



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

**Models J17A to J70A**  
**Models J17L to J70L**  
**1.5 to 6 Ton**

**Right-Side Control Panel**  
**Left-Side Control Panel**  
**(16,400 to 68,000 Btuh)**

**GREEN REFRIGERANT**  
**R-410A**

Solair 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 all models.

### 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, Fourth Edition.
- Commercial Product - Not intended for Residential application.



## Capacity and Efficiency Ratings

Models	J17A2 J17L2	J24A2 J24L2	J30A2 J30L2	J36A2 J36L2	J42A2 J42L2	J48A2 J48L2	J60A2 J60L2	J70A2 J70L2
Cooling Capacity BTUH ①	16,400	23,600	29,400	35,000	40,000	48,500	55,000	68,000
EER	9.00	9.00	9.00	9.00	9.50	9.00	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

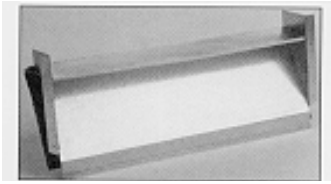
MODELS	J17A2-A J17L2-A	J24A2-A J24L2-A	J24A2-B J24L2-B	J24A2-C J24L2-C	J30A2-A J30L2-A	J30A2-B J30L2-B	J30A2-C J30L2-C	J36A2-A J36L2-A	J36A2-B J36L2-B	J36A2-C J36L2-C
<b>Electrical Rating – 60 Hz</b>	230/208 - 1	230/208 - 1	230/208 - 3	460 - 3	230/208 - 1	230/208 - 3	460 - 3	230/208 - 1	230/208 - 3	460 - 3
Operating Voltage Range	197-253	197-253	197-253	414-506	197-253	197-253	414-506	197-253	197-253	414-506
<b>Compressor--Circuit A</b>										
Voltage	230/208	230/208	230/208	460	230/208	230/208	460	230/208	230/208	460
Rated Load Amps	6.5/7.4	9.6/11.2	6.3/7.3	4.5	12.2/13.9	7.8/8.9	5.6	15.3/17.2	11.3/12.7	5.8
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	77/77	71/71	38	112/112	88/88	44
Compressor Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
<b>Fan Motor &amp; Condenser</b>										
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	0.8	1.5	1.5	0.8
Fan--DIA/CFM	18" - 1700	18" - 1700	18" - 1700	18" - 1700	20" - 2200	20" - 2200	20" - 2200	20" - 2000	20" - 2000	20" - 2000
<b>Blower Motor &amp; Evap.</b>										
Blower Motor--HP-RPM-SPD	1/6-1100-2	1/6-1100-1	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
Blower Motor--Amps	1.0	0.8	0.8	.45	2.1	2.1	1.0	2.1	2.1	1.0
CFM Cooling & E.S.P. w/Filter (Rated-Wet Coil)	600 - .40	800 - .30	800 - .30	800 - .30	1000 - .3	1000 - .3	1000 - .3	1100 - .2	1100 - .2	1100 - .2
Filter Sizes (inches) STD.	16x25x1	16x25x1	16x25x1	16x25x1	16x30x1	16x30x1	16x30x1	16x30x1	16x30x1	16x30x1
<b>Shipping Weight --LBS.</b>	295	295	295	295	320	320	320	340	340	340

## Specifications 3-1/2 Ton through 5 Ton

MODELS	J42A2-A J42L2-A	J42A2-B J42L2-B	J42A2-C J42L2-C	J48A2-A J48L2-A	J48A2-B J48L2-B	J48A2-C J48L2-C	J60A2-A J60L2-A	J60A2-B J60L2-B	J60A2-C J60L2-C	J70A2-A J70L2-A	J70A2-B J70L2-B	J70A2-C J70L2-C
<b>Electrical Rating – 60 Hz</b>	230/208 - 1	230/208 - 3	460 - 3	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	197-253	197-253	414-506
<b>Compressor--Circuit A</b>												
Voltage	230/208	230/208	460	230/208	230/208	460	230/208	230/208	460	230/208	230/208	460
Rated Load Amps	15.9/17.8	10.5/11.8	5.5	21/23.5	13.4/15	6.7	21.9/24.9	13/14.8	7.4	29/31.7	17.7/19.3	9.2
Branch Circuit Selection Current	19.9	13.2	6.1	25	15.9	7.1	26.3	15.7	7.8	37	22.5	10.6
Lock Rotor Amps	109/109	83.1/83.1	41	134/134	110/110	52	134/134	110/110	52	185/185	149/149	75
Compressor Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
<b>Fan Motor &amp; Condenser</b>												
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	1/2-1075-1	1/2-1075-1	3/4-1075-1
Fan Motor--Amps	2.5	2.5	1.3	2.5	2.5	1.3	2.5	2.5	1.3	4.0	4.0	1.7
Fan--DIA/CFM	24" - 2700	24" - 2700	24" - 2700	24" - 2700	24" - 2700	24" - 2700	24" - 2500	24" - 2500	24" - 2500	24" - 3500	24" - 3500	24" - 3500
<b>Blower Motor &amp; Evap.</b>												
Blower Motor--HP-RPM-SPD	1/3-985-2	1/3-985-2	1/3-985-2	1/3-985-2	1/3-985-2	1/3-985-2	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	2.3	2.3	1.2	2.3	2.3	1.2	3.5	3.5	1.9	3.5	3.5	1.9
CFM Cooling & E.S.P. w/Filter (Rated-Wet Coil)	1400 - .45	1400 - .45	1400 - .45	1550 - .3	1550 - .3	1550 - .3	1700 - .4	1700 - .4	1700 - .4	1700 - .2	1700 - .2	1700 - .2
Filter Sizes (inches) STD.	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1
<b>Shipping Weight --LBS.</b>	460	460	460	465	465	465	485	485	485	510	510	510

