



THE WALL-MOUNT™ AIR CONDITIONERS - 9.0 EER, (60HZ)

Models W17A to W60A
1.5 to 5 Ton (16,400 to 55,000 Btuh)
Right Side Control Panel 60Hz

GREEN REFRIGERANT
R-410A

The Bard Wall-Mount Air Conditioner is a self contained energy efficient system, which is designed to offer maximum indoor comfort at a minimal cost without using valuable indoor floor space or outside ground space. This unit is the ideal product for versatile applications such as: new construction, modular offices, school modernization, telecommunication structures, portable structures or correctional facilities. Factory or field installed accessories are available to meet specific job requirements.

Engineered Features

Aluminum Finned Copper Coils:

Grooved tubing and enhanced louvered fin for maximum heat transfer and energy efficiency.

Twin Blowers:

Move air quietly. Most models feature multispeed blower motors providing airflow adjustment for high and low static operation. Motor overload protection is standard on all models.

Air Conditioner Compressor:

Scroll Compressors eliminate need for crankcase heater. Standard on 1½ to 5 ton.

R-410A Refrigerant:

Designed with R-410A (HFC) non-ozone depleting refrigerant in compliance with the Montreal protocol and 2010 EPA requirements.

Phase Rotation Monitor:

Standard on all 3 phase scroll compressors. Protects against reverse rotation if power supply is not properly connected.

Galvanized 20 Gauge Zinc Coated Steel Cabinet:

Cleaned, rinsed, sealed and dried before the polyurethane primer is applied. The cabinet is handsomely finished with a baked on textured enamel, which allows it to withstand 1000 hours of salt spray tests per ASTM B117-03.

Foil Faced Insulation:

Standard on all units.

Full Length Mounting Brackets:

Built into cabinet for improved appearance and easy installation. NOTE: Bottom mounting bracket included to assist in installation.

Electrical Components:

Are easily accessible for routine inspection and maintenance through a right side, service panel opening. Features a lockable, hinged access cover to the circuit breaker or toggle disconnect switch.

Electric Heat Strips:

Features an automatic limit and thermal cut-off safety control. Heater packages can be factory or field installed for all 1½ through 5 ton models.

Filter Service Door:

Separate service door provides easy access for filter change.

One Inch, Disposable Air Filters:

Are standard equipment. Optional one inch washable filters available and filter racks permit the addition of 2" pleated filter. Factory or field installed.

Condenser Fan and Motor Shroud Assembly:

Slides out for easy access.

Barometric Fresh Air Damper:

Standard on all units. Allows up to 25% outside fresh air. Optional ventilation packages available.

Built-in Circuit Breakers:

Standard on all electric heat versions of single (230/208 volt) and three phase (230/208 volt) equipment. Toggle disconnects are standard on all electric heat versions of three phase (460 volt) equipment.

Slope Top:

Standard feature for water run-off.

Top Rain Flashing:

Standard feature on all models.



Liquid Line Filter Drier:

Standard on all units. Protects system against moisture.

Compressor Control Module:

Standard on all units. Built-in off-delay timer adjustable from 30 seconds to 5 minutes. 2-minute on-delay if power interrupt. 120-second bypass for low pressure control, and both soft and manual lockouts for high and low pressure controls. Alarm output for alarm relay.

High & Low Pressure Switches are Auto-Reset:

Standard on all units. Built-in lockout circuit resets from the room thermostat. Provides commercial quality protection to the compressor.



- Complies with efficiency requirements of ASHRAE/IESNA 90.1-2010.
- Certified to ANSI/ARI Standard 390-2003 for SPVU (Single Package Vertical Units).
- Intertek ETL Listed to Standard for Safety Heating and Cooling Equipment ANSI/UL 1995/CSA 22.2 No. 236-05, Third Edition.
- Commercial Product - Not intended for Residential application.

Capacity and Efficiency Ratings

| MODELS | W17A1 / W18A1 | W24A1 | W30A1 | W36A1 | W42A1 | W48A1 | W60A1 |
|-------------------------|---------------|--------|--------|--------|--------|--------|--------|
| Cooling Capacity BTUH ① | 16,400 | 24,000 | 29,600 | 35,400 | 41,000 | 47,000 | 55,000 |
| EER ② | 9.00 | 9.00 | 9.00 | 9.00 | 9.20 | 9.00 | 9.00 |

① Capacity is certified in accordance with ANSI/ARI Standard 390-2003.

② EER = Energy Efficiency Ratio and is certified in accordance with ANSI/ARI Standard 390-2003.

All ratings based on fresh air intake being 100% closed (no outside air introduction).

Specifications 1-1/2 Ton through 3 Ton

| MODELS | W17A1-A W18A1-A | W24A1-A | W24A1-B | W24A1-C | W30A1-A | W30A1-B | W30A1-C | W36A1-A | W36A1-B | W36A1-C |
|---|--------------------|-------------|-------------|------------|-------------|-------------|------------|-------------|-------------|------------|
| Electrical Rating--60 Hz | 230/208 - 1 | 230/208 - 1 | 230/208 - 3 | 460 - 3 | 230/208 - 1 | 230/208 - 3 | 460 - 3 | 230/208 - 1 | 230/208 - 3 | 460 - 3 |
| Operating Voltage Range | 197-253 | 197-253 | 197-253 | 414-506 | 197-253 | 197-253 | 414-506 | 197-253 | 197-253 | 414-506 |
| Compressor--Circuit A | | | | | | | | | | |
| Voltage | 230/208 | 230/208 | 230/208 | 460 | 230/208 | 230/208 | 460 | 230/208 | 230/208 | 460 |
| Rated Load Amps | 6.5/7.2 | 11./12.4 | 7.2/8.1 | 5.0 | 11.7/13.3 | 7.5/8.5 | 5.3 | 15.9/17.7 | 11.8/13.1 | 6.0 |
| Branch Circuit Selection Current | 9.0 | 12.9 | 8.4 | 5.2 | 14.2 | 9.0 | 5.7 | 18 | 13.3 | 6.0 |
| Lock Rotor Amps | 48/48 | 64/64 | 58/58 | 28 | 78/78 | 71/71 | 38 | 112/112 | 88/88 | 44 |
| Compressor Type | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| Fan Motor & Condenser | | | | | | | | | | |
| Fan Motor--HP--RPM | 1/5 - 1075 | 1/5 - 1075 | 1/5 - 1075 | 1/5 - 1075 | 1/5 - 1075 | 1/5 - 1075 | 1/5 - 1075 | 1/5 - 1075 | 1/5 - 1075 | 1/5 - 1075 |
| Fan Motor--Amps | 1.2 | 1.2 | 1.2 | 1.4 | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | 1.4 |
| Fan--DIA/CFM | 18" - 1600 | 18" - 1600 | 18" - 1600 | 18" - 1600 | 20" - 2100 | 20" - 2100 | 20" - 2100 | 20" - 1900 | 20" - 1900 | 20" - 1900 |
| Blower Motor & Evap. | | | | | | | | | | |
| Blower Motor--HP-RPM-SPD | 1/6-1100-2 | 1/6-1100-1 | 1/6-1100-1 | 1/3-1100-2 | 1/3-1100-2 | 1/3-1100-2 | 1/3-1100-2 | 1/3-1100-2 | 1/3-1100-2 | 1/3-1100-2 |
| Blower Motor--Amps | 1.0 | 1.0 | 1.0 | 1.1 | 2.2 | 2.2 | 1.1 | 2.2 | 2.2 | 1.1 |
| CFM Cooling & E.S.P. w/Filter (Rated-Wet Coil) | 600 - .20 | 800 - .20 | 800 - .20 | 800 - .20 | 1000 - .40 | 1000 - .40 | 1000 - .40 | 1100 - .30 | 1100 - .30 | 1100 - .30 |
| Filter Sizes (inches) STD. | 16x25x1 | 16x25x1 | 16x25x1 | 16x25x1 | 16x30x1 | 16x30x1 | 16x30x1 | 16x30x1 | 16x30x1 | 16x30x1 |
| Shipping Weight --LBS. | 335 | 335 | 335 | 335 | 375 | 375 | 375 | 375 | 375 | 375 |

Specifications 3-1/2 Ton through 5 Ton

| MODELS | W42A1-A | W42A1-B | W42A1-C | W48A1-A | W48A1-B | W48A1-C | W60A1-A | W60A1-B | W60A1-C |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Electrical Rating--60 Hz | 230/208-1 | 230/208-3 | 460-3 | 230/208-1 | 230/208-3 | 460-3 | 230/208-1 | 230/208-3 | 460-3 |
| Operating Voltage Range | 197-253 | 197-253 | 414-506 | 197-253 | 197-253 | 414-506 | 197-253 | 197-253 | 414-506 |
| Compressor--Circuit A | | | | | | | | | |
| Voltage | 230/208 | 230/208 | 460 | 230/208 | 230/208 | 460 | 230/208 | 230/208 | 460 |
| Rated Load Amps | 16.7/18.9 | 11/12.5 | 5.8 | 20/21.9 | 13.9/15.2 | 6.8 | 22.6/25.5 | 13.5/15.2 | 7.6 |
| Branch Circuit Selection Current | 19.9 | 13.2 | 6.1 | 23.1 | 16.1 | 7.1 | 26.3 | 15.7 | 7.8 |
| Lock Rotor Amps | 109/109 | 83.1/83.1 | 41 | 134/134 | 91/91 | 46 | 134/134 | 110/110 | 52 |
| Compressor Type | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll | Scroll |
| Fan Motor & Condenser | | | | | | | | | |
| Fan Motor--HP-RPM-SPD | 1/3-825-2 | 1/3-825-2 | 1/3-825-1 | 1/3-825-2 | 1/3-825-2 | 1/3-825-1 | 1/3-825-2 | 1/3-825-2 | 1/3-825-1 |
| Fan Motor--Amps | 2.5 | 2.5 | 1.3 | 2.5 | 2.5 | 1.3 | 2.5 | 2.5 | 1.3 |
| Fan--DIA/CFM | 24" - 2600 | 24" - 2600 | 24" - 2600 | 24" - 2600 | 24" - 2600 | 24" - 2600 | 24" - 2600 | 24" - 2600 | 24" - 2600 |
| Blower Motor & Evap. | | | | | | | | | |
| Blower Motor--HP-RPM-SPD | 1/2-1070-2 | 1/2-1070-2 | 1/2-1070-2 | 1/2-1070-2 | 1/2-1070-2 | 1/2-1070-2 | 1/2-1070-2 | 1/2-1070-2 | 1/2-1070-2 |
| Blower Motor--Amps | 3.3 | 3.3 | 1.9 | 3.3 | 3.3 | 1.9 | 3.3 | 3.3 | 1.9 |
| CFM Cooling & E.S.P. w/Filter (Rated-Wet Coil) | 1400 - .30 | 1400 - .30 | 1400 - .30 | 1550 - .20 | 1550 - .20 | 1550 - .20 | 1700 - .30 | 1700 - .30 | 1700 - .30 |
| Filter Sizes (inches) STD. | 20x30x1 | 20x30x1 | 20x30x1 | 20x30x1 | 20x30x1 | 20x30x1 | 20x30x1 | 20x30x1 | 20x30x1 |
| Shipping Weight --LBS. | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 | 525 |

Ventilation System Packages

Bard Wall-Mounts are designed to provide optional ventilation packages to meet all of your ventilation and indoor air quality requirements. All units are equipped with a barometric fresh air damper as the standard ventilation package. All ventilation packages can be built-in at the factory or field-installed at a later date.



