



11EER J42AC-J60AC Series WALL-MOUNT™
10EER J72AC Series WALL-MOUNT™

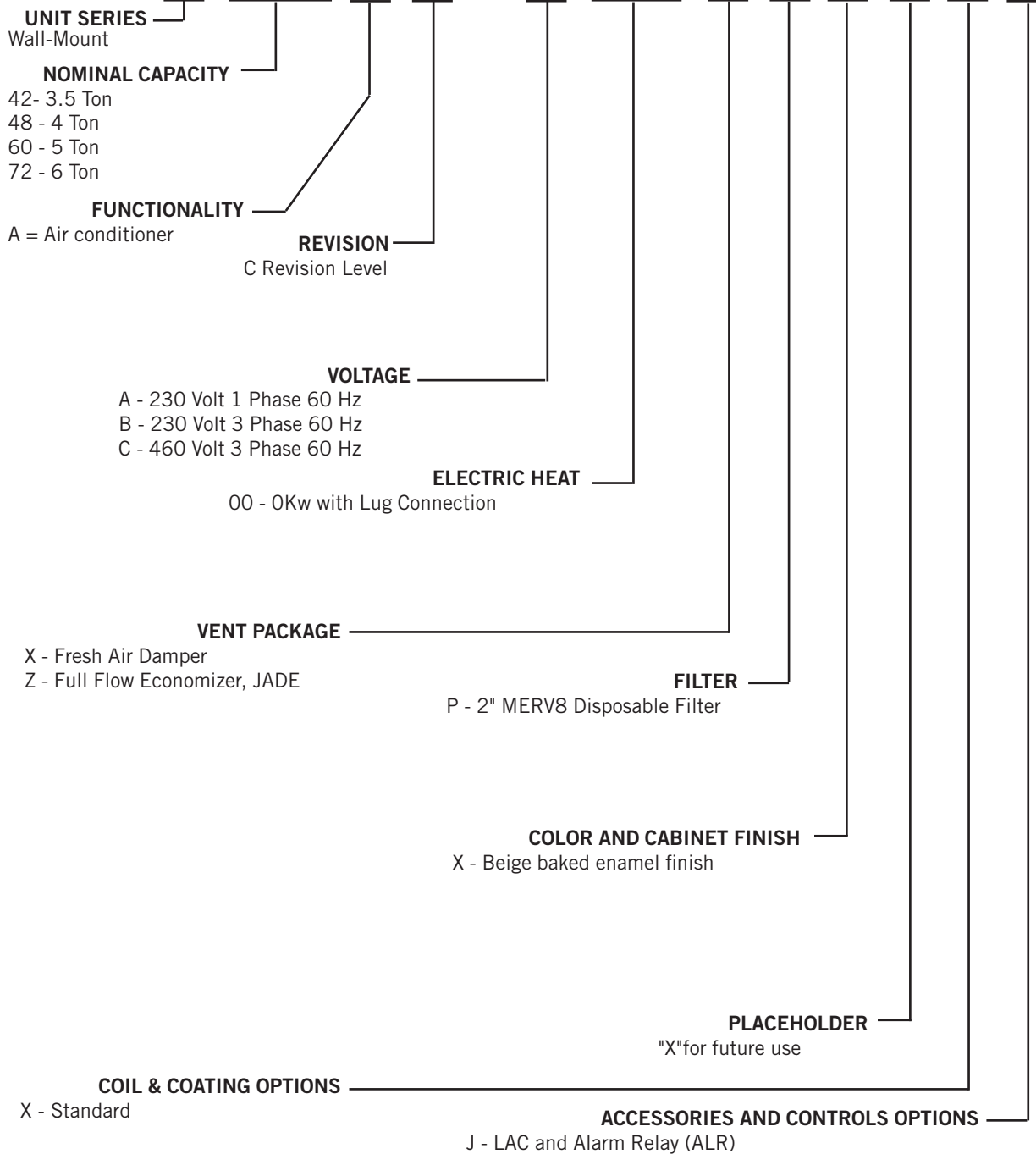
The Solair Wall-Mount Air Conditioner is an energy efficient self contained system, which is designed to offer maximum indoor comfort at a minimal cost without using valuable indoor floor space or outside ground space. This unit is the ideal product for versatile applications such as: new construction, modular offices, school modernization, telecommunication structures, portable structures, correctional facilities and many more. Factory or field installed accessories are available to meet specific job requirements for your unique application.

- Complies with efficiency requirements of ASHRAE/IESNA 90.1-2016
- Certified to ASNI/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
- Solair is an ISO 9001:2015 Certified Manufacturer



///// WALL-MOUNT NOMENCLATURE

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ENGINEERED FEATURES

NEW! EXCLUSIVE *Non-Fiberglass Foil Faced Insulation: Environmentally friendly high “R” value non-fiberglass insulation that is made with recycled denim and cotton materials used with a FSK foil face that is both durable and cleanable.

Durable Cabinet Construction: Multiple cabinet construction options are available for different outdoor conditions. Optional cabinet coatings may be ordered for corrosive outdoor environments. Front access control panel location.

Green Fin Hydrophilic Evaporator Coil: Green fin stock enhances coil wettability to help prevent mold growth, aid with condensate drainage, and provide a limited amount of protection to corrosive particulates in the air stream.

***Balanced Climate™ Technology (patent pending):** High latent capacity humidity & sound reduction removes up to 35% more humidity than any other wall mount on the market with the use of a 2 stage thermostat or controlling device. Solair Balanced Climate™ innovation comes standard on all models.

Field or Factory Installed Vents: Multiple ventilation options are available as easily installed kits with electrical plugs, or Factory installed options that can be removed for service. Economizer operation includes improved air path for minimized recirculation and does not require an intake hood.

Reliable, Easy-to-Use Controls: Easily accessible through front control panel locations. A lockable hinged access cover to circuit protection is provided. Phase rotation monitor is standard on all 3 phase models. Adjustable compressor on/off delay timer (CCM) with diagnostic lights is standard on all models.

ECM Indoor Motor Technology: 5 speed dual shaft motor provides quiet airflow operation when used with a twin blower assembly. Motor overload protection standard on all models.

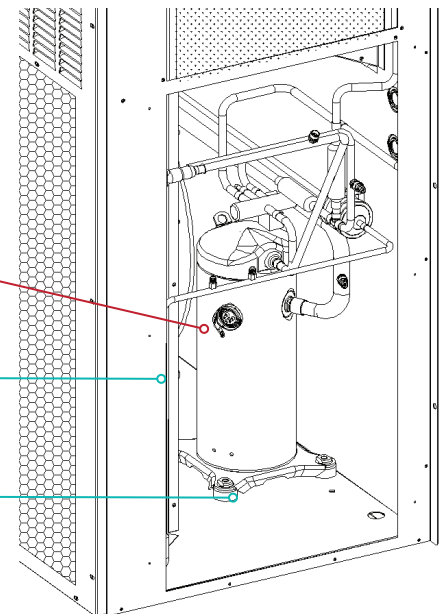
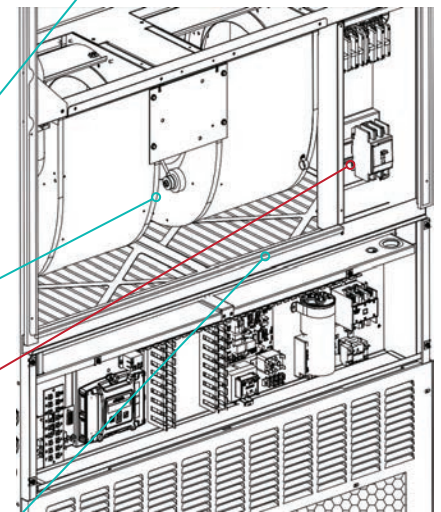
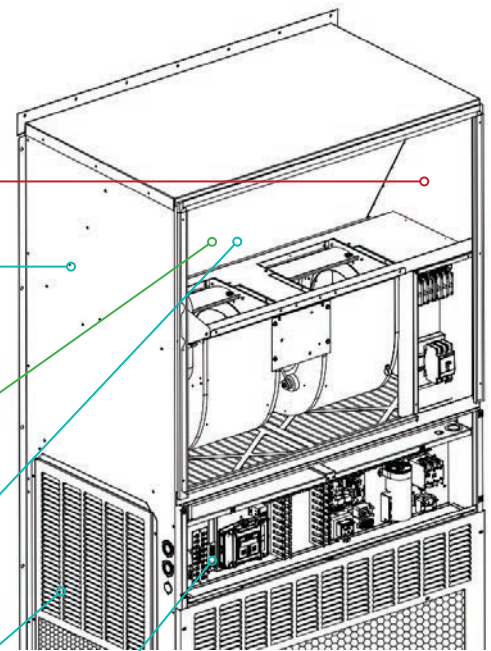
Electric Strip Heat: Reliable, comfortable heater packages feature an automatic limit and thermal cut-off safety control. Heater packages can be factory or field installed.