## Ventilation System Packages

Solair 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.

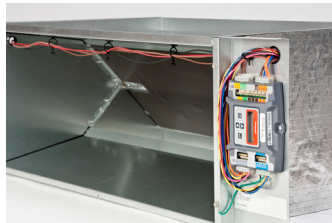


**Barometric Fresh Air Damper**

### **BAROMETRIC FRESH AIR DAMPER - BFAD**

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.

### **STANDARD**



**Economizer**

### **ECONOMIZER – ECONWM-Series**

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.

### **OPTIONAL**

- ECONWMT Equipment Building versions have extended air intake hood to deliver up to 100% of cooling rated airflow.
- ECONWMS Standard versions have 3" air intake hood to deliver up to 75% of cooling rated airflow.

#### **Standard Features:**

- Fully modulating
- Honeywell Direct Drive Hi-Torque Actuator
- No linkage required
- Simple single blade design
- Positive shut-off with non-stick gaskets
- Electronic DB and/or Enthalpy sensors depending upon version
- Honeywell JADE electronic economizer module with precision settings and diagnostics
- DB or Enthalpy economizer versions available

# Electrical Specifications — J\*\*A Series

MODEL	Rated Volts & 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. Breaker		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
J17A2-A00,A0Z A05 A08 A10	230/208-1	1 1 1 1	16 30 46 56	20 30 50 60	12 10 8 6	12 10 10 10								
J24A2-A00, A0Z A04 A05 A08 A10	230/208-1	1 1 1 1 1	21 25 30 46 56	30 30 30 50 60	10 10 10 8 6	10 10 10 10 10								
J24A2-B00, B0Z B06	230/208-3	1 1	15 22	20 25	12 10	12 10								
J24A2-C00, C0Z C06	460-3	1 1	9 11	15 15	14 14	14 14								
J30A2-A00*, A0Z* A05* A08 A10* A15	230/208-1	1 1 1 1 1 or 2	24 32 47 58 84	35 35 50 60 90	8 8 8 6 4	10 10 10 10 8	58	26	60	30	6	10	10	10
J30A2-B00*, B0Z* B06 B09* B15	230/208-3	1 1 1 1	18 24 33 51	20 25 35 60	12 10 8 6	12 10 10 10								
J30A2-C00*, C0Z* C06 C09* C15	460-3	1 1 1 1	11 12 17 26	15 15 20 30	14 14 12 10	14 14 12 10								
J36A2-A00*, A0Z* A05* A08 A10* A15	230/208-1	1 1 1 1 1 or 2	29 32 47 58 84	35 35 50 60 90	8 8 8 6 4	10 10 10 10 8	58	26	60	30	6	10	10	10
J36A2-B00*, B0Z* B06* B09* B15	230/208-3	1 1 1 1	23 24 33 51	30 30 35 60	10 10 8 6	10 10 10 10								
J36A2-C00*, C0Z* C06* C09* C15	460-3	1 1 1 1	11 12 16 26	15 15 20 30	14 14 12 10	14 14 12 10								
J42A2-A00, A0Z A05 A10 A15 A20	230/208-1	1 1 1 1 or 2 1 or 2	32 32 58 84 110	50 50 60 90 125	8 8 6 4 2	10 10 10 8 6	58	26	60	30	6	10	10	10
J42A2-B00, B0Z B09 B15 B18	230/208-3	1 1 1 1	24 33 51 60	35 35 60 60	8 8 6 6	10 10 10 10								
J42A2-C00, C0Z C09 C15	460-3	1 1 1	12 17 26	15 20 30	14 12 10	14 12 10								
J48A2-A00, A0Z A05 A10 A15 A20	230/208-1	1 1 1 1 or 2 1 or 2	39 39 58 84 110	50 50 60 90 125	8 8 6 4 2	10 10 10 8 6	58	26	60	30	6	10	10	10
J48A2-B00, B0Z B09 B15 B18	230/208-3	1 1 1 1	27 33 51 60	40 40 60 60	8 8 6 6	10 10 10 10								
J48A2-C00, C0Z C09 C15	460-3	1 1 1	13 17 26	20 20 30	12 12 10	12 12 10								
J60A2-A00, A0Z A05 A10 A15 A20	230/208-1	1 1 1 1 or 2 1 or 2	42 42 60 86 112	60 60 60 90 125	8 8 6 3 2	10 10 10 8 6	60	26	60	30	6	10	10	10
J60A2-B00, B0Z B09 B15 B18	230/208-3	1 1 1 2	28 35 53 N/A	40 40 60 N/A	8 8 6 N/A	10 10 10 N/A	35	28	40	30	8	10	10	10
J60A2-C00, C0Z C09 C15	460-3	1 1 1	15 18 27	20 20 30	12 12 10	12 12 10								
J70A2-A00, A0Z A05 A10 A15 A20	230/208-1	1 1 1 1 or 2 1 or 2	56 56 59 85 111	60 60 60 90 125	6 6 6 4 2	10 10 10 8 6	59	26	60	30	6	10	10	10
J70A2-B00, B0Z B09 B15 B18	230/208-3	1 1 1 2	38 38 53 N/A	60 60 60 N/A	8 8 6 N/A	10 10 10 N/A	38	28	60	30	8	10	10	10
J70A2-C00, C0Z C09 C15	460-3	1 1 1	19 19 27	30 30 35	10 10 18	10 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.