Barometric Fresh Air Damper

BAROMETRIC FRESH AIR DAMPER - BFAD

STANDARD

The barometric fresh air damper is a standard feature on all models. It is installed on the inside of the service door and allows outside ventilation air, up to 25% of the total airflow rating of the unit, to be introduced through the air inlet openings and to be mixed with the conditioned air. The damper opens during blower operation and closes when the blower is off. Adjustable blade stops allow different amounts of outside air to be introduced into the building and can be easily locked closed if required.

BLANK OFF PLATE - BOP

OPTIONAL

A blank off plate is installed on the inside of the service door. It covers the air inlet openings, which restricts any outside air from entering the unit. The blank off plate should be utilized in applications where outside air is not required to be mixed with the conditioned air.



Motorized Fresh Air Damper

MOTORIZED FRESH AIR DAMPER - MFAD

OPTIONAL

The motorized fresh air damper is internally mounted behind the service door and allows outside ventilation air, up to 25% of the total airflow rating of the unit, to be introduced through the air inlet openings and to be mixed with the conditioned air. The two position damper can be fully open or closed. The damper blade is powered open by a 24VAC motor with spring return on power loss. The damper can be controlled by indoor blower operation or can be field connected to be managed based on building occupancy.

NOTE: The above vent systems are intake only without built-in exhaust capability. Building will likely require separate field installed barometric relief or mechanical exhaust elsewhere within the conditioned space. Balancing dampers in the return air grille may be required to achieve specified amount of outdoor air intake.

COMMERCIAL ROOM VENTILATOR - CRV

OPTIONAL

The built-in commercial room ventilator is internally mounted behind the service door and allows outside ventilation air, up to 50% of the total airflow rating of the unit, to be introduced through the air inlet openings. It includes a built-in exhaust air damper.

The commercial room ventilator (CRV) is a simple and innovative approach to improving the indoor air quality by providing fresh air intake and exhaust capability through the CRV. The damper can be easily adjusted to control the amount of fresh air supplied into the building. The CRV can be controlled by indoor blower operation or field controlled based on room occupancy. Two versions available (except on 1.5 and 2-Ton models). The CRV and CRVS are power open - spring return on power loss, and CRVP is power open and power close. Complies with ANSI/ASHRAE Standard 62.1 "Ventilation for Acceptable Indoor Air Quality".



Commercial Room Ventilator

ECONOMIZER - EIFM

OPTIONAL

The built-in economizer system is internally mounted behind the service door and allows outdoor air to be introduced through the air inlet openings. The amount of outdoor air varies in response to the system controls and settings defined by the end user. It includes a built-in exhaust air damper. The economizer is designed to provide "free cooling" when outside air conditions are cool and dry enough to satisfy cooling requirements without running the compressor. This in turn provides lower operating costs, while extending the life of the compressor.

Standard Features:

- One Piece Construction - Easy to install with no mechanical linkage adjustment required.
- Exhaust Air Damper - Built in with positive closed position. Provides exhaust air capability to prevent pressurization of tight buildings.
- Actuator Motor - 24 volt, power open, spring return with built in torque limiting switch.
- Proportioning Type Control - for maximum "free cooling" economy and comfort.
- Moisture Eliminator & Prefilter - permanent, washable aluminum construction.
- Enthalpy Control - adjustable to monitor outdoor temperature and humidity.
- Minimum Position Potentiometer - adjustable to control minimum damper blade position for ventilation purposes.
- Mixed Air Sensor - to monitor outside and return air to automatically modulate damper position.



Economizer

WALL-MOUNT ENERGY RECOVERY VENTILATOR - ERV

OPTIONAL

The wall-mount energy recovery ventilator (ERV) is a highly innovative approach to meeting indoor air quality ventilation requirements as established by ANSI/ASHRAE Standard 62.1. The ERV allows from 200 to 450 CFM (depending upon model) of fresh air and exhaust through the unit while maintaining superior indoor comfort and humidity levels. In most cases this can be accomplished without increasing equipment sizing or operating costs. Heat transfer efficiency is up to 67% during summer and 75% during winter conditions.

The ERV consists of a unique "rotary energy recovery cassette" that provides effective sensible and latent heat transfer capabilities during summer and winter conditions. Various control schemes are addressed including limiting ventilation during building occupancy only.

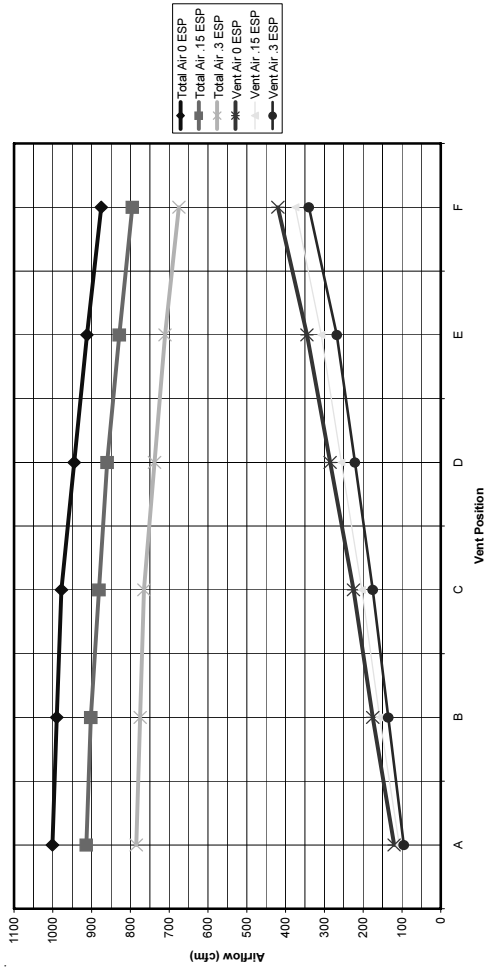
The ERV is designed to be internally mounted behind the service door in the W**A, W**H or W**L model wall-mount units. It can be built-in at the factory or field installed as an option. ERVF-*3 and ERVF-*5 can be independently adjusted for intake and exhaust rates.



Energy Recovery Ventilator

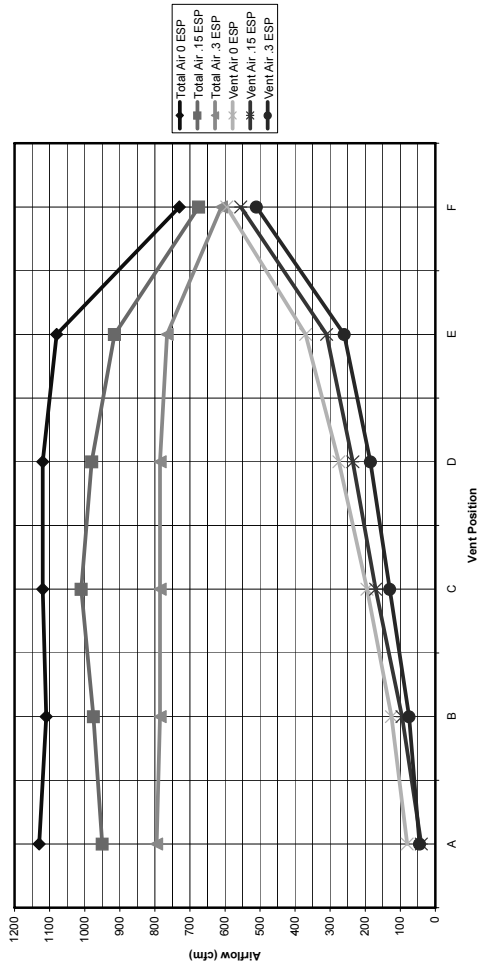
Commercial Room Ventilator Performance Data - CRV-2

