WALL-MOUNT HEAT PUMPS - (60HZ)

Models: J18H to J60H 60Hz
Heating Capacities: 16,000 to 54,000 BTUH
Cooling Capacities: 16,400 to 54,000 BTUH

GREEN REFRIGERANT R-410A

Solair Wall-Mount Heat Pump is a self-contained energy efficient heating and cooling 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.

Heat Pump Compressor:
Scroll Compressors are standard on all 1½ to 5 ton models. Eliminates need for crankcase heater.

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

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

Liquid Line Filter Drier:
Standard on all units. Protects system against moisture.

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, beige textured enamel, which allows it to withstand 1000 hours of salt spray tests per ASTM B117-03.

Foil Faced Insulation:
Standard on all units.

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 are field installed for all 1½ through 5 ton models. Features easy slide-in field assembly with various BTUH outputs.

Condenser Fan and Motor Shroud Assembly:
Slide out for easy access.

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.

Solid State Electronic Heat Pump Control:
Provides efficient 30, 60 or 90 minute defrost cycle. A thermistor sensor, speed up terminal for service and 10 minute defrost override are standard on the electronic heat pump control.

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.

Five Minute Compressor Time Delay:
Short cycle protection is standard. Built into the heat pump control.

Emergency Heat Circuit:
Permits continuous operation of the system.

Barometric Fresh Air Damper:
Standard on all units. Allows up to 25% outside fresh air.

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.

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

Top Rain Flashing:
Standard feature on all models.

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

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

INTERTEK ETL LISTED C US

INTERTEK ISO 9001:2008

Capacity and Efficiency Ratings

MODELS	J18H2	J24H2	J30H2	J36H2	J42H2	J48H2	J60H2
Cooling BTUH ①	16,400	23,600	29,800	34,600	42,000	46,000	54,000
EER ②	9.50	9.00	9.20	9.00	9.00	9.00	9.00
High Temp Heating (47F) BTUH ①	16,000	24,000	29,000	35,000	42,000	44,000	54,000
COP ②	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Low Temp Heating (17F) BTUH ①	9,000	14,000	17,000	21,000	25,000	26,000	32,000
COP ②	1.80	2.00	2.00	2.00	2.00	2.00	2.00

① Capacity is certified in accordance with ANSI/ARI Standard 390-2003.
② EER = Energy Efficiency Ratio, COP = Coefficient of Performance and are certified in accordance with ANSI/ARI Standard 390-2003.

Specifications 1-1/2 through 3 Ton

MODELS	J18H2-A	J24H2-A	J24H2-B	J24H2-C	J30H2-A	J30H2-B	J30H2-C	J36H2-A	J36H2-B	J36H2-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	6.2/7.3	12.7/15.2	8.3/9.9	6.1	12.4/13.6	8.0/8.7	5.5	14.7/16.4	10.9/12.1	5.5
Branch Circuit Selection Current	9.0	15.2	9.9	6.1	14.2	9.0	5.7	18.0	13.3	6.0
Lock Rotor Amps	48/48	67/64	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	1.4	1.5	1.5	1.4
Fan--DIA/CFM	18" - 1600	18" - 1600	18" - 1600	18" - 1600	20" - 2000	20" - 2000	20" - 2000	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	1/3-1100-2	1/3-1100-2	1/3-1100-2	1/3-1100-2	1/3-1100-2	1/3-1100-2	1/3-1100-2
Blower Motor--Amps	1.0	1.0	1.0	1.1	2.2	2.2	1.1	2.2	2.2	1.1
CFM Cooling & E.S.P. w/Filter (Rated-Wet Coil)	600 - .3	800 -. 2	800 - .2	800 - .2	1000 - .4	1000 - .4	1000 - .4	1100 - .3	1100 - .3	1100 - .3
Filter Sizes (inches) STD.	16 x 25 x 1	16 x 25 x 1	16 x 25 x 1	16 x 25 x 1	16 x 30 x 1	16 x 30 x 1	16 x 30 x 1	16 x 30 x 1	16 x 30 x 1	16 x 30 x 1
Shipping Weight --LBS.	360	360	360	360	400	400	400	400	400	400