**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 and conductor wires in accordance with the National Electrical Code and all local codes.

# Electrical Specifications — J\*\*L Series

MODEL	Rated Volts & 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. Breaker		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			
J17L2-A00, A0Z A05 A08 A10	230/208-1	1 1 1 1	16 30 46 56	20 30 50 60	12 10 8 6	12 10 10 10											
J24L2-A00, A0Z A05 A08 A10	230/208-1	1 1 1 1	21 30 46 56	30 30 50 60	10 10 8 6	10 10 10 10											
J24L2-B00, B0Z B06	230/208-3	1 1	15 22	20 25	12 10	12 10											
J24L2-C00, C0Z C06	460-3	1 1	9 11	15 15	14 14	14 14											
J30L2-A00*, A0Z* A05* A08 A10* A15	230/208-1	1 1 1 1 1 1 or 2	24 32 47 58 84	35 35 50 60 90	8 8 8 6 4	10 10 10 10 8	58	26	60	30	6	10	10	10			
J30L2-B00*, B0Z* B09* B15	230/208-3	1 1 1	18 33 51	20 35 60	12 8 6	12 10 10											
J30L2-C00*, C0Z* C09* C15	460-3	1 1 1	11 17 26	15 20 30	14 12 10	14 12 10											
J36L2-A00*, A0Z* A05* A10* A15	230/208-1	1 1 1 1 1 or 2	29 32 58 60 84	35 35 60 60 90	8 8 6 6 4	10 10 10 10 8	58	26	60	30	6	10	10	10			
J36L2-B00*, B0Z* B09* B15	230/208-3	1 1 1	23 33 51	30 35 60	10 8 6	10 10 10											
J36L2-C00*, C0Z* C09* C15	460-3	1 1 1	11 16 26	15 20 30	14 12 10	14 12 10											
J42L2-A00, A0Z A05 A10 A15	230/208-1	1 1 1 1 1 or 2	32 32 58 60 84	50 50 60 60 90	8 8 6 6 4	10 10 10 10 8	58	26	60	30	6	10	10	10			
J42L2-B00, B0Z B09 B15	230/208-3	1 1 1	24 33 51	35 35 60	8 8 6	10 10 10											
J42L2-C00, C0Z C09 C15	460-3	1 1 1	12 17 26	15 20 30	14 12 10	14 12 10											
J48L2-A00, A0Z A05 A10 A15	230/208-1	1 1 1 1 1 or 2	39 39 58 60 84	50 50 60 60 90	8 8 6 6 4	10 10 10 10 8	58	26	60	30	6	10	10	10			
J48L2-B00, B0Z B09 B15	230/208-3	1 1 1	27 33 51	40 40 60	8 8 6	10 10 10											
J48L2-C00, C0Z C09 C15	460-3	1 1 1	13 17 26	20 20 30	12 12 10	12 12 10											
J60L2-A00, A0Z A05 A10 A15	230/208-1	1 1 1 1 1 or 2	42 42 60 60 86	60 60 60 60 90	8 8 6 6 3	10 10 10 10 8	60	26	60	30	6	10	10	10			
J60L2-B00, B0Z B09 B15	230/208-3	1 1 1	28 35 53	40 40 60	8 8 6	10 10 10											
J60L2-C00, C0Z C09 C15	460-3	1 1 1	15 18 27	20 20 30	12 12 10	12 12 10											
J70L2-A0Z A05 A10 A15	230/208-1	1 1 1 1 1 or 2	56 56 59 85	60 60 60 90	6 6 6 4	10 10 10 8	59	26	60	30	6	10	10	10			
J70L2-B0Z B09 B15	230/208-3	1 1 1	38 38 53	60 60 60	8 8 6	10 10 10											
J70L2-C0Z C09 C15	460-3	1 1 1	19 19 27	30 30 35	10 10 18	10 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.