W17A/W18A & W24A TOTAL AND VENTILATION AIRFLOW

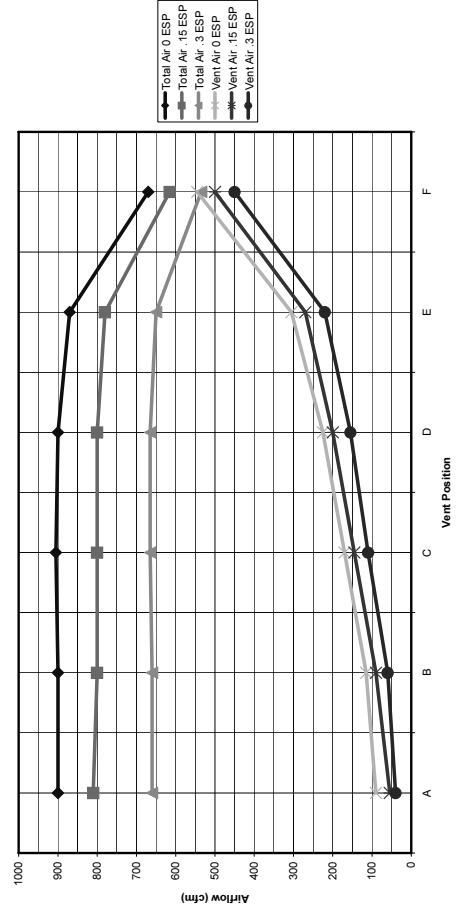


Commercial Room Ventilator Performance Data - CRVS-3 and CRVP-3

W30A & W36A HIGH SPEED TOTAL AND VENTILATION AIRFLOW

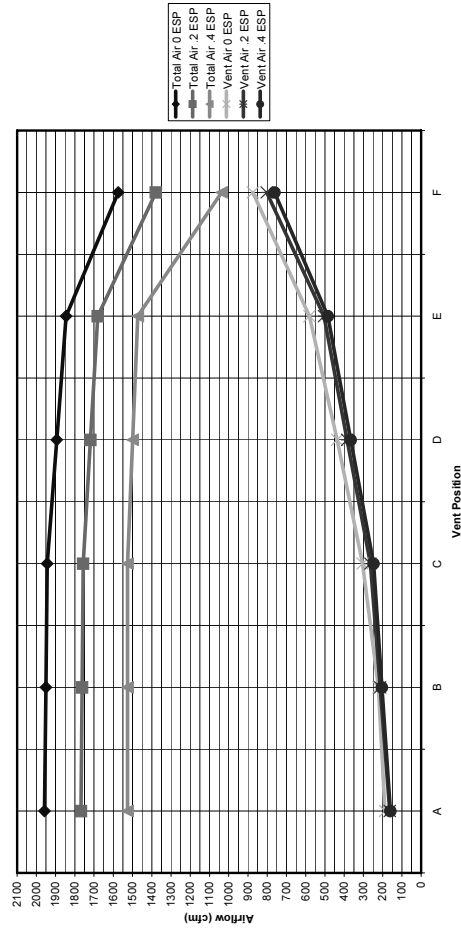


W30A & W36A LOW SPEED TOTAL AND VENTILATION AIRFLOW

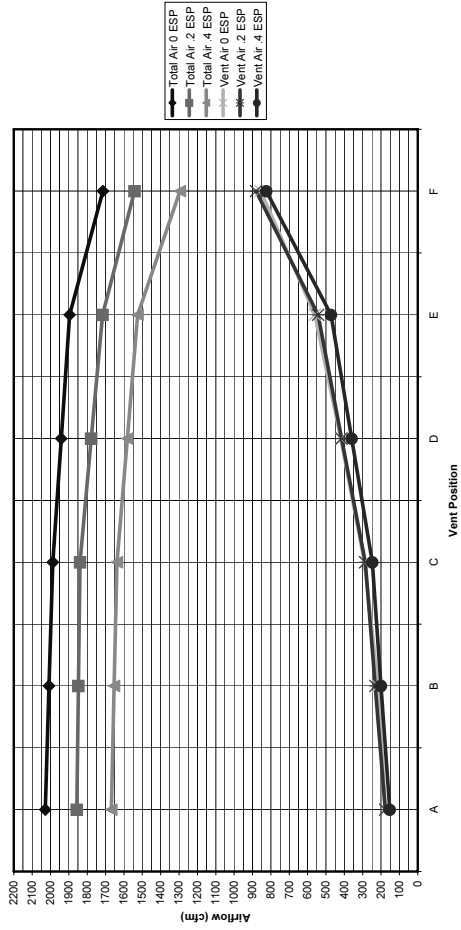


Commercial Room Ventilator Performance Data - CRVS-5 and CRVP-5

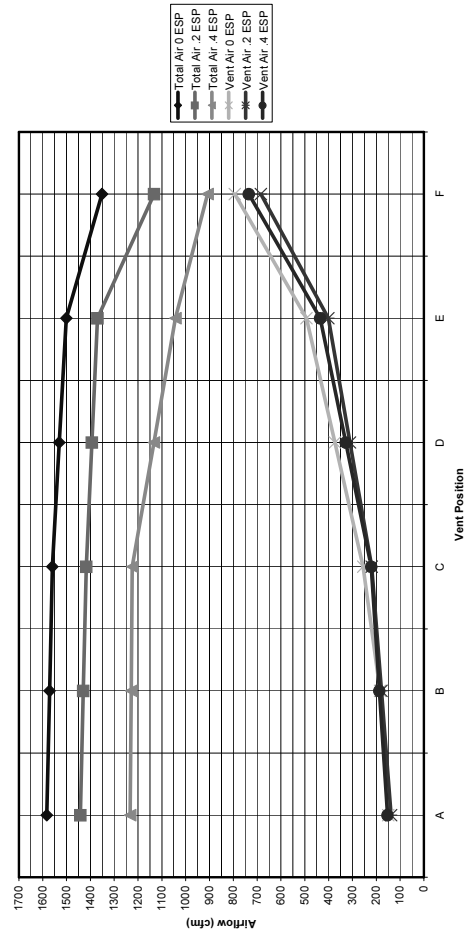
W42A & W48A HIGH SPEED TOTAL AND VENTILATION AIRFLOW



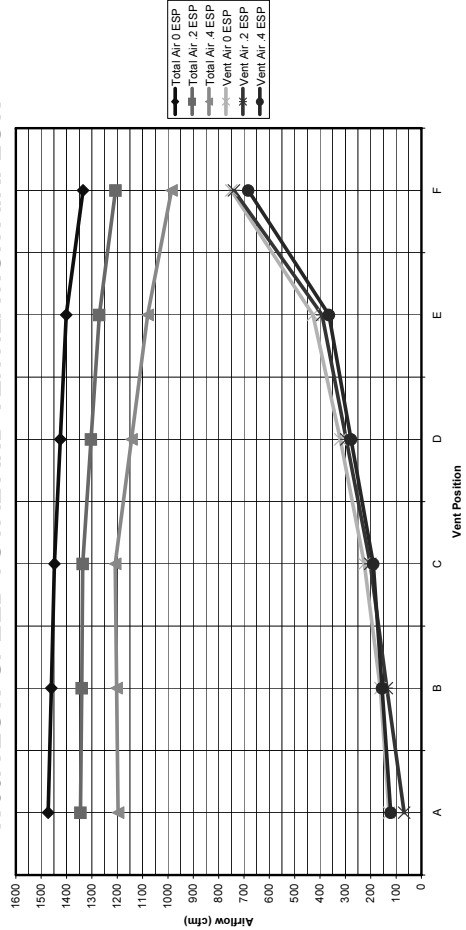
W60A HIGH SPEED TOTAL AND VENTILATION AIRFLOW



W42A & W48A LOW SPEED TOTAL AND VENTILATION AIRFLOW



W60A LOW SPEED TOTAL AND VENTILATION AIRFLOW



Performance and Application Data- ERVF-A2

SUMMER COOLING PERFORMANCE (INDOOR DESIGN CONDITIONS 75°DB/62°WB)

| Ambient O.D. | VENTILATION RATE -- 250 CFM 62% EFFICIENCY | | | | | | | VENTILATION RATE -- 225 CFM 63% EFFICIENCY | | | | | | VENTILATION RATE -- 200 CFM 63% EFFICIENCY | | | | | |
|--------------|---|-------|------|-------|-------|------|------|---|------|-------|------|------|------|---|------|-------|------|------|------|
| | DB/ WB | F | VLT | VLS | VLL | HRT | HRS | HRL | VLT | VLS | VLL | HRT | HRS | HRL | VLT | VLS | VLL | HRT | HRS |
| 105 | 75 | 11925 | 8100 | 1325 | 7394 | 5022 | 822 | 10727 | 7287 | 3441 | 6758 | 4591 | 2168 | 9540 | 6480 | 3060 | 6010 | 4082 | 1928 |
| | 70 | 8100 | 8100 | 0 | 5022 | 5022 | 0 | 7287 | 7287 | 0 | 4591 | 4591 | 0 | 6480 | 6480 | 0 | 4082 | 4082 | 0 |
| | 65 | 8100 | 8100 | 0 | 5022 | 5022 | 0 | 7287 | 7287 | 0 | 4591 | 4591 | 0 | 6480 | 6480 | 0 | 4082 | 4082 | 0 |
| 100 | 80 | 17550 | 6750 | 10800 | 10881 | 4185 | 6696 | 15788 | 6072 | 9716 | 9946 | 3826 | 6121 | 14040 | 5400 | 8640 | 8845 | 3402 | 5443 |
| | 75 | 11925 | 6750 | 5175 | 7394 | 4185 | 3209 | 10727 | 6072 | 4655 | 6758 | 3826 | 2933 | 9540 | 5400 | 4140 | 6010 | 3402 | 2608 |
| | 70 | 6863 | 6750 | 113 | 4255 | 4185 | 70 | 6173 | 6072 | 101 | 3889 | 3826 | 64 | 5490 | 5400 | 90 | 3458 | 3402 | 56 |
| | 65 | 6750 | 6750 | 0 | 4185 | 4185 | 0 | 6072 | 6072 | 0 | 3826 | 3826 | 0 | 5400 | 5400 | 0 | 3402 | 3402 | 0 |
| | 60 | 6750 | 6750 | 0 | 4185 | 4185 | 0 | 6072 | 6072 | 0 | 3826 | 3826 | 0 | 5400 | 5400 | 0 | 3402 | 3402 | 0 |
| 95 | 80 | 17550 | 5400 | 12150 | 10881 | 3348 | 7533 | 15788 | 4858 | 10930 | 9946 | 3060 | 6886 | 14040 | 4320 | 9720 | 8845 | 2722 | 6124 |
| | 75 | 11925 | 5400 | 6525 | 7394 | 3348 | 4046 | 10727 | 4858 | 5870 | 6758 | 3060 | 3698 | 9540 | 4320 | 5220 | 6010 | 2722 | 3289 |
| | 70 | 6863 | 5400 | 1463 | 4255 | 3348 | 907 | 6173 | 4858 | 1315 | 3889 | 3060 | 829 | 5490 | 4320 | 1170 | 3458 | 2722 | 737 |
| | 65 | 5400 | 5400 | 0 | 3348 | 3348 | 0 | 4858 | 4858 | 0 | 3060 | 3060 | 0 | 4320 | 4320 | 0 | 2722 | 2722 | 0 |
| | 60 | 5400 | 5400 | 0 | 3348 | 3348 | 0 | 4858 | 4858 | 0 | 3060 | 3060 | 0 | 4320 | 4320 | 0 | 2722 | 2722 | 0 |
| 90 | 80 | 17550 | 4050 | 13500 | 10881 | 2511 | 8370 | 15788 | 3643 | 12145 | 9946 | 2295 | 7651 | 14040 | 3240 | 10800 | 8845 | 2041 | 6804 |
| | 75 | 11925 | 4050 | 7875 | 7394 | 2511 | 4883 | 10727 | 3643 | 7084 | 6758 | 2295 | 4463 | 9540 | 3240 | 6300 | 6010 | 2041 | 3969 |
| | 70 | 6863 | 4050 | 2813 | 4255 | 2511 | 1744 | 6173 | 3643 | 2530 | 3889 | 2295 | 1594 | 5490 | 3240 | 2250 | 3458 | 2041 | 1417 |
| | 65 | 4050 | 4050 | 0 | 2511 | 2511 | 0 | 3643 | 3643 | 0 | 2295 | 2295 | 0 | 3240 | 3240 | 0 | 2041 | 2041 | 0 |
| | 60 | 4050 | 4050 | 0 | 2511 | 2511 | 0 | 3643 | 3643 | 0 | 2295 | 2295 | 0 | 3240 | 3240 | 0 | 2041 | 2041 | 0 |
| 85 | 80 | 17550 | 2700 | 14850 | 10881 | 1674 | 9207 | 15788 | 2429 | 13359 | 9946 | 1530 | 8416 | 14040 | 2160 | 11880 | 8845 | 1361 | 7484 |
| | 75 | 11925 | 2700 | 9225 | 7394 | 1674 | 5720 | 10727 | 2429 | 8298 | 6758 | 1530 | 5228 | 9540 | 2160 | 7380 | 6010 | 1361 | 4649 |
| | 70 | 6863 | 2700 | 4163 | 4255 | 1674 | 2581 | 6173 | 2429 | 3744 | 3889 | 1530 | 2359 | 5490 | 2160 | 3300 | 3458 | 1361 | 2098 |
| | 65 | 2700 | 2700 | 0 | 1674 | 1674 | 0 | 2429 | 2429 | 0 | 1530 | 1530 | 0 | 2160 | 2160 | 0 | 1361 | 1361 | 0 |
| | 60 | 2700 | 2700 | 0 | 1674 | 1674 | 0 | 2429 | 2429 | 0 | 1530 | 1530 | 0 | 2160 | 2160 | 0 | 1361 | 1361 | 0 |
| 80 | 75 | 11925 | 1350 | 10575 | 7394 | 837 | 6557 | 10727 | 1214 | 9513 | 6758 | 765 | 5993 | 9540 | 1080 | 8460 | 6010 | 680 | 5330 |
| | 70 | 6863 | 1350 | 5513 | 4255 | 837 | 3418 | 6173 | 1214 | 4959 | 3889 | 765 | 3124 | 5490 | 1080 | 4410 | 3458 | 680 | 2778 |
| | 65 | 2363 | 1350 | 1013 | 1465 | 837 | 628 | 2125 | 1214 | 911 | 1339 | 765 | 547 | 1890 | 1080 | 810 | 1190 | 680 | 510 |
| | 60 | 1350 | 1350 | 0 | 837 | 837 | 0 | 1214 | 1214 | 0 | 765 | 765 | 0 | 1080 | 1080 | 0 | 680 | 680 | 0 |
| 75 | 70 | 6863 | 0 | 6863 | 4255 | 0 | 4255 | 6173 | 0 | 6173 | 6889 | 0 | 3889 | 5490 | 0 | 5490 | 3458 | 0 | 3458 |
| | 65 | 2363 | 0 | 2363 | 1465 | 0 | 1465 | 2125 | 0 | 2125 | 1339 | 0 | 1339 | 1890 | 0 | 1890 | 1190 | 0 | 1190 |
| | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ERVF-A2 WINTER HEATING PERFORMANCE (INDOOR DESIGN CONDITIONS 70°F DB)

