04 | -0.02 | 0.03 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
| | | 1200 | 0.04 | 0.00 | 0.04 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
| | | 1300 | 0.03 | 0.01 | 0.05 | 0.01 | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 |
| | | 1400 | 0.03 | 0.03 | 0.07 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 |
| | | 1500 | 0.03 | 0.04 | 0.08 | 0.02 | 0.02 | 0.02 | 0.04 | 0.04 | 0.04 |
| JA4 (4) JA5 (5) | J**ZT | 1200 | -0.01 | 0.10 | 0.05 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
| | | 1300 | -0.01 | 0.11 | 0.06 | 0.01 | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 |
| | | 1400 | -0.01 | 0.12 | 0.06 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 |
| | | 1500 | -0.01 | 0.13 | 0.07 | 0.02 | 0.02 | 0.02 | 0.04 | 0.04 | 0.04 |
| | | 1600 | -0.01 | 0.14 | 0.08 | 0.02 | 0.02 | 0.02 | 0.04 | 0.04 | 0.04 |
| | | 1700 | -0.01 | 0.15 | 0.08 | 0.03 | 0.03 | 0.03 | 0.05 | 0.05 | 0.05 |
| | | 1800 | -0.02 | 0.16 | 0.09 | 0.03 | 0.03 | 0.03 | 0.05 | 0.05 | 0.05 |
| | | 1900 | -0.02 | 0.17 | 0.10 | 0.04 | 0.04 | 0.04 | 0.06 | 0.06 | 0.06 |
| | | 2000 | -0.02 | 0.18 | 0.10 | 0.04 | 0.04 | 0.04 | 0.07 | 0.07 | 0.07 |
| | | 2100 | -0.03 | 0.19 | 0.11 | 0.05 | 0.05 | 0.05 | 0.07 | 0.07 | 0.07 |
| | | 2200 | -0.03 | 0.20 | 0.12 | 0.06 | 0.06 | 0.06 | 0.08 | 0.08 | 0.08 |
| | | 2300 | -0.04 | 0.21 | 0.12 | 0.06 | 0.06 | 0.06 | 0.09 | 0.09 | 0.09 |
| | | 2400 | -0.04 | 0.22 | 0.13 | 0.07 | 0.07 | 0.07 | 0.10 | 0.10 | 0.10 |
| | | 2500 | -0.05 | 0.23 | 0.14 | 0.08 | 0.08 | 0.08 | 0.11 | 0.11 | 0.11 |

1. Add these values to the available static resistance in the respective Blower Performance Tables.
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.

### Gas Heat Minimum Supply Air

| Size (Tons) | Model | Heat Size | Supply Air (CFM) | |
|---|---|---|---|---|
| | | | Heating | |
| | | | Min | Max |
| JA3 (3) | J**ZT | A05 / N05 | 890 | 2220 |
| | | A07 / N07 | 915 | 2370 |
| | | A09 / N09 | 1130 | 1800 |
| JA4 (4) | J**ZT | A05 / N05 | 890 | 2220 |
| | | A07 / N07 | 915 | 2370 |
| | | A09 / N09 | 1290 | 2250 |
| JA5 (5) | J**ZT | A07 / N07 | 915 | 2370 |
| | | A09 / N09 | 1380 | 2570 |
| | | A13 / N13 | 1580 | 2630 |

### Electric Heat Minimum Supply Air

**3 thru 5 Tons**

| Size (Tons) | Model | Voltage | Minimum Supply Air (CFM) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Heater kW | | | | | |
| | | | 3 | 6 | 9 | 15 | 20 | 24 |
| JA3 (3) | J**ZT | 208/230-3-60 | 960 | 960 | 1020 | 1020 | - | - |
| | | 460-3-60 | 980 | 960 | 960 | 960 | - | - |
| | | 600-3-60 | - | - | 960 | 960 | - | - |
| JA4 (4) | J**ZT | 208/230-3-60 | - | 1280 | 1420 | 1420 | 1420 | - |
| | | 460-3-60 | - | 1400 | 1400 | 1400 | 1400 | - |
| | | 600-3-60 | - | - | 1400 | 1400 | 1400 | - |
| JA5 (5) | J**ZT | 208/230-3-60 | - | 1600 | 1600 | 1600 | 1600 | 1600 |
| | | 460-3-60 | - | 1600 | 1600 | 1600 | 1600 | 1600 |
| | | 600-3-60 | - | - | 1600 | 1600 | 1600 | 1600 |

# Airflow Performance

## JA3 thru JA5ZT Side Duct Application

### JA3ZT (3.0 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 |
| | FS[4] | | | | Standard 1.5 Hp & Drive | | | | | | High Static 1.5 Hp & Drive | | | | | | FS[4] | | | |
| 900 | 468 | 0.24 | 563 | 0.27 | 652 | 0.36 | 736 | 0.46 | 814 | 0.56 | 887 | 0.67 | 955 | 0.76 | 1017 | 0.87 | 1074 | 1.01 | 1126 | 1.09 |
| 1000 | 479 | 0.25 | 578 | 0.29 | 670 | 0.38 | 756 | 0.47 | 837 | 0.57 | 911 | 0.68 | 979 | 0.78 | 1041 | 0.89 | 1098 | 1.03 | 1148 | 1.11 |
| 1100 | 494 | 0.27 | 594 | 0.31 | 688 | 0.40 | 775 | 0.49 | 856 | 0.59 | 931 | 0.69 | 999 | 0.79 | 1061 | 0.90 | 1117 | 1.04 | 1167 | 1.13 |
| 1200 | 509 | 0.28 | 608 | 0.37 | 701 | 0.46 | 788 | 0.55 | 870 | 0.65 | 945 | 0.75 | 1015 | 0.85 | 1078 | 0.95 | 1136 | 1.06 | 1188 | 1.17 |
| 1300 | 524 | 0.30 | 623 | 0.39 | 716 | 0.48 | 804 | 0.58 | 886 | 0.68 | 961 | 0.78 | 1032 | 0.88 | 1096 | 0.99 | 1154 | 1.09 | 1207 | 1.20 |
| 1400 | 540 | 0.32 | 639 | 0.41 | 732 | 0.51 | 819 | 0.61 | 901 | 0.71 | 977 | 0.82 | 1048 | 0.92 | 1113 | 1.03 | 1172 | 1.14 | 1226 | 1.26 |
| 1500 | 562 | 0.34 | 660 | 0.44 | 753 | 0.54 | 840 | 0.65 | 921 | 0.75 | 998 | 0.85 | 1069 | 0.96 | 1135 | 1.07 | 1195 | 1.18 | - | - |

1. Blower performance includes gas heat exchangers and 2” filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive

### JA4ZT (4.0 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 |
| | | | Standard 1.5 Hp & Drive | | | | | | High Static 1.5 Hp & Drive | | | | | | | | FS[4] | | | |
| 1200 | - | - | 618 | 0.34 | 695 | 0.40 | 783 | 0.47 | 864 | 0.54 | 940 | 0.60 | 983 | 0.69 | 1073 | 0.76 | 1119 | 0.88 | 1178 | 0.94 |
| 1300 | - | - | 638 | 0.38 | 712 | 0.43 | 799 | 0.50 | 876 | 0.59 | 954 | 0.65 | 995 | 0.74 | 1080 | 0.81 | 1130 | 0.94 | 1188 | 1.00 |
| 1400 | - | - | 653 | 0.40 | 729 | 0.46 | 815 | 0.54 | 888 | 0.63 | 965 | 0.72 | 1007 | 0.78 | 1088 | 0.87 | 1140 | 1.00 | 1198 | 1.06 |
| 1500 | 574 | 0.36 | 666 | 0.42 | 747 | 0.50 | 831 | 0.59 | 900 | 0.68 | 975 | 0.78 | 1019 | 0.83 | 1096 | 0.92 | 1151 | 1.06 | 1207 | 1.11 |
| 1600 | 596 | 0.39 | 689 | 0.44 | 766 | 0.54 | 847 | 0.63 | 912 | 0.73 | 983 | 0.84 | 1031 | 0.88 | 1103 | 0.97 | 1162 | 1.13 | 1217 | 1.18 |
| 1700 | 619 | 0.43 | 711 | 0.49 | 786 | 0.58 | 863 | 0.68 | 925 | 0.79 | 991 | 0.89 | 1043 | 0.94 | 1112 | 1.04 | 1172 | 1.19 | 1227 | 1.25 |
| 1800 | 643 | 0.47 | 734 | 0.54 | 808 | 0.64 | 878 | 0.73 | 936 | 0.84 | 998 | 0.95 | 1055 | 1.00 | 1121 | 1.10 | 1183 | 1.27 | 1237 | 1.33 |
| 1900 | 669 | 0.52 | 757 | 0.61 | 831 | 0.71 | 894 | 0.79 | 948 | 0.91 | 1004 | 1.00 | 1067 | 1.06 | 1130 | 1.16 | 1194 | 1.35 | - | - |
| 2000 | 697 | 0.58 | 779 | 0.67 | 856 | 0.78 | 910 | 0.85 | 960 | 0.98 | 1010 | 1.05 | 1079 | 1.13 | 1140 | 1.23 | - | - | - | - |

1. Blower performance includes gas heat exchangers and 2” filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

### JA5ZT (5.0 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 |
| | | | FS[4] | | | | Standard 1.5 Hp & Drive | | | | | | | | High Static 2.0 Hp & Drive | | | | | |
| 1500 | - | - | 667 | 0.40 | 747 | 0.50 | 837 | 0.58 | 904 | 0.59 | 972 | 0.73 | 1039 | 0.88 | 1096 | 0.92 | 1151 | 1.06 | 1207 | 1.11 |
| 1600 | - | - | 689 | 0.44 | 766 | 0.54 | 844 | 0.60 | 917 | 0.65 | 982 | 0.79 | 1047 | 0.93 | 1103 | 0.97 | 1162 | 1.13 | 1217 | 1.18 |
| 1700 | 615 | 0.43 | 711 | 0.48 | 786 | 0.58 | 852 | 0.64 | 931 | 0.73 | 994 | 0.86 | 1057 | 1.00 | 1112 | 1.04 | 1172 | 1.19 | 1227 | 1.25 |
| 1800 | 641 | 0.48 | 734 | 0.53 | 808 | 0.64 | 863 | 0.68 | 945 | 0.80 | 1006 | 0.93 | 1067 | 1.06 | 1121 | 1.10 | 1183 | 1.27 | 1237 | 1.33 |
| 1900 | 666 | 0.52 | 757 | 0.59 | 831 | 0.71 | 878 | 0.76 | 959 | 0.87 | 1018 | 0.99 | 1077 | 1.12 | 1130 | 1.16 | 1194 | 1.35 | 1246 | 1.40 |
| 2000 | 692 | 0.58 | 781 | 0.65 | 842 | 0.73 | 914 | 0.82 | 973 | 0.94 | 1031 | 1.06 | 1089 | 1.19 | 1140 | 1.23 | 1204 | 1.43 | 1256 | 1.49 |
| 2100 | 718 | 0.64 | 806 | 0.73 | 863 | 0.75 | 934 | 0.88 | 987 | 1.01 | 1044 | 1.14 | 1101 | 1.26 | 1151 | 1.31 | 1215 | 1.53 | 1266 | 1.58 |
| 2200 | 744 | 0.71 | 832 | 0.81 | 886 | 0.83 | 954 | 0.95 | 1002 | 1.09 | 1059 | 1.22 | 1116 | 1.36 | 1164 | 1.40 | 1226 | 1.63 | 1276 | 1.67 |
| 2300 | 770 | 0.79 | 859 | 0.91 | 907 | 0.90 | 972 | 1.02 | 1017 | 1.16 | 1074 | 1.31 | 1131 | 1.45 | 1178 | 1.50 | 1236 | 1.72 | 1286 | 1.78 |
| 2400 | 796 | 0.87 | 887 | 1.03 | 927 | 0.98 | 990 | 1.09 | 1032 | 1.24 | 1091 | 1.40 | 1150 | 1.56 | 1195 | 1.62 | 1247 | 1.83 | 1295 | 1.87 |
| 2500 | 822 | 0.96 | 916 | 1.17 | 946 | 1.06 | 1006 | 1.17 | 1047 | 1.32 | 1112 | 1.52 | 1177 | 1.73 | 1219 | 1.79 | 1258 | 1.95 | - | - |

1. Blower performance includes gas heat exchangers and 2” filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

## JA3 thru JA5ZT Bottom Duct Application

### JA3ZT (3.0 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 |
| | FS[4] | | | | Standard 1.5 Hp & Drive | | | | High Static 1.5 Hp & Drive | | | | | | | | FS[4] | | | |
| 900 | 469 | 0.26 | 580 | 0.34 | 682 | 0.43 | 775 | 0.52 | 860 | 0.60 | 936 | 0.69 | 1004 | 0.78 | 1063 | 0.87 | 1113 | 0.96 | 1155 | 1.05 |
| 1000 | 486 | 0.27 | 597 | 0.36 | 699 | 0.45 | 793 | 0.54 | 879 | 0.63 | 956 | 0.72 | 1024 | 0.81 | 1083 | 0.91 | 1135 | 1.00 | 1177 | 1.10 |
| 1100 | 504 | 0.29 | 613 | 0.38 | 714 | 0.47 | 807 | 0.56 | 892 | 0.66 | 969 | 0.75 | 1037 | 0.84 | 1098 | 0.93 | 1151 | 1.02 | 1196 | 1.12 |
| 1200 | 526 | 0.31 | 635 | 0.40 | 736 | 0.50 | 828 | 0.59 | 911 | 0.69 | 986 | 0.78 | 1053 | 0.87 | 1112 | 0.97 | 1162 | 1.06 | 1203 | 1.15 |
| 1300 | 552 | 0.33 | 657 | 0.42 | 755 | 0.52 | 844 | 0.62 | 926 | 0.71 | 1001 | 0.81 | 1067 | 0.90 | 1126 | 0.99 | 1177 | 1.08 | 1220 | 1.17 |
| 1400 | 577 | 0.35 | 679 | 0.46 | 774 | 0.56 | 862 | 0.65 | 943 | 0.75 | 1017 | 0.84 | 1084 | 0.93 | 1144 | 1.02 | 1198 | 1.11 | - | - |
| 1500 | 610 | 0.39 | 707 | 0.49 | 797 | 0.60 | 882 | 0.70 | 959 | 0.79 | 1031 | 0.89 | 1095 | 0.98 | 1154 | 1.07 | 1206 | 1.15 | - | - |

1. Blower performance includes gas heat exchangers and 2” filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

### JA4ZT (4.0 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 |
| | Standard 1.5 Hp & Drive | | | | | | | | High Static 1.5 Hp & Drive | | | | | | | | FS[4] | | | |
| 1200 | - | - | 633 | 0.38 | 728 | 0.47 | 816 | 0.56 | 898 | 0.65 | 973 | 0.75 | 1042 | 0.85 | 1104 | 0.95 | 1159 | 1.05 | 1208 | 1.16 |
| 1300 | - | - | 656 | 0.41 | 748 | 0.50 | 834 | 0.59 | 914 | 0.68 | 988 | 0.77 | 1056 | 0.87 | 1118 | 0.96 | 1174 | 1.07 | 1224 | 1.17 |
| 1400 | 586 | 0.37 | 680 | 0.46 | 769 | 0.55 | 852 | 0.65 | 930 | 0.74 | 1003 | 0.84 | 1070 | 0.93 | 1132 | 1.02 | 1189 | 1.12 | - | - |
| 1500 | 612 | 0.40 | 703 | 0.50 | 790 | 0.59 | 871 | 0.69 | 948 | 0.78 | 1019 | 0.88 | 1086 | 0.97 | 1148 | 1.07 | 1205 | 1.17 | - | - |
| 1600 | 643 | 0.44 | 731 | 0.53 | 814 | 0.63 | 893 | 0.73 | 967 | 0.82 | 1037 | 0.92 | 1103 | 1.01 | 1164 | 1.11 | 1221 | 1.21 | - | - |
| 1700 | 671 | 0.47 | 756 | 0.57 | 837 | 0.67 | 914 | 0.77 | 987 | 0.87 | 1056 | 0.97 | 1121 | 1.07 | 1183 | 1.17 | - | - | - | - |
| 1800 | 699 | 0.53 | 781 | 0.63 | 860 | 0.73 | 935 | 0.84 | 1006 | 0.94 | 1074 | 1.04 | 1139 | 1.14 | 1199 | 1.24 | - | - | - | - |
| 1900 | 726 | 0.58 | 805 | 0.69 | 881 | 0.80 | 954 | 0.90 | 1024 | 1.01 | 1092 | 1.12 | 1157 | 1.22 | 1218 | 1.33 | - | - | - | - |
| 2000 | 755 | 0.64 | 831 | 0.75 | 905 | 0.86 | 977 | 0.97 | 1046 | 1.08 | 1113 | 1.19 | 1178 | 1.3 | - | - | - | - | - | - |