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\* 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 and conductor wires in accordance with the National Electrical Code and all local codes.

## Indoor Blower Performance (60 Hz) - CFM at Rated Volts

Speed	J17				J24		J30				J36				J42/J48				J60				J70			
	High		Low ①		Single ①		High ①		Low		High ①		Low		High ①		Low		High ①		Low		High ①		Low	
ESP (Inch H2O)	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil	Dry Coil	Wet Coil
0.0	1045	1025	760	745	990	970	1370	1285	910	885	1415	1275	955	925	1850	1800	1605	1555	2080	2015	1505	1460	2050	1845	1490	1400
0.1	1010	970	730	715	945	925	1305	1225	885	860	1350	1215	945	915	1775	1725	1545	1500	2020	1960	1450	1405	1970	1770	1425	1340
0.2	940	905	700	685	890	870	1225	1135	850	815	1265	1125	925	900	1685	1640	1460	1415	1925	1865	1395	1355	1905	1700	1375	1295
0.3	860	830	670	655	820	800	1115	1020	790	755	1190	1060	875	850	1590	1550	1390	1345	1870	1815	1340	1300	1830	1645	1225	1150
0.4	780	750	610	595	735	720	1005	910	695	660	1085	975	780	755	1495	1460	1310	1270	1755	1705	1225	1185	1725	1550	1140	1070
0.5	665	640	485	455	605	590	865	775	590	560	970	865	640	615	1400	1365	1225	1185	1660	1610	1125	1085	1500	1350	1050	985

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

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

① **Factory Connected Speed.**

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

## 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 "A" Series Right-Hand Units

- 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
J17A2	EHWA02-A05 EHW02A-A08 EHWA02A-A10	5 8 10	N/A		N/A	
J24A2	EHWA24A-A04 EHWA02-A05 EHW02A-A08 EHWA02A-A10	4 5 8 10	EHWA24-B06	6	EHWH24B-C06	6
J30A2	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-C12 EHWA03A-C15	6 9 12 15
J36A2	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-C12 EHWA03A-C15	6 9 12 15
J42A2 J48A2	EHWA05-A05 ① EHWA05-A10 ① EHWA05-A15 EHWA05-A20	5 10 15 20	EHWA05-B09 ① EHWA05-B15 EHWA05-B18 ①	9 15 18	EHWA05A-C09 ① EHWA05A-C15	9 15
J60A2	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
J70A2	EHWA60-A05 EHWA05-A10 EHWA05-A15 EHWA05-A20	5 10 15 20	EHW70A-B09 EHWA05-B15 EHW70A-B18	9 15 18	EHWA05A-C09 EHWA05A-C15	9 15

**NOTE:** Field installed Heater Packages are not approved for use with top supply opening models.  
Field installed Heater Package not available for J70L models.

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

## Heater Packages - Field Installed "L" Series Left-Hand Units

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
J17L2	EHWA02A-A05L EHW02A-A08L EHWA02-A10L	5 8 10	N/A		N/A	
J24L2	EHWA02A-A05L EHW02A-A08L EHWA02-A10L	5 8 10	EHWA24-B06L	6	N/A	
J30L2	EHWA03-A05L EHWA03-A08L EHWA03-A10L EHWA03-A15L	5 8 10 15	EHWA03-B09L EHWA37-B15L	9 15	EHWC03-C09L EHWA03-C15L	9 15
J36L2	EHWA03-A05L EHWA03-A10L EHWA03-A15L	5 10 15	EHWA03-B09L EHWA37-B15L	9 15	EHWC03-C09L EHWA03-C15L	9 15
J42L2 J48L2	EHWA05-A05L EHWA05-A10L EHWA05-A15L	5 10 15	EHWA05-B09L EHWA05-B15L	9 15	EHWA05A-C09L EHWA05A-C15L	9 15
J60L2	EHWA05-A05L EHWA05-A10L EHWA05-A15L	5 10 15	EHWA60-B09L EHWA05-B15L	9 15 18	EHWA05A-C09L EHWA05A-C15L	9 15
J70L2	EHWA70-A05 EHWA05-A10L EHWA05-A15L	5 10 15	EHW70A-B09L EHWA05-B15L	9 15	EHWA05A-C09L EHWA05A-C15L	9 15



### Clearances Required for Service Access and Adequate Condenser Inlet Airflow

MODELS	LEFT SIDE	RIGHT SIDE
J17A, J24A, J30A, J36A	15"	20"
J42A, J48A, J60A, J70A	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 JL model (left side compressor and controls) for the left unit and JA (right side compressor and controls) for right unit.