| Ambient O.D. | VENTILATION RATE | | | | | |
|--------------|---------------------|-------|---------------------|-------|---------------------|------|
| | 250 CFM 74% EFF. | | 225 CFM 75% EFF. | | 200 CFM 75% EFF. | |
| DB/°F | WVL | WHR | WVL | WHR | WVL | WHR |
| 65 | 1350 | 999 | 1214 | 911 | 1080 | 810 |
| 60 | 2700 | 1998 | 2429 | 1822 | 2160 | 1620 |
| 55 | 4050 | 2997 | 3643 | 2733 | 3240 | 2430 |
| 50 | 5400 | 3996 | 4858 | 3643 | 4320 | 3240 |
| 45 | 6750 | 4995 | 6072 | 4554 | 5400 | 4050 |
| 40 | 8100 | 5994 | 7287 | 5465 | 6480 | 4860 |
| 35 | 9450 | 6993 | 8501 | 6376 | 7560 | 5670 |
| 30 | 10800 | 7992 | 9716 | 7287 | 8640 | 6480 |
| 25 | 12150 | 8991 | 10930 | 8198 | 9720 | 7290 |
| 20 | 13500 | 9990 | 12145 | 9108 | 10800 | 8100 |
| 15 | 14850 | 10989 | 13359 | 10019 | 11880 | 8910 |

NOTE: Sensible performance only is shown for winter application.

LEGEND:

VLT = Ventilation Load - Total
VLS = Ventilation Load - Sensible
VLL = Ventilation Load - Latent
HRT = Heat Recovery - Total
HRS = Heat Recovery - Sensible
HRL = Heat Recovery - Latent
WVL = Winter Ventilation Load
WHR = Winter Heat Recovery

Performance and Application Data- ERVF-3

SUMMER COOLING PERFORMANCE
(INDOOR DESIGN CONDITIONS 75°DB/62°WB)

| Ambient O.D. | | VENTILATION RATE - 400CFM 63% EFFICIENCY | | | | | | | | | | VENTILATION RATE - 325 CFM 64% EFFICIENCY | | | | | | | | | | VENTILATION RATE - 250 CFM 65% EFFICIENCY | | | | | | | | | |
|--------------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|-------|-------|-------|------|--|--|--|--|
| DB/ WB | F | VLT | VLS | VLL | HRT | HRS | HRL | VLT | VLS | VLL | HRT | HRS | HRL | VLT | VLS | VLL | HRT | HRS | HRL | VLT | VLS | VLL | HRT | HRS | HRL | | | | | | |
| 75 | 19080 | 12360 | 12660 | 12960 | 13260 | 13560 | 13860 | 14160 | 14460 | 14760 | 15060 | 15360 | 15660 | 15960 | 16260 | 16560 | 16860 | 17160 | 17460 | 17760 | 18060 | 18360 | 18660 | 18960 | 19260 | 19560 | | | | | |
| 105 | 70 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | | | | | |
| 65 | 65 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | 12960 | | | | | |
| 80 | 28080 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | | | | | |
| 100 | 70 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | | | | | |
| 65 | 65 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | 10980 | | | | | |
| 60 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | 10800 | | | | | |
| 80 | 28080 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | 8640 | | | | | |
| 75 | 19080 | 8640 | 10440 | 10440 | 12020 | 12020 | 1443 | 6577 | 15502 | 7020 | 8482 | 9921 | 4492 | 5428 | 11925 | 5400 | 6525 | 7751 | 3510 | 4241 | 8882 | 5400 | 1482 | 4480 | 3510 | 950 | | | | | |
| 95 | 70 | 10980 | 8640 | 2340 | 6917 | 5443 | 1474 | 8921 | 7020 | 1901 | 5709 | 4492 | 1216 | 6862 | 5400 | 5400 | 5400 | 0 | 3510 | 3510 | 0 | 5400 | 5400 | 0 | 3510 | 3510 | 0 | | | | |
| 65 | 8640 | 8640 | 0 | 5443 | 5443 | 0 | 5443 | 5443 | 0 | 7020 | 7020 | 0 | 4492 | 4492 | 0 | 5400 | 5400 | 0 | 3510 | 3510 | 0 | 5400 | 5400 | 0 | 3510 | 3510 | 0 | | | | |
| 60 | 8640 | 8640 | 0 | 5443 | 5443 | 0 | 5443 | 5443 | 0 | 7020 | 7020 | 0 | 4492 | 4492 | 0 | 5400 | 5400 | 0 | 3510 | 3510 | 0 | 5400 | 5400 | 0 | 3510 | 3510 | 0 | | | | |
| 80 | 28080 | 6480 | 21600 | 17690 | 4082 | 13608 | 22815 | 5265 | 17550 | 2700 | 14601 | 3369 | 11232 | 17550 | 4050 | 13500 | 11407 | 2632 | 8774 | 11407 | 2632 | 8774 | 11407 | 2632 | 8774 | 11407 | 2632 | | | | |
| 75 | 19080 | 6480 | 12600 | 12020 | 4082 | 7938 | 15502 | 5265 | 10237 | 9921 | 3369 | 6552 | 11925 | 4050 | 7875 | 7751 | 2632 | 5118 | 11925 | 4050 | 7875 | 7751 | 2632 | 5118 | 11925 | 4050 | | | | | |
| 90 | 70 | 10980 | 6480 | 4500 | 6917 | 4082 | 2835 | 8921 | 5265 | 3656 | 5709 | 3369 | 2340 | 6862 | 4050 | 2812 | 4460 | 2632 | 1828 | 4460 | 2632 | 1828 | 4460 | 2632 | 1828 | 4460 | 2632 | | | | |
| 65 | 6480 | 6480 | 0 | 4082 | 4082 | 0 | 4082 | 4082 | 0 | 5265 | 5265 | 0 | 3369 | 3369 | 0 | 4050 | 4050 | 0 | 2632 | 2632 | 0 | 4050 | 4050 | 0 | 2632 | 2632 | 0 | | | | |
| 60 | 6480 | 6480 | 0 | 4082 | 4082 | 0 | 4082 | 4082 | 0 | 5265 | 5265 | 0 | 3369 | 3369 | 0 | 4050 | 4050 | 0 | 2632 | 2632 | 0 | 4050 | 4050 | 0 | 2632 | 2632 | 0 | | | | |
| 80 | 28080 | 4320 | 23760 | 17690 | 2721 | 14968 | 22815 | 3510 | 19305 | 2700 | 14601 | 2246 | 12355 | 17550 | 2700 | 14850 | 11407 | 1755 | 9652 | 11407 | 1755 | 9652 | 11407 | 1755 | 9652 | 11407 | 1755 | | | | |
| 75 | 19080 | 4320 | 14760 | 12020 | 2721 | 9298 | 15502 | 3510 | 11992 | 9921 | 2246 | 7675 | 11925 | 2700 | 9225 | 7751 | 1755 | 5996 | 11925 | 2700 | 9225 | 7751 | 1755 | 5996 | 11925 | 2700 | | | | | |
| 85 | 70 | 10980 | 4320 | 6660 | 6917 | 2721 | 4195 | 8921 | 3510 | 5411 | 5709 | 2246 | 3463 | 6862 | 2700 | 4162 | 4460 | 1755 | 2705 | 4460 | 1755 | 2705 | 4460 | 1755 | 2705 | 4460 | 1755 | | | | |
| 65 | 4320 | 4320 | 0 | 2721 | 2721 | 0 | 2721 | 2721 | 0 | 3510 | 3510 | 0 | 2246 | 2246 | 0 | 2700 | 2700 | 0 | 1755 | 1755 | 0 | 2700 | 2700 | 0 | 1755 | 1755 | 0 | | | | |
| 60 | 4320 | 4320 | 0 | 2721 | 2721 | 0 | 2721 | 2721 | 0 | 3510 | 3510 | 0 | 2246 | 2246 | 0 | 2700 | 2700 | 0 | 1755 | 1755 | 0 | 2700 | 2700 | 0 | 1755 | 1755 | 0 | | | | |
| 75 | 19080 | 2160 | 16920 | 12020 | 1360 | 10659 | 15502 | 1755 | 13747 | 9921 | 1123 | 8798 | 11925 | 1350 | 10575 | 7751 | 877 | 6673 | 11925 | 1350 | 10575 | 7751 | 877 | 6673 | 11925 | 1350 | | | | | |
| 70 | 10980 | 2160 | 8820 | 6917 | 1360 | 5556 | 8921 | 1755 | 7166 | 5709 | 1123 | 4586 | 6862 | 1350 | 5512 | 4460 | 877 | 3683 | 6862 | 1350 | 5512 | 4460 | 877 | 3683 | 6862 | 1350 | | | | | |
| 80 | 65 | 3780 | 2160 | 1620 | 2381 | 1360 | 1020 | 3071 | 1755 | 1316 | 1965 | 1123 | 842 | 2362 | 1350 | 1012 | 1535 | 877 | 658 | 2362 | 1350 | 1012 | 1535 | 877 | 658 | 2362 | | | | | |
| 60 | 2160 | 2160 | 0 | 1360 | 1360 | 0 | 1360 | 1360 | 0 | 1755 | 1755 | 0 | 1123 | 1123 | 0 | 1350 | 1350 | 0 | 877 | 877 | 0 | 1350 | 1350 | 0 | 877 | 877 | 0 | | | | |
| 70 | 10980 | 0 | 10980 | 6917 | 0 | 6917 | 0 | 6917 | 0 | 8921 | 5709 | 0 | 5709 | 6862 | 0 | 6862 | 4460 | 0 | 4460 | 6862 | 4460 | 0 | 4460 | 6862 | 4460 | 0 | | | | | |
| 75 | 65 | 3780 | 0 | 3780 | 2381 | 0 | 2380 | 3071 | 0 | 3071 | 1965 | 0 | 1965 | 2362 | 0 | 2362 | 1535 | 0 | 1535 | 2362 | 1535 | 0 | 1535 | 2362 | 1535 | 0 | | | | | |
| 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |

NOTE: Sensible performance only is shown for winter application.

