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.

AHRI CERTIFIED™ www.ahridirectory.org
Single Package Vertical AC
AHRI Standard 390

INTERTEK ETL LISTED C US

INTERTEK ISO 9001:2008

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

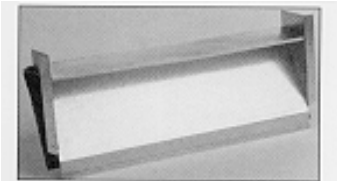
MODELS	J17A2-A J17L2-A	J24A2-A J24L2-A	J24A2-B J24L2-B	J24A2-C J24L2-C	J30A2-A J30L2-A	J30A2-B J30L2-B	J30A2-C J30L2-C	J36A2-A J36L2-A	J36A2-B J36L2-B	J36A2-C J36L2-C
Electrical Rating – 60 Hz	230/208 - 1	230/208 - 1	230/208 - 3	460 - 3	230/208 - 1	230/208 - 3	460 - 3	230/208 - 1	230/208 - 3	460 - 3
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	6.5/7.4	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
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	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
Blower Motor & Evap.										
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
Shipping Weight --LBS.	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
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	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
Compressor--Circuit A												
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
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	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
Blower Motor & Evap.												
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
Shipping Weight --LBS.	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 **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.

Economizer

ECONOMIZER – ECONWM-Series **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.