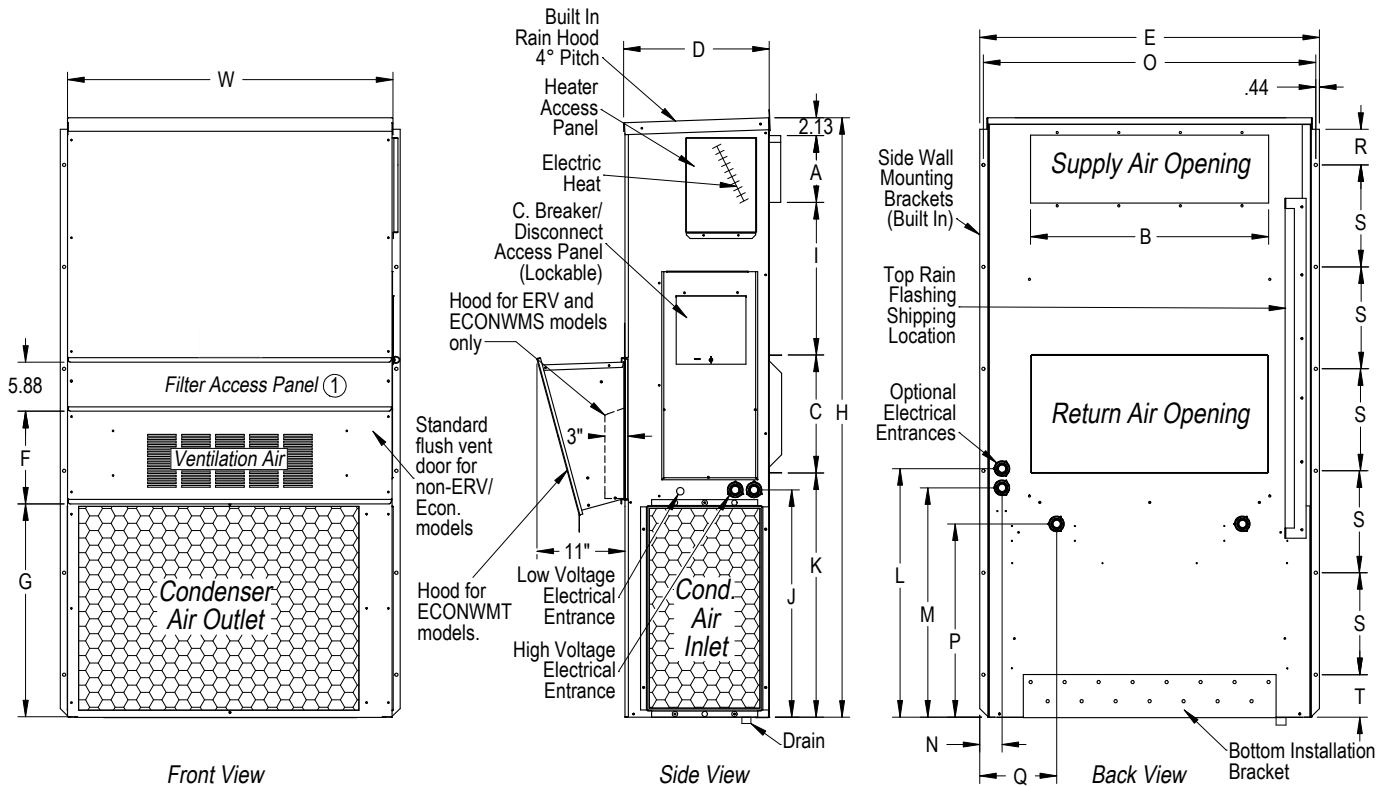
### Minimum Clearances Required to Combustible Materials

MODELS ①	SUPPLY AIR DUCT FIRST THREE FEET	CABINET
J17A, J24A	0"	0"
J30A, J36A	1/4"	0"
J42A, J48A, J60A, J70A	1/4"	0"

① Refer to the Installation Manual for more detailed information.

### Dimensions of W17-70A Basic Unit for Architectural & 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
J17A2 J24A2	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
J30A2 J36A2	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
J42A2 J48A2 J60A2 J70A2	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



MIS-3234

① Not used when ECONWMT Economizers installed. Filter access is through the ECONWMT hood.

② Optional top outlet (factory installed only) for J30A and J36A models only.



### Clearances Required for Service Access and Adequate Condenser Inlet Airflow

MODELS	LEFT SIDE	RIGHT SIDE
J17L, J24L, J30L, J36L	15"	20"
J42L, J48L, J60L, J70L	20"	20"