Performance and Application Data- ERVF-5

SUMMER COOLING PERFORMANCE
(INDOOR DESIGN CONDITIONS 75°DB/62°WB)

| Ambient O.D. | | VENTILATION RATE - 450 CFM 65% EFFICIENCY | | | | | | | | | | VENTILATION RATE - 375 CFM 66% EFFICIENCY | | | | | | | | | | VENTILATION RATE - 300 CFM 67% EFFICIENCY | | | | | | | | | |
|--------------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|-------|-------|-------|--|--|--|--|--|
| DB/ WB | F | VLT | VLS | VLL | HRT | HRS | HRL | VLT | VLS | VLL | HRT | HRS | HRL | VLT | VLS | VLL | HRT | HRS | HRL | VLT | VLS | VLL | HRT | HRS | HRL | | | | | | |
| 75 | 21465 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | | | | | |
| 105 | 70 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | | | | | |
| 65 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | 14580 | | | | | |
| 80 | 31590 | 12150 | 19440 | 20533 | 7897 | 12635 | 26325 | 8100 | 10125 | 10125 | 16200 | 17374 | 6682 | 10892 | 21060 | 8100 | 12360 | 14110 | 5427 | 8683 | 12360 | 14110 | 5427 | 8683 | 12360 | 14110 | | | | | |
| 75 | 21465 | 12150 | 9314 | 13952 | 7897 | 6054 | 17887 | 10125 | 7762 | 11805 | 6682 | 5123 | 14310 | 8100 | 6210 | 9587 | 5427 | 4160 | 9587 | 5427 | 4160 | 9587 | 5427 | 4160 | 9587 | 5427 | | | | | |
| 100 | 70 | 12352 | 12150 | 202 | 8029 | 7897 | 131 | 10293 | 10125 | 168 | 6793 | 6682 | 111 | 8235 | 8100 | 135 | 5517 | 5427 | 90 | 5517 | 5427 | 90 | 5517 | 5427 | 90 | 5517 | | | | | |
| 65 | 12150 | 12150 | 0 | 7897 | 7897 | 0 | 7897 | 7897 | 0 | 10125 | 10125 | 0 | 6682 | 6682 | 0 | 8100 | 8100 | 0 | 5427 | 5427 | 0 | 5427 | 5427 | 0 | 5427 | 5427 | | | | | |
| 60 | 12150 | 12150 | 0 | 7897 | 7897 | 0 | 7897 | 7897 | 0 | 10125 | 10125 | 0 | 6682 | 6682 | 0 | 8100 | 8100 | 0 | 5427 | 5427 | 0 | 5427 | 5427 | 0 | 5427 | 5427 | | | | | |
| 80 | 31590 | 9720 | 21870 | 20533 | 6318 | 14215 | 26325 | 8100 | 18225 | 8100 | 20250 | 17374 | 5345 | 12028 | 21060 | 6480 | 14580 | 14110 | 4341 | 9768 | 14580 | 14110 | 4341 | 9768 | 14580 | 14110 | | | | | |
| 75 | 21465 | 9720 | 11744 | 13952 | 6318 | 7634 | 17887 | 8100 | 9787 | 11812 | 11805 | 5345 | 6459 | 14310 | 6480 | 7630 | 9587 | 4341 | 5246 | 9587 | 4341 | 5246 | 9587 | 4341 | 5246 | | | | | | |
| 95 | 70 | 12352 | 9720 | 2632 | 8029 | 6318 | 1711 | 10293 | 8100 | 2193 | 6793 | 5345 | 1447 | 8235 | 6480 | 1755 | 5517 | 4341 | 1175 | 5517 | 4341 | 1175 | 5517 | 4341 | 1175 | | | | | | |
| 65 | 9720 | 9720 | 0 | 6318 | 6318 | 0 | 6318 | 6318 | 0 | 8100 | 8100 | 0 | 5345 | 5345 | 0 | 6480 | 6480 | 0 | 4341 | 4341 | 0 | 4341 | 4341 | 0 | 4341 | 4341 | | | | | |
| 60 | 9720 | 9720 | 0 | 6318 | 6318 | 0 | 6318 | 6318 | 0 | 8100 | | | | | | | | | | | | | | | | | | | | | |

Electrical Specifications

| Model | Rated Volts and Phase | No. Field Power Circuits | Single Circuit | | | | Dual Circuit | | | | | | | | | |
|------------------------|-----------------------|--------------------------|----------------------------|---------------------------------------|-------------------------|---------------|----------------------------|--------|---------------------------------------|--------|-------------------------|--------|--------------------|--------|--|--|
| | | | ③ Minimum Circuit Ampacity | ① Maximum External Fuse or Ckt. Brkr. | ② Field Power Wire Size | ② Ground Wire | ③ Minimum Circuit Ampacity | | ① Maximum External Fuse or Ckt. Brkr. | | ② Field Power Wire Size | | ② Ground Wire Size | | | |
| | | | | | | | Ckt. A | Ckt. B | Ckt. A | Ckt. B | Ckt. A | Ckt. B | Ckt. A | Ckt. B | | |
| W17A1/W18A1 - A00, A0Z | 230/208-1 | 1 | 16 | 20 | 12 | 12 | | | | | | | | | | |
| A05 | | 1 | 30 | 30 | 10 | 10 | | | | | | | | | | |
| A08 | | 1 | 46 | 50 | 8 | 10 | | | | | | | | | | |
| A10 | | 1 | 56 | 60 | 6 | 10 | | | | | | | | | | |
| W24A1 - A00, A0Z | 230/208-1 | 1 | 21 | 30 | 10 | 10 | | | | | | | | | | |
| A04 | | 1 | 25 | 25 | 10 | 10 | | | | | | | | | | |
| A05 | | 1 | 30 | 30 | 10 | 10 | | | | | | | | | | |
| A08 | | 1 | 46 | 50 | 8 | 10 | | | | | | | | | | |
| A10 | | 1 | 56 | 60 | 6 | 10 | | | | | | | | | | |
| W24A1 - B00, B0Z | 230/208-3 | 1 | 15 | 20 | 14 | 14 | | | | | | | | | | |
| B06 | | 1 | 22 | 25 | 10 | 10 | | | | | | | | | | |
| W24A1 - C00, C0Z | 460-3 | 1 | 10 | 15 | 14 | 14 | | | | | | | | | | |
| C06 | | 1 | 12 | 15 | 14 | 14 | | | | | | | | | | |
| W30A1 - A00*, A0Z* | 230/208-1 | 1 | 24 | 35 | 8 | 10 | | | | | | | | | | |
| A05* | | 1 | 32 | 35 | 8 | 10 | | | | | | | | | | |
| A08 | | 1 | 48 | 50 | 8 | 10 | | | | | | | | | | |
| A10* | | 1 | 58 | 60 | 6 | 10 | | | | | | | | | | |
| A15 | | 1 or 2 | 84 | 90 | 4 | 8 | 58 | 26 | 60 | 30 | 6 | 10 | 10 | 10 | | |
| W30A1 - B00*, B0Z* | 230/208-3 | 1 | 18 | 20 | 12 | 12 | | | | | | | | | | |
| B06 | | 1 | 24 | 25 | 10 | 10 | | | | | | | | | | |
| B09* | | 1 | 33 | 35 | 8 | 10 | | | | | | | | | | |
| B15 | | 1 | 51 | 60 | 8 | 10 | | | | | | | | | | |
| W30A1 - C00*, C0Z* | 460-3 | 1 | 11 | 15 | 14 | 14 | | | | | | | | | | |
| C06 | | 1 | 12 | 15 | 14 | 14 | | | | | | | | | | |
| C09* | | 1 | 17 | 20 | 12 | 12 | | | | | | | | | | |
| C15 | | 1 | 26 | 30 | 10 | 10 | | | | | | | | | | |
| W36A1 - A00*, A0Z* | 230/208-1 | 1 | 29 | 35 | 8 | 10 | | | | | | | | | | |
| A05* | | 1 | 32 | 35 | 8 | 10 | | | | | | | | | | |
| A08 | | 1 | 48 | 50 | 8 | 10 | | | | | | | | | | |
| A10* | | 1 | 58 | 60 | 6 | 10 | | | | | | | | | | |
| A15 | | 1 or 2 | 84 | 90 | 4 | 8 | 58 | 26 | 60 | 30 | 6 | 10 | 10 | 10 | | |
| W36A1 - B00*, B0Z* | 230/208-3 | 1 | 23 | 30 | 10 | 10 | | | | | | | | | | |
| B06 | | 1 | 24 | 30 | 10 | 10 | | | | | | | | | | |
| B09* | | 1 | 33 | 35 | 8 | 10 | | | | | | | | | | |
| B15 | | 1 | 51 | 60 | 6 | 10 | | | | | | | | | | |
| W36A1 - C00*, C0Z* | 460-3 | 1 | 12 | 15 | 14 | 14 | | | | | | | | | | |
| C06 | | 1 | 12 | 15 | 14 | 14 | | | | | | | | | | |
| C09* | | 1 | 17 | 20 | 10 | 10 | | | | | | | | | | |
| C15 | | 1 | 26 | 30 | 10 | 10 | | | | | | | | | | |
| W42A1 - A00, A0Z ① | 230/208-1 | 1 | 33 | 50 | 8 | 10 | | | | | | | | | | |
| A05 ① | | 1 | 33 | 50 | 8 | 10 | | | | | | | | | | |
| A10 ① | | 1 | 59 | 60 | 6 | 10 | | | | | | | | | | |
| A15 | | 1 or 2 | 85 | 90 | 4 | 8 | 59 | 26 | 60 | 30 | 6 | 10 | 10 | 10 | | |
| A20 | | 1 or 2 | 111 | 125 | 2 | 6 | 59 | 52 | 60 | 60 | 6 | 6 | 10 | 10 | | |
| W42A1 - B00, B0Z ① | 230/208-3 | 1 | 25 | 35 | 8 | 10 | | | | | | | | | | |
| B09 ① | | 1 | 34 | 35 | 8 | 10 | | | | | | | | | | |
| B15 | | 1 | 53 | 60 | 6 | 10 | | | | | | | | | | |
| B18 ① | | 2 | N/A | N/A | N/A | N/A | 34 | 28 | 35 | 30 | 8 | 10 | 10 | 10 | | |
| W42A1 - C00, C0Z ① | 460-3 | 1 | 13 | 15 | 14 | 14 | | | | | | | | | | |
| C09 ① | | 1 | 18 | 20 | 12 | 12 | | | | | | | | | | |
| C15 | | 1 | 27 | 30 | 10 | 10 | | | | | | | | | | |
| W48A1 - A00, A0Z ① | 230/208-1 | 1 | 37 | 50 | 8 | 10 | | | | | | | | | | |
| A05 ① | | 1 | 37 | 50 | 8 | 10 | | | | | | | | | | |
| A10 ① | | 1 | 59 | 60 | 6 | 10 | | | | | | | | | | |
| A15 | | 1 or 2 | 85 | 90 | 4 | 8 | 59 | 26 | 60 | 30 | 6 | 10 | 10 | 10 | | |
| A20 | | 1 or 2 | 111 | 125 | 2 | 6 | 59 | 52 | 60 | 60 | 6 | 6 | 10 | 10 | | |
| W48A1 - B00, B0Z ① | 230/208-3 | 1 | 29 | 40 | 8 | 10 | | | | | | | | | | |
| B09 ① | | 1 | 34 | 40 | 8 | 10 | | | | | | | | | | |
| B15 | | 1 | 53 | 60 | 6 | 10 | | | | | | | | | | |
| B18 ① | | 2 | N/A | N/A | N/A | N/A | 34 | 28 | 40 | 30 | 8 | 10 | 10 | 10 | | |
| W48A1 - C00, C0Z ① | 460-3 | 1 | 14 | 20 | 12 | 12 | | | | | | | | | | |
| C09 ① | | 1 | 18 | 20 | 12 | 12 | | | | | | | | | | |
| C15 | | 1 | 27 | 30 | 10 | 10 | | | | | | | | | | |
| W60A1 - A00, A0Z ① | 230/208-1 | 1 | 41 | 60 | 8 | 10 | | | | | | | | | | |
| A05 ① | | 1 | 41 | 60 | 8 | 10 | | | | | | | | | | |
| A10 ① | | 1 | 59 | 60 | 6 | 10 | | | | | | | | | | |
| A15 | | 1 or 2 | 85 | 90 | 4 | 8 | 59 | 26 | 60 | 30 | 6 | 10 | 10 | 10 | | |
| A20 | | 1 or 2 | 111 | 125 | 2 | 6 | 59 | 52 | 60 | 60 | 6 | 6 | 10 | 10 | | |
| W60A1 - B00, B0Z ① | 230/208-3 | 1 | 29 | 40 | 8 | 10 | | | | | | | | | | |
| B09 ① | | 1 | 34 | 40 | 8 | 10 | | | | | | | | | | |
| B15 ① | | 1 | 53 | 60 | 6 | 10 | | | | | | | | | | |
| B18 ① | | 2 | N/A | N/A | N/A | N/A | 34 | 28 | 40 | 30 | 8 | 10 | 10 | 10 | | |
| W60A1 - C00, C0Z ① | 460-3 | 1 | 15 | 20 | 12 | 12 | | | | | | | | | | |
| C09 ① | | 1 | 18 | 20 | 12 | 12 | | | | | | | | | | |
| C15 | | 1 | 27 | 30 | 10 | 10 | | | | | | | | | | |