Easy Filter Access: A separate filter door is provided for ease of filter access during routine unit maintenance. MERV8 filters are available with a rating of MERV8.

Enclosed Condenser Motor: An enclosed casing condenser motor with ball bearings is used for reliable operation and extended motor life. Enclosed condenser motors are standard on all units.

Improved Condenser Coil Cleaning: Removable fan shroud side panels allow for easy condenser coil intake surface cleaning.

High Efficiency Cooling: Scroll compressors for quiet, efficient cooling. Designed with R-410A (HFC) non-ozone depleting refrigerant in compliance with the Montreal protocol and 2010 EPA requirements. A liquid line filter-drier to protect the system from moisture is standard on all units.



UNIT MODES OF OPERATION

Cooling Operation: The Solair WA Series WALL MOUNT products offer single stage cooling operation using R410A refrigerant. Copper tube/Aluminum hydrophilic green fin coils are used to provide high efficiency and easy serviceability. Scroll compressor technology delivers years of quiet, reliable operation.



Heating Operation: The Solair WA Series WALL MOUNT products offer optional single or two stage heating operation using resistance heaters. Circuit breaker disconnect protection is standard in all units equipped with electric heat.



Ventilation Operation: The Solair WA Series WALL MOUNT products offer optional ventilation operation that brings outdoor air into the structure. Vent options can be factory or field installed, and can be used to bring in outdoor air for occupants, save energy by using outdoor air for free cooling, or positively pressurize a structure. Exhaust air options allow room air to be vented outdoors when fresh air is being brought into the structure. Energy recovery options are also available for occupied structures which condition the air being brought in to save energy when ventilation is necessary regardless of outdoor temperature.



Balanced Climate™ Operation: Balanced Climate™ is a great comfort feature that can easily be applied under any normal circumstances. If you are setting up your Solair system to air condition in a typical environment where 72 degrees is your lowest cooling set-point, then remove the Y1/Y2 jumper, and install a two stage cooling thermostat. You will increase your humidity removal up to 35% and provide a much more comfortable environment.



If you intend air conditioning below 60° outdoor conditions, then just like any other system, a LAC kit must be installed.

If you are installing the unit with any ventilation package, a Solair LAC Kit must be installed. Failure to utilize a LAC with any air conditioner can cause coil freeze up.

Balanced Climate can readily be applied to Duct-Free (supply & return air grille) applications. It may also be applied to ducted applications with limited static of 0.20" ESP (total including both supply & return statics).

CAUTION: Balanced Climate is not a replacement for a dehumidification (hot gas reheat) unit for extreme applications, but rather an enhancement feature for limited climates and applications.

ADVANCED FEATURE DESCRIPTIONS

ECM Indoor Blower Motor: Energy efficient indoor brush-less DC blower motors use EC constant torque technology with 4 selectable pre-programmed speeds. By selecting the needed speed, the WALL MOUNT product can reduce or increase airflow. A NEMA48® frame enclosure is used. A high speed tap can be selected to offer the maximum CFM possible with the blower assembly.



Outdoor Fan Motor: Outdoor fan motors use ball bearing construction and are fully enclosed for increased life expectancy.

Non Fiberglass Cabinet Insulation: The WALL MOUNT products use advanced non-fiberglass insulation that is made with recycled denim materials. High "R" value, enhanced sound absorption, and reduced delamination are some of the features of this revolutionary product.



CAPACITY AND EFFICIENCY RATINGS

MODELS	J42AC	J48AC	J60AC	J72AC
Cooling Capacity BTUH ①	42,000	48,000	57,500	71,000
EER ②	11.0	11.0	11.0	10.0

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 3-1/2 TON THROUGH 6 TON

MODELS	J42AC-A	J42AC-B	J42AC-C	J48AC-A	J48AC-B	J48AC-C
Electrical Rating – 60 Hz	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
Compressor--Circuit A						
Voltage	230/208	230/208	460	230/208	230/208	460
Rated Load Amps	13.8/16.5	9.5/11.3	5.1	16.5/18.7	11.8/13.3	5.8
Branch Circuit						
Selection Current	19.9	13.6	6.1	21.8	14.5	6.3
Lock Rotor Amps	109/109	83.1/83.1	41	117/117	98/98	55
Compressor Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Fan Motor & Condenser						
Fan Motor--HP--RPM	1/3	1/3	1/3	1/3	1/3	1/3
Fan Motor--Amps	2.3	2.6	0.8	1.6	2.6	1.3
Fan--DIA/CFM	24" - 2900	24" - 2900	24" - 2900	24" - 3000	24" - 3000	
Blower Motor & Evap.						
Blower Motor—HP-SPD	1/3 Variable	1/3 Variable	1/3 Variable	1/3 Variable	1/3 Variable	1/3 Variable
Blower Motor—Amps	2.3	2.3	1.6	3.1	2.3	1.2
Motor Type	Constant Torque ECM	Constant Torque ECM	Constant Torque ECM	Constant Torque ECM	Constant Torque ECM	Constant Torque ECM
CFM Cooling & E.S.P. w/Filter (Rated-Wet Coil)	1350-.15	1350-.15	1350-.15	1550-.20	1550-.20	1550-.20
Filter Sizes (inches) STD., 2 required	20x20x1	20x20x1	20x20x1	20x20x1	20x20x1	20x20x1
Basic Unit Weight-LBS.	490	490	490	495	495	495
Barometric Fresh Air Damper (X)	13	13	13	13	13	13
Economizer (D, Z)	44	44	44	44	44	44

MODELS	J60AC-A	J60AC-B	J60AC-C	J72AC-A	J72AC-B	J72AC-C
Electrical Rating – 60 Hz	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
Compressor--Circuit A						
Voltage	230/208	230/208	460	230/208	230/208	460
Rated Load Amps	20.6/23.6	13.6/15.5	7.6	27.4/30.4	16.7/18.5	9.1
Branch Circuit						
Selection Current	24.4	16	7.8	37	22.5	10.6
Lock Rotor Amps	144/144	110/110	52	185/185	149/149	75
Compressor Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Fan Motor & Condenser						
Fan Motor--HP--RPM	1/3	1/3	1/3	1/2	1/2	1/2
Fan Motor--Amps	1.8	1.8	0.9	3.2	3.2	1.6
Fan--DIA/CFM	24" - 3100	24" - 3100	24" - 3100	24" - 4000	24" - 4000	24" - 4000
Blower Motor & Evap.						
Blower Motor—HP-SPD	3/4 Variable	1/2 Variable	1/2 Variable	3/4 Variable	3/4 Variable	3/4 Variable
Blower Motor—Amps	3.2	3.2	1.6	3.8	3.8	1.9
Motor Type	Constant Torque ECM	Constant Torque ECM	Constant Torque ECM	Constant Torque ECM	Constant Torque ECM	Constant Torque ECM
CFM Cooling & E.S.P. w/Filter (Rated-Wet Coil)	1750-.20	1750-.20	1750-.20	1900-.25	1900-.25	1900-.25
Filter Sizes (inches) STD., 2 required	20x20x1	20x20x1	20x20x1	20x20x1	20x20x1	20x20x1
Basic Unit Weight-LBS.	505	505	505	555	555	555
Barometric Fresh Air Damper (X)	13	13	13	13	13	13
Economizer (D, Z)	44	44	44	44	44	44

