



WALL-MOUNT HEAT PUMPS 10 EER (60HZ)

Models: J18HA to J60HA **60Hz**
Heating Capacities: 16,500 to 56,500 BTUH
Cooling Capacities: 17,100 to 58,000 BTUH

GREEN REFRIGERANT
R-410A

The 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, MERV 8 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 OKW 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 90.1-2013.
- 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	J18HA	J24HA	J30HA	J36HA	J42HA	J48HA	J60HA
Cooling BTUH ①	17,100	24,600	30,000	34,600	40,500	47,000	58,000
EER ②	10.20	10.00	10.00	10.00	10.20	10.00	10.40
High Temp Heating (47F) BTUH ①	16,500	23,400	29,800	32,000	38,500	44,000	56,500
COP ②	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Low Temp Heating (17F) BTUH ①	10,200	14,600	18,800	20,000	22,500	26,000	36,500
COP ②	2.00	2.00	2.10	2.10	2.00	2.00	2.20

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 1½ through 3 Ton

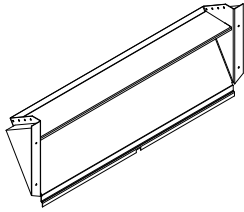
MODELS	J18HA-A	J24HA-A	J24HA-B	J24HA-C	J30HA-A	J30HA-B	J30HA-C	J36HA-A	J36HA-B	J36HA-C
Electrical Rating – 60 Hz	230/208 - 1	230/208 - 1	230/208 - 3	460 - 3	230/208 - 1	230/208 - 3	460 - 3	230/208 - 1	230/208 - 3	460 - 3
Operating Voltage Range	197-253	197-253	197-253	414-506	197-253	197-253	414-506	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	5.8/8.2	10.4/12.4	6.8/8.1	5.0	11.2/12.7	7.2/8.2	5.1	14.6/16.6	10.8/12.3	5.6
Branch Circuit Selection Current	9.0	12.8	8.3	5.1	14.1	9.0	5.6	17.9	13.2	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	0.8	1.5	1.5	0.8	1.5	1.5	0.8
Fan--DIA/CFM	18" - 1750	18" - 1700	18" - 1700	18" - 1700	20" - 2200	20" - 2200	20" - 2200	20" - 2200	20" - 2200	20" - 2200
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	0.8	1.0	1.0	.45	2.6	2.6	0.8	2.6	2.6	0.8
CFM Cooling & E.S.P. w/Filter (Rated-Wet Coil)	600 - .2	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
Unit Weight--LBS	330	340	340	340	366	366	366	373	373	373
+Barometric Fresh Air Damper-Lbs	3.5	3.5	3.5	3.5	4.0	4.0	4.0	4.0	4.0	4.0
+Economizer-Lbs	69.0	69.0	69.0	69.0	75.0	75.0	75.0	75.0	75.0	75.0

Specifications 3½ through 5 Ton

MODELS	J42HA-A	J42HA-B	J42HA-C	J48HA-A	J48HA-B	J48HA-C	J60HA-A	J60HA-B	J60HA-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	14.3/16.5	10.8/12.5	5.6	17.8/22.3	11.2/14.1	6.4	26/30.1	15.5/17.9	9.0
Branch Circuit Selection Current	17.9	13.5	6.0	22.3	14.1	6.4	30.1	17.9	9.0
Lock Rotor Amps	112/112	88/88	44	117/117	83/83	41	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 - 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	2.6	2.6	1.3	2.6	2.6	1.3	2.6	2.6	1.3
Fan--DIA/CFM	24" - 2950	24" - 2950	24" - 2950	24" - 2950	24" - 2950	24" - 2950	24" - 3100	24" - 3100	24" - 3100
Blower Motor & Evap.									
Blower Motor--HP--RPM--SPD	1/3-1070-2	1/3-1070-2	1/3-1070-2	1/2-1070-2	1/2-1070-2	1/2-1070-2	3/4-1070-3	3/4-1070-3	3/4-1070-3
Blower Motor--Amps	2.3	2.3	1.2	2.3	2.3	1.2	3.9	3.9	1.7
CFM Cooling & E.S.P. w/Filter (Rated-Wet Coil)	1400 - .4	1400 - .4	1400 - .4	1550 - .2	1550 - .2	1550 - .2	1700 - .2	1700 - .2	1700 - .2
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
Unit Weight--LBS	471	471	471	480	480	480	525	525	525
+Barometric Fresh Air Damper-Lbs	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
+Economizer-Lbs	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5

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 ventilation packages can be built-in at the factory or field-installed at a later date.