1. Blower performance includes gas heat exchangers and 2” filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

### JA5ZT (5.0 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 |
| | FS[4] | | | | Standard 1.5 Hp & Drive | | | | | | | | | | | | High Static 2.0 Hp & Drive | | | |
| 1500 | 616 | 0.39 | 696 | 0.50 | 771 | 0.60 | 841 | 0.71 | 907 | 0.81 | 968 | 0.91 | 1024 | 1.02 | 1075 | 1.12 | 1122 | 1.23 | 1164 | 1.33 |
| 1600 | 643 | 0.43 | 719 | 0.54 | 791 | 0.64 | 858 | 0.74 | 921 | 0.85 | 980 | 0.95 | 1034 | 1.06 | 1084 | 1.16 | 1130 | 1.26 | 1171 | 1.37 |
| 1700 | 671 | 0.47 | 746 | 0.58 | 817 | 0.68 | 884 | 0.78 | 947 | 0.88 | 1006 | 0.98 | 1062 | 1.09 | 1113 | 1.19 | 1160 | 1.29 | 1203 | 1.39 |
| 1800 | 698 | 0.52 | 771 | 0.62 | 840 | 0.72 | 905 | 0.83 | 967 | 0.93 | 1025 | 1.03 | 1080 | 1.13 | 1131 | 1.24 | 1178 | 1.34 | 1222 | 1.44 |
| 1900 | 725 | 0.57 | 796 | 0.67 | 864 | 0.77 | 929 | 0.88 | 990 | 0.98 | 1048 | 1.09 | 1102 | 1.19 | 1154 | 1.29 | 1202 | 1.40 | 1246 | 1.50 |
| 2000 | 753 | 0.62 | 822 | 0.73 | 888 | 0.83 | 952 | 0.94 | 1012 | 1.04 | 1069 | 1.15 | 1123 | 1.25 | 1174 | 1.36 | 1222 | 1.46 | 1267 | 1.57 |
| 2100 | 782 | 0.68 | 849 | 0.79 | 913 | 0.89 | 975 | 1.00 | 1033 | 1.11 | 1090 | 1.21 | 1143 | 1.32 | 1194 | 1.43 | 1243 | 1.54 | 1288 | 1.64 |
| 2200 | 809 | 0.74 | 874 | 0.85 | 936 | 0.96 | 997 | 1.07 | 1055 | 1.18 | 1110 | 1.29 | 1164 | 1.39 | 1215 | 1.50 | 1264 | 1.61 | 1310 | 1.72 |
| 2300 | 837 | 0.82 | 900 | 0.93 | 960 | 1.04 | 1019 | 1.15 | 1076 | 1.26 | 1132 | 1.37 | 1185 | 1.48 | 1236 | 1.59 | 1285 | 1.70 | 1333 | 1.81 |
| 2400 | 865 | 0.89 | 925 | 1.01 | 984 | 1.12 | 1042 | 1.23 | 1098 | 1.35 | 1152 | 1.46 | 1205 | 1.57 | 1256 | 1.69 | 1306 | 1.80 | - | - |
| 2500 | 893 | 0.98 | 952 | 1.09 | 1009 | 1.21 | 1065 | 1.33 | 1120 | 1.44 | 1173 | 1.56 | 1226 | 1.67 | 1277 | 1.79 | 1327 | 1.91 | - | - |

1. Blower performance includes gas heat exchangers and 2” filters. See STATIC RESISTANCE table for additional applications.
2. See RPM SELECTION table to determine desired motor sheave setting and to determine the maximum continuous BHP.
3. kW = BHP x 0.932.
4. Field Supplied Drive.

# Sound Performance

## Indoor Sound Power Levels (3 thru 5 Ton)

## Indoor Sound Power Levels (Horizontal Ducted Inlet, Standard Static Belt Drive)

| **UNIT DESCRIPTION / MODEL** | **JA3ZT / 3 Ton / Standard Static Belt Drive** | | | |
|---|---|---|---|---|
| **TEST CONFIGURATION** | **Horizontal (Side Return) Ducted Inlet** | | | |
| Indoor Blower Speed (RPM) | 612 - 3 Turns Open Equivalent | | 709 - 1 Turn Open Equivalent | |
| External Static Pressure (IWG) | 0.5 | | 0.4 | |
| Airflow (CFM) | 850 | | 1300 | |
| Blower Motor BHP | 0.37 | | 0.40 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 73 | 77 | 73 | 77 |
| 125 | 61 | 70 | 66 | 71 |
| 250 | 56 | 63 | 60 | 64 |
| 500 | 51 | 56 | 55 | 57 |
| 1000 | 44 | 48 | 51 | 52 |
| 2000 | 41 | 44 | 48 | 49 |
| 4000 | 44 | 47 | 47 | 48 |
| 8000 | 42 | 44 | 43 | 44 |

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| **UNIT DESCRIPTION / MODEL** | **JA4ZT / 4 Ton / Standard Static Belt Drive** | | | |
|---|---|---|---|---|
| **TEST CONFIGURATION** | **Horizontal (Side Return) Ducted Inlet** | | | |
| Indoor Blower Speed (RPM) | 612 - 3 Turns Open Equivalent | | 709 - 1 Turn Open Equivalent | |
| External Static Pressure (IWG) | 0.5 | | 0.4 | |
| Airflow (CFM) | 850 | | 1300 | |
| Blower Motor BHP | 0.37 | | 0.40 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 73 | 77 | 73 | 77 |
| 125 | 61 | 70 | 66 | 71 |
| 250 | 56 | 63 | 60 | 64 |
| 500 | 51 | 56 | 55 | 57 |
| 1000 | 44 | 48 | 51 | 52 |
| 2000 | 41 | 44 | 48 | 49 |
| 4000 | 44 | 47 | 47 | 48 |
| 8000 | 42 | 44 | 43 | 44 |

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA5ZT / 5 Ton / Standard Static Belt Drive | | | |
|---|---|---|---|---|
| TEST CONFIGURATION | Horizontal (Side Return) Ducted Inlet | | | |
| Indoor Blower Speed (RPM) | 814 - 3 Turns Open Equivalent | | 918 - 1 Turn Open Equivalent | |
| External Static Pressure (IWG) | 0.6 | | 0.8 | |
| Airflow (CFM) | 1700 | | 1950 | |
| Blower Motor BHP | 0.42 | | 0.88 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 77 | 81 | 85 | 82 |
| 125 | 71 | 80 | 68 | 81 |
| 250 | 63 | 67 | 64 | 68 |
| 500 | 58 | 60 | 60 | 61 |
| 1000 | 56 | 57 | 58 | 59 |
| 2000 | 52 | 53 | 55 | 55 |
| 4000 | 51 | 51 | 54 | 54 |
| 8000 | 47 | 47 | 48 | 48 |

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

## Indoor Sound Power Levels (Horizontal Ducted Discharge, Standard Static Belt Drive)

| UNIT DESCRIPTION / MODEL | JA3ZT / 3 Ton / Standard Static Belt Drive | | | |
|---|---|---|---|---|
| TEST CONFIGURATION | Horizontal (Side Supply) Ducted Discharge | | | |
| Indoor Blower Speed (RPM) | 610 - 3 Turns Open Equivalent | | 710 - 1 Turn Open Equivalent | |
| External Static Pressure (IWG) | 0.5 | | 0.6 | |
| Airflow (CFM) | 850 | | 950 | |
| Blower Motor BHP | 0.37 | | 0.42 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 77 | 78 | 79 | 79 |
| 125 | 74 | 75 | 75 | 76 |
| 250 | 66 | 68 | 70 | 70 |
| 500 | 61 | 61 | 65 | 64 |
| 1000 | 60 | 62 | 65 | 66 |
| 2000 | 52 | 52 | 58 | 58 |
| 4000 | 52 | 52 | 59 | 60 |
| 8000 | 44 | 44 | 50 | 50 |

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA4ZT / 4 Ton / Standard Static Belt Drive | | | |
|---|---|---|---|---|
| TEST CONFIGURATION | Horizontal (Side Supply) Ducted Discharge | | | |
| Indoor Blower Speed (RPM) | 610 - 3 Turns Open Equivalent | | 710 - 1 Turn Open Equivalent | |
| External Static Pressure (IWG) | 0.5 | | 0.6 | |
| Airflow (CFM) | 850 | | 950 | |
| Blower Motor BHP | 0.37 | | 0.42 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 77 | 78 | 79 | 79 |
| 125 | 74 | 75 | 75 | 76 |
| 250 | 66 | 68 | 70 | 70 |
| 500 | 61 | 61 | 65 | 64 |
| 1000 | 60 | 62 | 65 | 66 |
| 2000 | 52 | 52 | 58 | 58 |
| 4000 | 52 | 52 | 59 | 60 |
| 8000 | 44 | 44 | 50 | 50 |

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA5ZT / 5 Ton / Standard Static Belt Drive | | | |
|---|---|---|---|---|
| TEST CONFIGURATION | Horizontal (Side Supply) Ducted Discharge | | | |
| Indoor Blower Speed (RPM) | 810 - 3 Turns Open Equivalent | | 918 - 1 Turn Open Equivalent | |
| External Static Pressure (IWG) | 0.4 | | 0.8 | |
| Airflow (CFM) | 2050 | | 1950 | |
| Blower Motor BHP | 0.73 | | 0.88 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 85 | 83 | 83 | 83 |
| 125 | 78 | 79 | 76 | 79 |
| 250 | 69 | 70 | 69 | 70 |
| 500 | 68 | 68 | 68 | 68 |
| 1000 | 64 | 64 | 65 | 65 |
| 2000 | 63 | 63 | 64 | 64 |
| 4000 | 64 | 64 | 64 | 64 |
| 8000 | 59 | 59 | 59 | 60 |

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

## Indoor Sound Power Levels (Vertical Ducted Inlet, Standard Static Belt Drive)

| UNIT DESCRIPTION / MODEL | JA3ZT / 3 Ton / Standard Static Belt Drive | | | |
|---|---|---|---|---|
| TEST CONFIGURATION | Vertical (Bottom Return) Ducted Inlet | | | |
| Indoor Blower Speed (RPM) | 609 - 3 Turns Open Equivalent | | 708 - 1 Turn Open Equivalent | |
| External Static Pressure (IWG) | 0.4 | | 0.4 | |
| Airflow (CFM) | 850 | | 1150 | |
| Blower Motor BHP | 0.32 | | 0.38 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 76 | 76 | 74 | 76 |
| 125 | 63 | 70 | 66 | 70 |
| 250 | 55 | 62 | 59 | 62 |
| 500 | 54 | 55 | 58 | 59 |
| 1000 | 48 | 48 | 53 | 53 |
| 2000 | 44 | 44 | 48 | 48 |
| 4000 | 41 | 44 | 45 | 46 |
| 8000 | 42 | 43 | 43 | 44 |

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA4ZT / 4 Ton / Standard Static Belt Drive | | | |
|---|---|---|---|---|
| TEST CONFIGURATION | Vertical (Bottom Return) Ducted Inlet | | | |
| Indoor Blower Speed (RPM) | 609 - 3 Turns Open Equivalent | | 708 - 1 Turn Open Equivalent | |
| External Static Pressure (IWG) | 0.4 | | 0.4 | |
| Airflow (CFM) | 850 | | 1150 | |
| Blower Motor BHP | 0.32 | | 0.38 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 76 | 76 | 74 | 76 |
| 125 | 63 | 70 | 66 | 70 |
| 250 | 55 | 62 | 59 | 62 |
| 500 | 54 | 55 | 58 | 59 |
| 1000 | 48 | 48 | 53 | 53 |
| 2000 | 44 | 44 | 48 | 48 |
| 4000 | 41 | 44 | 45 | 46 |
| 8000 | 42 | 43 | 43 | 44 |

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA5ZT / 5 Ton / Standard Static Belt Drive | | | |
|---|---|---|---|---|
| TEST CONFIGURATION | Vertical (Bottom Return) Ducted Inlet | | | |
| Indoor Blower Speed (RPM) | 812 - 3 Turns Open Equivalent | | 915- 1 Turn Open Equivalent | |
| External Static Pressure (IWG) | 0.6 | | 0.8 | |
| Airflow (CFM) | 1575 | | 1800 | |
| Blower Motor BHP | 0.64 | | 0.83 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 75 | 78 | 80 | 80 |
| 125 | 66 | 80 | 69 | 81 |
| 250 | 59 | 66 | 62 | 65 |
| 500 | 60 | 60 | 63 | 63 |
| 1000 | 57 | 57 | 60 | 60 |
| 2000 | 52 | 53 | 55 | 55 |
| 4000 | 49 | 50 | 53 | 53 |
| 8000 | 44 | 45 | 47 | 47 |

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

## Indoor Sound Power Levels (Vertical Ducted Discharge, Standard Static Belt Drive)

| UNIT DESCRIPTION / MODEL | JA3ZT / 3 Ton / Standard Static Belt Drive | | | |
|---|---|---|---|---|
| TEST CONFIGURATION | Vertical (Bottom Supply) Ducted Discharge | | | |
| Indoor Blower Speed (RPM) | 609 - 3 Turns Open Equivalent | | 712 - 1 Turn Open Equivalent | |
| External Static Pressure (IWG) | 0.4 | | 0.6 | |
| Airflow (CFM) | 850 | | 950 | |
| Blower Motor BHP | 0.32 | | 0.42 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 76 | 77 | 81 | 81 |
| 125 | 68 | 68 | 72 | 72 |
| 250 | 55 | 65 | 57 | 57 |
| 500 | 56 | 57 | 57 | 57 |
| 1000 | 51 | 57 | 52 | 56 |
| 2000 | 49 | 49 | 50 | 50 |
| 4000 | 48 | 48 | 49 | 51 |
| 8000 | 46 | 46 | 47 | 48 |

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA4ZT / 4 Ton / Standard Static Belt Drive | | | |
|---|---|---|---|---|
| TEST CONFIGURATION | Vertical (Bottom Supply) Ducted Discharge | | | |
| Indoor Blower Speed (RPM) | 609 - 3 Turns Open Equivalent | | 712 - 1 Turn Open Equivalent | |
| External Static Pressure (IWG) | 0.4 | | 0.6 | |
| Airflow (CFM) | 850 | | 950 | |
| Blower Motor BHP | 0.32 | | 0.42 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 76 | 77 | 81 | 81 |
| 125 | 68 | 68 | 72 | 72 |
| 250 | 55 | 65 | 57 | 57 |
| 500 | 56 | 57 | 57 | 57 |
| 1000 | 51 | 57 | 52 | 56 |
| 2000 | 49 | 49 | 50 | 50 |
| 4000 | 48 | 48 | 49 | 51 |
| 8000 | 46 | 46 | 47 | 48 |

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA5ZT / 5 Ton / Standard Static Belt Drive | | | |
|---|---|---|---|---|
| TEST CONFIGURATION | Vertical (Bottom Supply) Ducted Discharge | | | |
| Indoor Blower Speed (RPM) | 809 - 3 Turns Open Equivalent | | 914 - 1 Turn Open Equivalent | |
| External Static Pressure (IWG) | 0.5 | | 0.8 | |
| Airflow (CFM) | 1700 | | 1800 | |
| Blower Motor BHP | 0.64 | | 0.83 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 81 | 81 | 79 | 79 |
| 125 | 75 | 75 | 75 | 76 |
| 250 | 65 | 65 | 63 | 63 |
| 500 | 67 | 67 | 67 | 67 |
| 1000 | 63 | 63 | 63 | 63 |
| 2000 | 61 | 62 | 61 | 61 |
| 4000 | 62 | 62 | 61 | 61 |
| 8000 | 57 | 57 | 56 | 56 |

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

## Indoor Sound Power Levels (Horizontal Ducted Inlet, High Static Belt Drive)

| UNIT DESCRIPTION / MODEL | JA3ZT / 3 Ton / High Static Belt Drive | | | | | |
|---|---|---|---|---|---|---|
| TEST CONFIGURATION | Horizontal (Side Return) Ducted Inlet | | | | | |
| Indoor Blower Speed (RPM) | 876 - 4 Turns Open Equivalent | | 1,064 - 1/2 Turn Open Equivalent | | 1,190 - 2.5 Turns Open Equivalent[1] | |
| External Static Pressure (IWG) | 1.0 | | 1.6 | | 2.0 [1] | |
| Nominal Airflow (CFM) | 1,200 | | 1,100 | | 1,000 | |
| Blower Motor BHP | 0.64 | | 0.93 | | 1.08 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[2] (dB) | ID Blower Only (dB) | Cooling Operation[2] (dB) | ID Blower Only (dB) | Cooling Operation[2] (dB) |
| 63 | 75 | 80 | 81 | 81 | 81 | 83 |
| 125 | 69 | 71 | 71 | 73 | 73 | 75 |
| 250 | 62 | 68 | 66 | 71 | 68 | 70 |
| 500 | 54 | 56 | 57 | 59 | 59 | 60 |
| 1000 | 52 | 56 | 56 | 58 | 58 | 60 |
| 2000 | 47 | 49 | 52 | 52 | 54 | 56 |
| 4000 | 43 | 45 | 48 | 49 | 51 | 53 |
| 8000 | 43 | 45 | 45 | 46 | 47 | 48 |