Specifications 3-1/2 through 5 Ton

MODELS	J42H2-A	J42H2-B	J42H2-C	J48H2-A	J48H2-B	J48H2-C	J60H2-A	J60H2-B	J60H2-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	18.4/21.5	11.6/13.5	6.1	19.5/21.2	13.6/14.7	6.6	21.5/25.3	12.8/15.1	7.6
Branch Circuit Selection Current	21.8	13.8	6.3	23.1	16.1	7.1	26.3	15.7	7.8
Lock Rotor Amps	117/117	84/84	41	131/131	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	1/3 - 825 - 2	1/3 - 825 - 2	1/3 - 825 - 2	1/3 - 825 - 2	1/3 - 825 - 2	1/3 - 825 - 2	1/3 - 825 - 2	1/3 - 825 - 2	1/3 - 825 - 2
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" - 2750	24" - 2750	24" - 2750	24" - 2750	24" - 2750	24" - 2750	24" - 2750	24" - 2750	24" - 2750
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 - .3	1400 - .3	1400 - .3	1550 - .2	1550 - .2	1550 - .2	1700 - .3	1700 - .3	1700 - .3
Filter Sizes (inches) STD.	20 x 30 x 1	20 x 30 x 1	20 x 30 x 1	20 x 30 x 1	20 x 30 x 1	20 x 30 x 1	20 x 30 x 1	20 x 30 x 1	20 x 30 x 1
Shipping Weight --LBS.	550	550	550	550	550	550	580	580	580

Indoor Blower Performance - CFM at 230 or 460 Volts

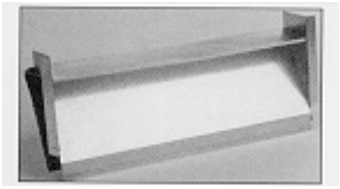
ESP IN H2O	J18H2		J24H2	J30H2 J36H2		J42H2 J48H2		J60H2	
	High Speed Dry/Wet Coil	**Low Speed** Dry/Wet Coil	**Single Speed** Dry/Wet Coil	**High Speed** Dry/Wet Coil	Low Speed Dry/Wet Coil	**High Speed** Dry/Wet Coil	Low Speed Dry/Wet Coil	**High Speed** Dry/Wet Coil	Low Speed Dry/Wet Coil
0	1020/975	750/700	1020/975	1395/1315	950/935	1885/1800	1650/1600	2200/2000	1600/1450
.1	960/905	735/675	960/905	1340/1270	930/915	1770/1665	1550/1500	2100/1900	1525/1375
.2	865/800	710/650	865/800	1285/1190	910/885	1635/1550	1450/1400	2000/1800	1465/1200
.3	820/735	660/600	820/735	1205/1100	855/830	1500/1400	1350/1300	1875/1700	-/-
.4	735/650	605/550	735/650	1110/1000	800/755	1370/1285	1300/1175	1775/1600	-/-
.5	615/535	540/490	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 applications.

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 - 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 11" 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 Enthalpy sensors
- Honeywell JADE electronic economizer module with precision settings and diagnostics

Clearances Required for Service Access and Adequate Condenser Airflow

MODELS	LEFT SIDE	RIGHT SIDE
J18H2, J24H2, J30H2, J36H2	15"	20"
J42H2, J48H2, J60H2	20"	20"