- 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	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								
J24A2-A00, A0Z	230/208-1	1	21	30	10	10								
A04		1	25	30	10	10								
A05		1	30	30	10	10								
A08		1	46	50	8	10								
A10		1	56	60	6	10								
J24A2-B00, B0Z	230/208-3	1	15	20	12	12								
B06		1	22	25	10	10								
J24A2-C00, C0Z	460-3	1	9	15	14	14								
C06		1	11	15	14	14								
J30A2-A00*, A0Z*	230/208-1	1	24	35	8	10								
A05*		1	32	35	8	10								
A08		1	47	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
J30A2-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	6	10								
J30A2-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								
J36A2-A00*, A0Z*	230/208-1	1	29	35	8	10								
A05*		1	32	35	8	10								
A08		1	47	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
J36A2-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								
J36A2-C00*, C0Z*	460-3	1	11	15	14	14								
C06*		1	12	15	14	14								
C09*		1	16	20	12	12								
C15		1	26	30	10	10								
J42A2-A00, A0Z	230/208-1	1	32	50	8	10								
A05		1	32	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
A20		1 or 2	110	125	2	6	58	52	60	60	6	6	10	10
J42A2-B00, B0Z	230/208-3	1	24	35	8	10								
B09		1	33	35	8	10								
B15		1	51	60	6	10								
B18		1	60	60	6	10								
J42A2-C00, C0Z	460-3	1	12	15	14	14								
C09		1	17	20	12	12								
C15		1	26	30	10	10								
J48A2-A00, A0Z	230/208-1	1	39	50	8	10								
A05		1	39	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
A20		1 or 2	110	125	2	6	58	52	60	60	6	6	10	10
J48A2-B00, B0Z	230/208-3	1	27	40	8	10								
B09		1	33	40	8	10								
B15		1	51	60	6	10								
B18		1	60	60	6	10								
J48A2-C00, C0Z	460-3	1	13	20	12	12								
C09		1	17	20	12	12								
C15		1	26	30	10	10								
J60A2-A00, A0Z	230/208-1	1	42	60	8	10								
A05		1	42	60	8	10								
A10		1	60	60	6	10								
A15		1 or 2	86	90	3	8	60	26	60	30	6	10	10	10
A20		1 or 2	112	125	2	6	60	52	60	60	6	6	10	10
J60A2-B00, B0Z	230/208-3	1	28	40	8	10								
B09		1	35	40	8	10								
B15		1	53	60	6	10								
B18		2	N/A	N/A	N/A	N/A	35	28	40	30	8	10	10	10
J60A2-C00, C0Z	460-3	1	15	20	12	12								
C09		1	18	20	12	12								
C15		1	27	30	10	10								
J70A2-A00, A0Z	230/208-1	1	56	60	6	10								
A05		1	56	60	6	10								
A10		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
J70A2-B00, B0Z	230/208-3	1	38	60	8	10								
B09		1	38	60	8	10								
B15		1	53	60	6	10								
B18		2	N/A	N/A	N/A	N/A	38	28	60	30	8	10	10	10
J70A2-C00, C0Z	460-3	1	19	30	10	10								
C09		1	19	30	10	10								
C15		1	27	35	18	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	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								
J24L2-A00, A0Z	230/208-1	1	21	30	10	10								
A05		1	30	30	10	10								
A08		1	46	50	8	10								
A10		1	56	60	6	10								
J24L2-B00, B0Z	230/208-3	1	15	20	12	12								
B06		1	22	25	10	10								
J24L2-C00, C0Z	460-3	1	9	15	14	14								
C06		1	11	15	14	14								
J30L2-A00*, A0Z*	230/208-1	1	24	35	8	10								
A05*		1	32	35	8	10								
A08		1	47	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
J30L2-B00*, B0Z*	230/208-3	1	18	20	12	12								
B09*		1	33	35	8	10								
B15		1	51	60	6	10								
J30L2-C00*, C0Z*	460-3	1	11	15	14	14								
C09*		1	17	20	12	12								
C15		1	26	30	10	10								
J36L2-A00*, A0Z*	230/208-1	1	29	35	8	10								
A05*		1	32	35	8	10								
A10*		1	58	60	6	10								
A15		1 or 2	84	90	4	8	58	26	60	30	6	10	10	10
J36L2-B00*, B0Z*	230/208-3	1	23	30	10	10								
B09*		1	33	35	8	10								
B15		1	51	60	6	10								
J36L2-C00*, C0Z*	460-3	1	11	15	14	14								
C09*		1	16	20	12	12								
C15		1	26	30	10	10								
J42L2-A00, A0Z	230/208-1	1	32	50	8	10								
A05		1	32	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
J42L2-B00, B0Z	230/208-3	1	24	35	8	10								
B09		1	33	35	8	10								
B15		1	51	60	6	10								
J42L2-C00, C0Z	460-3	1	12	15	14	14								
C09		1	17	20	12	12								
C15		1	26	30	10	10								
J48L2-A00, A0Z	230/208-1	1	39	50	8	10								
A05		1	39	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
J48L2-B00, B0Z	230/208-3	1	27	40	8	10								
B09		1	33	40	8	10								
B15		1	51	60	6	10								
J48L2-C00, C0Z	460-3	1	13	20	12	12								
C09		1	17	20	12	12								
C15		1	26	30	10	10								
J60L2-A00, A0Z	230/208-1	1	42	60	8	10								
A05		1	42	60	8	10								
A10		1	60	60	6	10								
A15		1 or 2	86	90	3	8	60	26	60	30	6	10	10	10
J60L2-B00, B0Z	230/208-3	1	28	40	8	10								
B09		1	35	40	8	10								
B15		1	53	60	6	10								
J60L2-C00, C0Z	460-3	1	15	20	12	12								
C09		1	18	20	12	12								
C15		1	27	30	10	10								
J70L2-A0Z	230/208-1	1	56	60	6	10								
A05		1	56	60	6	10								
A10		1	59	60	6	10								
A15		1 or 2	85	90	4	8	59	26	60	30	6	10	10	10
J70L2-B0Z	230/208-3	1	38	60	8	10								
B09		1	38	60	8	10								
B15		1	53	60	6	10								
J70L2-C0Z	460-3	1	19	30	10	10								
C09		1	19	30	10	10								
C15		1	27	35	18	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.

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 H20)	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.
See installation instructions for maximum ESP information on various KW application.

① **Factory Connected Speed**.

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.