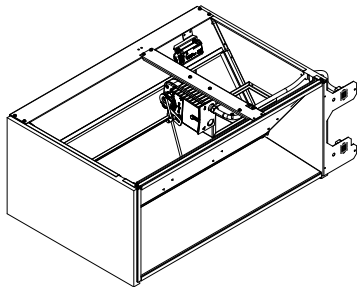
MS-3754

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



MS-3757

Economizer

ECONOMIZER – WECO Series

The built-in economizer is internally mounted behind the service door and allows outside ventilation air, up to 100% of the total airflow rating of the unit. It includes a built-in exhaust air damper for room pressurization relief. 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

Standard Features:

- Full rated outdoor intake
- Fully modulating
- Honeywell Hi-Torque Actuator
- 7" intake hood with filter
- 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 — 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.	⑤ Field Power Wire Size	⑤ Ground Wire	① Minimum Circuit Ampacity		② Maximum External Fuse or Ckt. Breaker		⑤ Field Power Wire Size		⑤ Ground Wire Size	
							Ckt. A	Ckt. B	Ckt. A	Ckt. B	Ckt. A	Ckt. B	Ckt. A	Ckt. B
J18HA-A00, A0Z A04 A08	230/208-1	1 1 1	16 37 57	20 40 60	12 8 6	12 10 10								
J24HA-A00, A0Z A04 A08	230/208-1	1 1 1 or 2	21 42 63	25 45 70	10 8 6	10 10 8	42	25	45	25	8	10	10	10
J24HA-B00, B0Z B06	230/208-3	1 1	15 33	20 35	12 8	12 10								
J24HA-C00, C0Z C06	460-3	1 1	9 18	15 20	14 12	14 12								
J30HA-A00, A0Z A05 A10	230/208-1	1 1 1 or 2	24 50 76	35 50 80	8 8 4	10 10 8	50	26	50	30	8	10	10	10
J30HA-B00, B0Z B06 B09	230/208-3	1 1 1	18 36 45	25 40 50	10 8 8	10 10 10								
J30HA-C00, C0Z C06 C09 ③ C15	460-3	1 1 1 1	10 19 24 25	15 20 25 30	14 12 10 10	14 12 10 10								
J36HA-A00, A0Z A05 A10 ④ A15	230/208-1	1 1 1 or 2 1 or 2	29 55 81 85	40 60 90 90	8 6 4 4	10 10 8 8	55 55	26 52	60 60	30 60	6 6	10 6	10 10	10 10
J36HA-B00, B0Z B06 B09 ③ B15	230/208-3	1 1 1 1	23 41 50 52	30 45 50 60	10 8 8 6	10 10 10 10								
J36HA-C00, C0Z C06 C09 ③ C15	460-3	1 1 1 1	11 20 24 25	15 25 25 30	14 10 10 10	14 10 10 10								
J42HA-A00, A0Z A04 A05 A10 ④ A15	230/208-1	1 1 1 1 or 2 1 or 2	30 51 56 82 82	45 60 60 90 90	8 6 6 4 4	10 10 10 8 8	30 32	52 52	45 45	60 60	8 8	6 6	10 10	10 10
J42HA-B00, B0Z B06 B09 ③ B15	230/208-3	1 1 1 1	24 42 52 52	35 50 60 60	8 8 6 6	10 10 10 10								
J42HA-C00, C0Z C06 C09 ③ C15	460-3	1 1 1 1	12 21 25 26	15 25 30 30	14 10 10 10	14 10 10 10								
J48HA-A00, A0Z A04 A05 A10 ④ A15 ④ A20	230/208-1	1 1 or 2 1 or 2 1 or 2 1 or 2	35 56 61 87 87 110	50 60 70 90 90 125	8 6 8 3 3 2	10 10 8 8 8 6	35 35 35 58	26 52 52 52	50 50 50 60	30 60 60 60	8 8 8 6	10 6 6 6	10 10 10 10	10 10 10 10
J48HA-B00, B0Z B06 B09 ③ B15 ③ B18	230/208-3	1 1 1 1 2	25 43 52 52 N/A	35 50 60 60 N/A	8 8 6 6 N/A	10 10 10 10 N/A	33	28	40	30	8	10	10	10
J48HA-C00, C0Z C09 ③ C15	460-3	1 1 1	12 26 26	15 30 30	14 10 10	14 10 10								
J60HA-A00, A0Z A05 A10 ④ A15 ④ A20	230/208-1	1 1 or 2 1 or 2 1 or 2 1 or 2	47 73 99 99 112	60 90 110 110 125	8 4 3 3 2	10 8 6 6 6	47 47 47 60	26 52 52 52	60 60 60 60	30 60 60 60	8 8 8 6	10 6 6 6	10 10 10 10	10 10 10 10
J60HA-B00, B0Z B09 ③ B15 ③ B18	230/208-3	1 1 1 2	32 59 59 N/A	40 60 60 N/A	8 6 6 N/A	10 10 10 N/A	35	28	40	30	8	10	10	10
J60HA-C00, C0Z C09 ③ C15	460-3	1 1 1	15 29 29	20 35 35	12 8 8	12 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 or 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.