1. Requires driven pulley #AK-56, normal high static pulley is an #AK-69.
2. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA4ZT / 4 Ton / High Static Belt Drive | | | | | |
|---|---|---|---|---|---|---|
| TEST CONFIGURATION | Horizontal (Side Return) Ducted Inlet | | | | | |
| Indoor Blower Speed (RPM) | 965 - 5.5 Turns Open Equivalent | | 1,088 - 4 Turns Open Equivalent | | 1,186 - 2.5 Turns Open Equivalent | |
| External Static Pressure (IWG) | 1.0 | | 1.6 | | 2.0 | |
| Nominal Airflow (CFM) | 1,600 | | 1,400 | | 1,200 | |
| Blower Motor BHP | 0.86 | | 1.03 | | 1.13 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 74 | 80 | 77 | 80 | 81 | 81 |
| 125 | 69 | 74 | 72 | 75 | 75 | 76 |
| 250 | 68 | 68 | 68 | 69 | 70 | 71 |
| 500 | 62 | 62 | 60 | 61 | 61 | 63 |
| 1000 | 60 | 61 | 58 | 58 | 59 | 60 |
| 2000 | 57 | 57 | 53 | 54 | 55 | 56 |
| 4000 | 56 | 56 | 49 | 50 | 51 | 52 |
| 8000 | 54 | 54 | 45 | 47 | 47 | 48 |

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA5ZT / 5 Ton / High Static Belt Drive | | | | | |
|---|---|---|---|---|---|---|
| TEST CONFIGURATION | Horizontal (Side Return) Ducted Inlet | | | | | |
| Indoor Blower Speed (RPM) | 1,012- 5.5 Turns Open Equivalent | | 1,134 - 3 Turns Open Equivalent | | 1,174 - 2 Turns Open Equivalent | |
| External Static Pressure (IWG) | 1.0 | | 1.6 | | 2.0 | |
| Nominal Airflow (CFM) | 2,000 | | 1,800 | | 1,600 | |
| Blower Motor BHP | 1.04 | | 1.25 | | 1.39 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 76 | 78 | 78 | 79 | 79 | 81 |
| 125 | 70 | 73 | 73 | 76 | 74 | 77 |
| 250 | 68 | 70 | 68 | 69 | 69 | 70 |
| 500 | 61 | 62 | 61 | 62 | 60 | 62 |
| 1000 | 61 | 62 | 61 | 62 | 58 | 60 |
| 2000 | 57 | 58 | 57 | 58 | 54 | 56 |
| 4000 | 56 | 56 | 55 | 56 | 52 | 53 |
| 8000 | 50 | 50 | 50 | 50 | 47 | 48 |

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

## Indoor Sound Power Levels (Horizontal Ducted Discharge, High Static Belt Drive)

| UNIT DESCRIPTION / MODEL | JA3ZT / 3 Ton / High Static Belt Drive | | | | | |
|---|---|---|---|---|---|---|
| TEST CONFIGURATION | Horizontal (Side Supply) Ducted Discharge | | | | | |
| Indoor Blower Speed (RPM) | 896 - 3.5 Turns Open Equivalent | | 1,072 - Fully Closed Equivalent | | 1,170 - 2.5 Turns Open Equivalent[1] | |
| External Static Pressure (IWG) | 1.0 | | 1.6 | | 2.0 [1] | |
| Nominal Airflow (CFM) | 1,200 | | 1,100 | | 1,000 | |
| Blower Motor BHP | 0.64 | | 0.93 | | 1.08 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[2] (dB) | ID Blower Only (dB) | Cooling Operation[2] (dB) | ID Blower Only (dB) | Cooling Operation[2] (dB) |
| 63 | 77 | 81 | 83 | 84 | 83 | 84 |
| 125 | 74 | 76 | 76 | 77 | 80 | 80 |
| 250 | 67 | 68 | 70 | 70 | 72 | 73 |
| 500 | 65 | 66 | 67 | 67 | 67 | 68 |
| 1000 | 61 | 62 | 67 | 67 | 66 | 69 |
| 2000 | 58 | 60 | 63 | 63 | 63 | 64 |
| 4000 | 57 | 59 | 62 | 62 | 62 | 63 |
| 8000 | 51 | 53 | 56 | 57 | 56 | 58 |

1. Requires driven pulley #AK-56, normal high static pulley is an #AK-69.
2. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA4ZT / 4 Ton / High Static Belt Drive | | | | | |
|---|---|---|---|---|---|---|
| TEST CONFIGURATION | Horizontal (Side Supply) Ducted Discharge | | | | | |
| Indoor Blower Speed (RPM) | 922 - 6 Turns Open Equivalent | | 1,069 - 4 Turns Open Equivalent | | 1,165 - 2.5 Turns Open Equivalent | |
| External Static Pressure (IWG) | 1.0 | | 1.6 | | 2.0 | |
| Nominal Airflow (CFM) | 1,600 | | 1,400 | | 1,200 | |
| Blower Motor BHP | 0.86 | | 1.03 | | 1.13 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 80 | 82 | 82 | 83 | 84 | 84 |
| 125 | 76 | 77 | 76 | 77 | 78 | 79 |
| 250 | 71 | 72 | 72 | 72 | 74 | 74 |
| 500 | 69 | 69 | 69 | 69 | 70 | 70 |
| 1000 | 65 | 65 | 69 | 69 | 70 | 70 |
| 2000 | 64 | 64 | 64 | 64 | 65 | 65 |
| 4000 | 63 | 63 | 63 | 63 | 64 | 64 |
| 8000 | 58 | 58 | 58 | 58 | 59 | 59 |

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA5ZT / 5 Ton / High Static Belt Drive | | | | | |
|---|---|---|---|---|---|---|
| TEST CONFIGURATION | Horizontal (Side Supply) Ducted Discharge | | | | | |
| Indoor Blower Speed (RPM) | 1,009- 5.5 Turns Open Equivalent | | 1,131 - 3 Turns Open Equivalent | | 1,184 - 2 Turns Open Equivalent | |
| External Static Pressure (IWG) | 1.0 | | 1.6 | | 2.0 | |
| Nominal Airflow (CFM) | 2,000 | | 1,800 | | 1,600 | |
| Blower Motor BHP | 1.04 | | 1.25 | | 1.39 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 84 | 85 | 82 | 83 | 82 | 83 |
| 125 | 78 | 79 | 79 | 79 | 78 | 79 |
| 250 | 75 | 75 | 74 | 75 | 73 | 73 |
| 500 | 71 | 71 | 70 | 71 | 69 | 69 |
| 1000 | 69 | 69 | 71 | 71 | 71 | 72 |
| 2000 | 66 | 67 | 67 | 67 | 66 | 66 |
| 4000 | 66 | 66 | 66 | 67 | 66 | 66 |
| 8000 | 61 | 62 | 61 | 62 | 60 | 60 |

1. Cooling Operation – ID blower, compressor and outdoor fan operating at 230 VAC.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

## Indoor Sound Power Levels (Vertical Ducted Inlet, High Static Belt Drive)

| UNIT DESCRIPTION / MODEL | JA3ZT / 3 Ton / High Static Belt Drive | | | | | |
|---|---|---|---|---|---|---|
| TEST CONFIGURATION | Vertical (Bottom Return) Ducted Inlet | | | | | |
| Indoor Blower Speed (RPM) | 927 - 3 Turns Open Equivalent | | 1,085 - 1/2 Turn Open Equivalent | | 1,190 - 2.5 Turns Open Equivalent[1] | |
| External Static Pressure (IWG) | 1.0 | | 1.6 | | 2.0[1] | |
| Nominal Airflow (CFM) | 1,200 | | 1,100 | | 1,000 | |
| Blower Motor BHP | 0.68 | | 0.93 | | 1.09 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[2] (dB) | ID Blower Only (dB) | Cooling Operation[2] (dB) | ID Blower Only (dB) | Cooling Operation[2] (dB) |
| 63 | 77 | 79 | 82 | 83 | 79 | 81 |
| 125 | 68 | 69 | 70 | 71 | 72 | 73 |
| 250 | 60 | 67 | 62 | 69 | 64 | 67 |
| 500 | 58 | 58 | 63 | 63 | 62 | 63 |
| 1000 | 54 | 55 | 60 | 60 | 60 | 60 |
| 2000 | 48 | 49 | 56 | 56 | 55 | 55 |
| 4000 | 43 | 44 | 48 | 49 | 51 | 51 |
| 8000 | 44 | 44 | 45 | 46 | 47 | 47 |

1. Requires driven pulley #AK-56, normal high static pulley is an #AK-69.
2. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA4ZT / 4 Ton / High Static Belt Drive | | | | | |
|---|---|---|---|---|---|---|
| TEST CONFIGURATION | Vertical (Bottom Return) Ducted Inlet | | | | | |
| Indoor Blower Speed (RPM) | 968 - 5.5 Turns Open Equivalent | | 1,120 - 3.5 Turns Open Equivalent | | 1,218 - 2.0 Turns Open Equivalent | |
| External Static Pressure (IWG) | 1.0 | | 1.6 | | 2.0 | |
| Nominal Airflow (CFM) | 1,600 | | 1,400 | | 1,200 | |
| Blower Motor BHP | 0.86 | | 1.03 | | 1.13 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 77 | 79 | 78 | 78 | 81 | 81 |
| 125 | 69 | 73 | 71 | 73 | 73 | 74 |
| 250 | 63 | 63 | 63 | 64 | 66 | 66 |
| 500 | 63 | 64 | 62 | 63 | 64 | 64 |
| 1000 | 59 | 59 | 59 | 59 | 61 | 61 |
| 2000 | 54 | 54 | 53 | 54 | 56 | 56 |
| 4000 | 49 | 49 | 48 | 48 | 50 | 51 |
| 8000 | 45 | 46 | 45 | 46 | 47 | 47 |

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA5ZT / 5 Ton / High Static Belt Drive | | | | | |
|---|---|---|---|---|---|---|
| TEST CONFIGURATION | Vertical (Bottom Return) Ducted Inlet | | | | | |
| Indoor Blower Speed (RPM) | 1,039 - 5 Turns Open Equivalent | | 1,143 - 3 Turns Open Equivalent | | 1,201 - 2 Turns Open Equivalent | |
| External Static Pressure (IWG) | 1.0 | | 1.6 | | 2.0 | |
| Nominal Airflow (CFM) | 2,000 | | 1,800 | | 1,600 | |
| Blower Motor BHP | 1.11 | | 1.25 | | 1.39 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 79 | 80 | 77 | 77 | 81 | 81 |
| 125 | 74 | 75 | 71 | 73 | 73 | 74 |
| 250 | 63 | 65 | 63 | 64 | 63 | 65 |
| 500 | 62 | 63 | 64 | 64 | 62 | 62 |
| 1000 | 61 | 61 | 61 | 61 | 59 | 59 |
| 2000 | 55 | 56 | 55 | 56 | 54 | 55 |
| 4000 | 52 | 52 | 50 | 51 | 50 | 50 |
| 8000 | 47 | 47 | 46 | 46 | 46 | 46 |

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

## Indoor Sound Power Levels (Vertical Ducted Discharge, High Static Belt Drive)

| UNIT DESCRIPTION / MODEL | JA3ZT / 3 Ton / High Static Belt Drive | | | | | |
|---|---|---|---|---|---|---|
| TEST CONFIGURATION | Vertical (Bottom Supply) Ducted Discharge | | | | | |
| Indoor Blower Speed (RPM) | 920 - 3.0 Turns Open Equivalent | | 1,074 - Fully Closed Equivalent | | 1,189 - 2.0 Turns Open Equivalent[1] | |
| External Static Pressure (IWG) | 1.0 | | 1.6 | | 2.0[1] | |
| Nominal Airflow (CFM) | 1,200 | | 1,100 | | 1,000 | |
| Blower Motor BHP | 0.68 | | 0.93 | | 1.09 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[2] (dB) | ID Blower Only (dB) | Cooling Operation[2] (dB) | ID Blower Only (dB) | Cooling Operation[2] (dB) |
| 63 | 81 | 82 | 81 | 81 | 82 | 82 |
| 125 | 78 | 78 | 78 | 78 | 81 | 81 |
| 250 | 69 | 70 | 70 | 71 | 74 | 74 |
| 500 | 67 | 68 | 68 | 69 | 71 | 71 |
| 1000 | 62 | 63 | 67 | 68 | 70 | 71 |
| 2000 | 60 | 61 | 62 | 63 | 65 | 66 |
| 4000 | 61 | 61 | 63 | 63 | 66 | 66 |
| 8000 | 54 | 55 | 57 | 57 | 60 | 61 |

1. Requires driven pulley #AK-56, normal high static pulley is an #AK-69.
2. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA4ZT / 4 Ton / High Static Belt Drive | | | | | |
|---|---|---|---|---|---|---|
| TEST CONFIGURATION | Vertical (Bottom Supply) Ducted Discharge | | | | | |
| Indoor Blower Speed (RPM) | 962 - 5.5 Turns Open Equivalent | | 1,092 - 3.5 Turns Open Equivalent | | 1,190 - 2.0 Turns Open Equivalent | |
| External Static Pressure (IWG) | 1.0 | | 1.6 | | 2.0 | |
| Nominal Airflow (CFM) | 1,600 | | 1,400 | | 1,200 | |
| Blower Motor BHP | 0.86 | | 1.03 | | 1.13 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 83 | 84 | 82 | 82 | 83 | 83 |
| 125 | 80 | 81 | 79 | 80 | 80 | 81 |
| 250 | 75 | 75 | 74 | 75 | 75 | 75 |
| 500 | 71 | 72 | 70 | 71 | 71 | 72 |
| 1000 | 66 | 67 | 70 | 71 | 72 | 72 |
| 2000 | 63 | 64 | 64 | 64 | 65 | 65 |
| 4000 | 64 | 64 | 64 | 64 | 65 | 66 |
| 8000 | 58 | 59 | 59 | 59 | 60 | 60 |

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

| UNIT DESCRIPTION / MODEL | JA5ZT / 5 Ton / High Static Belt Drive | | | | | |
|---|---|---|---|---|---|---|
| TEST CONFIGURATION | Vertical (Bottom Supply) Ducted Discharge | | | | | |
| Indoor Blower Speed (RPM) | 1,033 - 5.5 Turns Open Equivalent | | 1,135 - 3 turns Open Equivalent | | 1,175 - 2.5 Turns Open Equivalent | |
| External Static Pressure (IWG) | 1.0 | | 1.6 | | 2.0 | |
| Nominal Airflow (CFM) | 2,000 | | 1,135 | | 1,175 | |
| Blower Motor BHP | 1.11 | | 1.25 | | 1.39 | |
| Octave Center Freq. Hz | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) | ID Blower Only (dB) | Cooling Operation[1] (dB) |
| 63 | 83 | 83 | 83 | 83 | 85 | 86 |
| 125 | 84 | 84 | 82 | 82 | 79 | 81 |
| 250 | 79 | 80 | 77 | 78 | 66 | 66 |
| 500 | 73 | 73 | 70 | 71 | 65 | 66 |
| 1000 | 69 | 70 | 69 | 70 | 61 | 65 |
| 2000 | 67 | 67 | 65 | 66 | 60 | 61 |
| 4000 | 67 | 68 | 66 | 67 | 61 | 62 |
| 8000 | 62 | 63 | 60 | 61 | 54 | 54 |

1. Differentials for Cooling Operation (IDB, COMP, & ODF) are logarithmically calculated from the horizontal flow sound test.

- Tested in accordance with AHRI Standard 260-2001. Refer to 2001 Standard for Sound Rating of Ducted Air Moving and Conditioning Equipment.
- Testing datum includes effect of standard inlet air filters.
- Test duct dimension: 18 in. wide x 28 in. high x 8 ft. long, no elbows.
- Test duct termination is flush with reverberant room wall.
- Duct end (sound reflection) corrections included: (7.2, 3.4, 1.2, 0.4, 0.1, 0, 0, 0) dB at (63, 125, 250, 500, 1k, 2k, 4k, 8k) Hz respectively.

