WALL-MOUNT AIR CONDITIONERS - 9.0 EER, (60HZ) with LEFT SIDE CONTROL PANEL

Models J17L to J60L
1.5 to 5 Ton (16,400 to 55,000 Btuh)
Left Side Control Panel 60Hz

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. 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 left 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 are field installed for all 1½ through 5 ton models.

Filter Service Door:
Separate service door provides easy access for filter change.

Two Inch, Pleated Air Filters:
Are standard equipment. Filter rack adjustable for 1" filters.

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.

Disconnect Kits Available:
Field installed circuit breaker kits for 230/208V 0KW and toggle disconnects for 460V units are available.

Standard on all electric heat versions of single and three phase (230/208V) equipment. Toggle disconnects are standard on all electric heat versions of three phase (460V) 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 90.1-2007.
- 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	J17L1	J24L1	J30L1	J36L1	J42L1	J48L1	J60L1
Cooling Capacity BTUH ①	16,400	24,000	29,400	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	J17L1-A	J24L1-A	J24L1-B	J30L1-A	J30L1-B	J30L1-C	J36L1-A	J36L1-B	J36L1-C
Electrical Rating--60 Hz	230/208 - 1	230/208 - 1	230/208 - 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	197-253	197-253	414-506	197-253	197-253	414-506
Compressor--Circuit A									
Voltage	230/208	230/208	230/208	230/208	230/208	460	230/208	230/208	460
Rated Load Amps	6.5/7.2	11./12.4	7.2/8.1	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	14.2	9.0	5.7	18	13.3	6.0
Lock Rotor Amps	48/48	64/64	58/58	78/78	71/71	38	112/112	88/88	44
Compressor Type	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
Fan Motor--Amps	1.2	1.2	1.2	1.5	1.5	1.4	1.5	1.5	1.4
Fan--DIA/CFM	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
Blower Motor--Amps	1.0	1.0	1.0	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	1000 - .40	1000 - .40	1000 - .40	1100 - .30	1100 - .30	1100 - .30
Filter Sizes (inches) STD.	16x25x1	16x25x1	16x25x1	16x30x1	16x30x1	16x30x1	16x30x1	16x30x1	16x30x1
Shipping Weight --LBS.	335	335	335	375	375	375	375	375	375

Specifications 3-1/2 Ton through 5 Ton

MODELS	J42L1-A	J42L1-B	J42L1-C	J48L1-A	J48L1-B	J48L1-C	J60L1-A	J60L1-B	J60L1-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

Indoor Blower Performance - CFM at Rated Volts

ESP in H_2O	J17L1		J24L1	J30L1 J36L1		J42L1 J48L1		J60L1	
	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 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**.

Ventilation System Packages

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 optional ventilation packages are field-installed only.

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 - EIFM **OPTIONAL – FIELD INSTALLED ONLY**

The 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.

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
J17L1 - 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								
J24L1 - 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								
J24L1 - B00, B0Z	230/208-3	1	15	20	14	14								
B06		1	22	25	10	10								
J30L1 - 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
J30L1 - B00*, B0Z*	230/208-3	1	18	20	12	12								
B09*		1	33	35	8	10								
B15		1	51	60	8	10								
J30L1 - C00*, C0Z*	460-3	1	11	15	14	14								
C09*		1	17	20	12	12								
C15		1	26	30	10	10								
J36L1 - 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
J36L1 - B00*, B0Z*	230/208-3	1	23	30	10	10								
B09*		1	33	35	8	10								
B15		1	51	60	6	10								
J36L1 - C00*, C0Z*	460-3	1	12	15	14	14								
C09*		1	17	20	10	10								
C15		1	26	30	10	10								
J42L1 - A00, A0Z	230/208-1	1	33	50	8	10								
A05		1	33	50	8	10								
A10		1	59	60	6	10								
A15		1 or 2	85	90	4	8	59	26	60	30	6	10	10	10
J42L1 - B00, B0Z	230/208-3	1	25	35	8	10								
B09		1	34	35	8	10								
B15		1	53	60	6	10								
J42L1 - C00, C0Z	460-3	1	13	15	14	14								
C09		1	18	20	12	12								
C15		1	27	30	10	10								
J48L1 - A00, A0Z	230/208-1	1	37	50	8	10								
A05		1	37	50	8	10								
A10		1	59	60	6	10								
A15		1 or 2	85	90	4	8	59	26	60	30	6	10	10	10
J48L1- B00, B0Z	230/208-3	1	29	40	8	10								
B09		1	34	40	8	10								
B15		1	53	60	6	10								
J48L1 - C00, C0Z	460-3	1	14	20	12	12								
C09		1	18	20	12	12								
C15		1	27	30	10	10								
J60L1 - A00, A0Z	230/208-1	1	41	60	8	10								
A05		1	41	60	8	10								
A10		1	59	60	6	10								
A15		1 or 2	85	90	4	8	59	26	60	30	6	10	10	10
J60L1 - B00, B0Z	230/208-3	1	28	40	8	10								
B09		1	34	40	8	10								
B15		1	53	60	6	10								
J60L1 - C00, C0Z	460-3	1	15	20	12	12								
C09		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.