⑤ Based on 75°C copper wire. All wiring must conform to the National Electrical Code and all local codes.

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.

Indoor Blower Performance - CFM at 230 or 460 Volts

ESP in H ₂ O	J18HA		J24HA	J30HA / J36HA		J42HA / J48HA		J60HA		
	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	Medium Speed Dry/Wet Coil	Low Speed Dry/Wet Coil
0.0	980/970	725/720	960/920	1435/1400	960/960	1840/1790	1655/1605	2095/1995	1910/1820	1795/1715
0.1	920/905	670/655	920/860	1400/1355	935/945	1755/1700	1565/1530	2040/1950	1850/1760	1730/1655
0.2	850/825	630/610	860/790	1300/1250	925/905	1665/1615	1490/1455	1985/1900	1790/1700	1665/1600
0.3	785/755	580/550	790/705	1230/1160	895/880	1570/1515	1410/1370	1925/1850	1735/1630	1605/1540
0.4	715/680	530/490	700/610	1125/1075	840/810	1465/1410	1320/1280	1875/1800	1675/1570	1545/1475
0.5	610/565	455/390	565/450	1010/940	765/735	1355/1280	1215/980	1820/1745	1615/1500	1475/1310

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 applications.

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

Air Conditioner Models	-A00 Models 230/208-1	KW	-B00 Models 230/208-3	KW	-C00 Models 460-3	KW
	Heater Model #		Heater Model #		Heater Model #	
J18HA	EHW18H-A04 EHW18H-A08	4 8	N/A		N/A	
J24HA	EHW2TH-A04 EHW2TH-A08	4 8	EHWH24-B06B	6	EHWH24B-C06	6
J30HA	EHWH30-A05B EHWH30-A10B	5 10	EHWH03-B06B EHWH03-B09B	6 9	EHWC03A-C06 EHWC03A-C09 EHWH03A-C15	6 9 15
J36HA	EHWH36-A05B EHWH36-A10B EHWH36-A15B	5 10 15	EHW36H-B06B EHWH03-B09B EHW36H-B15B	6 9 15	EHWC03A-C06 EHWC03A-C09 EHWH03A-C15	6 9 15
J42HA	EHWH04-A04B EHW4TH-A05 EHW4TH-A10 EHW4TH-A15	4 5 10 15	EHWH05-B06B EHWH05-B09B EHWH05-B15B	6 9 15	EHW4TH-C06 EHW4TH-C09 EHW4TH-C15	6 9 15
J48HA	EHWH04-A04B EHWH42-A05B EHW4TH-A10B EHWH42-A15B EHWH04-A20B	4 5 10 15 20	EHWH05-B06B EHWH05-B09B EHWH05-B15B EHW4TH-B18B	6 9 15 18	EHW4TH-C09 EHW4TH-C15	9 15
J60HA	EHWH04-A05B EHW5TH-A10 EHWH04-A15B EHWH04-A20B	5 10 15 20	EHWH05-B09B EHWH05-B15B EHW4TH-B18	9 15 18	EHW4TH-C09 EHW4TH-C15	9 15