### Outdoor Sound Power Levels JA3 thru JA5ZT

| Size (Tons) | Model | Sound Rating[1] dB (A) | Octave Band Centerline Frequency (Hz) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| JA3 (3) | J**ZT | 75 | 78.5 | 78.5 | 74.0 | 72.0 | 68.5 | 65.0 | 60.5 | 53.0 |
| JA4 (4) | J**ZT | 75 | 83.0 | 78.5 | 74.5 | 72.0 | 69.5 | 63.0 | 58.0 | 55.5 |
| JA5 (5) | J**ZT | 75 | 80.0 | 78.0 | 74.5 | 72.5 | 69.0 | 63.0 | 57.5 | 52.0 |

1. Rated in accordance with AHRI 270 standard.

# Electrical Data

### JA3 thru JA5ZT Standard Indoor Blower - Without Powered Convenience Outlet

| Size (Tons) | Volt | Compressors (each) | | | OD Fan Motors (each) | Supply Blower Motor | Pwr Exh Motor | Pwr Conv Outlet | Electric Heat Option | | | | MCA[1] (Amps) | MCA[1] w/Pwr Exh (Amps) | Max Fuse[2]/ Breaker[3] Size (Amps) | Max Fuse[2]/ Breaker[3] Size w/ Pwr Exh (Amps) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RLA | LRA | MCC | FLA | FLA | FLA | FLA | Model | kW | Stages | Amps | | | | |
| JA3 (3) | 208 | 11.6 | 73 | 18.1 | 3.5 | 4.2 | 5.5 | 0 | None | - | - | - | 25.7 | 31.2 | 35 | 40 |
| | | | | | | | | | E03 | 2.3 | 1 | 6.4 | 25.7 | 31.2 | 35 | 40 |
| | | | | | | | | | E06 | 4.5 | 1 | 12.5 | 25.7 | 31.2 | 35 | 40 |
| | | | | | | | | | E08 | 6.8 | 1 | 18.9 | 28.8 | 35.7 | 35 | 40 |
| | | | | | | | | | E15 | 11.3 | 2 | 31.4 | 44.5 | 51.3 | 45 | 60 |
| | 230 | 11.6 | 73 | 18.1 | 3.5 | 4.2 | 5.5 | 0 | None | - | - | - | 25.7 | 31.2 | 35 | 40 |
| | | | | | | | | | E03 | 3 | 1 | 7.2 | 25.7 | 31.2 | 35 | 40 |
| | | | | | | | | | E06 | 6 | 1 | 14.4 | 25.7 | 31.2 | 35 | 40 |
| | | | | | | | | | E08 | 9 | 1 | 21.7 | 32.3 | 39.2 | 35 | 40 |
| | | | | | | | | | E15 | 15 | 2 | 36.1 | 50.4 | 57.2 | 60 | 60 |
| | 460 | 5.7 | 38 | 8.9 | 3.5 | 2.1 | 2.2 | 0 | None | - | - | - | 12.7 | 14.9 | 15 | 20 |
| | | | | | | | | | E03 | 3 | 1 | 3.6 | 12.7 | 14.9 | 15 | 20 |
| | | | | | | | | | E06 | 6 | 1 | 7.2 | 12.7 | 14.9 | 15 | 20 |
| | | | | | | | | | E08 | 9 | 1 | 10.8 | 16.2 | 18.9 | 20 | 20 |
| | | | | | | | | | E15 | 15 | 2 | 18.0 | 25.2 | 27.9 | 30 | 30 |
| | 575 | 4 | 25.6 | 6.2 | 3.5 | 2.4 | 1.8 | 0 | None | - | - | - | 9.8 | 11.6 | 15 | 15 |
| | | | | | | | | | E08 | 9 | 1 | 8.7 | 13.3 | 15.6 | 15 | 20 |
| | | | | | | | | | E15 | 15 | 2 | 14.4 | 20.5 | 22.8 | 25 | 25 |
| JA4 (4) | 208 | 14 | 83.1 | 21.9 | 3.5 | 4.2 | 5.5 | 0 | None | - | - | - | 28.7 | 34.2 | 40 | 45 |
| | | | | | | | | | E06 | 4.5 | 1 | 12.5 | 28.7 | 34.2 | 40 | 45 |
| | | | | | | | | | E08 | 6.8 | 1 | 18.9 | 28.8 | 35.7 | 40 | 45 |
| | | | | | | | | | E15 | 11.3 | 2 | 31.4 | 44.5 | 51.3 | 45 | 60 |
| | | | | | | | | | E20 | 15 | 2 | 41.6 | 57.3 | 64.2 | 60 | 70 |
| | 230 | 14 | 83.1 | 21.9 | 3.5 | 4.2 | 5.5 | 0 | None | - | - | - | 28.7 | 34.2 | 40 | 45 |
| | | | | | | | | | E06 | 6 | 1 | 14.4 | 28.7 | 34.2 | 40 | 45 |
| | | | | | | | | | E08 | 9 | 1 | 21.7 | 32.3 | 39.2 | 40 | 45 |
| | | | | | | | | | E15 | 15 | 2 | 36.1 | 50.4 | 57.2 | 60 | 60 |
| | | | | | | | | | E20 | 20 | 2 | 48.1 | 65.4 | 72.3 | 70 | 80 |
| | 460 | 6.4 | 41 | 10 | 3.5 | 2.1 | 2.2 | 0 | None | - | - | - | 13.6 | 15.8 | 20 | 20 |
| | | | | | | | | | E06 | 6 | 1 | 7.2 | 13.6 | 15.8 | 20 | 20 |
| | | | | | | | | | E08 | 9 | 1 | 10.8 | 16.2 | 18.9 | 20 | 20 |
| | | | | | | | | | E15 | 15 | 2 | 18.0 | 25.2 | 27.9 | 30 | 30 |
| | | | | | | | | | E20 | 20 | 2 | 24.1 | 32.7 | 35.4 | 35 | 40 |
| | 575 | 4.6 | 33 | 7.1 | 3.5 | 2.4 | 1.8 | 0 | None | - | - | - | 11.0 | 12.8 | 15 | 15 |
| | | | | | | | | | E08 | 9 | 1 | 8.7 | 13.8 | 16.1 | 15 | 20 |
| | | | | | | | | | E15 | 15 | 2 | 14.4 | 21.0 | 23.3 | 25 | 25 |
| | | | | | | | | | E20 | 20 | 2 | 19.2 | 27.1 | 29.3 | 30 | 30 |
| JA5 (5) | 208 | 16.5 | 110 | 25.8 | 3.5 | 4.2 | 5.5 | 0 | None | - | - | - | 31.8 | 37.3 | 40 | 50 |
| | | | | | | | | | E06 | 4.5 | 1 | 12.5 | 31.8 | 37.3 | 40 | 50 |
| | | | | | | | | | E08 | 6.8 | 1 | 18.9 | 31.8 | 37.3 | 40 | 50 |
| | | | | | | | | | E15 | 11.3 | 2 | 31.4 | 44.5 | 51.3 | 45 | 60 |
| | | | | | | | | | E20 | 15 | 2 | 41.6 | 57.3 | 64.2 | 60 | 70 |
| | | | | | | | | | E23 | 18 | 2 | 50.0 | 67.7 | 74.6 | 70 | 80 |
| | 230 | 16.5 | 110 | 25.8 | 3.5 | 4.2 | 5.5 | 0 | None | - | - | - | 31.8 | 37.3 | 40 | 50 |
| | | | | | | | | | E06 | 6 | 1 | 14.4 | 31.8 | 37.3 | 40 | 50 |
| | | | | | | | | | E08 | 9 | 1 | 21.7 | 32.3 | 39.2 | 45 | 50 |
| | | | | | | | | | E15 | 15 | 2 | 36.1 | 50.4 | 57.2 | 60 | 60 |
| | | | | | | | | | E20 | 20 | 2 | 48.1 | 65.4 | 72.3 | 70 | 80 |
| | | | | | | | | | E23 | 24 | 2 | 57.7 | 77.4 | 84.3 | 80 | 90 |
| | 460 | 7.2 | 52 | 11.3 | 3.5 | 2.1 | 2.2 | 0 | None | - | - | - | 14.6 | 16.8 | 20 | 20 |
| | | | | | | | | | E06 | 6 | 1 | 7.2 | 14.6 | 16.8 | 20 | 20 |
| | | | | | | | | | E08 | 9 | 1 | 10.8 | 16.2 | 18.9 | 20 | 20 |
| | | | | | | | | | E15 | 15 | 2 | 18.0 | 25.2 | 27.9 | 30 | 30 |
| | | | | | | | | | E20 | 20 | 2 | 24.1 | 32.7 | 35.4 | 35 | 40 |
| | | | | | | | | | E23 | 24 | 2 | 28.9 | 38.7 | 41.5 | 40 | 45 |
| | 575 | 5.5 | 38.9 | 8.6 | 3.5 | 2.4 | 1.8 | 0 | None | - | - | - | 12.1 | 13.9 | 15 | 15 |
| | | | | | | | | | E08 | 9 | 1 | 8.7 | 13.8 | 16.1 | 15 | 20 |
| | | | | | | | | | E15 | 15 | 2 | 14.4 | 21.0 | 23.3 | 25 | 25 |
| | | | | | | | | | E20 | 20 | 2 | 19.2 | 27.1 | 29.3 | 30 | 30 |
| | | | | | | | | | E23 | 24 | 2 | 23.1 | 31.9 | 34.1 | 35 | 35 |

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

## JA3 thru JA5ZT Hi Static Indoor Blower - Without Powered Convenience Outlet

| Size (Tons) | Volt | Compressors (each) | | | OD Fan Motors (each) | Supply Blower Motor | Pwr Exh Motor | Pwr Conv Outlet | Electric Heat Option | | | | MCA[1] (Amps) | MCA[1] w/Pwr Exh (Amps) | Max Fuse[2]/ Breaker[3] Size (Amps) | Max Fuse[2]/ Breaker[3] Size w/ Pwr Exh (Amps) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RLA | LRA | MCC | FLA | FLA | FLA | FLA | Model | kW | Stages | Amps | | | | |
| JA3 (3) | 208 | 11.6 | 73 | 18.1 | 3.5 | 4.2 | 5.5 | 0 | None | - | - | - | 25.7 | 31.2 | 35 | 40 |
| | | | | | | | | | E03 | 2.3 | 1 | 6.4 | 25.7 | 31.2 | 35 | 40 |
| | | | | | | | | | E06 | 4.5 | 1 | 12.5 | 25.7 | 31.2 | 35 | 40 |
| | | | | | | | | | E08 | 6.8 | 1 | 18.9 | 28.8 | 35.7 | 35 | 40 |
| | | | | | | | | | E15 | 11.3 | 2 | 31.4 | 44.5 | 51.3 | 45 | 60 |
| | 230 | 11.6 | 73 | 18.1 | 3.5 | 4.2 | 5.5 | 0 | None | - | - | - | 25.7 | 31.2 | 35 | 40 |
| | | | | | | | | | E03 | 3 | 1 | 7.2 | 25.7 | 31.2 | 35 | 40 |
| | | | | | | | | | E06 | 6 | 1 | 14.4 | 25.7 | 31.2 | 35 | 40 |
| | | | | | | | | | E08 | 9 | 1 | 21.7 | 32.3 | 39.2 | 35 | 40 |
| | | | | | | | | | E15 | 15 | 2 | 36.1 | 50.4 | 57.2 | 60 | 60 |
| | 460 | 5.7 | 38 | 8.9 | 3.5 | 2.1 | 2.2 | 0 | None | - | - | - | 12.7 | 14.9 | 15 | 20 |
| | | | | | | | | | E03 | 3 | 1 | 3.6 | 12.7 | 14.9 | 15 | 20 |
| | | | | | | | | | E06 | 6 | 1 | 7.2 | 12.7 | 14.9 | 15 | 20 |
| | | | | | | | | | E08 | 9 | 1 | 10.8 | 16.2 | 18.9 | 20 | 20 |
| | | | | | | | | | E15 | 15 | 2 | 18.0 | 25.2 | 27.9 | 30 | 30 |
| | 575 | 4 | 25.6 | 6.2 | 3.5 | 2.4 | 1.8 | 0 | None | - | - | - | 9.8 | 11.6 | 15 | 15 |
| | | | | | | | | | E08 | 9 | 1 | 8.7 | 13.3 | 15.6 | 15 | 20 |
| | | | | | | | | | E15 | 15 | 2 | 14.4 | 20.5 | 22.8 | 25 | 25 |
| JA4 (4) | 208 | 14 | 83.1 | 21.9 | 3.5 | 4.2 | 5.5 | 0 | None | - | - | - | 28.7 | 34.2 | 40 | 45 |
| | | | | | | | | | E06 | 4.5 | 1 | 12.5 | 28.7 | 34.2 | 40 | 45 |
| | | | | | | | | | E08 | 6.8 | 1 | 18.9 | 28.8 | 35.7 | 40 | 45 |
| | | | | | | | | | E15 | 11.3 | 2 | 31.4 | 44.5 | 51.3 | 45 | 60 |
| | | | | | | | | | E20 | 15 | 2 | 41.6 | 57.3 | 64.2 | 60 | 70 |
| | 230 | 14 | 83.1 | 21.9 | 3.5 | 4.2 | 5.5 | 0 | None | - | - | - | 28.7 | 34.2 | 40 | 45 |
| | | | | | | | | | E06 | 6 | 1 | 14.4 | 28.7 | 34.2 | 40 | 45 |
| | | | | | | | | | E08 | 9 | 1 | 21.7 | 32.3 | 39.2 | 40 | 45 |
| | | | | | | | | | E15 | 15 | 2 | 36.1 | 50.4 | 57.2 | 60 | 60 |
| | | | | | | | | | E20 | 20 | 2 | 48.1 | 65.4 | 72.3 | 70 | 80 |
| | 460 | 6.4 | 41 | 10 | 3.5 | 2.1 | 2.2 | 0 | None | - | - | - | 13.6 | 15.8 | 20 | 20 |
| | | | | | | | | | E06 | 6 | 1 | 7.2 | 13.6 | 15.8 | 20 | 20 |
| | | | | | | | | | E08 | 9 | 1 | 10.8 | 16.2 | 18.9 | 20 | 20 |
| | | | | | | | | | E15 | 15 | 2 | 18.0 | 25.2 | 27.9 | 30 | 30 |
| | | | | | | | | | E20 | 20 | 2 | 24.1 | 32.7 | 35.4 | 35 | 40 |
| | 575 | 4.6 | 33 | 7.1 | 3.5 | 2.4 | 1.8 | 0 | None | - | - | - | 11.0 | 12.8 | 15 | 15 |
| | | | | | | | | | E08 | 9 | 1 | 8.7 | 13.8 | 16.1 | 15 | 20 |
| | | | | | | | | | E15 | 15 | 2 | 14.4 | 21.0 | 23.3 | 25 | 25 |
| | | | | | | | | | E20 | 20 | 2 | 19.2 | 27.1 | 29.3 | 30 | 30 |
| JA5 (5) | 208 | 16.5 | 110 | 25.8 | 3.5 | 6.3 | 5.5 | 0 | None | - | - | - | 33.9 | 39.4 | 45 | 45 |
| | | | | | | | | | E06 | 4.5 | 1 | 12.5 | 33.9 | 39.4 | 45 | 45 |
| | | | | | | | | | E08 | 6.8 | 1 | 18.9 | 33.9 | 39.4 | 45 | 45 |
| | | | | | | | | | E15 | 11.3 | 2 | 31.4 | 47.1 | 54.0 | 50 | 60 |
| | | | | | | | | | E20 | 15 | 2 | 41.6 | 59.9 | 66.8 | 60 | 70 |
| | | | | | | | | | E23 | 18 | 2 | 50.0 | 70.3 | 77.2 | 80 | 80 |
| | 230 | 16.5 | 110 | 25.8 | 3.5 | 6.3 | 5.5 | 0 | None | - | - | - | 33.9 | 39.4 | 45 | 50 |
| | | | | | | | | | E06 | 6 | 1 | 14.4 | 33.9 | 39.4 | 45 | 50 |
| | | | | | | | | | E08 | 9 | 1 | 21.7 | 34.9 | 41.8 | 45 | 50 |
| | | | | | | | | | E15 | 15 | 2 | 36.1 | 53.0 | 59.9 | 60 | 70 |
| | | | | | | | | | E20 | 20 | 2 | 48.1 | 68.0 | 74.9 | 70 | 80 |
| | | | | | | | | | E23 | 24 | 2 | 57.7 | 80.0 | 86.9 | 80 | 90 |
| | 460 | 7.2 | 52 | 11.3 | 3.5 | 3.15 | 2.2 | 0 | None | - | - | - | 15.7 | 17.9 | 20 | 25 |
| | | | | | | | | | E06 | 6 | 1 | 7.2 | 15.7 | 17.9 | 20 | 25 |
| | | | | | | | | | E08 | 9 | 1 | 10.8 | 17.5 | 20.2 | 20 | 25 |
| | | | | | | | | | E15 | 15 | 2 | 18.0 | 26.5 | 29.2 | 30 | 30 |
| | | | | | | | | | E20 | 20 | 2 | 24.1 | 34.0 | 36.8 | 35 | 40 |
| | | | | | | | | | E23 | 24 | 2 | 28.9 | 40.0 | 42.8 | 40 | 45 |
| | 575 | 5.5 | 38.9 | 8.6 | 3.5 | 2.2 | 1.8 | 0 | None | - | - | - | 11.9 | 13.7 | 15 | 15 |
| | | | | | | | | | E08 | 9 | 1 | 8.7 | 13.6 | 15.8 | 15 | 20 |
| | | | | | | | | | E15 | 15 | 2 | 14.4 | 20.8 | 23.0 | 25 | 25 |
| | | | | | | | | | E20 | 20 | 2 | 19.2 | 26.8 | 29.1 | 30 | 30 |
| | | | | | | | | | E23 | 24 | 2 | 23.1 | 31.6 | 33.9 | 35 | 35 |