Minimum Clearances Required to Combustible Materials

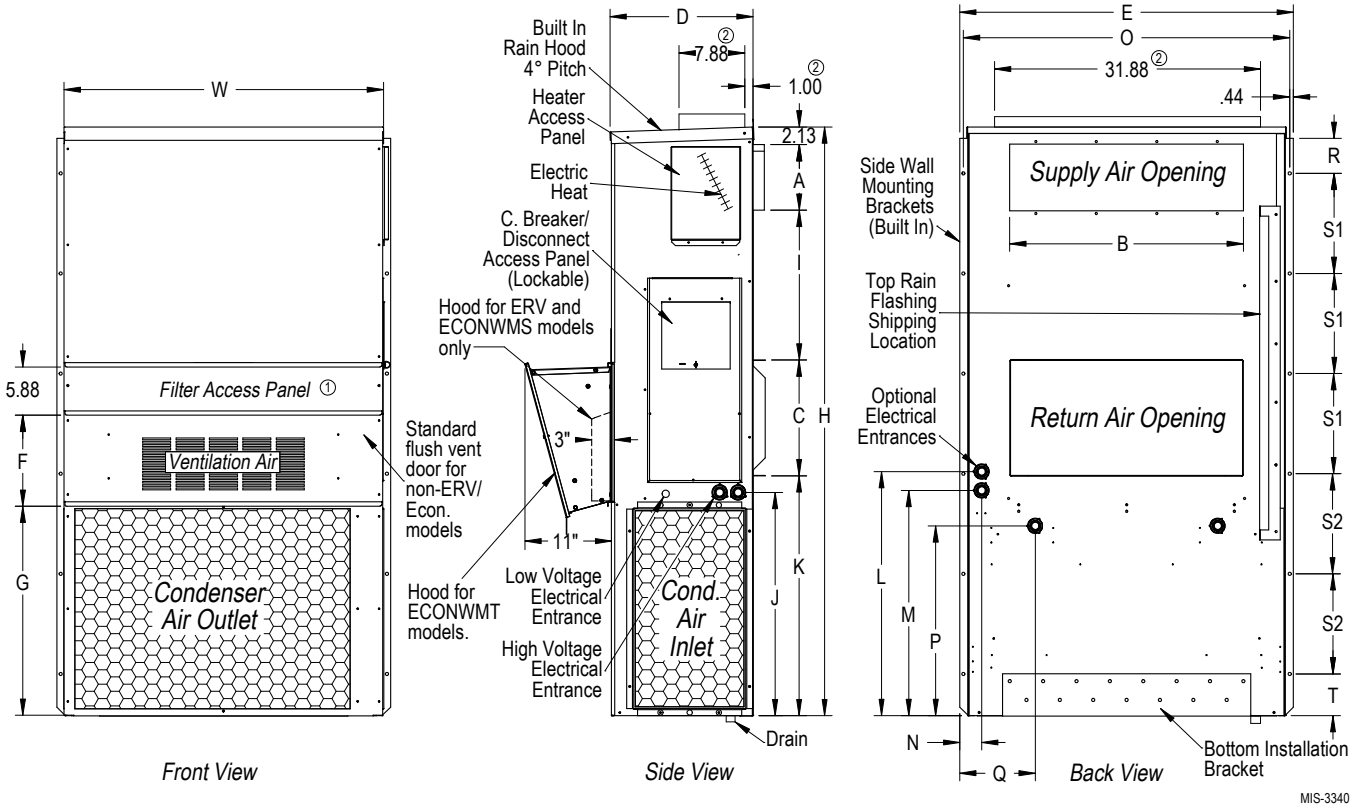
MODELS ①	SUPPLY AIR DUCT FIRST THREE FEET	CABINET
J18H2, J24H2	0"	0"
J30H2, J36H2	1/4"	0"
J42H2, J48H2, J60H2	1/4"	0"

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	S1	S2	T
J18H2 J24H2	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	5.00	12.00	12.00	5.00
J30H2 J36H2	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	2.63	39.13	22.75	9.14	5.00	12.00	12.00	5.00
J42H2 J48H2	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	16.00	1.88
J60H2	42.075	22.432	94.875	9.88	29.88	15.88	29.88	43.88	13.56	41.66	30.00	42.68	36.94	44.69	42.43	3.37	43.00	33.88	10.00	1.44	16.00	21.00	1.88

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



① 21.00" for model J60H2.