Cooling Application Data - Outdoor Temperature °F 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	125°F
J18HA	75/62	Total Cooling Sensible Cooling	18,300 14,400	17,400 14,000	16,500 13,700	15,700 13,300	14,800 13,000	14,100 12,700	13,400 12,500	12,800 12,200	12,200 12,000	11,500 11,500	11,000 11,000
	80/67	Total Cooling Sensible Cooling	19,500 13,900	18,900 13,700	18,300 13,500	17,700 13,300	17,100 13,100	16,400 12,900	15,800 12,800	15,200 12,600	14,600 12,400	13,900 12,200	13,300 12,000
	85/72	Total Cooling Sensible Cooling	23,300 14,300	22,100 13,900	21,100 13,600	20,000 13,200	18,900 12,900	18,000 12,500	17,100 12,200	16,200 11,900	15,400 11,500	14,500 11,100	13,700 10,700
J24HA	75/62	Total Cooling Sensible Cooling	28,500 21,700	26,500 20,600	24,600 19,600	22,900 18,700	21,500 18,000	20,200 17,300	19,000 16,800	18,000 16,300	17,100 16,000	16,400 15,800	15,700 15,600
	80/67	Total Cooling Sensible Cooling	30,400 21,000	28,800 20,200	27,300 19,400	25,900 18,700	24,600 18,100	23,500 17,600	22,400 17,200	21,400 16,800	20,600 16,600	19,800 16,500	19,100 16,400
	85/72	Total Cooling Sensible Cooling	36,200 21,500	33,700 20,500	31,400 19,500	29,300 18,600	27,400 17,800	25,700 17,100	24,200 16,400	22,800 15,800	21,700 15,300	20,600 14,900	19,700 14,500
J30HA	75/62	Total Cooling Sensible Cooling	29,600 24,200	28,800 23,900	28,000 23,600	27,100 23,200	26,100 22,900	25,200 22,500	24,200 22,100	23,100 21,600	22,000 21,100	20,800 20,700	19,600 19,600
	80/67	Total Cooling Sensible Cooling	31,600 23,400	31,400 23,400	31,100 23,300	30,600 23,200	30,000 23,100	29,300 22,900	28,500 22,600	27,500 22,300	26,400 21,900	25,200 21,600	23,900 21,100
	85/72	Total Cooling Sensible Cooling	37,700 24,000	36,700 23,800	35,700 23,400	34,600 23,100	33,400 22,700	32,100 22,200	30,800 21,600	29,300 20,900	27,800 20,200	26,200 19,500	24,600 18,700
J36HA	75/62	Total Cooling Sensible Cooling	36,100 28,500	34,500 27,700	33,000 26,900	31,500 26,100	30,000 25,500	28,600 24,800	27,200 24,200	25,800 23,600	24,500 23,100	23,200 22,600	21,900 21,900
	80/67	Total Cooling Sensible Cooling	38,500 27,600	37,600 27,100	36,600 26,600	35,600 26,100	34,600 25,700	33,300 25,200	32,100 24,800	30,800 24,400	29,500 24,000	28,100 23,600	26,600 23,200
	85/72	Total Cooling Sensible Cooling	45,900 28,300	44,000 27,500	42,100 26,700	40,200 26,000	38,200 25,200	36,400 24,400	34,600 23,700	32,800 22,900	31,000 22,100	29,200 21,300	27,400 20,600
J42HA	75/62	Total Cooling Sensible Cooling	42,700 34,700	40,900 33,700	38,900 32,700	37,100 31,800	35,300 31,000	33,600 30,200	31,900 29,500	30,300 28,800	28,600 28,100	27,100 27,100	25,500 25,500
	80/67	Total Cooling Sensible Cooling	45,600 33,600	44,500 33,000	43,200 32,400	41,900 31,800	40,500 31,300	39,100 30,700	37,600 30,200	36,100 29,700	34,400 29,200	32,800 28,700	31,000 28,300
	85/72	Total Cooling Sensible Cooling	54,300 34,400	52,000 33,500	49,600 32,600	47,300 31,600	45,000 30,700	42,800 29,700	40,600 28,800	38,400 27,900	36,200 26,900	34,100 25,900	31,900 25,100
J48HA	75/62	Total Cooling Sensible Cooling	48,800 38,900	46,800 38,000	44,900 37,100	42,900 36,200	40,900 35,400	39,100 34,500	37,200 33,600	35,300 32,800	33,400 32,000	31,600 31,200	29,700 29,700
	80/67	Total Cooling Sensible Cooling	52,100 37,700	51,000 37,200	49,800 36,700	48,500 36,200	47,000 35,700	45,500 35,100	43,900 34,500	42,100 33,900	40,200 33,300	38,300 32,600	36,200 31,900
	85/72	Total Cooling Sensible Cooling	62,100 38,600	59,600 37,800	57,200 36,900	54,800 36,000	52,200 35,000	49,800 34,000	47,300 32,900	44,800 31,800	42,300 30,700	39,800 29,500	37,300 28,200
J60HA	75/62	Total Cooling Sensible Cooling	60,800 46,400	58,100 45,200	55,500 44,100	52,900 43,000	50,500 42,000	48,200 40,900	46,000 39,900	43,900 38,900	41,800 37,900	39,900 36,900	37,800 35,900
	80/67	Total Cooling Sensible Cooling	64,900 45,000	63,300 44,300	61,600 43,700	59,800 43,000	58,000 42,400	56,200 41,600	54,300 40,900	52,300 40,200	50,300 39,400	48,300 38,600	46,100 37,800
	85/72	Total Cooling Sensible Cooling	77,300 46,100	74,000 45,000	70,700 43,900	67,500 42,700	64,400 41,600	61,500 40,300	58,600 39,000	55,600 37,700	52,900 36,300	50,200 34,900	47,400 33,500