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.

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						
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

(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
J17L1	EHWA02A-A05L EHW02A-A08L EHWA02-A10L	5 8 10	N/A		N/A	
J24L1	EHWA02A-A05L EHW02A-A08L EHWA02-A10L	5 8 10	EHWA24-B06L	6	N/A	
J30L1	EHWA03-A05L EHWA03-A08L EHWA03-A10L EHWA03-A15L	5 8 10 15	EHWA03-B09L EHWA37-B15L	9 15	EHWC03-C09L EHWA03-C15L	9 15
J36L1	EHWA03-A05L EHWA03-A10L EHWA03-A15L	5 10 15	EHWA03-B09L EHWA37-B15L	9 15	EHWC03-C09L EHWA03-C15L	9 15
J42L1 J48L1	EHWA05-A05L EHWA05-A10L EHWA05-A15L	5 10 15	EHWA05-B09L EHWA05-B15L	9 15	EHWA05A-C09L EHWA05A-C15L	9 15
J60L1	EHWA05-A05L EHWA05-A10L EHWA05-A15L	5 10 15	EHWA60-B09L EHWA05-B15L	9 15	EHWA05A-C09L EHWA05A-C15L	9 15

Circuit Breaker/Toggle Disconnect Kits — Field-Installed

- Designed for adding circuit breaker/toggle disconnect to 0 KW units
- Circuit breaker on 230/208-1 and 230/208-3 units
- Toggle disconnect on 460-3 units
- Eliminates need for separate disconnect box
- ETL – US and Canada Listed

Air Conditioner Models	-A00 Models 230/208-1	-B00 Models 230/208-3	-C00 Models 460-3
	Model No.	Model No.	Model No.
J17L	WMCB-02AL	N/A	N/A
J24L	WMCB-03AL	WMCB-02BL	N/A
J30L	WMCB-05AL	WMCB-02BL	WMPD-01CL
J36L	WMCB-05AL	WMCB-04BL	WMPD-01CL
J42L J48L	WMCB-08AL	WMCB-05BL	WMPD-01CL
J60L	WMCB-09AL	WMCB-07BL	WMPD-01CL

Cooling Application Data - Outdoor Temperature

Model	D.B./W.B. ①	Cooling Capacity	75°F	80°F	85°F	90°F	95°F	100°F	105°F	110°F	115°F	120°F
J17L1	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
J24L1	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
J30L1	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
J36L1	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
J42L1	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
J48L1	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
J60L1	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

① Return air temperature.

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

Clearances Required for Service Access and Adequate Condenser Inlet Airflow

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

NOTE: For side by side installation of two (2) J**L 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