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

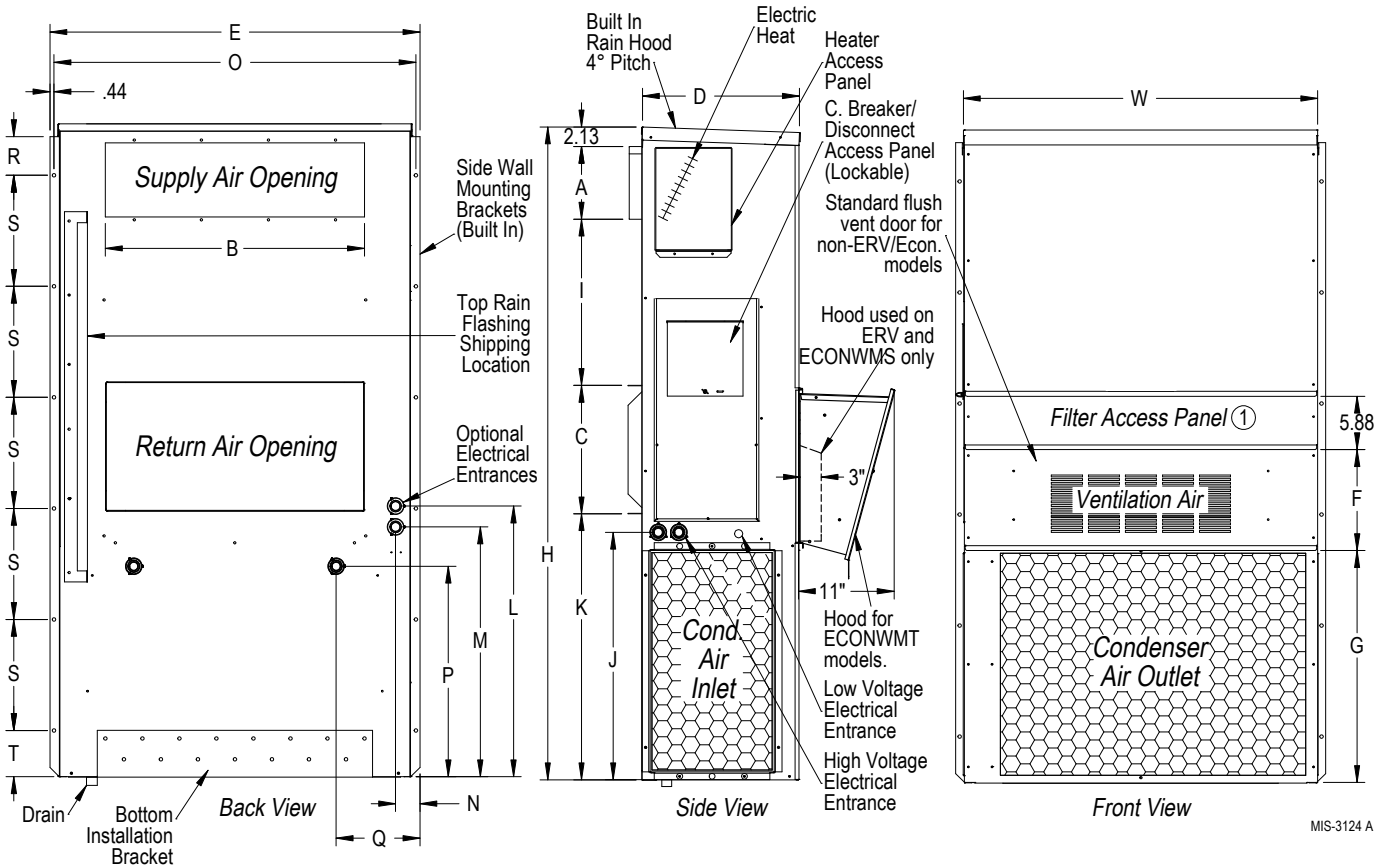
### Minimum Clearances Required to Combustible Materials

MODELS ①	SUPPLY AIR DUCT FIRST THREE FEET	CABINET
J17L, J24L	0"	0"
J30L, J36L	1/4"	0"
J42L, J48L, J60L, J70L	1/4"	0"

① Refer to the Installation Manual for more detailed information.

### Dimensions of W17-70A Basic Unit for Architectural & 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
J17L2 J24L2	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
J30L2 J36L2	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
J42L2 J48L2 J60L2 J70L2	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



MIS-3124 A

① Not used when ECONWMT Economizers installed. Filter access is through the ECONWMT hood.