OPTIONAL SHIPPING CRATES

Optional crates are available to help protect your valuable WALL MOUNT investment during shipping. Constructed from OSB sheathing with steel corner posts, and sized for standard truck transportation. Treated for pests in accordance with the International Plant Protection Convention, Publication 15, Annex 1. Packaging is acceptable for international shipments.

CRATE NO.	UNITS USING CRATE	DESCRIPTION
TBD	J42AC, J48AC	Standard Unit Crate
TBD	J60AC, J72AC	Standard Unit Crate

COOLING APPLICATION DATA - OUTDOOR TEMPERATURE ①②

MODEL	RETURN AIR (DB/WB)	COOLING CAPACITY	75°F	80°F	85°F	90°F	95°F	100°F	105°F	110°F	115°F	120°F	125°F
J42	75/62	Total Cooling	44400	42400	40500	38500	36600	34800	33100	31300	29600	27900	26200
		Sensible Cooling	33900	33200	32300	31600	30800	30100	29300	28500	27700	27000	26100
	80/67	Total Cooling	47400	46200	44900	43500	42000	40500	39000	37300	35600	33800	31900
		Sensible Cooling	32900	32500	32000	31600	31100	30600	30000	29400	28800	28200	27500
	85/72	Total Cooling	56500	54000	51600	49100	46700	44300	42100	39700	37400	35100	32800
		Sensible Cooling	33700	33000	32200	31400	30500	29600	28600	27600	26500	25500	24400
J48	75/62	Total Cooling	51300	48800	46500	44100	41800	39700	37500	35300	33300	31200	29200
		Sensible Cooling	40300	39300	38200	37200	36200	35200	34200	33300	32400	31200	29200
	80/67	Total Cooling	54700	53200	51600	49800	48000	46200	44200	42100	40000	37800	35500
		Sensible Cooling	39100	38500	37800	37200	36500	35800	35100	34400	33700	33000	32300
	85/72	Total Cooling	65200	62200	59300	56200	53300	50600	47700	44800	42000	39300	36500
		Sensible Cooling	40100	39100	38000	37000	35800	34700	33500	32300	31100	29800	28600
J60	75/62	Total Cooling	61600	58500	55600	52700	50100	47600	45300	43000	40900	38900	36900
		Sensible Cooling	47200	45800	44400	43100	41900	40900	39800	38900	38000	37200	36500
	80/67	Total Cooling	65700	63700	61700	59600	57500	55500	53400	51300	49200	47100	45000
		Sensible Cooling	45800	44900	44000	43100	42300	41600	40800	40200	39500	38900	38400
	85/72	Total Cooling	78300	74500	70900	67300	63900	60700	57600	54600	51700	48900	46300
		Sensible Cooling	46900	45600	44200	42800	41500	40300	38900	37700	36400	35200	34000
J72	75/62	Total Cooling	76200	72100	68500	65000	61800	58900	56100	53600	51300	49000	47000
		Sensible Cooling	55800	54100	52400	50900	49500	48000	46800	45700	44600	43600	42700
	80/67	Total Cooling	81300	78600	76100	73500	71000	68600	66200	63900	61700	59400	57300
		Sensible Cooling	54100	53000	51900	50900	49900	48900	48000	47200	46400	45600	44900
	85/72	Total Cooling	96800	91900	87400	83000	78600	75000	71400	68000	64800	61700	58900
		Sensible Cooling	55400	53800	52100	50600	49000	47300	45800	44300	42700	41200	39700

- ① Low ambient control allows for compressor operation down to 0°F.
- ② Outdoor temperatures shown are measured at the condenser section air inlet.
- ③ Return air temperature °F.
- ④ Data shown is at default LO speed operation

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

R410A UNIT CHARGE RATES

UNIT	STD. UNIT - LBS.
J42AC	7.25
J48AC	7.38
J60AC	9.25
J72AC	9.50

////// BALANCED CLIMATE APPLICATION DATA (OPTIONAL, REQUIRES 2 STAGE COOLING THERMOSTAT)