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

## JA3 thru JA5ZT Standard Indoor Blower - With Powered Convenience Outlet

| Size (Tons) | Volt | Compressors (each) | | | OD Fan Motors (each) | Supply Blower Motor | Pwr Exh Motor | Pwr Conv Outlet | Electric Heat Option | | | | MCA[1] (Amps) | MCA[1] w/Pwr Exh (Amps) | Max Fuse[2]/ Breaker[3] Size (Amps) | Max Fuse[2]/ Breaker[3] Size w/ Pwr Exh (Amps) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RLA | LRA | MCC | FLA | FLA | FLA | FLA | Model | kW | Stages | Amps | | | | |
| JA3 (3) | 208 | 11.6 | 73 | 18.1 | 3.5 | 4.2 | 5.5 | 10 | None | - | - | - | 35.7 | 41.2 | 45 | 50 |
| | | | | | | | | | E03 | 2.3 | 1 | 6.4 | 35.7 | 41.2 | 45 | 50 |
| | | | | | | | | | E06 | 4.5 | 1 | 12.5 | 35.7 | 41.2 | 45 | 50 |
| | | | | | | | | | E08 | 6.8 | 1 | 18.9 | 41.3 | 48.2 | 45 | 50 |
| | | | | | | | | | E15 | 11.3 | 2 | 31.4 | 57.0 | 63.8 | 60 | 70 |
| | 230 | 11.6 | 73 | 18.1 | 3.5 | 4.2 | 5.5 | 10 | None | - | - | - | 35.7 | 41.2 | 45 | 50 |
| | | | | | | | | | E03 | 3 | 1 | 7.2 | 35.7 | 41.2 | 45 | 50 |
| | | | | | | | | | E06 | 6 | 1 | 14.4 | 35.8 | 42.7 | 45 | 50 |
| | | | | | | | | | E08 | 9 | 1 | 21.7 | 44.8 | 51.7 | 45 | 60 |
| | | | | | | | | | E15 | 15 | 2 | 36.1 | 62.9 | 69.7 | 70 | 70 |
| | 460 | 5.7 | 38 | 8.9 | 3.5 | 2.1 | 2.2 | 5 | None | - | - | - | 17.7 | 19.9 | 20 | 25 |
| | | | | | | | | | E03 | 3 | 1 | 3.6 | 17.7 | 19.9 | 20 | 25 |
| | | | | | | | | | E06 | 6 | 1 | 7.2 | 17.9 | 20.6 | 20 | 25 |
| | | | | | | | | | E08 | 9 | 1 | 10.8 | 22.4 | 25.2 | 25 | 30 |
| | | | | | | | | | E15 | 15 | 2 | 18.0 | 31.4 | 34.2 | 35 | 35 |
| | 575 | 4 | 25.6 | 6.2 | 3.5 | 2.4 | 1.8 | 4 | None | - | - | - | 13.8 | 15.6 | 15 | 20 |
| | | | | | | | | | E08 | 9 | 1 | 8.7 | 18.3 | 20.6 | 20 | 25 |
| | | | | | | | | | E15 | 15 | 2 | 14.4 | 25.5 | 27.8 | 30 | 30 |
| JA4 (4) | 208 | 14 | 83.1 | 21.9 | 3.5 | 4.2 | 5.5 | 10 | None | - | - | - | 38.7 | 44.2 | 50 | 50 |
| | | | | | | | | | E06 | 4.5 | 1 | 12.5 | 38.7 | 44.2 | 50 | 50 |
| | | | | | | | | | E08 | 6.8 | 1 | 18.9 | 41.3 | 48.2 | 50 | 50 |
| | | | | | | | | | E15 | 11.3 | 2 | 31.4 | 57.0 | 63.8 | 60 | 70 |
| | | | | | | | | | E20 | 15 | 2 | 41.6 | 69.8 | 76.7 | 70 | 80 |
| | 230 | 14 | 83.1 | 21.9 | 3.5 | 4.2 | 5.5 | 10 | None | - | - | - | 38.7 | 44.2 | 50 | 50 |
| | | | | | | | | | E06 | 6 | 1 | 14.4 | 38.7 | 44.2 | 50 | 50 |
| | | | | | | | | | E08 | 9 | 1 | 21.7 | 44.8 | 51.7 | 50 | 60 |
| | | | | | | | | | E15 | 15 | 2 | 36.1 | 62.9 | 69.7 | 70 | 70 |
| | | | | | | | | | E20 | 20 | 2 | 48.1 | 77.9 | 84.8 | 80 | 90 |
| | 460 | 6.4 | 41 | 10 | 3.5 | 2.1 | 2.2 | 5 | None | - | - | - | 18.6 | 20.8 | 25 | 25 |
| | | | | | | | | | E06 | 6 | 1 | 7.2 | 18.6 | 20.8 | 25 | 25 |
| | | | | | | | | | E08 | 9 | 1 | 10.8 | 22.4 | 25.2 | 25 | 30 |
| | | | | | | | | | E15 | 15 | 2 | 18.0 | 31.4 | 34.2 | 35 | 35 |
| | | | | | | | | | E20 | 20 | 2 | 24.1 | 38.9 | 41.7 | 40 | 45 |
| | 575 | 4.6 | 33 | 7.1 | 3.5 | 2.4 | 1.8 | 4 | None | - | - | - | 15.0 | 21.0 | 15 | 20 |
| | | | | | | | | | E08 | 9 | 1 | 8.7 | 18.8 | 21.1 | 20 | 25 |
| | | | | | | | | | E15 | 15 | 2 | 14.4 | 26.0 | 28.3 | 30 | 30 |
| | | | | | | | | | E20 | 20 | 2 | 19.2 | 32.1 | 34.3 | 35 | 35 |
| JA5 (5) | 208 | 16.5 | 110 | 25.8 | 3.5 | 4.2 | 5.5 | 10 | None | - | - | - | 41.8 | 47.3 | 50 | 60 |
| | | | | | | | | | E06 | 4.5 | 1 | 12.5 | 41.8 | 47.3 | 50 | 60 |
| | | | | | | | | | E08 | 6.8 | 1 | 18.9 | 41.8 | 48.2 | 50 | 60 |
| | | | | | | | | | E15 | 11.3 | 2 | 31.4 | 57.0 | 63.8 | 60 | 70 |
| | | | | | | | | | E20 | 15 | 2 | 41.6 | 69.8 | 76.7 | 70 | 80 |
| | | | | | | | | | E23 | 18 | 2 | 50.0 | 80.2 | 87.1 | 90 | 90 |
| | 230 | 16.5 | 110 | 25.8 | 3.5 | 4.2 | 5.5 | 10 | None | - | - | - | 41.8 | 47.3 | 50 | 60 |
| | | | | | | | | | E06 | 6 | 1 | 14.4 | 41.8 | 47.3 | 50 | 60 |
| | | | | | | | | | E08 | 9 | 1 | 21.7 | 44.8 | 51.7 | 50 | 60 |
| | | | | | | | | | E15 | 15 | 2 | 36.1 | 62.9 | 69.7 | 70 | 70 |
| | | | | | | | | | E20 | 20 | 2 | 48.1 | 77.9 | 84.8 | 80 | 90 |
| | | | | | | | | | E23 | 24 | 2 | 57.7 | 89.9 | 96.8 | 90 | 100 |
| | 460 | 7.2 | 52 | 11.3 | 3.5 | 2.1 | 2.2 | 5 | None | - | - | - | 19.6 | 21.8 | 25 | 25 |
| | | | | | | | | | E06 | 6 | 1 | 7.2 | 19.6 | 21.8 | 25 | 25 |
| | | | | | | | | | E08 | 9 | 1 | 10.8 | 22.4 | 25.2 | 25 | 30 |
| | | | | | | | | | E15 | 15 | 2 | 18.0 | 31.4 | 34.2 | 35 | 35 |
| | | | | | | | | | E20 | 20 | 2 | 24.1 | 38.9 | 41.7 | 40 | 45 |
| | | | | | | | | | E23 | 24 | 2 | 28.9 | 45.0 | 47.7 | 45 | 50 |
| | 575 | 5.5 | 38.9 | 8.6 | 3.5 | 2.4 | 1.8 | 4 | None | - | - | - | 16.1 | 17.9 | 20 | 20 |
| | | | | | | | | | E08 | 9 | 1 | 8.7 | 18.8 | 21.1 | 20 | 25 |
| | | | | | | | | | E15 | 15 | 2 | 14.4 | 26.0 | 28.3 | 30 | 30 |
| | | | | | | | | | E20 | 20 | 2 | 19.2 | 32.1 | 34.3 | 35 | 35 |
| | | | | | | | | | E23 | 24 | 2 | 23.1 | 36.9 | 39.1 | 40 | 40 |

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

## JA3 thru JA5ZT Hi Static Indoor Blower - With Powered Convenience Outlet

| Size (Tons) | Volt | Compressors (each) | | | OD Fan Motors (each) | Supply Blower Motor | Pwr Exh Motor | Pwr Conv Outlet | Electric Heat Option | | | | MCA[1] (Amps) | MCA[1] w/Pwr Exh (Amps) | Max Fuse[2]/ Breaker[3] Size (Amps) | Max Fuse[2]/ Breaker[3] Size w/ Pwr Exh (Amps) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RLA | LRA | MCC | FLA | FLA | FLA | FLA | Model | kW | Stages | Amps | | | | |
| JA3 (3) | 208 | 11.6 | 73 | 18.1 | 3.5 | 4.2 | 5.5 | 10 | None | - | - | - | 35.7 | 41.2 | 45 | 50 |
| | | | | | | | | | E03 | 2.3 | 1 | 6.4 | 35.7 | 41.2 | 45 | 50 |
| | | | | | | | | | E06 | 4.5 | 1 | 12.5 | 35.7 | 41.2 | 45 | 50 |
| | | | | | | | | | E08 | 6.8 | 1 | 18.9 | 41.3 | 48.2 | 45 | 50 |
| | | | | | | | | | E15 | 11.3 | 2 | 31.4 | 57.0 | 63.8 | 60 | 70 |
| | 230 | 11.6 | 73 | 18.1 | 3.5 | 4.2 | 5.5 | 10 | None | - | - | - | 35.7 | 41.2 | 45 | 50 |
| | | | | | | | | | E03 | 3 | 1 | 7.2 | 35.7 | 41.2 | 45 | 50 |
| | | | | | | | | | E06 | 6 | 1 | 14.4 | 35.8 | 42.7 | 45 | 50 |
| | | | | | | | | | E08 | 9 | 1 | 21.7 | 44.8 | 51.7 | 45 | 60 |
| | | | | | | | | | E15 | 15 | 2 | 36.1 | 62.9 | 69.7 | 70 | 70 |
| | 460 | 5.7 | 38 | 8.9 | 3.5 | 2.1 | 2.2 | 5 | None | - | - | - | 17.7 | 19.9 | 20 | 25 |
| | | | | | | | | | E03 | 3 | 1 | 3.6 | 17.7 | 19.9 | 20 | 25 |
| | | | | | | | | | E06 | 6 | 1 | 7.2 | 17.9 | 20.6 | 20 | 25 |
| | | | | | | | | | E08 | 9 | 1 | 10.8 | 22.4 | 25.2 | 25 | 30 |
| | | | | | | | | | E15 | 15 | 2 | 18.0 | 31.4 | 34.2 | 35 | 35 |
| | 575 | 4 | 25.6 | 6.2 | 3.5 | 2.4 | 1.8 | 4 | None | - | - | - | 13.8 | 15.6 | 15 | 20 |
| | | | | | | | | | E08 | 9 | 1 | 8.7 | 18.3 | 20.6 | 20 | 25 |
| | | | | | | | | | E15 | 15 | 2 | 14.4 | 25.5 | 27.8 | 30 | 30 |
| JA4 (4) | 208 | 14 | 83.1 | 21.9 | 3.5 | 4.2 | 5.5 | 10 | None | - | - | - | 38.7 | 44.2 | 50 | 50 |
| | | | | | | | | | E06 | 4.5 | 1 | 12.5 | 38.7 | 44.2 | 50 | 50 |
| | | | | | | | | | E08 | 6.8 | 1 | 18.9 | 41.3 | 48.2 | 50 | 50 |
| | | | | | | | | | E15 | 11.3 | 2 | 31.4 | 57.0 | 63.8 | 60 | 70 |
| | | | | | | | | | E20 | 15 | 2 | 41.6 | 69.8 | 76.7 | 70 | 80 |
| | 230 | 14 | 83.1 | 21.9 | 3.5 | 4.2 | 5.5 | 10 | None | - | - | - | 38.7 | 44.2 | 50 | 50 |
| | | | | | | | | | E06 | 6 | 1 | 14.4 | 38.7 | 44.2 | 50 | 50 |
| | | | | | | | | | E08 | 9 | 1 | 21.7 | 44.8 | 51.7 | 50 | 60 |
| | | | | | | | | | E15 | 15 | 2 | 36.1 | 62.9 | 69.7 | 70 | 70 |
| | | | | | | | | | E20 | 20 | 2 | 48.1 | 77.9 | 84.8 | 80 | 90 |
| | 460 | 6.4 | 41 | 10 | 3.5 | 2.1 | 2.2 | 5 | None | - | - | - | 18.6 | 20.8 | 25 | 25 |
| | | | | | | | | | E06 | 6 | 1 | 7.2 | 18.6 | 20.8 | 25 | 25 |
| | | | | | | | | | E08 | 9 | 1 | 10.8 | 22.4 | 25.2 | 25 | 30 |
| | | | | | | | | | E15 | 15 | 2 | 18.0 | 31.4 | 34.2 | 35 | 35 |
| | | | | | | | | | E20 | 20 | 2 | 24.1 | 38.9 | 41.7 | 40 | 45 |
| | 575 | 4.6 | 33 | 7.1 | 3.5 | 2.4 | 1.8 | 4 | None | - | - | - | 15.0 | 21.0 | 15 | 20 |
| | | | | | | | | | E08 | 9 | 1 | 8.7 | 18.8 | 21.1 | 20 | 25 |
| | | | | | | | | | E15 | 15 | 2 | 14.4 | 26.0 | 28.3 | 30 | 30 |
| | | | | | | | | | E20 | 20 | 2 | 19.2 | 32.1 | 34.3 | 35 | 35 |
| JA5 (5) | 208 | 16.5 | 110 | 25.8 | 3.5 | 6.3 | 5.5 | 10 | None | - | - | - | 43.9 | 49.4 | 60 | 60 |
| | | | | | | | | | E06 | 4.5 | 1 | 12.5 | 43.9 | 49.4 | 60 | 60 |
| | | | | | | | | | E08 | 6.8 | 1 | 18.9 | 44.0 | 50.8 | 60 | 60 |
| | | | | | | | | | E15 | 11.3 | 2 | 31.4 | 59.6 | 66.5 | 70 | 70 |
| | | | | | | | | | E20 | 15 | 2 | 41.6 | 72.4 | 79.3 | 80 | 80 |
| | | | | | | | | | E23 | 18 | 2 | 50.0 | 82.8 | 89.7 | 90 | 90 |
| | 230 | 16.5 | 110 | 25.8 | 3.5 | 6.3 | 5.5 | 10 | None | - | - | - | 43.9 | 49.4 | 60 | 60 |
| | | | | | | | | | E06 | 6 | 1 | 14.4 | 43.9 | 49.4 | 60 | 60 |
| | | | | | | | | | E08 | 9 | 1 | 21.7 | 47.4 | 54.3 | 60 | 60 |
| | | | | | | | | | E15 | 15 | 2 | 36.1 | 65.5 | 72.4 | 70 | 80 |
| | | | | | | | | | E20 | 20 | 2 | 48.1 | 80.5 | 87.4 | 90 | 90 |
| | | | | | | | | | E23 | 24 | 2 | 57.7 | 92.5 | 99.4 | 100 | 100 |
| | 460 | 7.2 | 52 | 11.3 | 3.5 | 3.15 | 2.2 | 5 | None | - | - | - | 20.7 | 22.9 | 25 | 30 |
| | | | | | | | | | E06 | 6 | 1 | 7.2 | 20.7 | 22.9 | 25 | 30 |
| | | | | | | | | | E08 | 9 | 1 | 10.8 | 23.7 | 26.5 | 25 | 30 |
| | | | | | | | | | E15 | 15 | 2 | 18.0 | 32.7 | 35.5 | 35 | 40 |
| | | | | | | | | | E20 | 20 | 2 | 24.1 | 40.3 | 43.0 | 45 | 45 |
| | | | | | | | | | E23 | 24 | 2 | 28.9 | 46.3 | 49.0 | 50 | 50 |
| | 575 | 5.5 | 38.9 | 8.6 | 3.5 | 2.2 | 1.8 | 4 | None | - | - | - | 15.9 | 17.7 | 20 | 20 |
| | | | | | | | | | E08 | 9 | 1 | 8.7 | 18.6 | 20.8 | 20 | 25 |
| | | | | | | | | | E15 | 15 | 2 | 14.4 | 25.8 | 28.0 | 30 | 30 |
| | | | | | | | | | E20 | 20 | 2 | 19.2 | 31.8 | 34.1 | 35 | 35 |
| | | | | | | | | | E23 | 24 | 2 | 23.1 | 36.6 | 38.9 | 40 | 40 |