## Cooling Application Data - Outdoor Temperature ①

Model	Return Air (DB/WB) ②	Cooling Capacity	75°F	80°F	85°F	90°F	95°F	100°F	105°F	110°F	115°F	120°F
			Total Cooling Sensible Cooling	Total Cooling Sensible Cooling	Total Cooling Sensible Cooling	Total Cooling Sensible Cooling	Total Cooling Sensible Cooling	Total Cooling Sensible Cooling	Total Cooling Sensible Cooling	Total Cooling Sensible Cooling	Total Cooling Sensible Cooling	Total Cooling Sensible Cooling
J17A2 J17L2	75/62	Total Cooling Sensible Cooling	17200 13900	16500 13600	15700 13400	15000 13000	14300 12700	13700 12400	13100 12000	12500 11700	11900 11400	11300 11000
	80/67	Total Cooling Sensible Cooling	18300 13400	17900 13300	17400 13200	16900 13000	16400 12800	15900 12600	15400 12300	14900 12100	14300 11800	13700 11500
	85/72	Total Cooling Sensible Cooling	21800 13800	21000 13500	20000 13300	19100 13000	18300 12600	17400 12200	16600 11800	15900 11400	15100 10900	14300 10400
J24A2 J24L2	75/62	Total Cooling Sensible Cooling	25000 19800	23800 19300	22700 18800	21600 18300	20600 17900	19600 17300	18700 16900	17600 16400	16700 15900	15800 15400
	80/67	Total Cooling Sensible Cooling	26600 19200	25900 18900	25200 18600	24400 18300	23600 18000	22800 17600	22000 17300	21000 16900	20100 16500	19100 16100
	85/72	Total Cooling Sensible Cooling	31700 19700	30300 19200	29000 18700	27600 18200	26200 17700	25000 17100	23800 16500	22400 15900	21200 15200	19900 14600
J30A2 J30L2	75/62	Total Cooling Sensible Cooling	30200 23500	29000 23400	27900 23200	26800 22700	25600 22300	24500 21700	23300 21100	22200 20300	21000 19500	19700 18600
	80/67	Total Cooling Sensible Cooling	32200 22800	31600 22900	31000 22900	30300 22700	29400 22500	28500 22100	27500 21600	26400 21000	25200 20300	23800 19400
	85/72	Total Cooling Sensible Cooling	38400 23400	37000 23300	35600 23000	34200 22600	32700 22100	31200 21400	29700 20600	28100 19700	26500 18700	24800 17600
J36A2 J36L2	75/62	Total Cooling Sensible Cooling	37100 27700	35400 27100	33700 26400	32100 25700	30500 25100	29000 24300	27700 23600	26300 22800	25000 21900	23700 21100
	80/67	Total Cooling Sensible Cooling	39600 26800	38500 26500	37400 26100	36200 25700	35000 25300	33800 24700	32600 24200	31300 23500	30100 22800	28700 22100
	85/72	Total Cooling Sensible Cooling	47200 27500	45000 26900	43000 26200	40900 25600	38900 24800	37000 23900	35200 23100	33300 22100	31700 21000	29800 20000
J42A2 J42L2	75/62	Total Cooling Sensible Cooling	42500 32800	40300 32600	38400 32100	36600 31500	34800 30800	33400 30100	32000 29200	30700 28200	29600 27000	28600 25800
	80/67	Total Cooling Sensible Cooling	45300 31800	43900 31900	42600 31800	41300 31500	40000 31100	38900 30600	37700 29900	36600 29100	35600 28100	34600 27000
	85/72	Total Cooling Sensible Cooling	54000 32600	51300 32400	48900 32000	46600 31300	44500 30500	42600 29600	40700 28500	39000 27300	37400 25900	36000 24400
J48A2 J48L2	75/62	Total Cooling Sensible Cooling	53400 39900	50200 38800	47300 37700	44700 36600	42200 35500	40200 34500	38200 33400	36600 32400	35100 31400	33800 30500
	80/67	Total Cooling Sensible Cooling	57000 38700	54700 38000	52500 37300	50500 36600	48500 35800	46800 35100	45100 34300	43600 33500	42200 32700	40900 31900
	85/72	Total Cooling Sensible Cooling	67900 39600	64000 38600	60300 37500	57000 36400	53900 35100	51200 34000	48600 32700	46400 31400	44400 30100	42500 28800
J60A2 J60L2	75/62	Total Cooling Sensible Cooling	57000 43700	54700 42800	52400 41700	50200 40700	47900 39600	45800 38600	43500 37500	41300 36500	39100 35400	36800 34200
	80/67	Total Cooling Sensible Cooling	60800 42400	59600 41900	58200 41300	56700 40700	55000 40000	53300 39300	51300 38500	49200 37700	47000 36800	44600 35800
	85/72	Total Cooling Sensible Cooling	72400 43400	69700 42500	66800 41500	64000 40400	61100 39200	58300 38000	55300 36700	52400 35400	49400 33900	46400 32400
J70A2 J70L2	75/62	Total Cooling Sensible Cooling	71300 50800	68100 49600	65000 48400	62100 47100	59200 45900	56600 44500	53900 43200	51400 41900	48900 40500	46500 39100
	80/67	Total Cooling Sensible Cooling	76100 49300	74200 48600	72200 47900	70200 47100	68000 46300	65900 45300	63600 44300	61300 43300	58900 42100	56400 40900
	85/72	Total Cooling Sensible Cooling	90600 50500	86700 49300	82900 48100	79300 46800	75500 45400	72100 43800	68600 42200	65200 40600	61900 38800	58600 37000