MODEL	RETURN AIR (DB/WB)	COOLING CAPACITY	75°F	80°F	85°F	90°F	95°F	100°F	105°F	110°F	115°F	120°F	125°F
J42	75/62	Total Cooling	40900	39400	37900	36500	34800	33300	31700	30100	28500	26800	25100
		Sensible Cooling	28800	28200	27500	26800	26100	25400	24700	23900	23200	22500	21700
		Latent Cooling	12100	11200	10400	9700	8700	7900	7000	6200	5300	4300	3400
	80/67	% Latent Increase	13%	18%	21%	29%	33%	41%	46%	55%	64%	79%	97%
		Lbs. H2O per Hr.	11.42	10.57	9.811	9.151	8.208	7.453	6.604	5.849	5	4.057	3.208
		Total Cooling	43600	42900	42100	41200	40000	38800	37400	35900	34300	32500	30600
	85/72	Sensible Cooling	27900	27600	27200	26800	26300	25800	25300	24700	24100	23500	22800
		Latent Cooling	15700	15300	14900	14400	13700	13000	12100	11200	10200	9000	7800
		% Latent Increase	8%	10%	13%	17%	20%	24%	26%	29%	33%	38%	44%
J48	75/62	Lbs. H2O per Hr.	14.81	14.43	14.06	13.58	12.92	12.26	11.42	10.57	9.623	8.491	7.358
		Total Cooling	52000	50200	48400	46500	44500	42500	40300	38200	36100	33800	31500
		Sensible Cooling	28600	28000	27400	26600	25800	25000	24100	23200	22200	21300	20200
	80/67	Latent Cooling	23400	22200	21000	19900	18700	17500	16200	15000	13900	12500	11300
		% Latent Increase	3%	5%	8%	11%	13%	16%	17%	19%	22%	23%	26%
		Lbs. H2O per Hr.	22.08	20.94	19.81	18.77	17.64	16.51	15.28	14.15	13.11	11.79	10.66
	85/72	Total Cooling	49900	47000	44400	42000	39600	37500	35600	33800	32100	30500	29000
		Sensible Cooling	35200	33900	32700	31500	30400	29500	28600	27700	26900	26200	25500
		Latent Cooling	14700	13100	11700	10500	9200	8000	7000	6100	5200	4300	3500
J60	75/62	% Latent Increase	25%	27%	29%	34%	39%	44%	53%	67%	83%	100%	100%
		Lbs. H2O per Hr.	13.87	12.36	11.04	9.906	8.679	7.547	6.604	5.755	4.906	4.057	3.302
		Total Cooling	53200	51200	49300	47400	45500	43700	42000	40300	38600	36900	35300
	80/67	Sensible Cooling	34100	33200	32400	31500	30700	30000	29300	28600	28000	27400	26800
		Latent Cooling	19100	18000	16900	15900	14800	13700	12700	11700	10600	9500	8500
		% Latent Increase	18%	18%	18%	21%	22%	24%	28%	34%	41%	49%	62%
	85/72	Lbs. H2O per Hr.	18.02	16.98	15.94	15	13.96	12.92	11.98	11.04	10	8.962	8.019
		Total Cooling	63400	59900	56600	53500	50600	47800	45300	42900	40600	38400	36300
		Sensible Cooling	34900	33700	32600	31300	30100	29000	27900	26800	25800	24800	23700
J72	75/62	Latent Cooling	28500	26200	24000	22200	20500	18800	17400	16100	14800	13600	12600
		% Latent Increase	12%	12%	11%	14%	15%	15%	18%	22%	26%	30%	37%
		Lbs. H2O per Hr.	26.89	24.72	22.64	20.94	19.34	17.74	16.42	15.19	13.96	12.83	11.89
	80/67	Total Cooling	58100	55200	52400	49900	47500	45300	43300	41400	39600	38000	36500
		Sensible Cooling	40700	39300	38000	36800	35700	34700	33700	32900	32100	31300	30800
		Latent Cooling	17400	15900	14400	13100	11800	10600	9600	8500	7500	6700	5700
	85/72	% Latent Increase	17%	20%	22%	27%	31%	37%	43%	52%	61%	75%	93%
		Lbs. H2O per Hr.	16.42	15	13.58	12.36	11.13	10	9.057	8.019	7.075	6.321	5.377
		Total Cooling	62000	60100	58200	56400	54500	52800	51100	49400	47700	46100	44500
J72	75/62	Sensible Cooling	39500	38500	37600	36800	36000	35300	346	34000	33400	32800	32400
		Latent Cooling	22500	21600	20600	19600	18500	17500	16500	15400	14300	13300	12100
		% Latent Increase	12%	13%	14%	16%	18%	21%	24%	28%	32%	38%	45%
	80/67	Lbs. H2O per Hr.	21.23	20.38	19.43	18.49	17.45	16.51	15.57	14.53	13.49	12.55	11.42
		Total Cooling	73900	70300	66800	63700	60500	57800	55100	52600	50100	47900	45800
		Sensible Cooling	40500	39100	37800	36600	35300	34200	33000	31900	30800	29600	28700
	85/72	Latent Cooling	33400	31200	29000	27100	25200	23600	22100	20700	19300	18300	17100
		% Latent Increase	6%	7%	8%	10%	11%	14%	15%	18%	21%	25%	28%
		Lbs. H2O per Hr.	31.51	29.43	27.36	25.57	23.77	22.26	20.85	19.53	18.21	17.26	16.13
J72	75/62	Total Cooling	70500	67400	64400	61600	58800	56200	53600	51200	48900	46700	44500
		Sensible Cooling	46700	45700	44600	43500	42400	41300	40100	38900	37800	36600	35300
		Latent Cooling	23800	21700	19800	18100	16400	14900	13500	12300	11100	10100	9200
	80/67	% Latent Increase	14%	17%	19%	22%	25%	27%	31%	36%	40%	47%	53%
		Lbs. H2O per Hr.	22.45	20.47	18.68	17.08	15.47	14.06	12.74	11.6	10.47	9.528	8.679
		Total Cooling	75300	73400	71500	69600	67500	65500	63300	61100	58900	56600	54200
	85/72	Sensible Cooling	45300	44800	44200	43500	42800	42000	41100	40200	39300	38300	37200
		Latent Cooling	30000	28600	27300	26100	24700	23500	22200	20900	19600	18300	17000
		% Latent Increase	9%	10%	11%	13%	15%	16%	18%	20%	22%	25%	27%
85/72	Lbs. H2O per Hr.	28.3	26.98	25.75	24.62	23.3	22.17	20.94	19.72	18.49	17.26	16.04	
	Total Cooling	89700	85800	82100	78600	75000	71600	68300	65000	61900	58800	55800	
	Sensible Cooling	46400	45500	44400	43200	42000	40600	39200	37700	36200	34600	32900	
85/72	Latent Cooling	43300	40300	37700	35400	33000	31000	29100	27300	25700	24200	22900	
	% Latent Increase	4%	5%	6%	8%	9%	11%	12%	13%	14%	15%	16%	
	Lbs. H2O per Hr.	40.85	38.02	35.57	33.4	31.13	29.25	27.45	25.75	24.25	22.83	21.6	

- ① Low ambient operation disables Balanced Climate Operation.
- ② Outdoor temperatures shown are measured at the condenser section air inlet.
- ③ Return air temperature °F.
- ④ % Latent increase is a comparison to non-Balanced Climate unit operation.

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

///// INDOOR AIRFLOW CFM @ STATIC PRESSURES - EC BLOWER CONSTANT TORQUE MOTOR WITH ADJUSTMENT SPEEDS

ESP	J42AC BLOWER TAPS - DRY/WET COIL CFM					J48AC BLOWER TAPS - DRY/WET COIL CFM				
	In H2O	Blower and Vent Only	Balanced Climate	Default LO Cooling and Heating	Optional MED Cooling and Heating	Optional HI Cooling and Heating	Blower and Vent Only	Balanced Climate	Default LO Cooling and Heating	Optional MED Cooling and Heating
0"	1510/1495	1345/1190	1510/1495	1740/1650	1815/1750	1795/1685	1370/1305	1795/1685	1895/1850	2000/1920
.1"	1445/1415	1120/1025	1445/1415	1660/1600	1740/1675	1730/1625	1270/1200	1730/1625	1845/1765	1940/1850
.15"	1410/1375	1020/950	1410/1375	1620/1565	1700/1635	1690/1590	1220/1145	1690/1590	1815/1725	1905/1815
.2"	1370/1325	930/875	1370/1325	1580/1530	1660/1600	1655/1555	1165/1095	1660/1600	1785/1685	1870/1780
.3"	1280/1230		1280/1230	1490/1440	1575/1515	1575/1485		1575/1515	1715/1610	1800/1710
.4"	1175/1120		1175/1120	1400/1330	1490/1430	1485/1405		1490/1430	1635/1540	1730/1635
.5"	1055/1000		1055/1000	1310/1205	1400/1345	1390/1325		1400/1325	1550/1475	1655/1560

ESP	J60AC BLOWER TAPS - DRY/WET COIL CFM					J72AC BLOWER TAPS - DRY/WET COIL CFM				
	In H2O	Blower and Vent Only	Balanced Climate	Default LO Cooling and Heating	Optional MED Cooling and Heating	Optional HI Cooling and Heating	Blower and Vent Only	Balanced Climate	Default LO Cooling and Heating	Optional MED Cooling and Heating
0"	1960/1870	1540/1480	1960/1870	2085/1985	2160/2065	2140/2065	1675/1605	2140/2065	2210/2155	2265/2195
.1"	1880/1815	1365/1320	1880/1815	2005/1925	2070/1985	2080/2005	1515/1455	2080/2005	2160/2085	2215/2140
.15"	1840/1785	1285/1245	1840/1785	1970/1895	2025/1950	2050/1975	1445/1390	2050/1975	2135/2055	2190/2110
.2"	1805/1760	1215/1180	1805/1760	1935/1865	1990/1915	2020/1945	1380/1330	2020/1945	2105/2025	2165/2080
.3"	1735/1700		1735/1700	1870/1810	1920/1855	1960/1885		1960/1885	2050/1965	2110/2020
.4"	1675/1635		1675/1635	1815/1750	1865/1800	1900/1825		1900/1825	1985/1905	2050/1965
.5"	1625/1570		1625/1570	1770/1700	1820/1755	1840/1765		1840/1765	1920/1855	1985/1905

Five factory programmed speed taps (torque settings) are available for the indoor blower motor, and are selected through different unit modes of operation. These modes are energized by 24VAC signals from the low voltage terminal block located inside the control panel by a thermostat or other controlling device.