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, unit requires a factory or field installed low ambient control.

② Return air temperature °F.

Heating Application Rating and Outdoor Temperature °F *

MODEL		0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°F	65°F
J18HA	BTUH	6,700	7,700	8,800	9,800	10,800	11,800	12,800	13,800	14,900	16,100	17,200	18,200	19,300	20,300
	WATTS	1,450	1,460	1,480	1,490	1,500	1,500	1,510	1,510	1,540	1,560	1,570	1,590	1,600	1,610
	COP	1.36	1.55	1.75	1.93	2.11	2.31	2.49	2.68	2.84	3.03	3.21	3.36	3.54	3.70
J24HA	BTUH	9,500	11,000	12,500	14,000	15,300	16,500	17,600	18,800	20,800	22,800	24,500	26,000	27,500	29,000
	WATTS	1,960	1,990	2,020	2,060	2,090	2,120	2,150	2,190	2,220	2,250	2,280	2,310	2,350	2,380
	COP	1.43	1.62	1.82	2.00	2.15	2.29	2.40	2.52	2.75	2.97	3.15	3.30	3.43	3.58
J30HA	BTUH	12,900	14,700	16,500	18,300	19,800	21,100	22,400	23,700	26,300	28,800	30,900	32,700	34,500	36,300
	WATTS	2,420	2,460	2,500	2,540	2,560	2,570	2,590	2,600	2,680	2,760	2,810	2,850	2,890	2,930
	COP	1.57	1.76	1.94	2.12	2.27	2.41	2.54	2.68	2.88	3.06	3.23	3.37	3.50	3.63
J36HA	BTUH	13,200	15,200	17,200	19,200	21,100	22,800	24,500	26,200	28,700	31,100	33,200	35,200	37,200	39,200
	WATTS	2,600	2,640	2,670	2,710	2,730	2,750	2,760	2,780	2,840	2,910	2,950	2,990	3,020	3,060
	COP	1.49	1.69	1.89	2.08	2.27	2.43	2.61	2.77	2.97	3.14	3.30	3.45	3.61	3.76
J42HA	BTUH	13,500	16,100	18,800	21,500	23,400	24,700	26,100	27,500	32,100	36,700	40,100	42,800	45,500	48,100
	WATTS	3,070	3,120	3,170	3,220	3,230	3,220	3,200	3,190	3,340	3,490	3,580	3,630	3,680	3,730
	COP	1.29	1.52	1.74	1.96	2.13	2.25	2.39	2.53	2.82	3.09	3.29	3.46	3.63	3.78
J48HA	BTUH	15,800	18,800	21,800	24,800	27,500	29,800	32,200	34,600	38,500	42,500	45,800	48,800	51,800	54,800
	WATTS	3,710	3,740	3,760	3,790	3,800	3,790	3,790	3,780	3,860	3,930	3,980	4,010	4,030	4,060
	COP	1.25	1.48	1.70	1.92	2.13	2.31	2.49	2.69	2.93	3.17	3.38	3.57	3.77	3.96
J60HA	BTUH	25,200	28,500	31,900	35,200	37,800	39,800	41,900	43,900	49,200	54,400	58,500	61,900	65,200	68,500
	WATTS	4,420	4,530	4,640	4,760	4,780	4,730	4,690	4,650	4,990	5,340	5,550	5,660	5,770	5,880
	COP	1.68	1.85	2.02	2.17	2.32	2.47	2.62	2.77	2.89	2.99	3.09	3.21	3.32	3.42