Electrical Specifications — Standard Heat Pumps

MODEL	Rated Volts & Phase	No. Field Power Circuits	Single Circuit				Dual Circuit							
			① Minimum Circuit Ampacity	② Maximum External Fuse or Ckt. Brkr.	③ Field Power Wire Size	③ Ground Wire	① Minimum Circuit Ampacity		② Maximum External Fuse or Ckt. Breaker		③ Field Power Wire Size		③ Ground Wire Size	
							Ckt. A	Ckt. B	Ckt. A	Ckt. B	Ckt. A	Ckt. B	Ckt. A	Ckt. B
J18H2- A00, A0Z	230/208-1	1	16	20	12	12								
A04		1	37	40	8	10								
A08		1	58	60	6	10								
J24H2- A00, A0Z	230/208-1	1	24	25	10	10								
A04		1	44	50	8	10								
A08		1 or 2	65	70	6	8	44	21	45	25	8	10	10	10
J24H2- B00, B0Z	230/208-3	1	17	20	12	12								
B06		1	35	40	8	10								
J24H2- C00, C0Z	460-3	1	11	15	14	14								
C06		1	21	25	10	10								
J30H2- A00, A0Z*	230/208-1	1	24	35	8	10								
A05*		1	50	50	8	10								
A10*		1 or 2	76	80	4	8	50	26	50	30	8	10	10	10
J30H2- B00, B0Z*	230/208-3	1	18	25	10	10								
B06		1	36	40	8	10								
B09*		1	45	45	8	10								
J30H2- C00, C0Z*	460-3	1	11	15	14	14								
C06		1	20	20	12	12								
C09*		1	25	25	10	10								
③ C15		1	26	30	10	10								
J36H2- A00, A0Z*	230/208-1	1	29	40	8	10								
A05		1	55	60	6	10								
A10*		1 or 2	81	90	4	8	55	26	60	30	6	10	10	10
A15		1 or 2	84	90	4	8	55	52	60	60	6	6	10	10
J36H2- B00, B0Z*	230/208-3	1	23	30	10	10								
B06		1	41	45	8	10								
B09*		1	50	50	8	10								
③ B15		1	51	60	8	10								
J36H2- C00, C0Z*	460-3	1	12	15	14	14								
C06		1	21	25	10	10								
C09*		1	25	25	10	10								
③ C15		1	26	30	10	10								
J42H2- A00, A0Z	230/208-1	1	36	50	8	10								
A04		1	57	60	6	10								
A05		1 or 2	62	70	6	8	36	26	50	30	8	10	10	10
A10		1 or 2	88	90	3	8	36	52	50	60	8	6	10	10
④ A15		1 or 2	88	90	3	8	36	52	50	60	8	6	10	10
J42H2- B00, B0Z	230/208-3	1	26	35	8	10								
B06		1	44	50	8	10								
B09		1	53	60	6	10								
③ B15		1	53	60	6	10								
J42H2- C00, C0Z	460-3	1	13	15	14	14								
C06		1	22	25	10	10								
C09		1	26	30	10	10								
③ C15		1	26	30	10	10								
J48H2- A00, A0Z	230/208-1	1	37	50	8	10								
A04		1	58	60	6	10								
A05		1 or 2	63	70	6	8	37	26	50	30	8	10	10	10
A10		1 or 2	89	90	3	8	37	52	50	60	8	6	10	10
④ A15		1 or 2	89	90	3	8	37	52	50	60	8	6	10	10
④ A20		1 or 2	111	125	2	6	59	52	60	60	6	6	10	10
J48H2- B00, B0Z	230/208-3	1	29	35	8	10								
B06		1	47	50	8	10								
B09		1	56	60	6	10								
③ B15		1	56	60	6	10								
③ B18		2	N/A	N/A	N/A	N/A	34	28	40	30	8	10	10	10
J48H2- C00, C0Z	460-3	1	14	20	12	12								
C09		1	27	30	10	10								
③ C15		1	27	30	10	10								
J60H2- A00, A0Z	230/208-1	1	41	60	8	10								
A05		1 or 2	67	80	4	8	41	26	60	30	8	10	10	10
A10		1 or 2	93	100	3	8	41	52	60	60	8	6	10	10
④ A15		1 or 2	93	100	3	8	41	52	60	60	8	6	10	10
④ A20		1 or 2	111	125	2	6	59	52	60	60	6	6	10	10
J60H2- B00, B0Z	230/208-3	1	28	40	8	10								
B09		1	55	60	6	10								
③ B15		1	55	60	6	10								
③ B18		2	N/A	N/A	N/A	N/A	34	28	40	30	8	10	10	10
J60H2- C00, C0Z	460-3	1	15	20	12	12								
C09		1	28	30	10	10								
③ C15		1	28	30	10	10								

① 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) conductors are in a raceway.

② Maximum size of the time delay fuse circuit breaker for protection of field wiring conductors.

③ Maximum KW that can operate with the heat pump on is 9KW. Full heat available during emergency heat mode.

④ Maximum KW that can operate with the heat pump on is 10KW. Full heat available during emergency heat mode.