① Maximum size of the time delay fuse or HACR type circuit breaker for protection of field wiring conductors.

② Based on 75C copper wire. All wiring must conform to the National Electrical Code and all local codes.

③ These "Minimum Circuit Ampacity" values are to be used for sizing the field power conductors. Refer to the National Electrical code (latest version), Article 310 for power conductor sizing.

④ These models are available with dehumidification with hot gas reheat.

Caution: When more than one field power circuit is run through one conduit, the conductors must be derated. Pay special attention to note 8 of Table 310 regarding Ampacity Adjustment Factors when more than three (3) current carrying conductors are in a raceway.

* Top outlet supply option is available only factory installed and only on the selected models.

IMPORTANT: While this electrical data is presented as a guide, it is important to electrically connect properly sized fuses & conductor wires in accordance with the National Electrical Code & all local codes.

Form No. S3397-511

Supersedes S3397-410

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Indoor Blower Performance - CFM at Rated Volts

| ESP in H ₂ O | W17A1 W18A1 | | W24A1 | W30A1 W36A1 | | W42A1 W48A1 | | W60A1 | |
|-------------------------------|----------------------------|---------------------------|------------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|
| | High Speed Dry/Wet Coil | Low Speed Dry/Wet Coil | Single Speed Dry/Wet Coil | High Speed Dry/Wet Coil | Low Speed Dry/Wet Coil | High Speed Dry/Wet Coil | Low Speed Dry/Wet Coil | High Speed Dry/Wet Coil | Low Speed Dry/Wet Coil |
| 0 | 925/885 | 670/655 | 1020/975 | 1395/1315 | 950/935 | 1885/1800 | 1650/1600 | 2200/2000 | 1600/1450 |
| .1 | 875/845 | 650/630 | 960/905 | 1340/1270 | 930/915 | 1770/1665 | 1550/1500 | 2100/1900 | 1525/1375 |
| .2 | 825/795 | 625/600 | 865/800 | 1285/1190 | 910/885 | 1635/1550 | 1450/1400 | 2000/1800 | 1465/1200 |
| .3 | 775/740 | 575/555 | 820/735 | 1205/1100 | 855/830 | 1500/1400 | 1350/1300 | 1875/1700 | -/- |
| .4 | 710/670 | 525/500 | 735/650 | 1110/1000 | 800/755 | 1370/1285 | 1300/1175 | 1775/1600 | -/- |
| .5 | 635/600 | 465/440 | 615/535 | 1005/870 | -/- | 1250/1150 | -/- | 1650/1475 | -/- |

Above data is with 1" standard throwaway filter and 1" washable filter.

For optional 2" pleated filter - reduce ESP by .15 in.

See installation instructions for maximum ESP information on various KW application.

Speeds marked "bold" above
are **Factory Connected**.

Electric Heat Table - Refer to Electrical Specifications for Availability by Unit Model

| Nominal KW | At 240V (1) | | | | At 208V (1) | | | | At 480V (2) | | | At 460V (2) | | |
|---------------|-------------|-----------|-----------|--------|-------------|-----------|-----------|--------|-------------|-----------|--------|-------------|-----------|--------|
| | Kw | 1-Ph Amps | 3-Ph Amps | Btuh | Kw | 1-Ph Amps | 3-Ph Amps | Btuh | Kw | 3-Ph Amps | Btuh | Kw | 3-Ph Amps | Btuh |
| 5.0 | 5.0 | 20.8 | | 17,065 | 3.75 | 18.0 | | 12,799 | | | | | | |
| 6.0 | 6.0 | | 14.4 | 20,478 | 4.50 | | 12.5 | 15,359 | 6.0 | 7.2 | 20,478 | 5.52 | 6.9 | 18,840 |
| 8.0 | 8.0 | 33.3 | | 27,304 | 6.00 | 28.8 | | 20,478 | | | | | | |
| 9.0 | 9.0 | | 21.7 | 30,717 | 6.75 | | 18.7 | 23,038 | 9.0 | 10.8 | 30,717 | 8.28 | 10.4 | 28,260 |
| 10.0 | 10.0 | 41.7 | | 34,130 | 7.50 | 36.1 | | 25,598 | | | | | | |
| 15.0 | 15.0 | 62.5 | 36.1 | 51,195 | 11.25 | 54.1 | 31.2 | 38,396 | 15.0 | 18.0 | 51,195 | 13.80 | 17.3 | 47,099 |
| 18.0 | 18.0 | | 43.3 | 61,434 | 13.50 | | 37.5 | 46,076 | 18.0 | 21.7 | 61,434 | 16.56 | 20.8 | 56,519 |
| 20.0 | 20.0 | 83.3 | | 68,260 | 15.00 | 72.1 | | 51,195 | | | | | | |

(1) These electric heaters are available in 230/208V units only.

(2) These electric heaters are available in 480V units only.

Heater Packages - Field Installed

- Designed for adding Electric Heat to 0 KW Units
- Circuit Breaker Standard on 230/208V Models

- ETL US & Canada Listed
- Toggle Disconnect Standard on 460V Models

| Air Conditioner Models | -A00 Models 230/208-1 | | -B00 Models 230/208-3 | | -C00 Models 460-3 | |
|---------------------------|--|---------------------|--|---------------|---|--------------|
| | Heater Model # | KW | Heater Model # | KW | Heater Model # | KW |
| W17A1 W18A1 | EHWA02-A05 EHW02A-A08 EHWA02A-A10 | 5 8 10 | N/A | | N/A | |
| W24A1 | EHWA02-A05 EHW02A-A08 EHWA02A-A10 | 5 8 10 | EHWA24-B06 | 6 | EHWH24B-C06 | 6 |
| W30A1 | EHWA03-A05 EHWA03-A08 EHWA03-A10 EHWA03-A15 | 5 8 10 15 | EHWA03-B06 EHWA03-B09 EHWA37-B15 | 6 9 15 | EHWC03A-C06 EHWC03A-C09 EHWA03A-C15 | 6 9 15 |
| W36A1 | EHWA03-A05 EHWA03-A08 EHWA03-A10 EHWA03-A15 | 5 8 10 15 | EHW36A-B06 EHWA03-B09 EHWA37-B15 | 6 9 15 | EHWC03A-C06 EHWC03A-C09 EHWA03A-C15 | 6 9 15 |
| W42A1 W48A1 | EHWA05-A05 ① EHWA05-A10 ① EHWA05-A15 EHWA05-A20 | 5 10 15 20 | EHWA05-B09 ① EHWA05-B15 EHW05A-B18 ① | 9 15 18 | EHWA05A-C09 ① EHWA05A-C15 | 9 15 |
| W60A1 | EHWA60-A05 ① EHWA05-A10 ① EHWA05-A15 EHWA05-A20 | 5 10 15 20 | EHW60A-B09 ① EHWA05-B15 ① EHW05A-B18 ① | 9 15 18 | EHWA05A-C09 ① EHWA05A-C15 | 9 15 |

NOTE: Field installed Heater Packages are not approved for use with top supply opening models.

① These heater packages approved for use in dehumidification versions with hot gas reheat.