1. Minimum Circuit Ampacity.
2. Dual Element, Time Delay Type.
3. HACR type per NEC.

### Electric Heat Multipliers

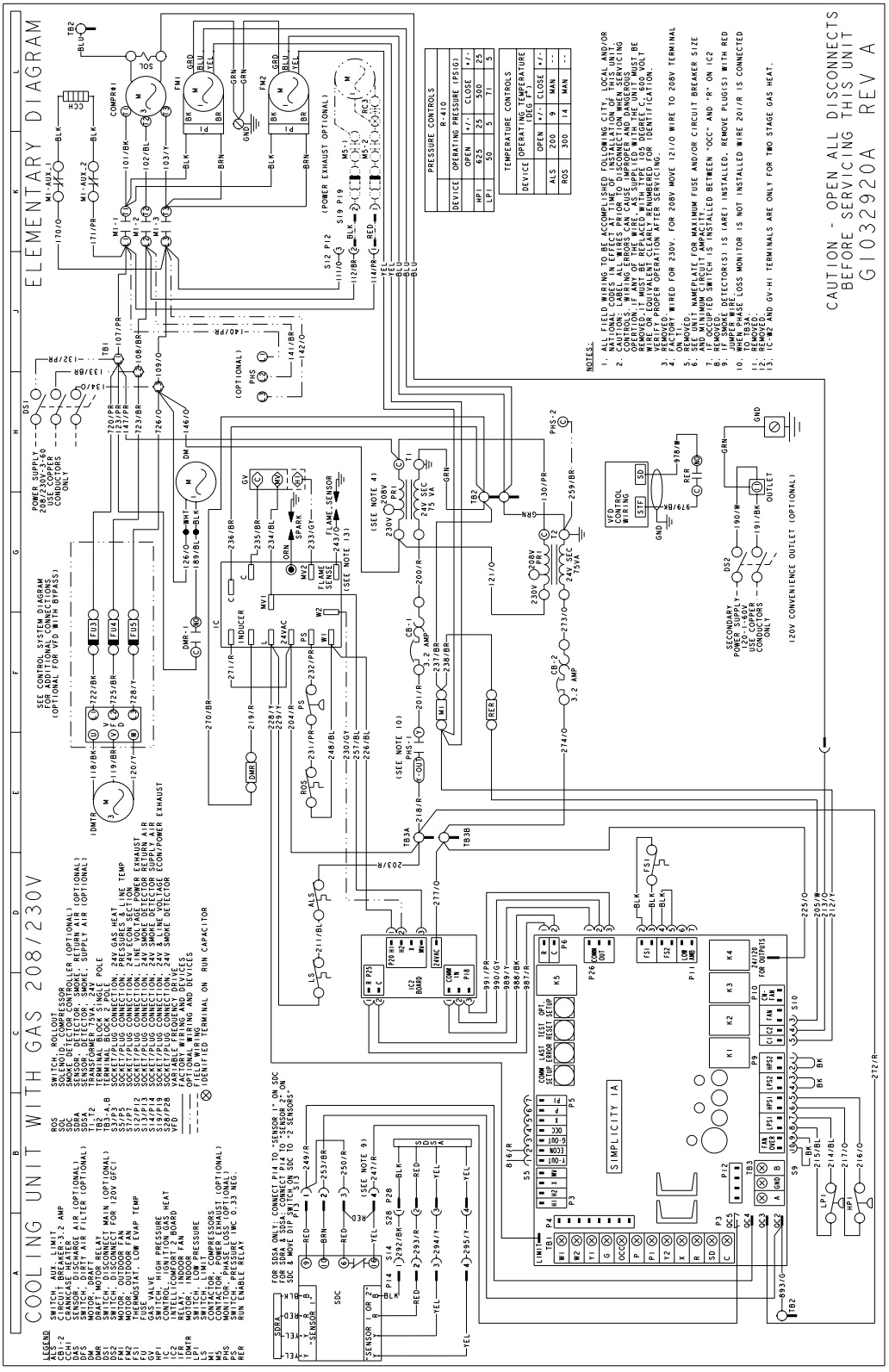
| Voltage | | kW Capacity Multipliers[1] |
|---|---|---|
| Nominal | Applied | |
| 240 | 208 | 0.75 |
| | 230 | 0.92 |
| 480 | 460 | 0.92 |
| 600 | 575 | 0.92 |

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

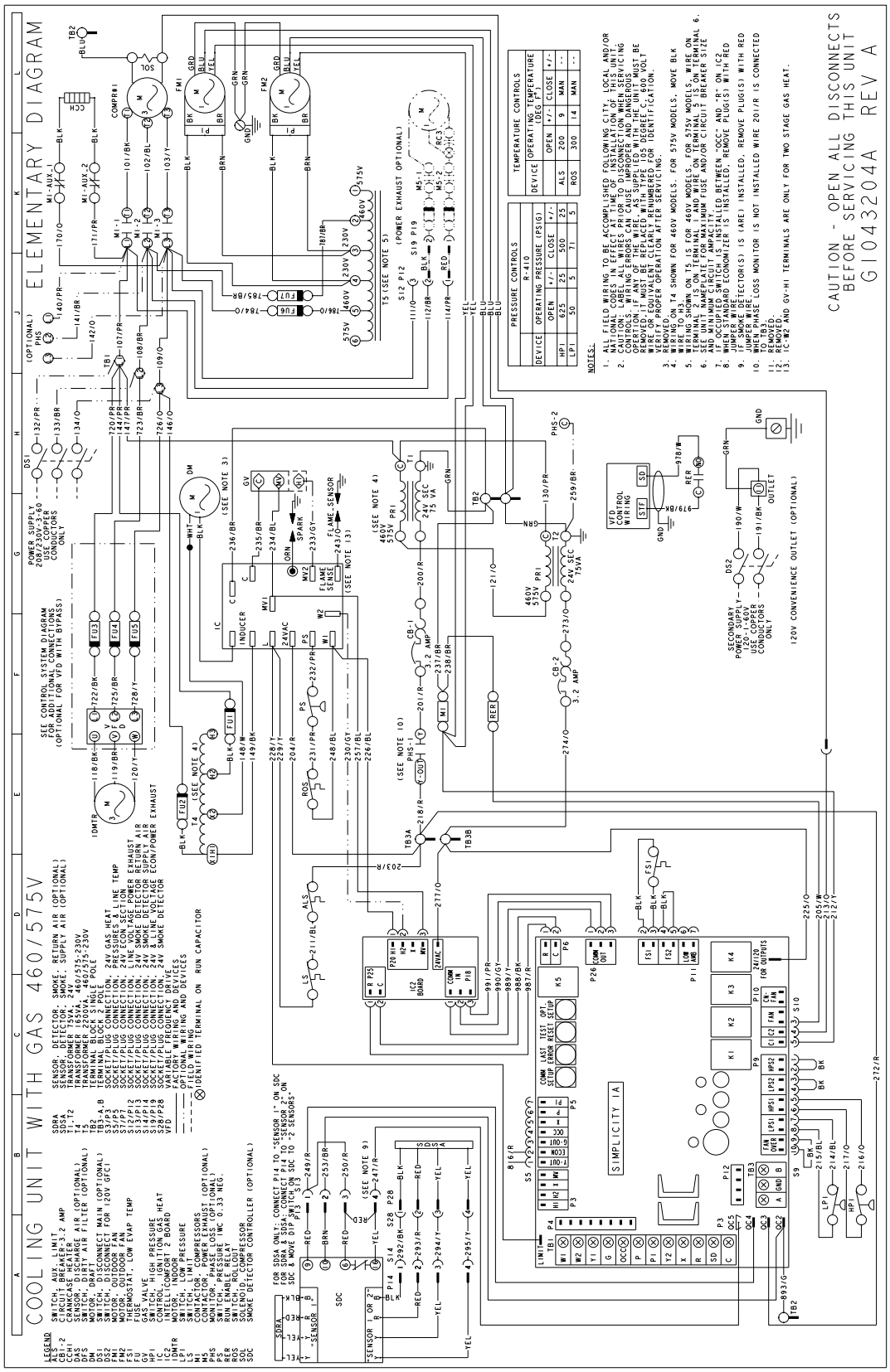
# Typical Wiring Diagrams

## JA3 thru JA5ZT Typical Wiring Diagrams

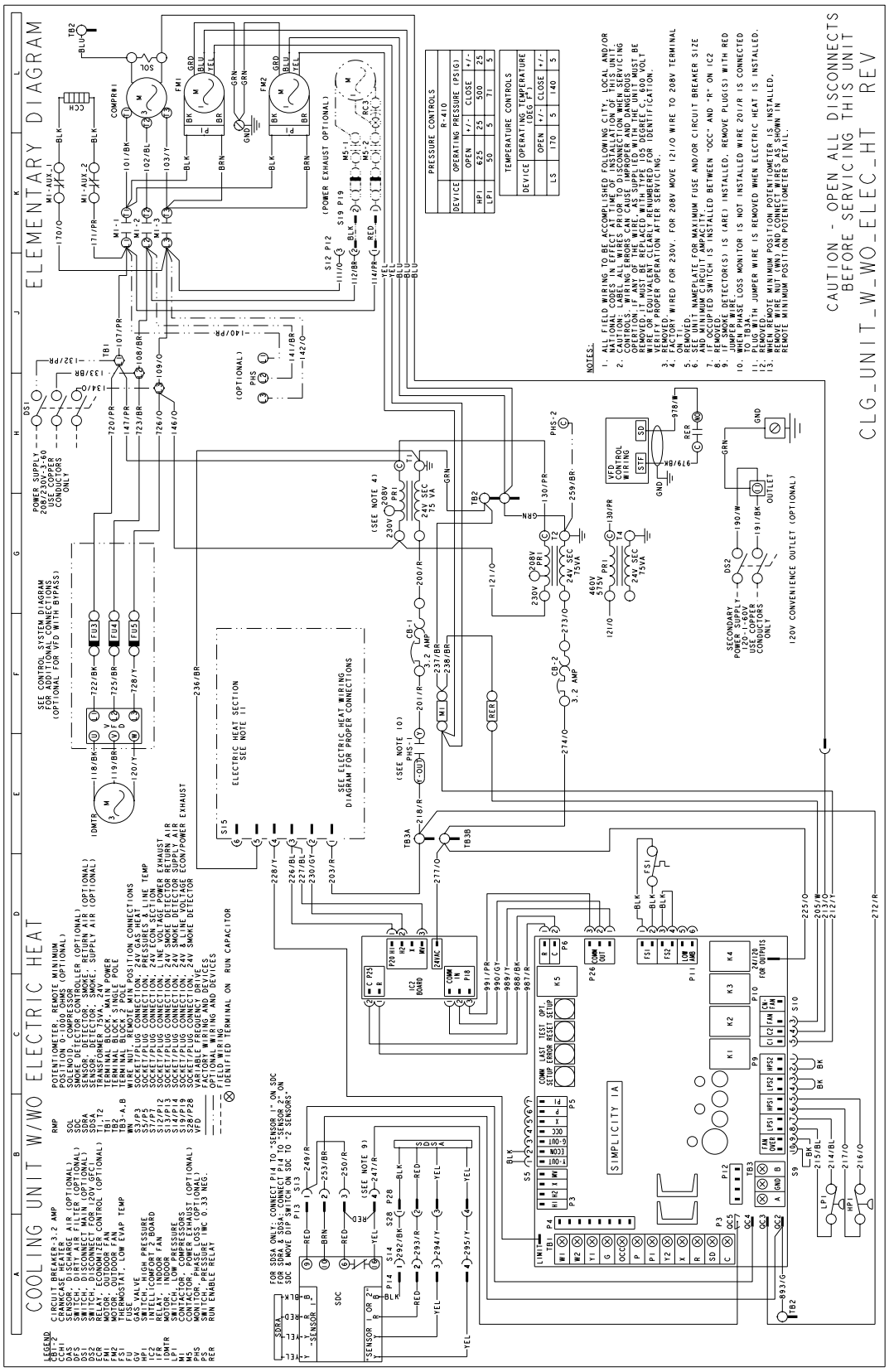
### Typical JA3 thru JA5ZT Cooling Unit with Gas Heat 230 Volt Wiring Diagram



**Typical JA3 thru JA5ZT Cooling Unit with Gas Heat 460/575 Volt Wiring Diagram**



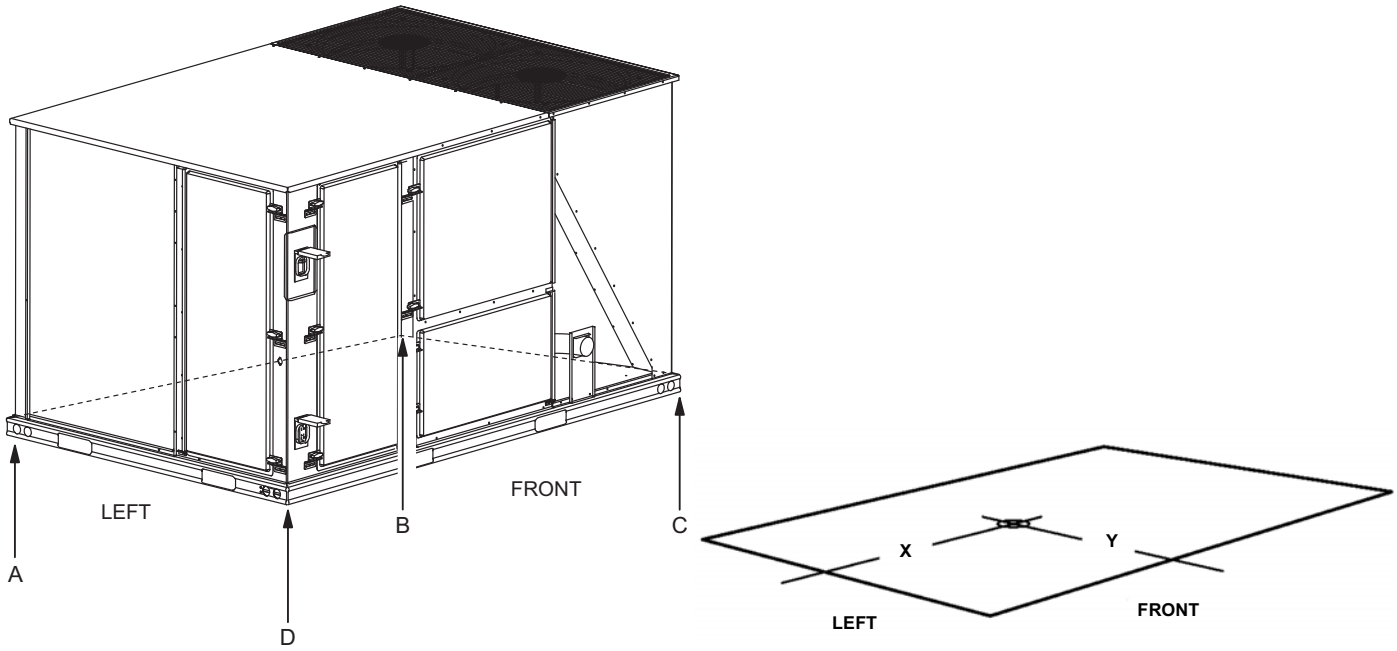
**Typical JA3 thru JA5ZT Cooling Unit with/without Electric Heat Wiring Diagram**



# Weights and Dimensions

## JA3 thru JA5ZT Unit Weights

### Unit 4 Point Load Weight




| Size (Tons) | Model | Weight (lbs.) | | Center of Gravity | | 4 Point Load Location (lbs.) | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Shipping | Operating | X | Y | A | B | C | D |
| JA3 (3) | J**ZT | 927 | 922 | 42.4 | 24.7 | 202 | 184 | 255 | 281 |
| JA4 (4) | J**ZT | 965 | 960 | 42.5 | 25.5 | 217 | 198 | 260 | 285 |
| JA5 5) | J**ZT | 973 | 968 | 41.6 | 25.5 | 223 | 196 | 257 | 293 |

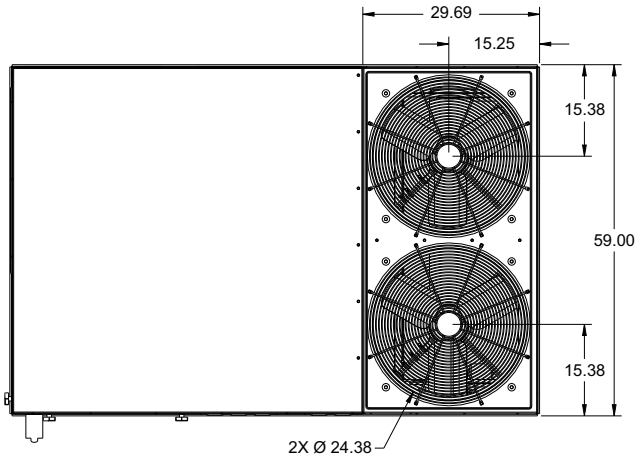
### JA3 thru JA5ZT Unit Accessory Weights

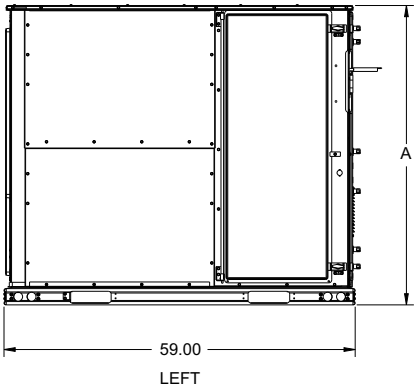
| Unit Accessory | Weight (lbs.) | |
|---|---|---|
| | Shipping | Operating |
| Economizer | 90 | 85 |
| Power Exhaust | 40 | 35 |
| Electric Heat[1] | 49 | 49 |
| Gas Heat[2] | 110 | 110 |
| Variable Frequency Drive[3] | 30 | 30 |

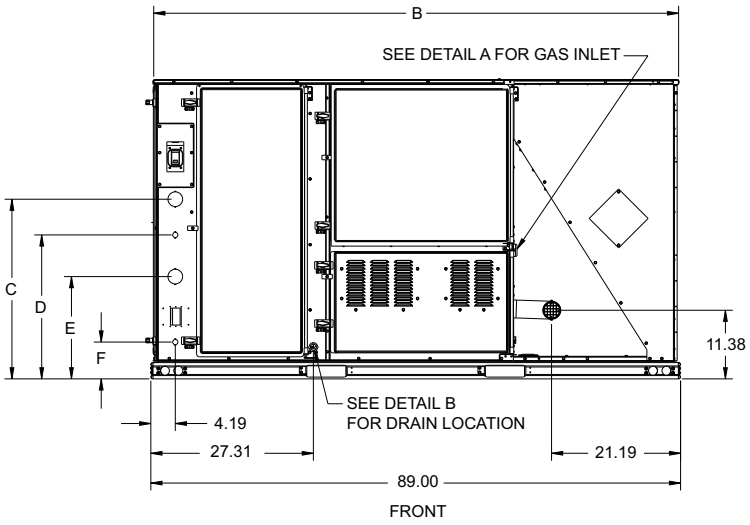
1. Weight given is for the maximum heater size available (24KW).
2. Weight given is for the maximum number of tube heat exchangers available (8 tube).
3. Weight includes mounting hardware, controls and manual bypass option (3 to 5 ton only).