1. Blower and Ventilation Only Speed is the CFM amount for continuous fan and ventilation without a call for cooling.
2. Balanced Climate Speed is the indoor CFM amount for user selectable Balanced Climate operation and optional Mechanical Dehumidification. To use Balanced Climate, remove the jumper between Y1 and Y2 on the low voltage terminal strip. A 2 stage cooling thermostat is then used to control blower airflow stages. Be sure to follow all guidelines provided in the installation manual. A controls kit that includes a low ambient control (LAC) must be used for Balanced Climate Operation if ventilation options are to be used or cooling operation will occur below a 60° outdoor temperature. Balanced Climate can be used for duct free and ducted applications below 0.20"WC ESP total static. Balanced Climate provides increased moisture removal during the cooling cycle, but is not a replacement for optional mechanical dehumidification. Optional mechanical dehumidification provides moisture removal without significantly cooling the space being conditioned. Mechanical dehumidification is highly recommended for applications requiring indoor humidity control for schools, public areas, agricultural, pharmaceutical, and areas with high outdoor humidity and varying indoor heat load.
3. Default LO Cooling and Heating Speed is the indoor CFM amount for cooling operation using the default blower speed tap selection. This speed is labeled as LO on the speed selection terminal strip inside the unit control panel. All units ship with cooling and heating operation at LO cooling and heating speed, and provides the optimal airflow amount for normal use.
4. Optional MED Cooling and Heating Speed is selected manually during unit setup and provides a higher indoor CFM for hi static duct applications and increased airflow. This speed is labeled as MED on the speed selection terminal strip inside the unit control panel.
5. Optional HI Cooling and Heating Speed is selected manually during unit setup and provides the highest allowable indoor CFM amount. Not recommended for standard unit operation. This speed is labeled as HI on the speed selection terminal strip inside the unit control panel.

////// SOUND DATA - DBA @ 5 FT. AND 10 FT.*

DUCT FREE	INDOOR COOLING OPERATION @ 5 FT.			INDOOR COOLING OPERATION @ 10 FT.			OUTDOOR @ 10 FT.
Unit	Standard Grilles	With WMICF	With WMICF and WAPR-11	Standard Grilles	With WMICF	With WMICF and WAPR-11	Standard Features
J42AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD
J48AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD
J60AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD
J72AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD

DUCTED SUPPLY	INDOOR COOLING OPERATION @ 5 FT.			INDOOR COOLING OPERATION @ 10 FT.			OUTDOOR @ 10 FT.
Unit	Standard Grilles	With WMICF	With WMICF and WAPR-11	Standard Grilles	With WMICF	With WMICF and WAPR-11	Standard Features
J42AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD
J48AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD
J60AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD
J72AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD

////// ELECTRICAL SPECIFICATIONS — W**AC SERIES

MODEL	Rated Volts & Phase	No. Field Power Circuits	Single Circuit				Multiple 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. C	Ckt. A	Ckt. B	Ckt. C	Ckt. A	Ckt. B	Ckt. C	Ckt. A	Ckt. B	Ckt. C		
J42AC-A00, A0Z A05 A10 A15 A20	230/208-1	1	31	50	8	10														
		1	31	50	8	10														
		1	57	60	6	10														
		1 or 2	83	90	4	8	57	26		60	30		6	10		10	10			
		1 or 2	109	125	2	6	57	52		60	60		6	6		10	10			
J42AC-B00, B0Z B06 B09 B15 B18	230/208-3	1	23	35	8	10														
		1	23	35	8	10														
		1	32	35	8	10														
		1	51	60	6	10														
		1	60	60	6	10														
J42AC-C00, C0Z C09 C15	460-3	1	12	15	14	14														
		1	17	20	12	12														
		1	26	30	10	10														
J48AC-A00, A0Z A05 A10 A15 A20	230/208-1	1	35	50	8	10														
		1	35	50	8	10														
		1	59	60	6	10														
		1 or 2	85	90	4	8	59	26		60	30		6	10		10	10			
		1 or 2	111	125	2	6	59	52		60	60		6	6		10	10			
J48AC-B00, B0Z B06 B09 B15 B18	230/208-3	1	26	35	8	10														
		1	26	35	8	10														
		1	33	35	8	10														
		1	51	60	6	10														
		1	60	60	6	10														
J48AC-C00, C0Z C09 C15	460-3	1	12	15	14	14														
		1	17	20	12	12														
		1	26	30	10	10														
J60AC-A00, A0Z A05 A10 A15 A20	230/208-1	1	38	60	8	10														
		1	38	60	8	10														
		1	59	60	6	10														
		1 or 2	85	90	3	8	59	26		60	30		6	10		10	10			
		1 or 2	111	125	2	6	59	52		60	60		6	6		10	10			
J60AC-B00, B0Z B06 B09 B15 B18	230/208-3	1	28	40	8	10														
		1	28	40	8	10														
		1	34	40	8	10														
		1	52	60	6	10														
		2	N/A	N/A	N/A	N/A	34	28		40	30		8	10		10	10			
J60AC-C00, C0Z C09 C15	460-3	1	14	20	12	12														
		1	18	20	12	12														
		1	26	30	10	10														
J72AC-A00, A0Z A05 A10 A15 A20	230/208-1	1	56	60	6	10														
		1	56	60	6	10														
		1 or 2	60	70	6	8	56	26		60	30		6	10		10	10			
		1 or 2	86	90	3	8	56	52		60	60		6	6		10	10			
		1 or 2	112	125	2	6	56	52		60	60		6	6		10	10			
J72AC -B00, B0Z B06 B09 B15 B18	230/208-3	1	38	45	8	10														
		1	38	45	8	10														
		1	38	45	8	10														
		1	53	60	6	10														
		2	N/A	N/A	N/A	N/A	38	28		40	30		8	10		10	10			
J72AC-C00, C0Z C09 C15	460-3	1	18	25	10	10														
		1	18	25	10	10														
		1	27	30	10	10														

① Maximum size of the time delay fuse or circuit breaker for protection of field wiring conductors.
 ② Based on 75°C 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 current carrying conductors are in a raceway.

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.

HEATER PACKAGES - FIELD INSTALLED "C" SERIES UNITS

- Designed for adding Electric Heat to 0 KW Units
- ETL US & Canada Listed
- Circuit Breaker Standard on 230/208V Models
- 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
J42AC J48AC	EHWA48C-A05	5	EHWA42C-B06	6	EHWA48C-C09 EHWA42C-C15	9 15
	EHWA42C-A10	10	EHWA42C-B09	9		
	EHWA42C-A15	15	EHWA42C-B15	15		
	EHWA42C-A20	20	EHWA42C-B18	18		
J60AC	EHWA60C-A10	10	EHWA42C-B06	6	EHWA60C-C09 EHWA60C-C15	9 15
	EHWA60C-A15	15	EHWA42C-B09	9		
	EHWA60C-A20	20	EHWA42C-B15	15		
				EHWA42C-B18		
J72AC	EHWA72C-A05	5	EHWA72C-B06	6	EHWA60C-C09 EHWA60C-C15	9 15
	EHWA72C-A10	10	EHWA72C-B09	9		
	EHWA72C-A15	15	EHWA72C-B15	15		
	EHWA72C-A20	20	EHWA72C-B18	18		

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	KW	KW	3-PH AMPS	KW	KW	3-PH AMPS	KW
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.