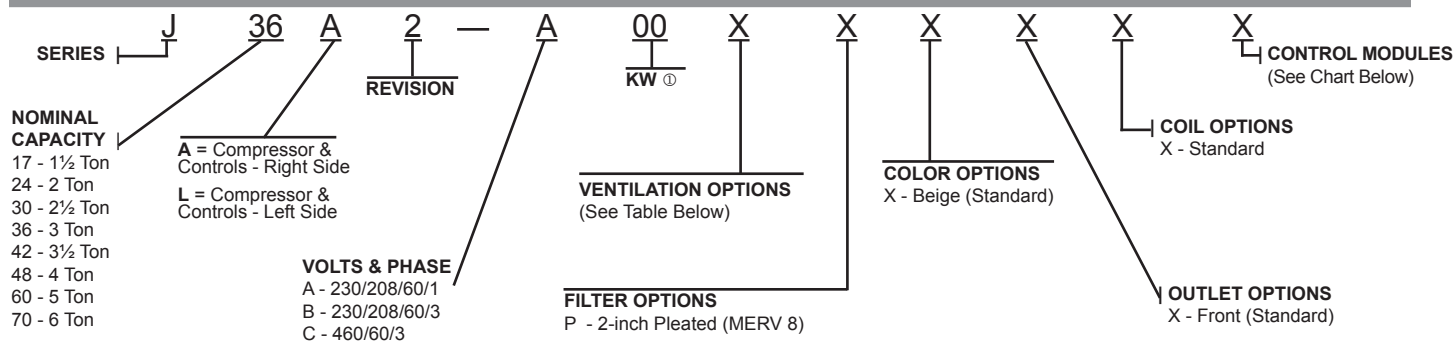
  

Capacity Multiplier Factors			
% of Rated Airflow	-10	Rated	+10
Total BTUH	0.975	1.0	1.02
Sensible BTUH	0.950	1.0	1.05

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 Pages 4 & 5 for available Factory Installed KW options and Page 7 for Field Installed Heater Packages.

## Ventilation Options

Models	J17A2, J24A2 J17L2, J24L2		J30A2, J36A2 J30L2, J36L2		J42A2, J48A2, J60A2, J70A2 J42L2, J48L2, J60L2, J70L2	
	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
Economizer - Standard Versions, Enthalpy ②	S	ECONWMS-E2B ①	S	ECONWMS-E3B ①	S	ECONWMS-E5B ①
Economizer - Equipment Bldg., Enthalpy ③	W	ECONWMT-E2B ①	W	ECONWMT-E3B ①	W	ECONWMT-E5B ①
Economizer - Equipment Bldg., DB Temp ③	T	ECONWMT-T2B ①	T	ECONWMT-T3B ①	T	ECONWMT-T5B ①

- ① Insert color to match unit ("X" = Beige)
- ② Partial Full Flow (75% of Rated Cooling CFM). All ECONWMS versions have 3" deep intake hood.
- ③ Full Flow (100% of Rated Cooling CFM).

## Air Conditioning Control Modules

Air Conditioning Control Modules							All Models Except As Noted	
HPC ①	LPC ②	CCM ③	LAC ④	ALR ⑤	SK ⑥	SK ⑦	Factory Installed Code	Field Installed Part
STD	STD	STD	●	●			J	Factory Only
STD	STD	STD			●		Field Installed Only	CMC-15
STD	STD	STD				●	Field Installed Only	SK111 Except J70 SK121 J70 Only

- 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 W48/W60 Dehumidification units, which have 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 or SK121 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.

**Supply Registers, Return Grilles, and Return Filter Grilles**

- **Sidewall Supply Register** - Extruded aluminum – No damper, with 2 sets of individually adjusted blades.
- Front blades in vertical position.

Model No.	Flange Type	Applicable To	Dimensions	Outside Dimensions
SG-2W	2" Wide	J17 - 24	20" x 8"	24-1/4" x 12-1/4"
SG-3W	2" Wide	J30 - 36	28" x 8"	32-1/4" x 12-1/4"
SG-5W	2" Wide	J42 - 60	30" x 10"	34-1/4" x 14-1/4"

- **Return Air Grille** - Extruded aluminum with blades fixed at 45° angle.

Model No.	Flange Type	Applicable To	Dimensions	Outside Dimensions
RG-2W	2" Wide	J17 - 24	20" x 12"	24-1/4" x 16-1/4"
RG-3W	2" Wide	J30 - 36	28" x 14"	32-1/4" x 18-1/4"
RG-5W	2" Wide	J42 - 60	30" x 16"	34-1/4" x 20-1/4"

- **Return Air Grille** - Extruded aluminum with blades fixed at 45° angle. Filter included.

Model No.	Flange Type	Applicable To	Dimensions	Outside Dimensions	Filter Size
RFG-2W	2" Wide	J17 - 24	20" x 12"	24-1/4" x 16-1/4"	12 x 20 x 1
RFG-3W	2" Wide	J30 - 36	28" x 14"	32-1/4" x 18-1/4"	14 x 28 x 1
RFG-5W	2" Wide	J42 - 60	30" x 16"	34-1/4" x 20-1/4"	16 x 30 x 1



Due to our continuous product improvement policy, all specifications subject to change without notice.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

**Form No.  
S3463  
March, 2013**

Supersedes: **NEW**