* Available factory-built only with top outlet supply as an option.

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

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
4.0	4.0	16.7		13,652	3.00	14.4		10,239						
5.0	5.0	20.8		17,065	3.75	18.0		12,799						
6.0	6.0		14.4	20,478	4.50		12.5	15,359	6.0	7.2	20,478	5.52	6.9	18,840
8.0	8.0	33.3		27,304	6.00	28.8		20,478						
9.0	9.0		21.7	30,717	6.75		18.7	23,038	9.0	10.8	30,717	8.28	10.4	28,260
10.0	10.0	41.7		34,130	7.50	36.1		25,598						
15.0	15.0	62.5	36.1	51,195	11.25	54.1	31.2	38,396	15.0	18.0	51,195	13.80	17.3	47,099
18.0	18.0		43.3	61,434	13.50		37.5	46,076	18.0	21.7	61,434	16.56	20.8	56,519
20.0	20.0	83.3		68,260	15.00	72.1		51,195						

(1) These electric heaters are available in 230/208V units only.
(2) These electric heaters are available in 480V units only.

Heater Packages - Field Installed

- Designed for adding Electric Heat to 0 KW Units
- Circuit Breaker Standard on 230/208V Models
- ETL US & Canada Listed
- Toggle Disconnect Standard on 460V Models

Heat Pump Models	-A00 Models 230/208-1		-B00 Models 230/208-3		-C00 Models 460-3	
	Heater Model #	KW	Heater Model #	KW	Heater Model #	KW
J18H2	EHWH02A-A04 EHWH02A-A08	4 8	N/A		N/A	
J24H2	EHW24H-A04 EHW24H-A08	4 8	EHW24H-B06	6	EHWH24B-C06	6
J30H2	EHWH30-A05 EHWH30-A10	5 10	EHWH03-B06 EHWH03-B09	6 9	EHWC03A-C06 EHWC03A-C09 EHWH03A-C15	6 9 15
J36H2	EHWH36-A05 EHWH36-A10 EHWH36-A15	5 10 15	EHW36H-B06 EHWH03-B09 EHW36H-B15	6 9 15	EHWC03A-C06 EHWC03A-C09 EHWH03A-C15	6 9 15
J42H2	EHWH04-A04 EHWH42-A05 EHWH42-A10 EHWH42-A15	4 5 10 15	EHWH05-B06 EHWH05-B09 EHWH05-B15	6 9 15	EHWH42-C06 EHWH05A-C09 EHWH05A-C15	6 9 15
J48H2	EHWH04-A04 EHWH42-A05 EHWH42-A10 EHWH42-A15 EHWH04-A20	4 5 10 15 20	EHWH05-B06 EHWH05-B09 EHWH05-B15 EHW05H-B18	6 9 15 18	EHWH05A-C09 EHWH05A-C1	9 15
J60H2	EHWH04-A05 EHWH04-A10 EHWH04-A15 EHWH04-A20	5 10 15 20	EHWH05-B09 EHWH05-B15 EHW05-B18	9 15 18	EHWH05A-C09 EHWH05A-C15	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 Model No.	-B00 Models 230/208-3 Model No.	-C00 Models 460-3 Model No.
J18H	WMCB-02A	N/A	N/A
J24H	WMCB-03A	WMCB-02B	N/A
J30H	WMCB-05A	WMCB-02B	WMPD-01C
J36H	WMCB-06A	WMCB-04B	WMPD-01C
J42H	WMCB-08A	WMCB-05B	WMPD-01C
J48H	WMCB-08A	WMCB-06B	WMPD-01C
J60H	WMCB-09A	WMCB-07B	WMPD-01C