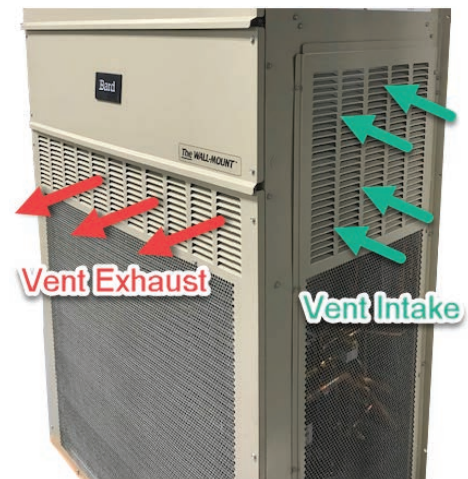
C SERIES WALL MOUNT™ VENTILATION OPTION SELECTION CHART

VENT CODE	FIELD INSTALL KIT	UNIT	OPERATION	DESCRIPTION
X	FAD-NE5	J42AC, J48AC, J60AC, J72AC	Barometric	Air damper provides slight positive room pressure during blower operation, No room air exhaust.
Z	ECON-WD5*	J42AC, J48AC, J60AC, J72AC	JADE Controller	Full flow Economizer that uses the JADE controller and included sensors to operate free cooling. Enthalpy or Dry Bulb operation user selectable. No intake hood required.

////// WALL MOUNT™ VENTILATION OPTIONS SPECIFICATIONS

“X” Vent Code Option – Standard Fresh Air Damper No Exhaust (FAD-NE)

The barometric fresh air damper without exhaust 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. The room exhaust air path is sealed with an insulated block-off plate.

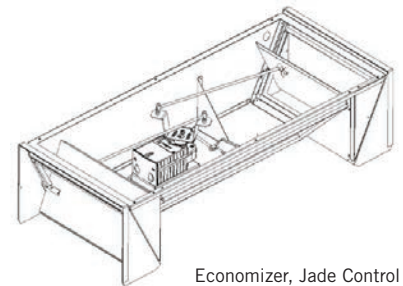


Commercial Room Ventilator- Airpath

////// WALL MOUNT™ VENTILATION OPTIONS SPECIFICATIONS (continued)

“Z” Vent Code Option – Economizers with JADE® Controller (ECON-WD)

The JADE controlled economizer is internally mounted behind the service door and allows outside ventilation air. The ECON-WD allows up to 100% of the total airflow rating of the unit. Both include 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 provides lower operating costs, extended equipment life, and cooling operation down to -40°F outdoor temperatures.



Economizer, Jade Control

“Z” Vent Code Option – (ECON-WD) JADE® Controller Information

JADE Economizer controls provide Demand Ventilation Control, operational checkout, an easy to read LCD screen, configurable freeze protection, and LCD displayed economizer component failure alarms. Minimum vent position, occupancy ventilation, and 0-10V CO2 input is available for use with select CO2 room sensors. When used with a Solair economizer assembly, the JADE controller is able to meet most state and local codes for economizer use.

JADE Controller Specifications:

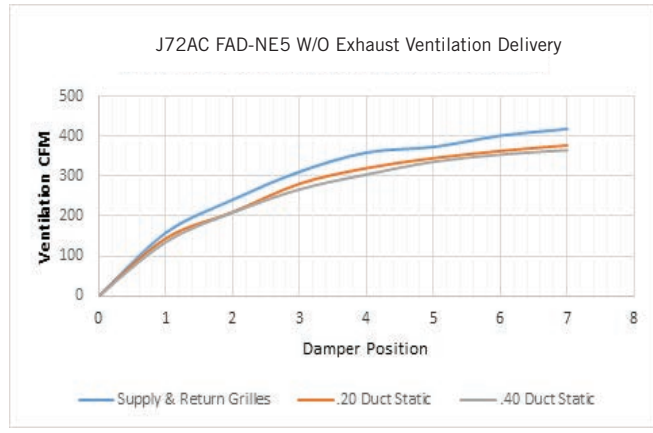
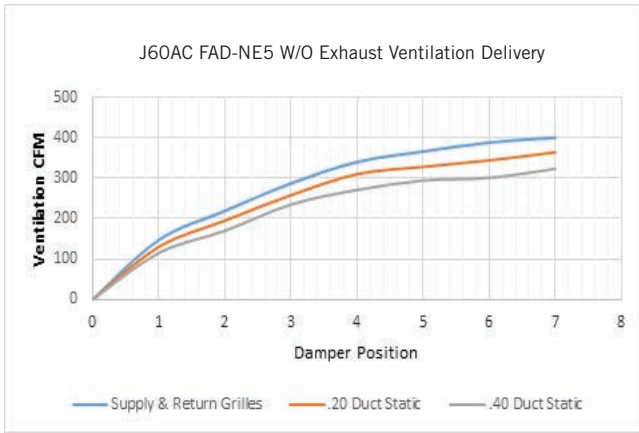
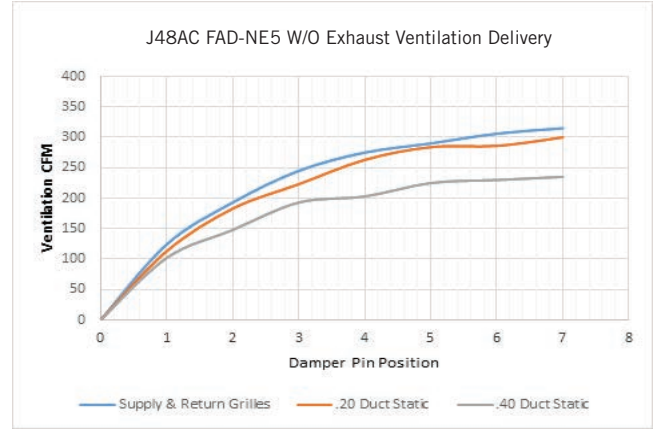
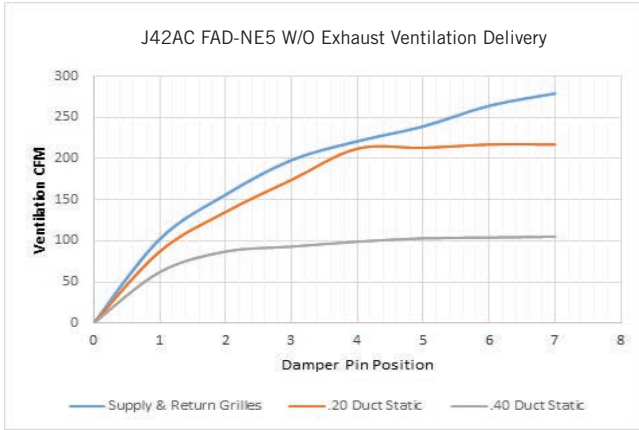
- Operating Humidity Range (% RH) 5 to 95% RH, non-condensing
- Contact Ratings 30 VAC-- 1.5 A Run, 3.5 A Inrush
- Voltage 20 to 30 VAC RMS
- Operating Temperature Range (F) -40 F to +150 F
- Operating Temperature Range (C) -40 C to +65 C
- Approvals, Federal Communications Commission Compliant
- Approvals, CE Compliant
- Complies with California Title 24
- Mixed air and Outdoor Enthalpy Sensor using Sylk Bus.
- Output 2-10 VDC to actuator, Sylk Bus.