Cooling Application Data - Outdoor Temperature ①

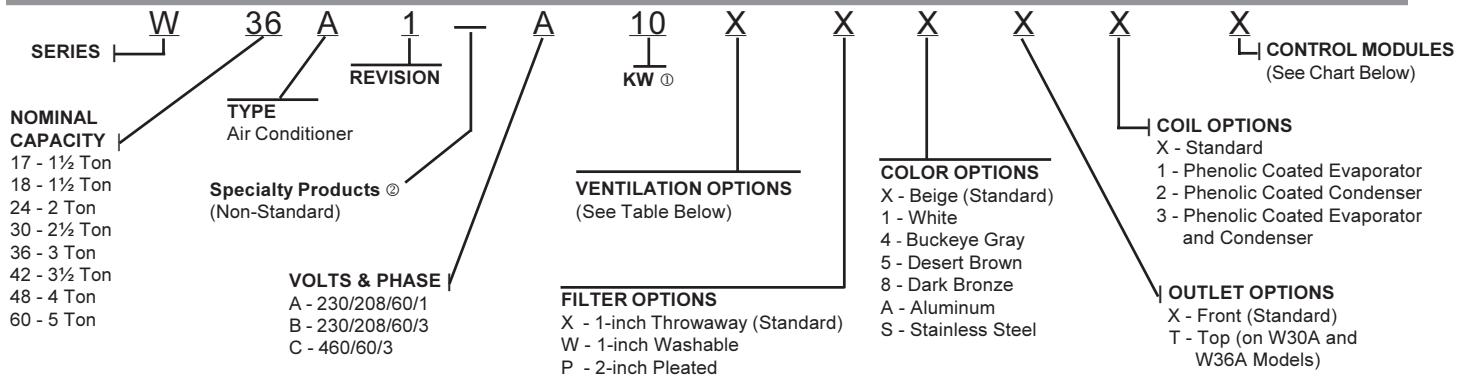
| Model | D.B./W.B. ② | Cooling Capacity | 75°F | 80°F | 85°F | 90°F | 95°F | 100°F | 105°F | 110°F | 115°F | 120°F |
|----------------|-------------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| W17A1 W18A1 | 75/ 62 | Total Cooling | 17,500 | 16,700 | 15,900 | 15,100 | 14,300 | 13,600 | 12,900 | 12,200 | 11,600 | 10,800 |
| | | Sensible Cooling | 13,900 | 13,500 | 13,200 | 12,800 | 12,500 | 12,200 | 11,800 | 11,500 | 11,100 | 10,700 |
| | 80/ 67 | Total Cooling | 18,600 | 18,100 | 17,600 | 17,000 | 16,400 | 15,800 | 15,200 | 14,500 | 13,900 | 13,100 |
| | | Sensible Cooling | 13,400 | 13,200 | 13,000 | 12,800 | 12,600 | 12,400 | 12,100 | 11,800 | 11,500 | 11,200 |
| | 85/ 72 | Total Cooling | 22,200 | 21,200 | 20,200 | 19,200 | 18,300 | 17,300 | 16,400 | 15,500 | 14,600 | 13,700 |
| | | Sensible Cooling | 13,800 | 13,400 | 13,100 | 12,800 | 12,400 | 12,000 | 11,600 | 11,100 | 10,600 | 10,200 |
| W24A1 | 75/ 62 | Total Cooling | 26,000 | 24,500 | 23,300 | 22,100 | 20,900 | 20,000 | 19,100 | 18,400 | 17,600 | 17,100 |
| | | Sensible Cooling | 20,100 | 19,700 | 19,200 | 18,800 | 18,400 | 17,900 | 17,400 | 16,900 | 16,400 | 15,900 |
| | 80/ 67 | Total Cooling | 27,700 | 26,700 | 25,800 | 24,900 | 24,000 | 23,300 | 22,500 | 21,900 | 21,200 | 20,700 |
| | | Sensible Cooling | 19,500 | 19,300 | 19,000 | 18,800 | 18,500 | 18,200 | 17,800 | 17,400 | 17,000 | 16,600 |
| | 85/ 72 | Total Cooling | 33,000 | 31,200 | 29,700 | 28,100 | 26,700 | 25,500 | 24,300 | 23,300 | 22,300 | 21,500 |
| | | Sensible Cooling | 20,000 | 19,600 | 19,100 | 18,700 | 18,200 | 17,600 | 17,000 | 16,300 | 15,700 | 15,000 |
| W30A1 | 75/ 62 | Total Cooling | 31,100 | 29,700 | 28,300 | 27,000 | 25,800 | 24,700 | 23,700 | 22,700 | 21,700 | 20,900 |
| | | Sensible Cooling | 24,500 | 24,000 | 23,500 | 22,900 | 22,400 | 21,800 | 21,300 | 20,700 | 20,100 | 19,500 |
| | 80/ 67 | Total Cooling | 33,200 | 32,300 | 31,400 | 30,400 | 29,400 | 28,600 | 27,800 | 27,000 | 26,100 | 25,300 |
| | | Sensible Cooling | 23,700 | 23,500 | 23,200 | 22,900 | 22,600 | 22,200 | 21,800 | 21,400 | 20,900 | 20,400 |
| | 85/ 72 | Total Cooling | 39,600 | 37,800 | 36,100 | 34,500 | 32,900 | 31,500 | 30,100 | 28,800 | 27,500 | 26,300 |
| | | Sensible Cooling | 24,300 | 23,900 | 23,300 | 22,800 | 22,200 | 21,500 | 20,800 | 20,100 | 19,300 | 18,500 |
| W36A1 | 75/ 62 | Total Cooling | 38,100 | 35,900 | 34,100 | 32,300 | 30,800 | 29,600 | 28,600 | 27,700 | 26,900 | 26,400 |
| | | Sensible Cooling | 28,500 | 27,800 | 27,100 | 26,400 | 25,800 | 25,200 | 24,700 | 24,200 | 23,700 | 23,200 |
| | 80/ 67 | Total Cooling | 40,600 | 39,100 | 37,800 | 36,500 | 35,400 | 34,500 | 33,700 | 33,000 | 32,400 | 32,000 |
| | | Sensible Cooling | 27,600 | 27,200 | 26,800 | 26,400 | 26,000 | 25,600 | 25,300 | 25,000 | 24,600 | 24,300 |
| | 85/ 72 | Total Cooling | 48,400 | 45,700 | 43,400 | 41,200 | 39,300 | 37,800 | 36,400 | 35,100 | 34,100 | 33,300 |
| | | Sensible Cooling | 28,300 | 27,600 | 26,900 | 26,200 | 25,500 | 24,800 | 24,100 | 23,500 | 22,700 | 22,000 |
| W42A1 | 75/ 62 | Total Cooling | 43,600 | 41,500 | 39,600 | 37,600 | 35,700 | 33,900 | 32,100 | 30,400 | 28,700 | 27,000 |
| | | Sensible Cooling | 35,500 | 34,500 | 33,600 | 32,700 | 31,800 | 31,000 | 30,100 | 29,200 | 28,400 | 27,000 |
| | 80/ 67 | Total Cooling | 46,500 | 45,200 | 43,900 | 42,500 | 41,000 | 39,500 | 37,900 | 36,200 | 34,500 | 32,700 |
| | | Sensible Cooling | 34,400 | 33,800 | 33,300 | 32,700 | 32,100 | 31,500 | 30,900 | 30,200 | 29,500 | 28,800 |
| | 85/ 72 | Total Cooling | 55,400 | 52,900 | 50,400 | 48,000 | 45,600 | 43,200 | 40,900 | 38,500 | 36,300 | 34,000 |
| | | Sensible Cooling | 35,200 | 34,300 | 33,500 | 32,500 | 31,500 | 30,500 | 29,500 | 28,300 | 27,200 | 26,000 |
| W48A1 | 75/ 62 | Total Cooling | 49,600 | 47,300 | 45,100 | 43,000 | 40,900 | 39,000 | 37,100 | 35,100 | 33,300 | 31,400 |
| | | Sensible Cooling | 39,900 | 39,100 | 38,200 | 37,300 | 36,400 | 35,500 | 34,500 | 33,600 | 32,700 | 31,400 |
| | 80/ 67 | Total Cooling | 52,900 | 51,500 | 50,100 | 48,600 | 47,000 | 45,400 | 43,700 | 41,900 | 40,000 | 38,100 |
| | | Sensible Cooling | 38,700 | 38,300 | 37,800 | 37,300 | 36,700 | 36,100 | 35,400 | 34,700 | 34,000 | 33,100 |
| | 85/ 72 | Total Cooling | 63,000 | 60,200 | 57,500 | 54,900 | 52,200 | 49,700 | 47,100 | 44,600 | 42,000 | 39,600 |
| | | Sensible Cooling | 39,600 | 38,900 | 38,000 | 37,100 | 36,000 | 34,900 | 33,800 | 32,500 | 31,300 | 29,900 |
| W60A1 | 75/ 62 | Total Cooling | 59,200 | 56,200 | 53,300 | 50,500 | 47,900 | 45,400 | 43,100 | 40,800 | 38,600 | 36,600 |
| | | Sensible Cooling | 45,200 | 43,800 | 42,300 | 41,000 | 39,700 | 38,500 | 37,300 | 36,100 | 35,000 | 33,900 |
| | 80/ 67 | Total Cooling | 63,200 | 61,200 | 59,200 | 57,100 | 55,000 | 52,900 | 50,800 | 48,700 | 46,500 | 44,300 |
| | | Sensible Cooling | 43,800 | 42,900 | 41,900 | 41,000 | 40,100 | 39,200 | 38,300 | 37,300 | 36,400 | 35,500 |
| | 85/ 72 | Total Cooling | 75,300 | 71,600 | 68,000 | 64,500 | 61,100 | 57,900 | 54,800 | 51,800 | 48,900 | 46,000 |
| | | Sensible Cooling | 44,900 | 43,600 | 42,100 | 40,700 | 39,300 | 37,900 | 36,500 | 35,000 | 33,500 | 32,100 |

| Capacity Multiplier Factors | | | |
|-----------------------------|-------|-------|------|
| % of Rated Airflow | -10 | Rated | +10 |
| Total BTUH | 0.975 | 1.0 | 1.02 |
| Sensible BTUH | 0.950 | 1.0 | 1.05 |

① Below 65°F (18.3C), unit requires a factory or field installed low ambient control.

② Return air temperature.

Air Conditioning Wall-Mount Model Nomenclature



- ① For 0KW and circuit breakers (230/208 Volt) or toggle disconnects (460 Volt) applications, insert 0Z in the KW field of the model number. See Page 8 for available Factory Installed KW options and Page 9 for Field Installed Heater Packages.
- ② Insert "D" for dehumidification with hot gas reheat — Models W42 - 60 only. See Form 7960-572 for complete details.