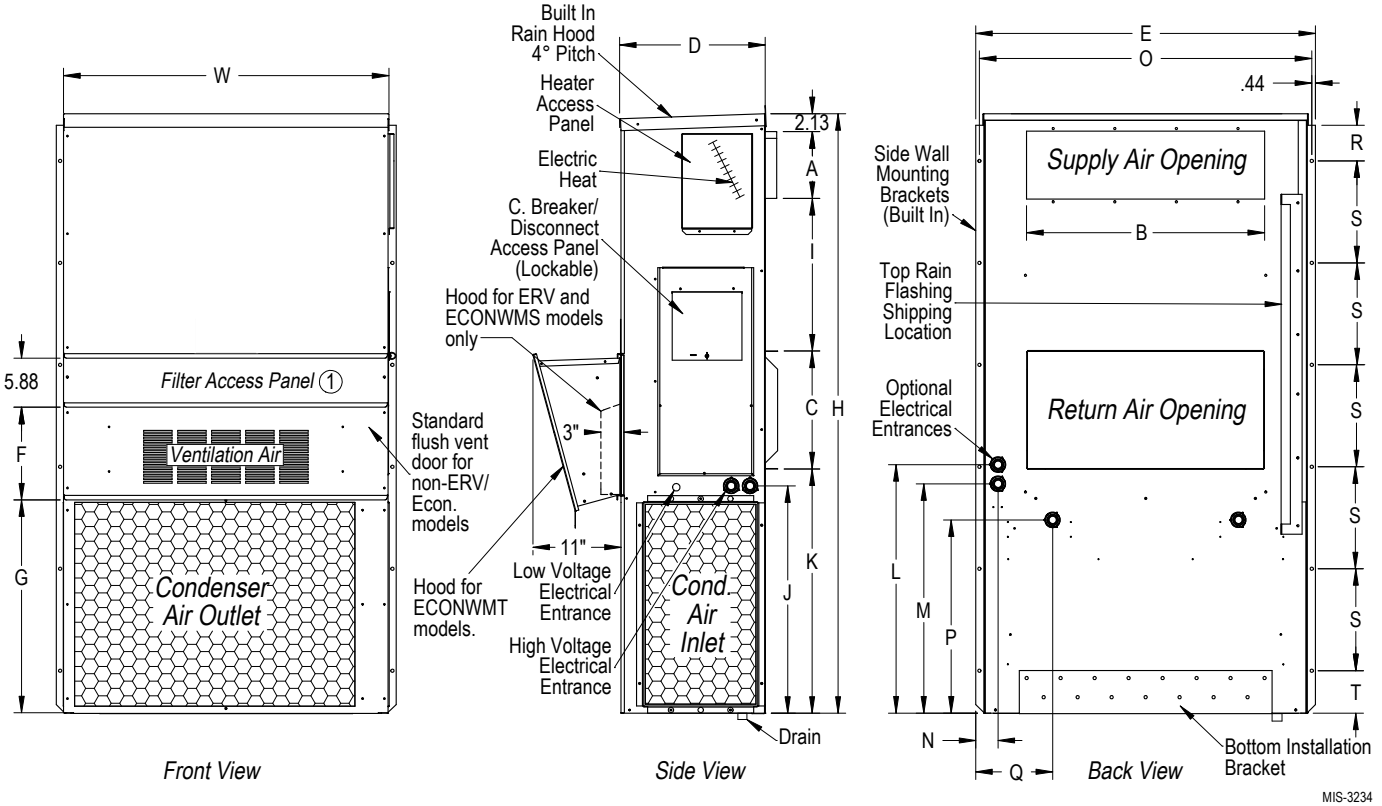
Minimum Clearances Required to Combustible Materials

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



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.