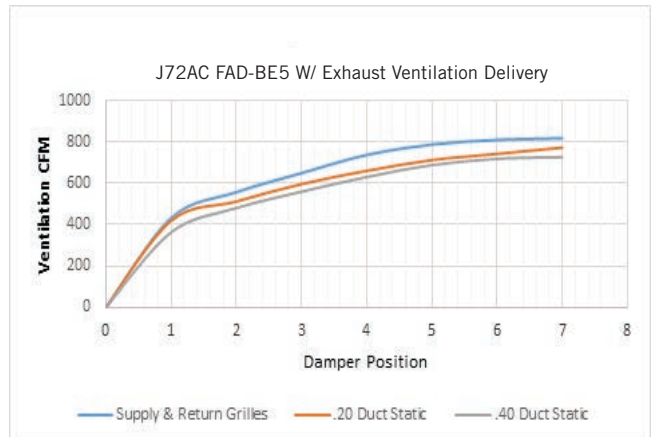
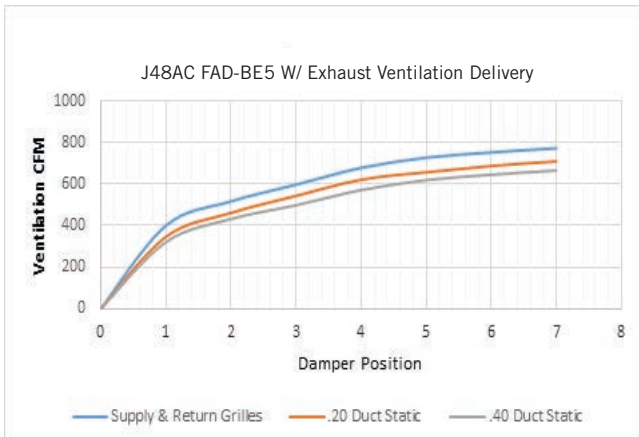
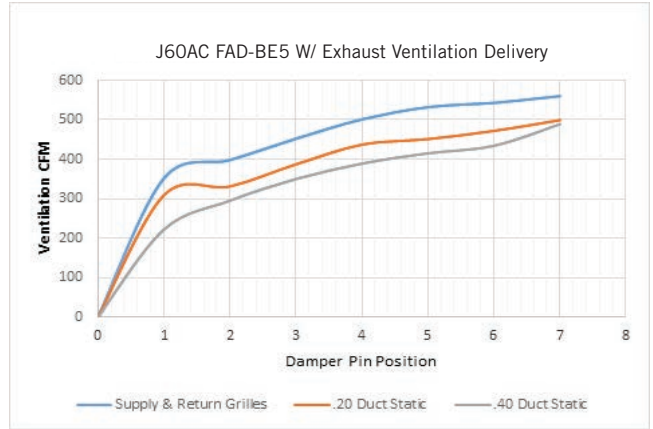
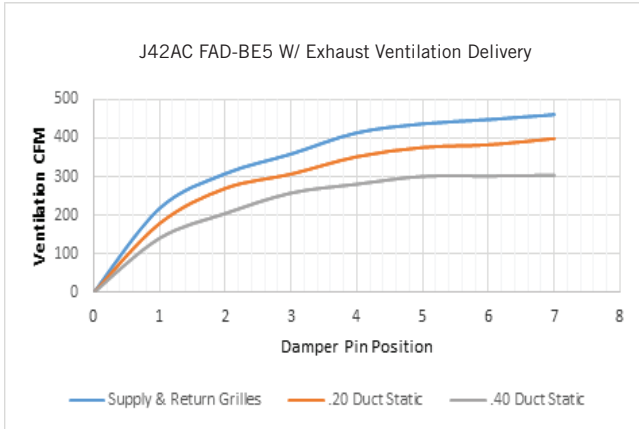
Jade Control Module

WALL MOUNT™ BAROMETRIC DAMPER (FAD) PERFORMANCE

“X” (FAD-NE5 and FAD-NE5) Barometric Damper Without Exhaust Vent Code Options

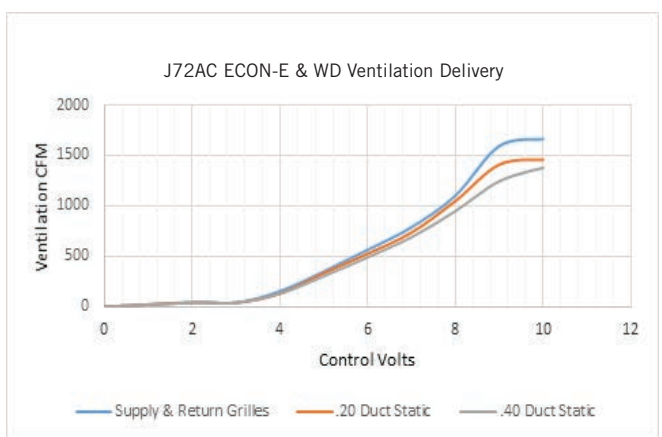
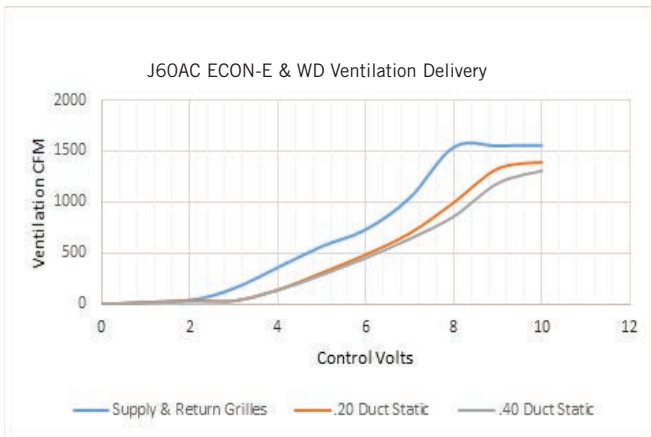
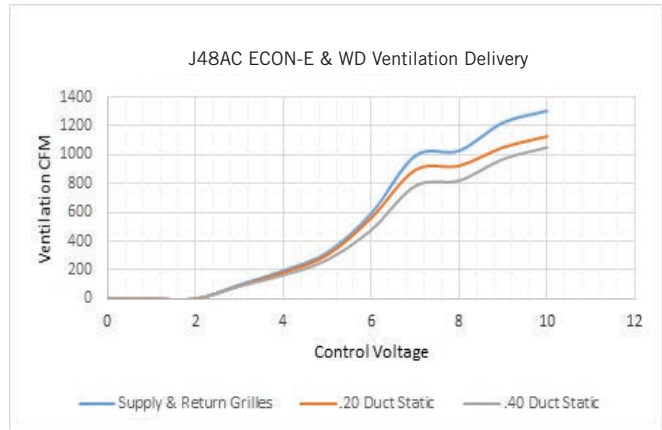
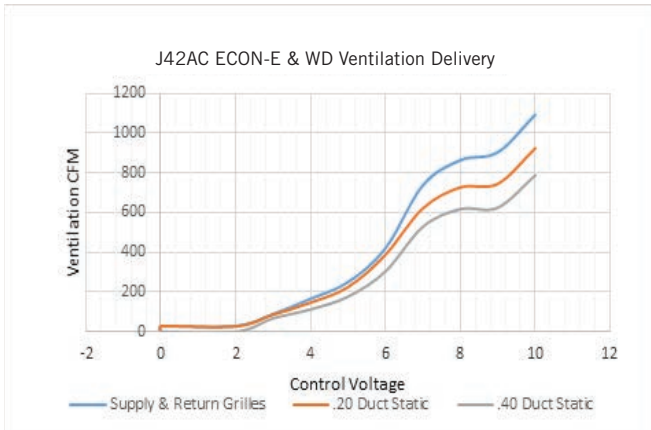


“A” (FAD-BE5 and FAD-BE5) Barometric Damper With Exhaust Vent Code Options



////// WALL MOUNT™ ECONOMIZER AIRFLOW PERFORMANCE

“Z” (ECON-WD) Vent Code Options



////// CABINET AND COIL OPTIONS

Cabinet Finish Options

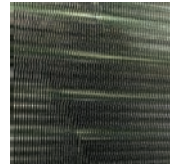
Unit models are available in Beige. Painted cabinet construction is comprised of 20 gauge Zinc coated steel. Parts are cleaned, rinsed, sealed, and dried before a polyurethane primer is applied. The cabinet coating is completed with a baked on textured enamel. The resulting finish is designed to withstand 1000 hours of salt spray tests per ASTM B117-03.