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

Clearances Required for Service Access and Adequate Condenser Inlet Airflow

MODELS	LEFT SIDE	RIGHT SIDE
J18HA, J24HA, J30HA, J36HA	15"	20"
J42HA, J48HA, J60HA	20"	20"

Minimum Clearances Required to Combustible Materials

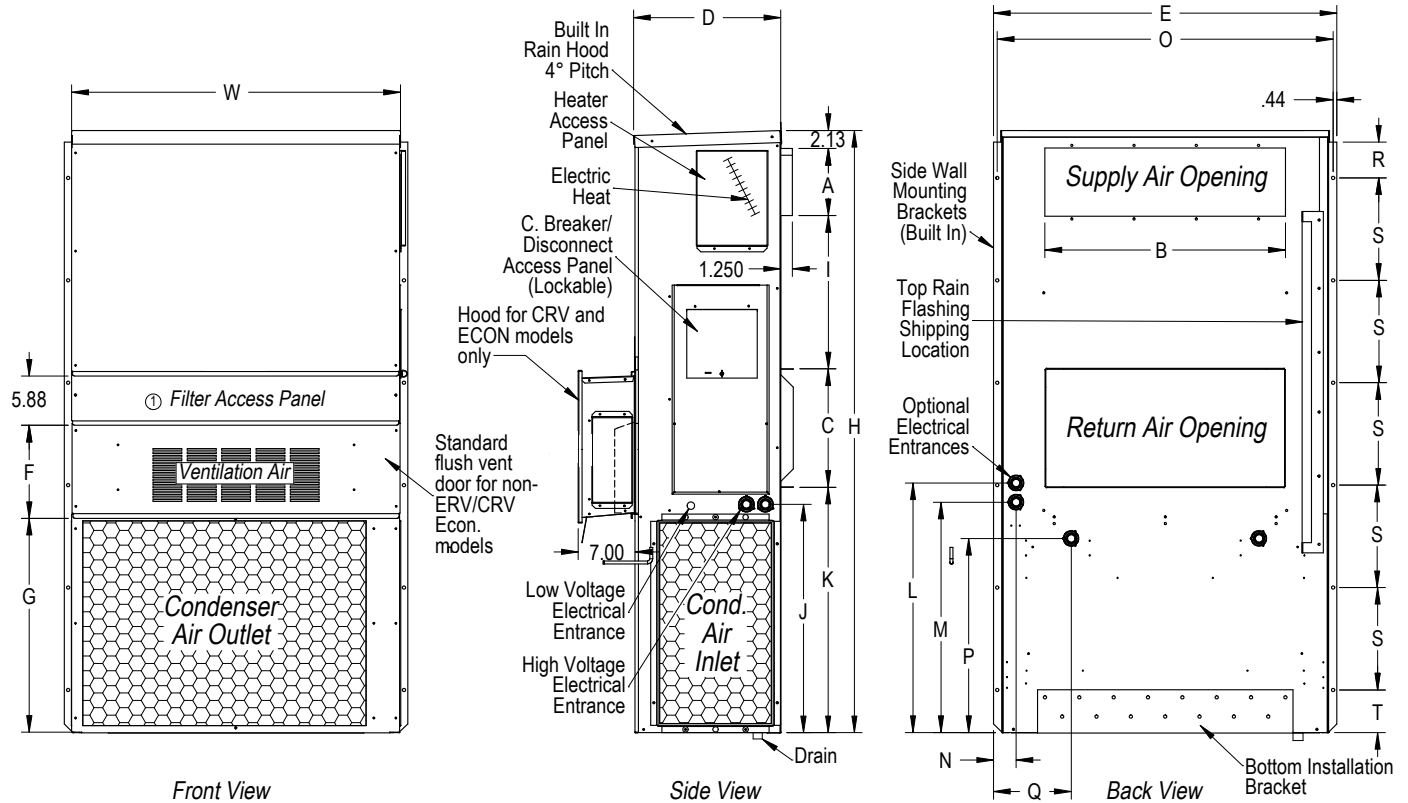
MODELS ①	SUPPLY AIR DUCT FIRST THREE FEET	CABINET
J18HA, J24HA	0"	0"
J30HA, J36HA	1/4"	0"
J42HA, J48HA, J60HA	1/4"	0"