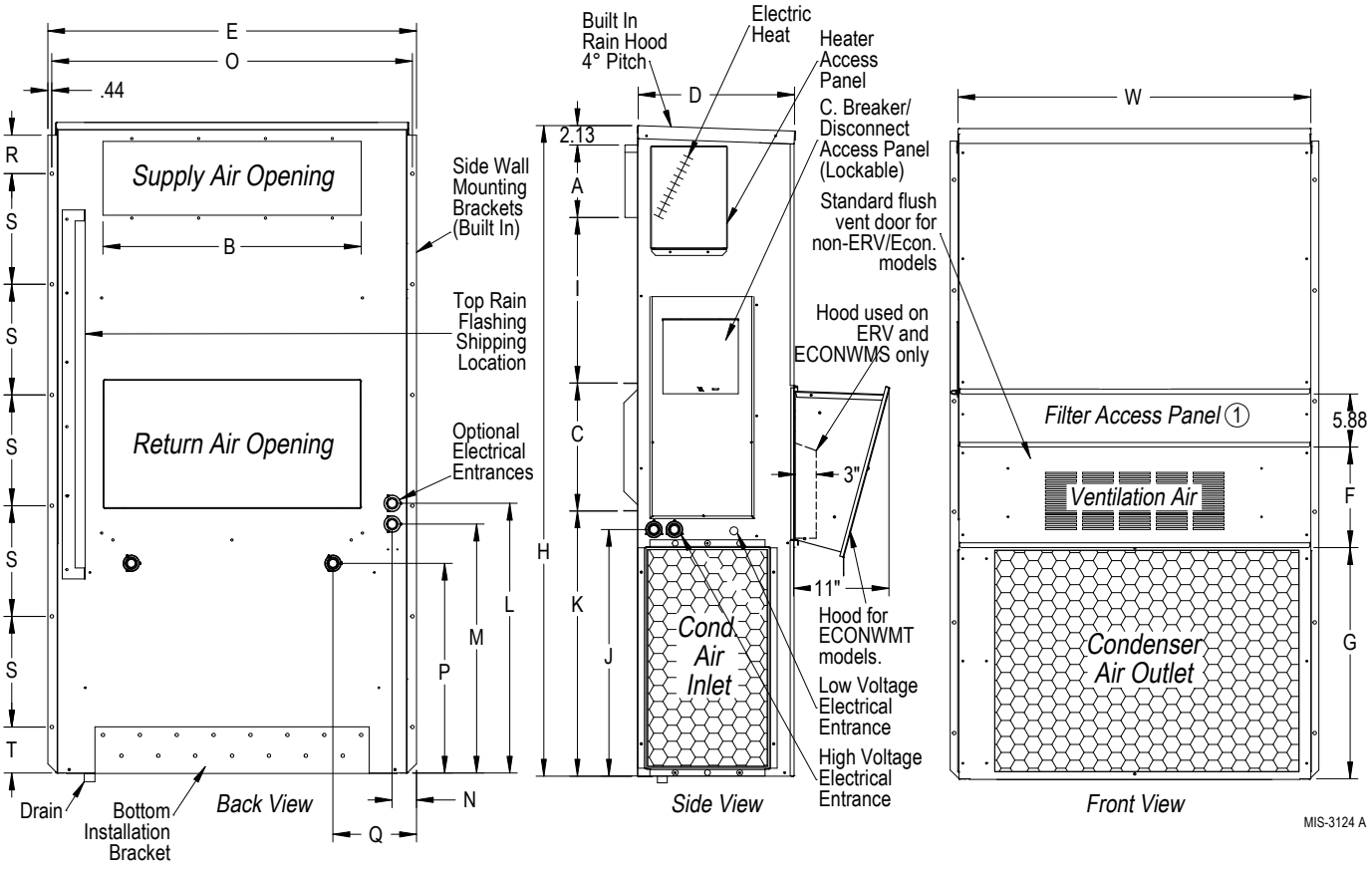
Minimum Clearances Required to Combustible Materials

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



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

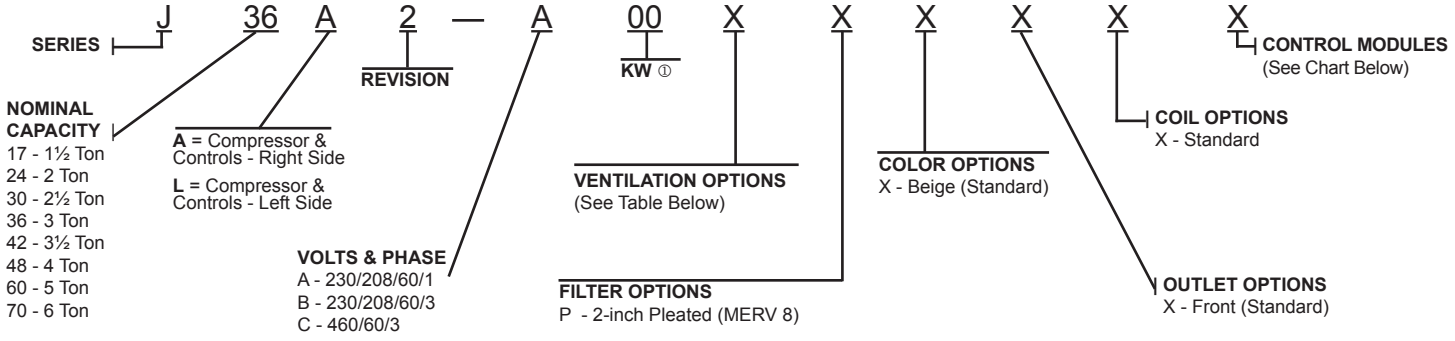
Cooling Application Data - Outdoor Temperature ①

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

NOTES

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

SOLAIR

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***