Cooling Application Data - Outdoor Temperature °F

Model	(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
J18H2	75/62	Total Cooling	17,900	17,000	16,200	15,300	14,300	13,500	12,600	11,700	10,800	9,900
		Sensible Cooling	14,300	13,900	13,600	13,200	12,800	12,400	12,000	11,600	10,800	9,900
	80/67	Total Cooling	19,100	18,500	17,900	17,200	16,400	15,700	14,800	13,900	13,000	12,000
		Sensible Cooling	13,800	13,600	13,400	13,200	12,900	12,600	12,300	11,900	11,600	11,200
	85/72	Total Cooling	22,800	21,700	20,600	19,500	18,300	17,200	16,000	14,800	13,700	12,500
		Sensible Cooling	14,200	13,800	13,500	13,100	12,700	12,200	11,800	11,200	10,700	10,200
J24H2	75/62	Total Cooling	27,100	25,100	23,400	21,800	20,400	19,300	18,300	17,400	16,700	16,000
		Sensible Cooling	20,700	19,800	19,000	18,300	17,700	17,100	16,600	16,100	15,700	15,300
	80/67	Total Cooling	28,900	27,300	25,900	24,600	23,600	22,400	21,500	20,700	20,000	19,400
		Sensible Cooling	20,000	19,400	18,800	18,300	17,800	17,400	17,000	16,600	16,300	16,000
	85/72	Total Cooling	34,500	31,900	29,800	27,800	26,000	24,500	23,200	22,100	21,000	20,200
		Sensible Cooling	20,500	19,700	18,900	18,200	17,500	16,900	16,200	15,600	15,000	14,500
J30H2	75/62	Total Cooling	31,900	30,300	28,800	27,400	26,000	24,700	23,400	22,200	21,000	19,800
		Sensible Cooling	24,800	24,200	23,700	23,000	22,400	21,700	21,200	20,400	19,800	19,100
	80/67	Total Cooling	34,000	33,000	32,000	30,900	29,800	28,700	27,600	26,400	25,200	24,000
		Sensible Cooling	24,000	23,700	23,400	23,000	22,600	22,100	21,700	21,100	20,600	20,000
	85/72	Total Cooling	40,500	38,600	36,800	34,900	33,100	31,400	29,800	28,100	26,500	25,000
		Sensible Cooling	24,600	24,100	23,500	22,900	22,200	21,400	20,700	19,800	19,000	18,100
J36H2	75/62	Total Cooling	35,800	34,400	33,000	31,600	30,200	28,900	27,500	26,100	24,800	23,500
		Sensible Cooling	28,600	28,000	27,300	26,600	25,900	25,200	24,500	23,800	23,100	22,400
	80/67	Total Cooling	38,200	37,500	36,600	35,700	34,600	33,600	32,400	31,100	29,800	28,400
		Sensible Cooling	27,700	27,400	27,000	26,600	26,100	25,600	25,100	24,600	24,000	23,400
	85/72	Total Cooling	45,500	43,900	42,100	40,300	38,500	36,800	35,000	33,100	31,300	29,500
		Sensible Cooling	28,400	27,800	27,200	26,400	25,600	24,800	23,900	23,100	22,100	21,200
J42H2	75/62	Total Cooling	46,500	43,600	41,000	38,700	36,600	34,900	33,200	32,000	30,800	29,900
		Sensible Cooling	36,200	35,100	34,000	33,200	32,400	31,700	31,100	30,600	30,200	29,900
	80/67	Total Cooling	49,600	47,500	45,500	43,700	42,000	40,600	39,200	38,100	37,100	36,200
		Sensible Cooling	35,100	34,400	33,700	33,200	32,700	32,200	31,900	31,600	31,400	31,300
	85/72	Total Cooling	59,100	55,600	52,300	49,400	46,700	44,400	42,300	40,600	39,000	37,600
		Sensible Cooling	36,000	34,900	33,900	33,000	32,100	31,200	30,400	29,600	28,900	28,300
J48H2	75/62	Total Cooling	49,200	46,800	44,500	42,300	40,100	38,000	36,000	34,000	32,100	30,200
		Sensible Cooling	39,100	38,200	37,200	36,200	35,300	34,300	33,400	32,500	31,700	30,200
	80/67	Total Cooling	52,500	51,000	49,400	47,800	46,000	44,300	42,400	40,500	38,600	36,600
		Sensible Cooling	37,900	37,400	36,800	36,200	35,600	34,900	34,300	33,600	33,000	32,300
	85/72	Total Cooling	62,600	59,600	56,700	54,000	51,100	48,500	45,700	43,100	40,600	38,000
		Sensible Cooling	38,800	38,000	37,000	36,000	34,900	33,800	32,700	31,500	30,400	29,200
J60H2	75/62	Total Cooling	56,800	54,300	52,000	49,600	47,000	44,600	42,100	39,700	37,100	34,500
		Sensible Cooling	43,800	42,700	41,600	40,400	39,300	38,100	37,000	35,800	34,700	33,400
	80/67	Total Cooling	60,600	59,200	57,700	56,000	54,000	52,000	49,700	47,300	44,600	41,800
		Sensible Cooling	42,500	41,800	41,200	40,400	39,600	38,800	37,900	37,000	36,100	35,000
	85/72	Total Cooling	72,200	69,200	66,300	63,200	60,000	56,900	53,600	50,300	46,900	43,400
		Sensible Cooling	43,500	42,400	41,400	40,100	38,900	37,600	36,100	34,700	33,300	31,600