## JA3 thru JA5ZT Unit Dimensions

### JA3 thru JA5ZT



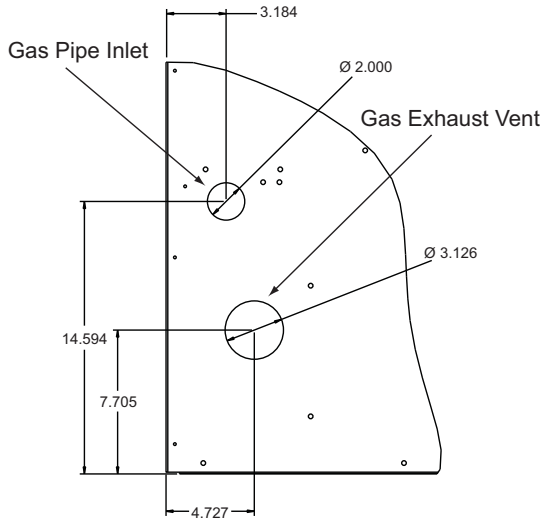



### JA3 thru JA5ZT Unit Physical Dimensions

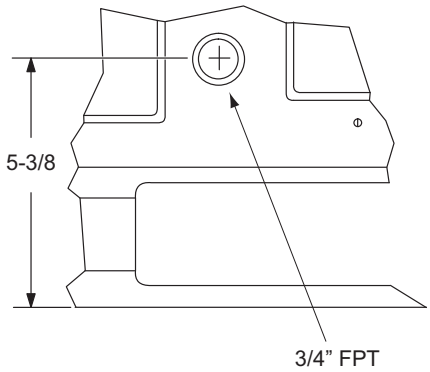
| Unit Model Number | Dimension (in.) | | | | | |
|---|---|---|---|---|---|---|
| | A | B | C | D | E | F |
| JA3ZT, JA4ZT, JA5ZT | 42 | 89 | 22 1/8 | 18 3/16 | 15 3/16 | 6 3/16 |

### Detail A




**42” CABINET**

### Detail B

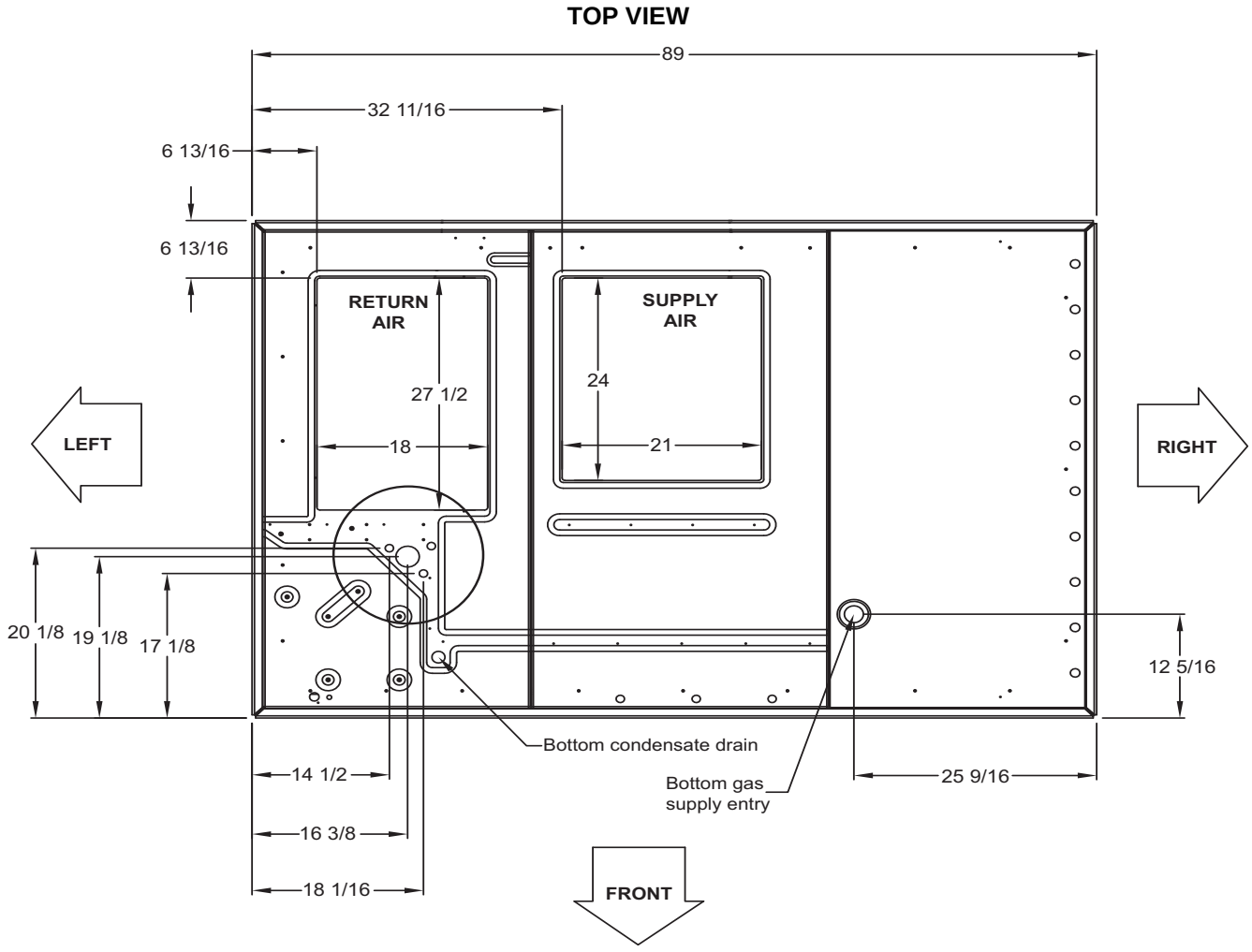


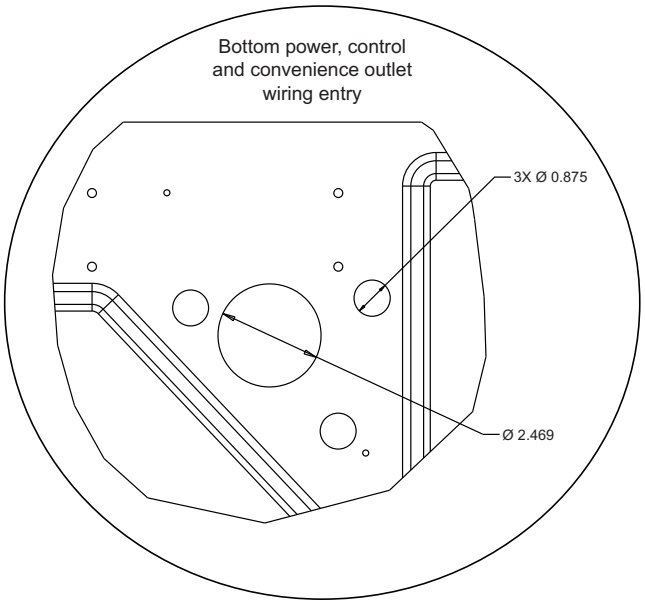

### JA3 thru JA5ZT Unit Clearances

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

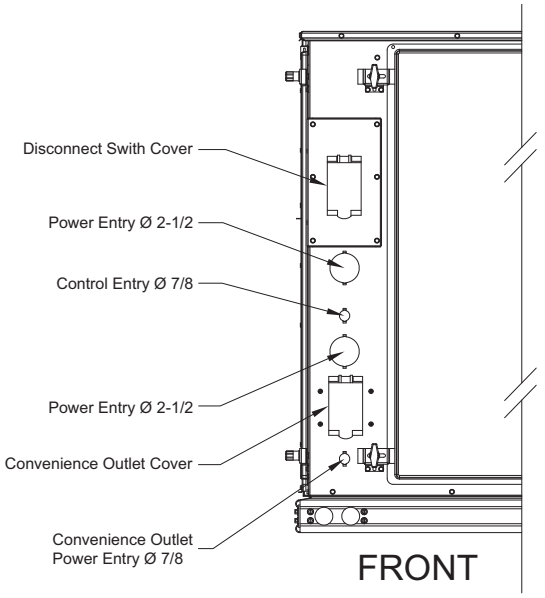
1. Units must be installed outdoors. Over hanging structure or shrubs should not obscure condenser air discharge outlet.
2. Units may be installed on combustible floors made from wood or class A, B or C roof covering materials.

**JA3 thru JA5ZT Unit Bottom Duct Openings**

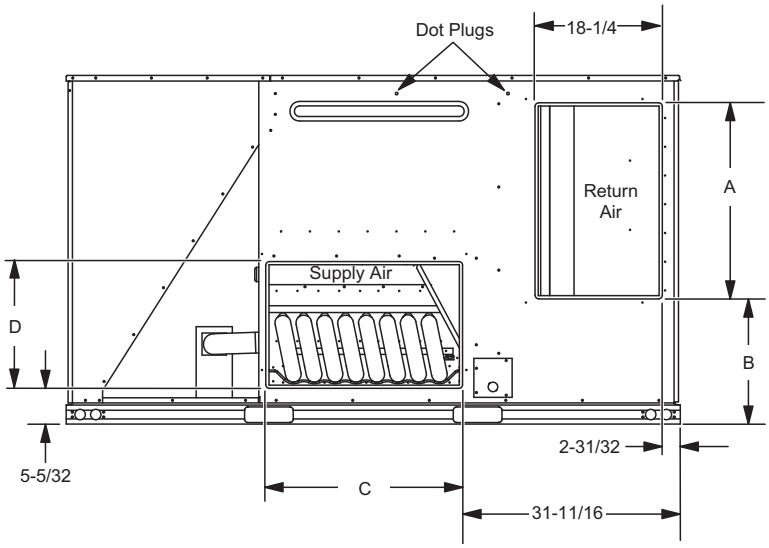


### JA3 thru JA5ZT Unit Electrical Entry



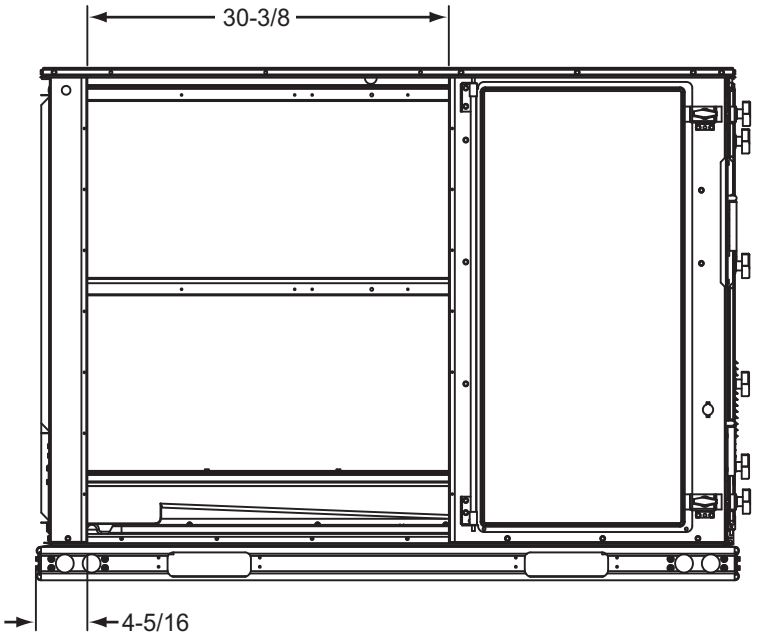

### JA3 thru JA5ZT Unit Side Duct Openings




### JA3 thru JA5ZT Side Duct Dimensions

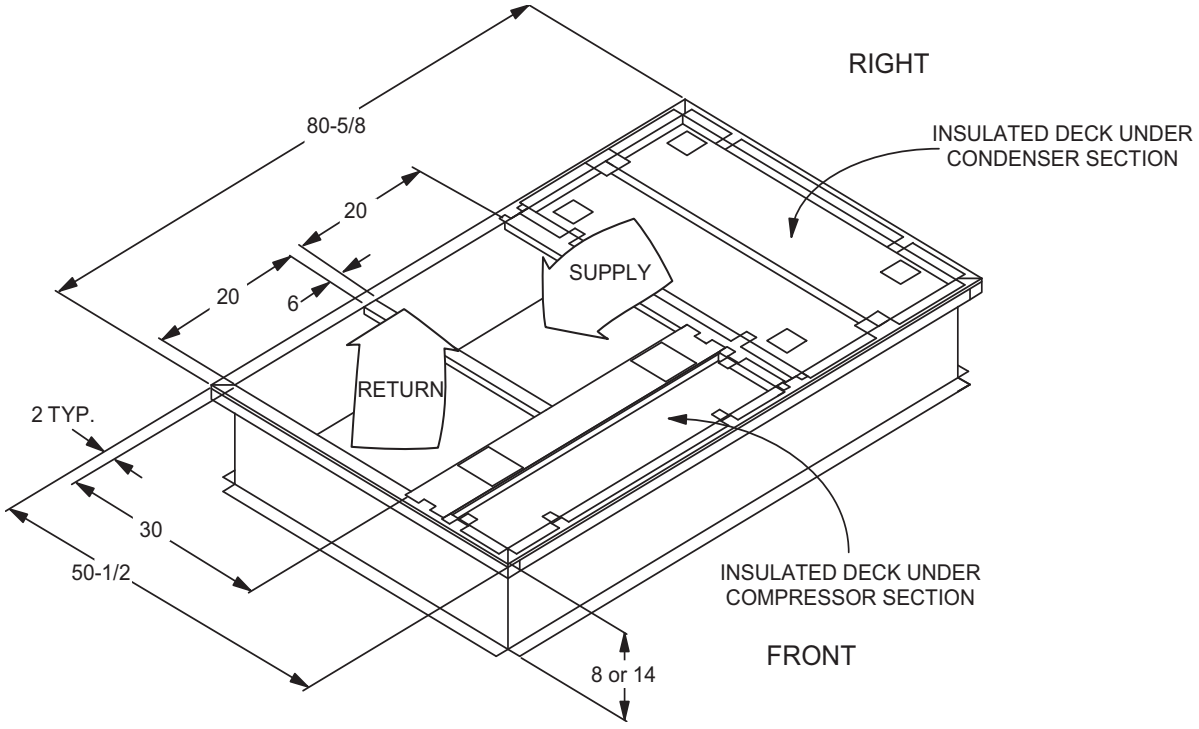
| Unit Model Number | Dimension (in.) | | | |
|---|---|---|---|---|
| | A | B | C | D |
| JA3ZT, JA4ZT, JA5ZT | 27 3/4 | 12 1/16 | 27 1/2 | 16 |