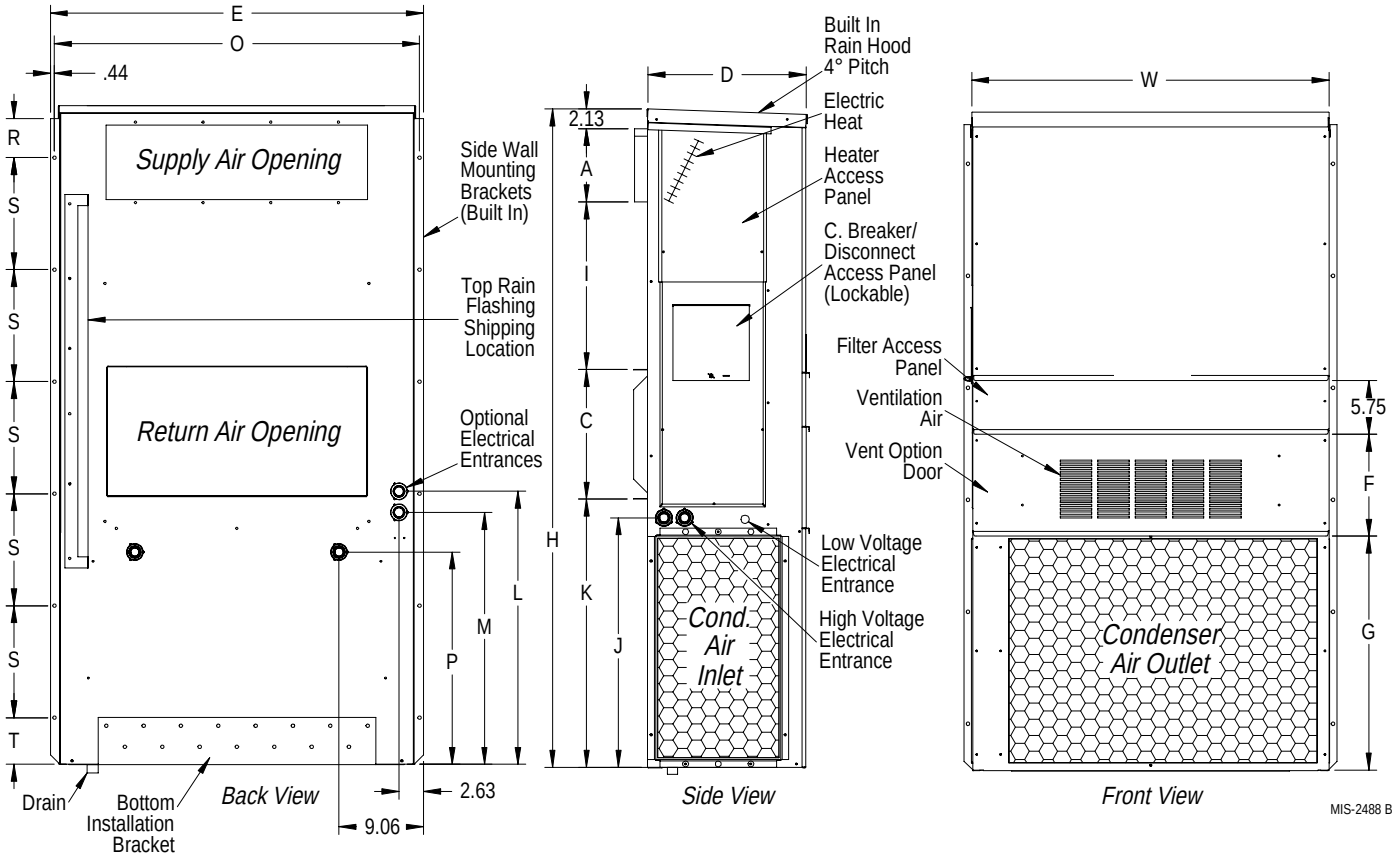
MODELS ①	SUPPLY AIR DUCT FIRST THREE FEET	CABINET
J17L, J24L	0"	0"
J30L, J36L	1/4"	0"
J42L, J48L, J60L	1/4"	0"

① Refer to the Installation Manual for more detailed information.

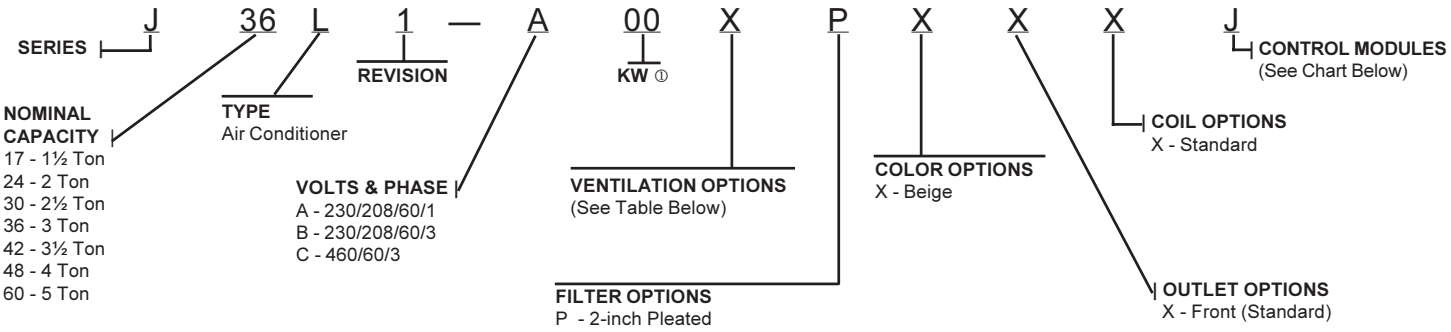
Dimensions of Basic Unit for Architectural and Installation Requirements (Nominal)

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	
J17L J24L	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	
J30L J36L	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	
J42L J48L J60L	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.



Air Conditioning Wall-Mount Model Nomenclature



① See Page 5 for Field Installed Electric Heater options.

Ventilation Options

Models	J17L1, J24L1		J30L1, J36L1		J42L1, J48L1, J60L1	
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 - Fully Modulating ①	N/A	EIFM-2B	N/A	EIFM-3C	N/A	EIFM-5C

Air Conditioning Control Modules

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

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

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.

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. S3439 February, 2011

Supersedes: ***NEW***