① Return air temperature °F.

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

*Heating Application Rating and Outdoor Temperature °F **

MODEL		0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°F	65°F
J18H2	BTUH	4,700	6,000	7,300	8,500	9,500	10,200	11,000	11,700	13,800	15,800	17,400	18,700	19,900	21,200
	WATTS	1,480	1,500	1,520	1,540	1,540	1,540	1,540	1,540	1,590	1,630	1,660	1,680	1,700	1,720
	COP	0.94	1.18	1.41	1.62	1.81	1.95	2.10	2.23	2.55	2.85	3.08	3.27	3.43	3.62
J24H2	BTUH	8,400	10,000	11,700	13,400	14,300	14,700	15,100	15,500	19,100	22,600	25,000	26,700	28,400	30,000
	WATTS	2,040	2,080	2,110	2,150	2,170	2,170	2,170	2,170	2,270	2,360	2,420	2,460	2,500	2,540
	COP	1.21	1.41	1.63	1.83	1.94	1.99	2.04	2.10	2.47	2.81	3.03	3.19	3.33	3.47
J30H2	BTUH	10,200	12,200	14,200	16,200	17,700	18,800	19,900	21,000	24,400	27,700	30,200	32,200	34,200	36,200
	WATTS	2,460	2,500	2,540	2,580	2,600	2,600	2,590	2,590	2,700	2,800	2,860	2,900	2,940	2,980
	COP	1.22	1.43	1.64	1.84	2.00	2.12	2.26	2.38	2.65	2.90	3.10	3.26	3.41	3.56
J36H2	BTUH	13,100	15,400	17,800	20,100	21,500	22,300	23,100	23,900	28,500	33,200	36,400	38,800	41,100	43,400
	WATTS	2,800	2,850	2,900	2,950	2,970	2,970	2,970	2,970	3,090	3,220	3,300	3,350	3,400	3,450
	COP	1.38	1.59	1.80	2.00	2.13	2.20	2.28	2.36	2.71	3.03	3.24	3.40	3.55	3.69
J42H2	BTUH	15,400	18,200	21,100	23,900	25,400	26,100	26,700	27,400	33,500	39,600	43,700	46,600	49,400	52,200
	WATTS	3,460	3,540	3,620	3,690	3,740	3,760	3,780	3,800	3,960	4,130	4,240	4,320	4,390	4,470
	COP	1.31	1.51	1.71	1.90	1.99	2.04	2.07	2.12	2.48	2.81	3.02	3.17	3.30	3.43
J48H2	BTUH	15,800	18,800	21,800	24,800	26,500	27,300	28,100	28,900	35,200	41,500	45,800	48,800	51,800	54,800
	WATTS	3,560	3,620	3,670	3,730	3,750	3,760	3,770	3,770	3,900	4,030	4,110	4,160	4,220	4,270
	COP	1.31	1.53	1.75	1.95	2.08	2.13	2.19	2.25	2.65	3.02	3.27	3.44	3.6	3.77
J60H2	BTUH	19,600	23,200	26,900	30,600	32,300	32,800	33,300	33,800	42,200	50,700	56,200	59,900	63,600	67,200
	WATTS	4,320	4,410	4,490	4,580	4,620	4,630	4,650	4,660	4,850	5,050	5,170	5,260	5,340	5,430
	COP	1.33	1.55	1.76	1.96	2.05	2.08	2.10	2.13	2.55	2.95	3.19	3.34	3.49	3.63

*70°F DB indoor return air at rated CFM includes defrost operation below 45°.