**JA3 thru JA5ZT Unit Left Duct Opening**

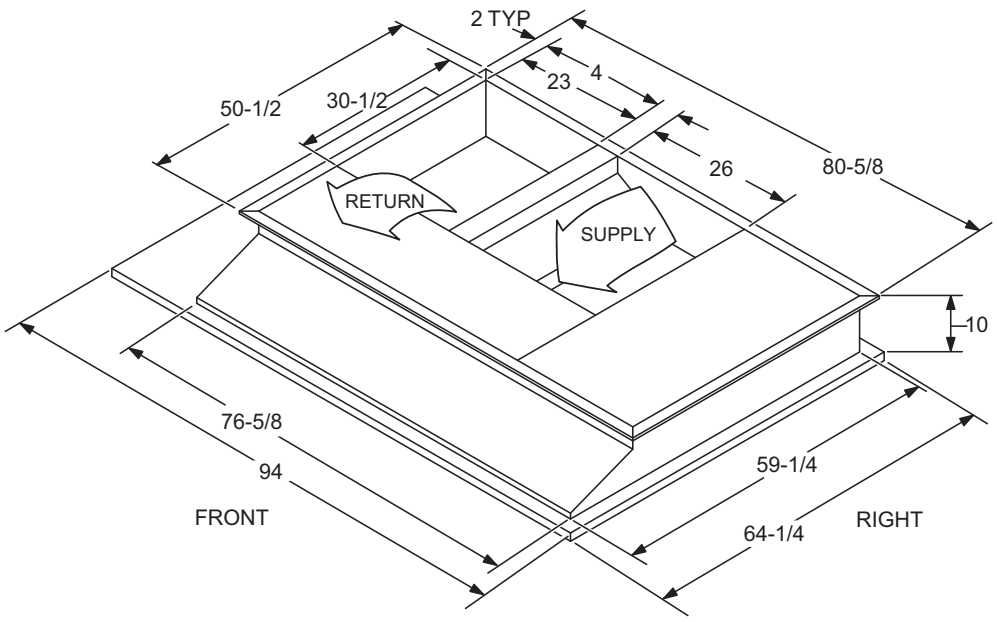



## JA3 thru JA5ZT Unit Accessory Dimensions

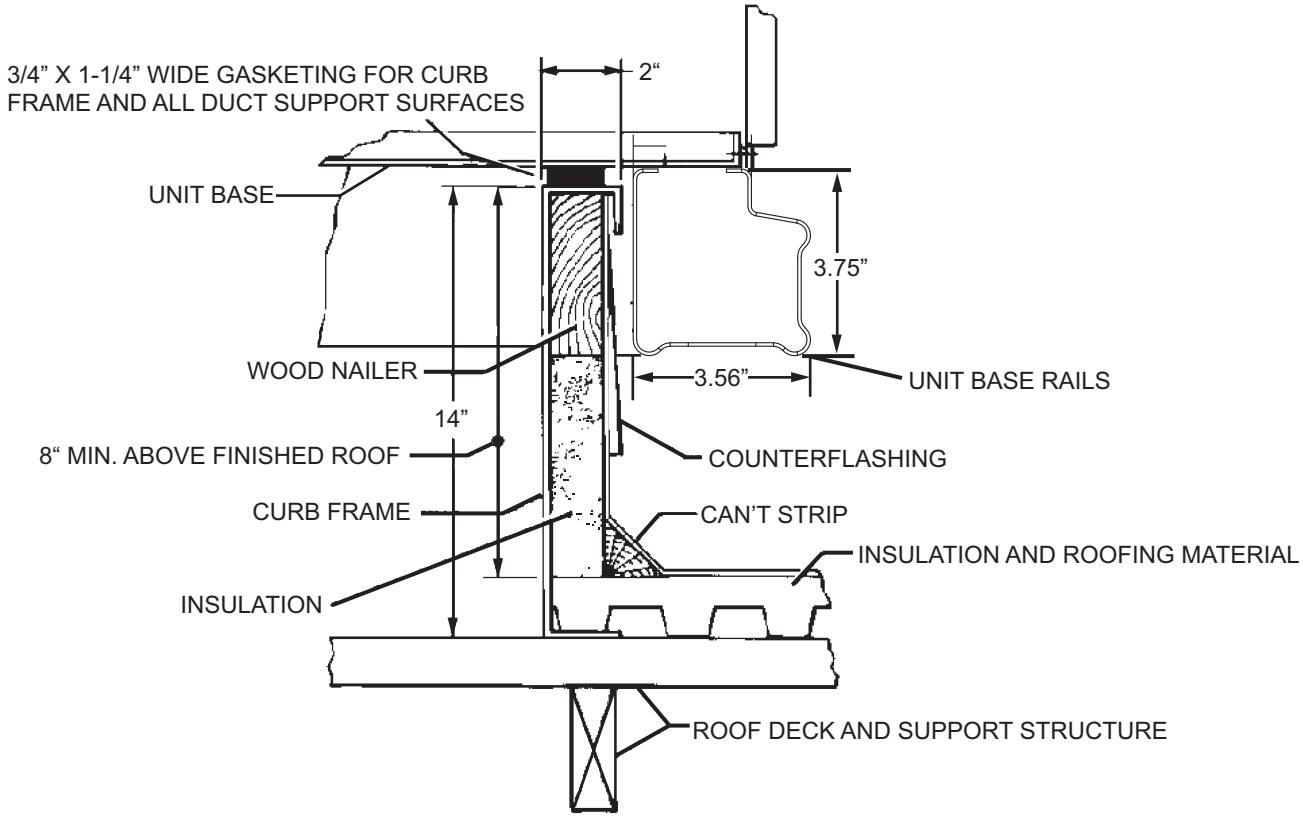
**JA3 thru JA5ZT Roof Curb**



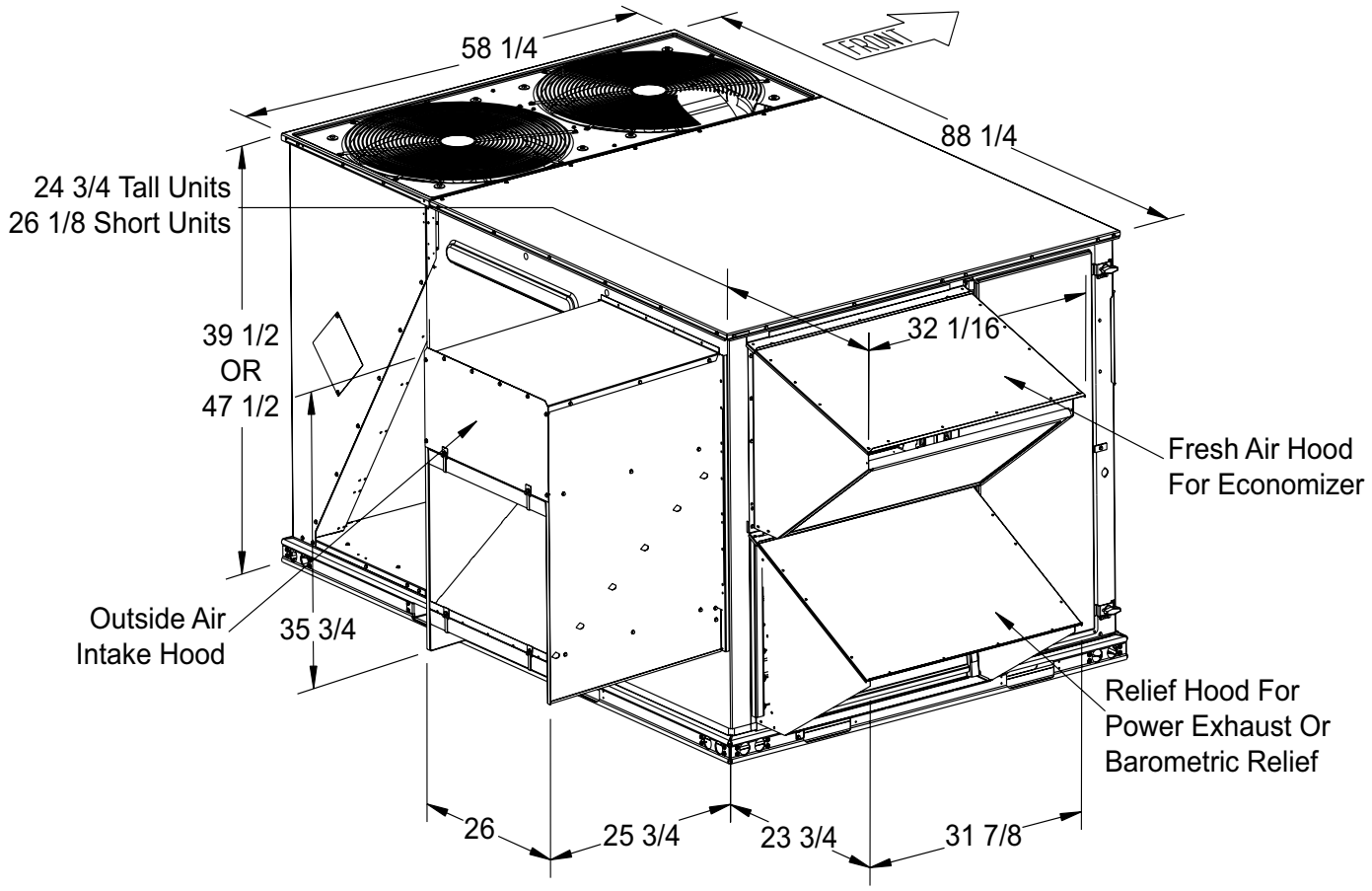
**JA3 thru JA5ZT Transition Roof Curb**




**JA3 thru JA5ZT Roof Curb Cutaway**



**JA3 thru JA5ZT Economizer Assembly**



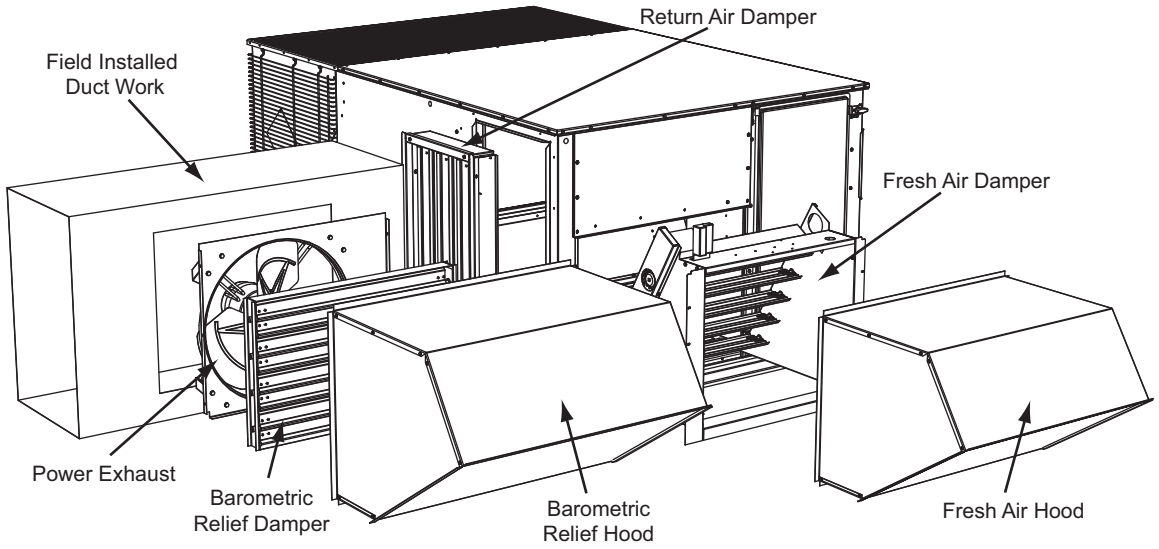
# Economizer Options

## Economizer Usage

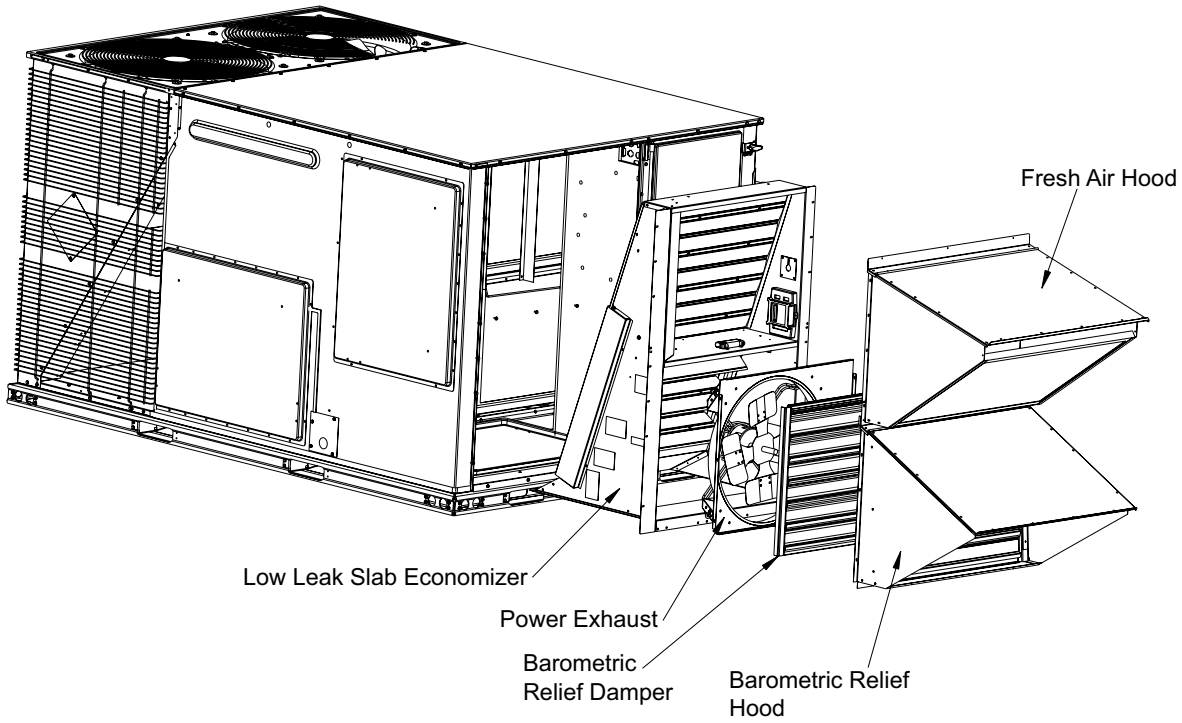
| Application | Cabinet Height | Description | Model |
|---|---|---|---|
| Side Return | All | Horizontal economizer without barometric relief | 2EE04706024[1] |
| ERV or End Return | 42" | Slab Economizer, 42" tall cabinet | 2EE04707524[2] |

1. Barometric relief must be ordered separately and installed in duct work.
2. Barometric relief or fresh air hood not included. Must be ordered separately.

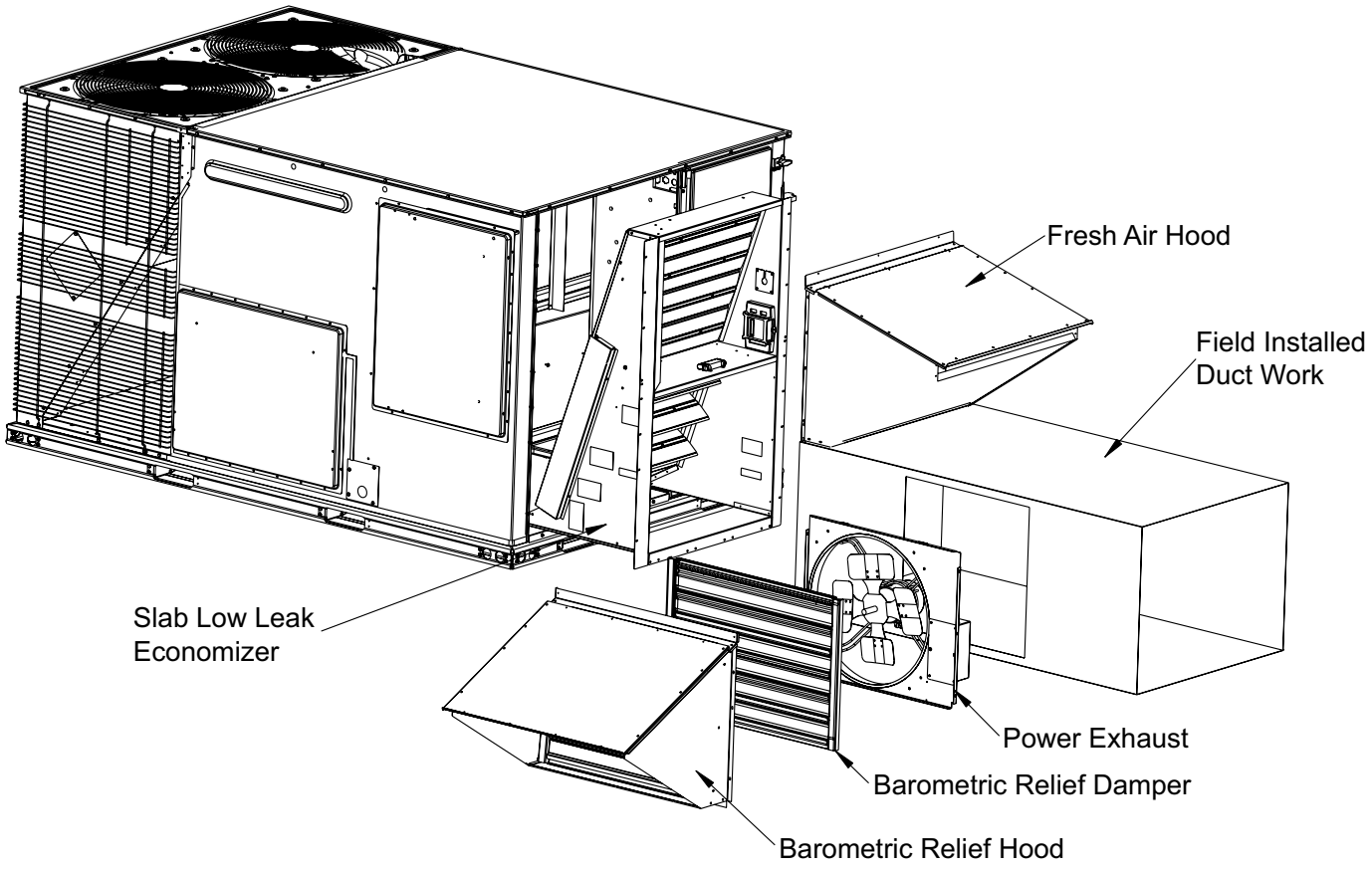
### Field Installed Horizontal Economizer W/Power Exhaust




### Slab Economizer Downflow W/Power Exhaust



**Slab Economizer End Return W/Power Exhaust**






1041167-JTG-D-0614
Supersedes: 1041167-JTG-C-0514

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