① Refer to the Installation Manual for more detailed information.

Dimensions of W18-60H 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
J18HA J24HA	33.300	17.125	74.563	7.88	19.88	11.88	19.88	35.00	10.88	29.75	20.56	30.75	32.06	33.25	31.00	2.63	34.13	26.06	10.55	4.19	12.00	9.00
J30HA J36HA	38.200	17.125	74.563	7.88	27.88	13.88	27.88	40.00	10.88	29.75	17.93	30.75	32.75	33.25	31.00	2.75	39.13	26.75	9.14	4.19	12.00	9.00
J42HA J48HA	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
J60HA	42.075	22.432	93.000	9.88	29.88	15.88	29.88	43.88	13.56	37.00	30.00	40.81	35.06	42.81	40.56	3.37	43.00	31.00	10.00	1.44	16.00	10.00

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



MIS-3796

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

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"

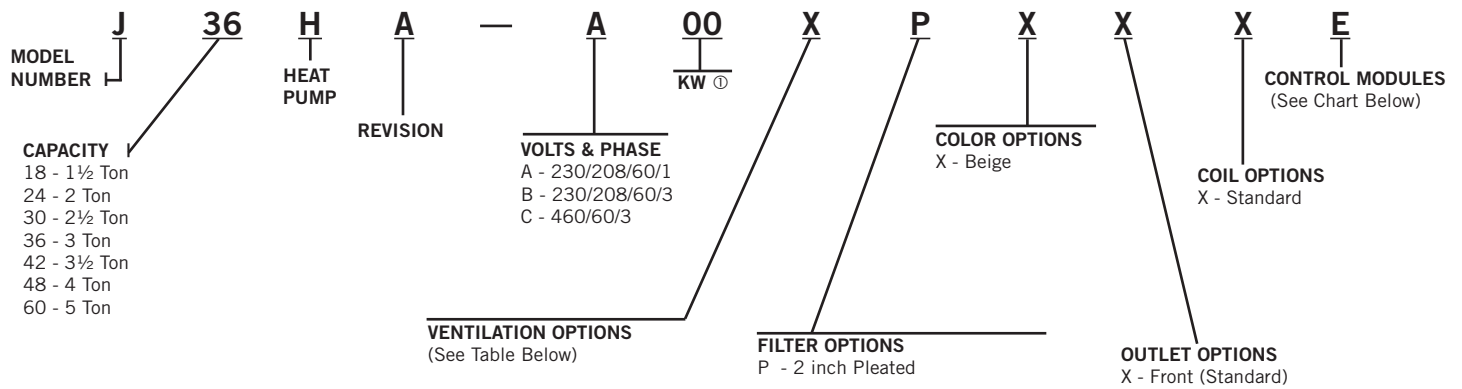
- Return air grille - Extruded aluminum with blades fixed at 45° angle.

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 5 for Field Installed Electric Heater options.

Ventilation Options

Models	J18HA, J24HA		J30HA, J36HA		J42HA, J48HA, J60HA	
	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 w/Plug, Temp Only (7" Hood)	Y	WECOPT2-X	Y	WECOPT3-X	Y	WECOPT5-X
Economizer - Equipment Bldg., Enthalpy (7" Hood)	Z	WECOPE2-X	Z	WECOPE3-X	Z	WECOPE5-X

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.



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.
S3533
April, 2016

Supersedes: **NEW**