Ventilation Options

| Models | W17A1, W18A1, W24A1 | | W30A1, W36A1 | | W42A1, W48A1, W60A1 | |
|---|----------------------------|--------------------------|----------------------------|--------------------------|----------------------------|--------------------------|
| | Factory Installed Code No. | Field Installed Part No. | Factory Installed Code No. | Field Installed Part No. | Factory Installed Code No. | Field Installed Part No. |
| Barometric Fresh Air Damper - Standard | X | BFAD-2 | X | BFAD-3 | X | BFAD-5 |
| Blank-Off Plate | B | BOP-2 | B | BOP-3 | B | BOP-5 |
| Motorized Fresh Air Damper | M | MFAD-2 | M | MFAD-3 | M | MFAD-5 |
| Commercial Ventilator - Spring Return w/Exhaust | V | CRV-2 | V | CRVS-3 | V | CRVS-5 |
| Commercial Ventilator - Power Return w/Exhaust | --- | --- | P | CRVP-3 | P | CRVP-5 |
| Economizer - Fully Modulating ① | E | EIFM-2B | E | EIFM-3C | E | EIFM-5C |
| Economizer - Fully Modulating ①② | D | N/A | D | N/A | D | N/A |
| Energy Recovery Ventilator - 230 Volt * | R | ERVF-A2 | R | ERVF-A3 ③ | R | ERVF-A5 ③ |
| Energy Recovery Ventilator - 460 Volt * | N/A | ERVF-C2 ④ | R | ERVF-C3 ③ | R | ERVF-C5 ③ |
| Door Kit for ERVF (Required) | N/A | WMDK2-* | N/A | WMDK3-* | N/A | WMDK5-* |

- ① Low ambient control is required with economizer for low temperature compressor operation.
- ② For use only with "V" Control Module and TCS24 Controller.
- ③ Intake and exhaust can be independently adjusted.
- ④ Model W24A1-C only.
- * WMDK Door Kit must be ordered in addition to ERVF Assembly and color matched to unit ("X" = Beige; "4" = Buckeye Gray; "8" = Dark Bronze)

Air Conditioning Control Modules

| Air Conditioning Control Modules | | | | | | | | | All Models Except As Noted | | W17A1 Factory Only |
|----------------------------------|-------|-------|--------|-------|------|------|-------|-------|----------------------------|--|--------------------|
| HPC ① | LPC ② | CCM ③ | LAC ④① | ALR ⑤ | SK ⑥ | SK ⑦ | ODT ⑧ | DDC ⑨ | Factory Installed Code | Field Installed Part | |
| STD | STD | STD | | | | | | | X | N/A | N/A |
| STD | STD | STD | ● | | | | | | E ⑩ | CMA-28 | N/A |
| STD | STD | STD | ● | ● | | | | | J ⑪ | Factory Only | J |
| STD | STD | STD | ● | | ● | | | | K ⑫ | CMC-15 and CMA-28 | N/A |
| STD | STD | STD | ● | ● | ● | | | | M ⑬ | Factory Only | M |
| STD | STD | STD | ● | | ● | | | | N, W18A Only ⑭ | N/A | N/A |
| STD | STD | STD | | | ● | | | | Field Installed Only | CMC-15 | CMC-15 |
| STD | STD | STD | | | | | ● | | Field Installed Only | CMA-14 | N/A |
| STD | STD | STD | ● | ● | | | | ● | V ⑯⑰ | Factory Only | N/A |
| STD | STD | STD | | | | | | ● | Field Installed Only | CMA-23 for W18-36A CMA-24 for W42-60A | N/A |
| STD | STD | STD | | | | ● | | | Field Installed Only | SK111 | SK111 |

- STD = Standard equipment for these specified models.
- ① HPC. High pressure control is auto reset. Always used with compressor control module (CCM) which is included. See note ③.
- ② LPC. Low pressure control is auto reset. Always used with compressor control module (CCM) which is included. See note ③.
- ③ CCM. Compressor control module has adjustable 30-second to 5-minute delay-on-break timer. On initial power-up, or any time the power is interrupted, the delay-on-make will be 2-minutes plus 10% of the delay-on-break setting. There is no delay-on-make during routine operation of the unit. The module also provides the lockout feature (with 1 retry) for high and/or low-pressure controls, and a 2-minute timed bypass for low-pressure control.
- ④ LAC. Low ambient control permits cooling operation down to 0°F. LAC is fan-cycling control for outdoor fan motor on all models except W17A1, which is modulating control.
- ⑤ ALR. The alarm relay has a set of normally open and normally closed dry contacts to provide the ability to signal a condition of shutdown on either high or low pressure controls.
- ⑥ SK. PTCR start kit can be used with all -A single phase models. Increases starting torque 2-3x. Not used for -B or -C three phase models. Do not use if SK111 is used.
- ⑦ SK. Start capacitor and potential relay start kit can be used with all -A single phase models. Increases starting torque 9x. Not used for -B or -C three phase models. Do not use if CMC-15 is used.
- ⑧ ODT. Outdoor thermostat is adjustable from 0 to 50°F. It is suitable for use as a compressor cut-off thermostat.
- ⑨ DDC. Incorporates 4 additional sensors: discharge air temperature, indoor blower airflow, compressor current, and dirty filter. These sensing devices function to input analog data such as temperature, as well as digital data such as airflow, compressor status or filter status.
- ⑩ "V" control module should be ordered in conjunction with direct digital controller (DDC) model TCS24. Refer to DDC specification sheet S3280 for more information.
- ⑪ Option not available for Model W18A.
- ⑫ Use option N for Alarm Relay on Model W18A only.

Clearances Required for Service Access and Adequate Condenser Inlet Airflow

| MODELS | LEFT SIDE | RIGHT SIDE |
|------------------------------|-----------|------------|
| W17A, W18A, W24A, W30A, W36A | 15" | 20" |
| W42A, W48A, W60A | 20" | 20" |

NOTE: For side by side installation of two (2) WA models there must be 20" between units. This can be reduced to 15" by using a WL model (left side compressor and controls) for the left unit and WA (right side compressor and controls) for right unit. See WL Specifications S3400.

Minimum Clearances Required to Combustible Materials

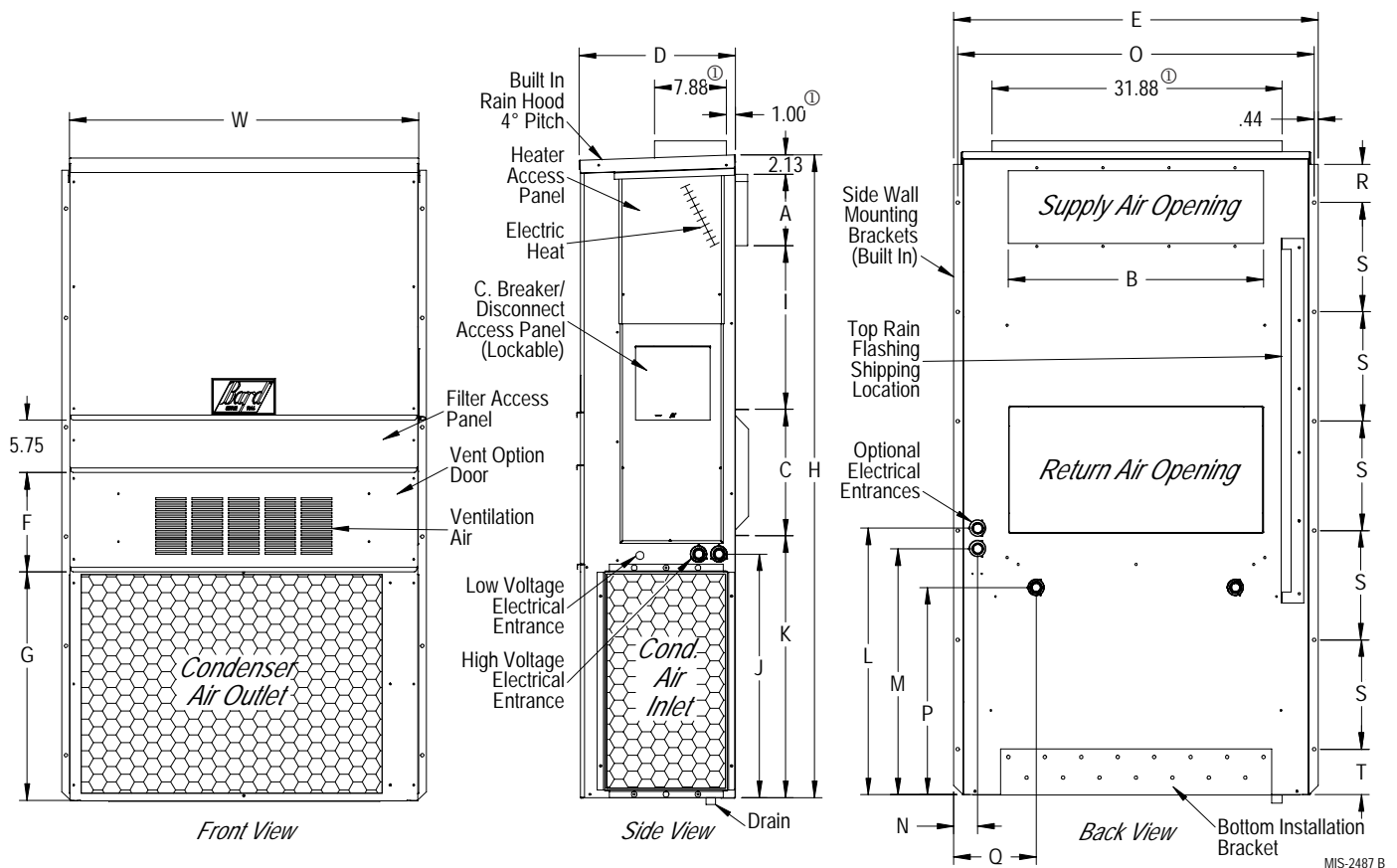
| MODELS ① | SUPPLY AIR DUCT FIRST THREE FEET | CABINET |
|------------------|----------------------------------|---------|
| W17A, W18A, W24A | 0" | 0" |
| W30A, W36A | 1/4" | 0" |
| W42A, W48A, W60A | 1/4" | 0" |

① Refer to the Installation Manual for more detailed information.

Dimensions of Basic Unit for Architectural and Installation Requirements (Nominal)

| MODEL | WIDTH (W) | DEPTH (D) | HEIGHT (H) | SUPPLY | | RETURN | | | | | | | | | | | | | | | | |
|----------------------|-----------|-----------|------------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|------|
| | | | | A | B | C | B | E | F | G | I | J | K | L | M | N | O | P | Q | R | S | T |
| W17A W18A W24A | 33.300 | 17.125 | 70.563 | 7.88 | 19.88 | 11.88 | 19.88 | 35.00 | 10.88 | 25.75 | 20.56 | 26.75 | 28.06 | 29.25 | 27.00 | 2.63 | 34.13 | 22.06 | 10.55 | 4.19 | 12.00 | 5.00 |
| W30A W36A | 38.200 | 17.125 | 70.563 | 7.88 | 27.88 | 13.88 | 27.88 | 40.00 | 10.88 | 25.75 | 17.93 | 26.75 | 28.75 | 29.25 | 27.00 | 2.75 | 39.13 | 22.75 | 9.14 | 4.19 | 12.00 | 5.00 |
| W42A W48A W60A | 42.075 | 22.432 | 84.875 | 9.88 | 29.88 | 15.88 | 29.88 | 43.88 | 13.56 | 31.66 | 30.00 | 32.68 | 26.94 | 34.69 | 32.43 | 3.37 | 43.00 | 23.88 | 10.00 | 1.44 | 16.00 | 1.88 |

All dimensions are in inches. Dimensional drawings are not to scale.



① Optional top outlet (factory installed only) for W30A and W36A models only.



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Form No. S3397
May, 2011
Supersedes: S3397-410