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	J18 - 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"

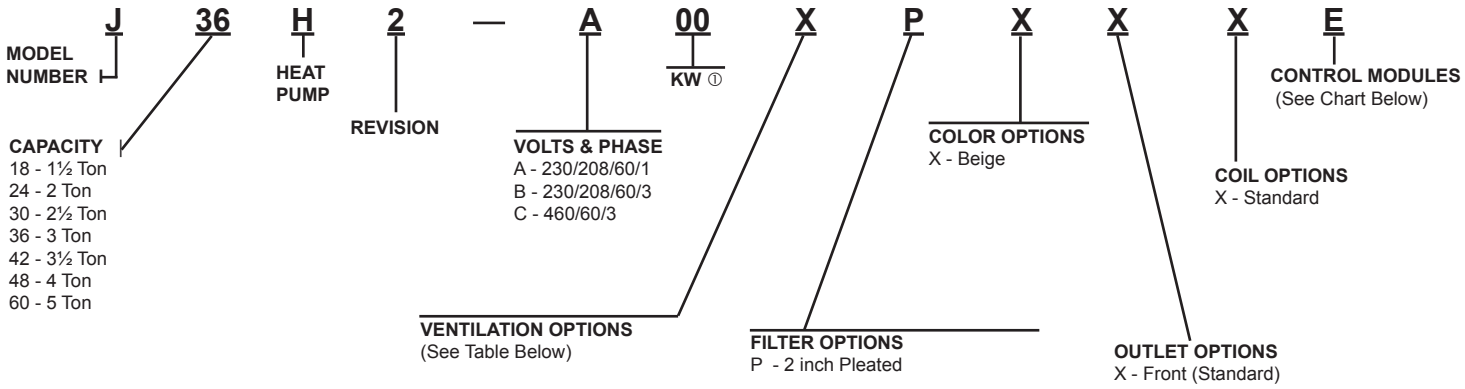
• Return air grille - Extruded aluminum with blades fixed at 45° angle.

Model No.	Flange Type	Applicable To	Dimensions	Outside Dimensions
RG-2W	2" Wide	J18 - 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, see filter chart.

Model No.	Flange Type	Applicable To	Outside Dimensions	Filter Size
RFG-2W	2" Wide	J18 - 24	24-1/4" x 16-1/4"	12 x 20 x 1
RFG-3W	2" Wide	J30 - 36	32-1/4" x 18-1/4"	14 x 28 x 1
RFG-5W	2" Wide	J42 - 60	34-1/4" x 20-1/4"	16 x 30 x 1

Heat Pump Wall-Mount Model Nomenclature



① See Page 6 for Field Installed Electric Heater options.

Ventilation Options

Models	J18H2, J24H2		J30H2, J36H2		J42H2, J48H2, J60H2	
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 ①	S	ECONWMS-E2B③	S	ECONWMS-E3B③	S	ECONWMS-E5B③
Economizer - Equipment Bldg., Enthalpy ②	W	ECONWMT-E2B③	W	ECONWMT-E3B③	W	ECONWMT-E5B③

① Partial Full Flow (75% of Rated Cooling CFM). All ECONWMS versions have 3" deep intake hood.
② Full Flow (100% of Rated Cooling CFM). All ECONWMT versions have 11" deep intake hood.
③ Insert color to match unit ("X" = Beige; "4" = Buckeye Gray; etc.)

Heat Pump Control Modules

HPC ①	LPC ①	LAC ②	SK ③	SK ④	ALL MODELS AS NOTED	
					Factory Installed Code	Field Installed Part
STD	STD	STD			E	Factory Only
STD	STD	STD	●		Field Installed Only	CMC-15 ③
STD	STD	STD		●	Field Installed Only	SK111 ④

STD = Standard Equipment

① HPC & LPC The high & low pressure controls are auto reset. Operating circuit includes a lockout feature and is resettable from the wall thermostat. All low pressure controls use a timed bypass circuit to prevent nuisance tripping during low temperature start-up.

② LAC The low ambient control includes an 8201-008 (fan relay) and permits cooling operation down to 0°F.

③ 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.

④ 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.

NOTE: Standard heat pump control board has a 5-minute compressor anti-short cycle timer.

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. S3441 May, 2014

Supersedes: S3441-211