X—Beige

Green Fin Hydrophilic Evaporator Coils Standard On All Units

Solair WALL MOUNT products include a green protective coating applied to the aluminum fin stock used for the evaporator coil. The evaporator coil coating is hydrophilic (attracts water) and allows for proper condensate drainage along with mild corrosion protection. Resistance to corrosive agents include ammonia, sodium hydroxide, sodium chloride, acidic solutions and solvents.



Hydrophilic
Green Coil
(Standard)

////// WALL MOUNT™ FACTORY INSTALLED CONTROLS OPTIONS

Factory installed controls are provided by Solair to enhance a WALL MOUNT product before it is shipped. All WALL MOUNT products are shipped with a auto-reset high pressure switch and an auto-reset low pressure switch to help protect refrigeration components. A compressor control module with adjustable voltage protection, delay on make and break, and high/low pressure diagnostics is also standard

CONTROL CODE	DESCRIPTION OF FACTORY INSTALLED COMPONENTS
X	Hi Pressure Switch, Low Pressure Switch, Compressor Control Module.

////// WALL MOUNT™ FIELD INSTALLED KITS

Field installed kits provide accessories that can be installed in the field. Required components, wires, enclosures, screws, and instructions that are needed are provided within the kit.

CONTROL CODE	KIT PART NO.	UNITS USING KIT	DESCRIPTION OF FIELD INSTALLED KIT
NA	CMC-32	J42AC, J48AC, J60AC, J72AC	PTCR Start Kit. Increases starting torque by 2 to 3x. 230V-60hz-1 phase (A voltage) only. Cannot be used in combination with SK start kit
NA	CMA-39	J42AC, J48AC, J60AC, J72AC	Low Ambient Control allows compressor cooling between 0°F and 50°F outdoor temp. - fan cycling

////// 24VAC LOW VOLTAGE TERMINAL DESIGNATIONS

Solair WALL MOUNT products provide 24VAC power to controllers and thermostats. They also are able to receive 24VAC signals from a controlling device. The V controls option provides additional sensors for use with a field supplied DDC controls systems. The information below provides terminal designations and how they are used in the WALL MOUNT unit. More information on low voltage connections and operational sequences is provided in the unit installation manual.

Terminal	Unit	Description
R	All Units	24VAC low voltage output (HOT Terminal)
RT	All Units	RT terminal has jumper to R terminal. When jumper is removed, R and RT can be used with normally closed contacts for fire/smoke detector for unit shutdown.
C	All Units	Ground Terminal
G	All Units	Indoor fan input
Y1	All Units	1st Stage cooling input. Economizer stage when used. Balanced Climate stage when used. Remove jumper between Y1 and Y2 for 2 stage blower operation.
Y2	All Units	2nd Stage cooling input. Compressor cooling stage when Econ or Balanced Climate is used.
B/W1	All Units	1st Stage electric heat
W2	All Units	2nd State electric heat. Jumper between W1 and W2 must be removed for staged heat
A	Vent option units only	Ventilation option input. Calls for occupied vent air intake for CRV, ERV, ECON
D	Dehum. units only	Dehumidification input on units equipped with mechanical reheat dehumidification
L	All Units	24VAC Alarm active output
1	C, J, M, V Control Opt.	Alarm relay Normally Closed Contract
2	C, J, M, V Control Opt.	Alarm relay Normally Open Contact
3	C, J, M, V Control Opt.	Alarm Relay Common Contact
9	V Controls Option Only	Discharge Air Sensor, 10K ohm
10	V Controls Option Only	Discharge Air Sensor, 10K ohm
11	G, V Control Options	Filter Switch, Normally Open Contacts
12	G, V Control Options	Filter Switch, Normally Open Contacts
13	V Controls Option Only	Blower Airflow Switch, Normally Open Contacts
14	V Controls Option Only	Blower Airflow Switch, Normally Open Contacts
15	V Controls Option Only	Compressor Current Sensor, Normally Open Contacts
16	V Controls Option Only	Compressor Current Sensor, Normally Open Contacts

//////// OPTIONAL CONTROLS AND KIT COMPONENT DEFINITIONS

Hi Pressure Control (HPC) - The high pressure control provides a means of protecting the refrigeration circuit when high system pressures occur. It is a auto-reset device that is connected to the Compressor Control Module. When activated, the compressor is disabled until pressures reach an acceptable level. If activated twice in the same cooling call, compressor operation is locked out until the cooling call is interrupted.

Low Pressure Control (LPC) - The low pressure control provides a means of protecting the refrigeration circuit when extremely low system pressures occur. It is a auto-reset device that is connected to the Compressor Control Module. When activated, the compressor is disabled until pressures reach an acceptable level.

Compressor Control Module (CCM) - The compressor control module locks out compressor operation to protect the refrigeration system based on signals from the hi and low pressure switches. It provides diagnostics to indicate when a refrigerant pressure event occurs, and also sends a signal to the alarm relay. Low incoming unit power protection suspends compressor operation when incoming voltage is too low. Suspending compressor operation avoids reverse scroll operation. The low voltage feature is adjustable or can be disabled. An adjustable delay on break timer is provided. Delay on make is 2 mins. plus 10% of delay on break setting.

Alarm Relay (ALR) - The alarm relay provides a set of NO and NC pilot duty contacts that operate when the compressor control module locks out compressor operation because of a high or low system refrigerant pressure event.

Low Ambient Control (LAC) - The low ambient control pressure sensor is attached to the suction line of the system, and monitors low side system pressure. Operation of the LAC occurs as outdoor temperatures drop below the 60°F. On/Off and modulating controls are used. On/Off LAC operation cycles the condenser fan operation based on outdoor temperature. Modulating LAC operation is factory adjusted and slows the condenser fan speed RPM based on outdoor temperature.

PTCR Start Kit - PTCR (Precision Temperature Coefficient Resistor) start kit includes the start device and wires needed for installation. The device is located inside the unit control panel near the compressor capacitor and provides an increase in starting torque. The PTCR Start Kit is not normally required when a clean, stable power source is available for the unit. The kit can only be used in 230 Volt single phase units.

Start Capacitor and Potential Relay Start Kit - The kit includes a start capacitor and relay that is energized during startup of the compressor. The capacitor, relay, and needed wires are provided in a metal enclosure that is field installed in the outdoor section attached to the back. The Start Capacitor Kit is not normally required when a clean, stable power source is available for the unit. The kit can only be used in 230 Volt single phase units. Start capacitor kit cannot be used with the PTCR start kit installed.

////// CABINET AND CLEARANCE DIMENSIONS - W**AC SERIES UNITS

CLEARANCES REQUIRED FOR SERVICE ACCESS AND ADEQUATE CONDENSER INLET AIRFLOW

MODELS	LEFT SIDE	RIGHT SIDE
J42AC, J48AC, J60AC, J72AC	20"	20"

- 1.) Follow all national, state, and local codes and regulations regarding the installation of heating and cooling equipment regarding Single Packaged Vertical Units (SPVU) including electrical access clearances.
- 2.) Field ventilation installation with the unit installed requires 40" on the left or right side of the unit.
- 3.) Solair recommends a minimum of 10 ft. between the unit front condenser air outlet and solid objects including fences, walls, bushes, and other airflow obstructions.
- 4.) Solair recommends a minimum of 15 ft. between the condenser air outlets of 2 units that are facing each other.
- 5.) Solair recommends a minimum clearance of 4" under the unit cabinet for condenser defrost drain age during heat pump operation.

MINIMUM CLEARANCES REQUIRED TO COMBUSTIBLE MATERIALS

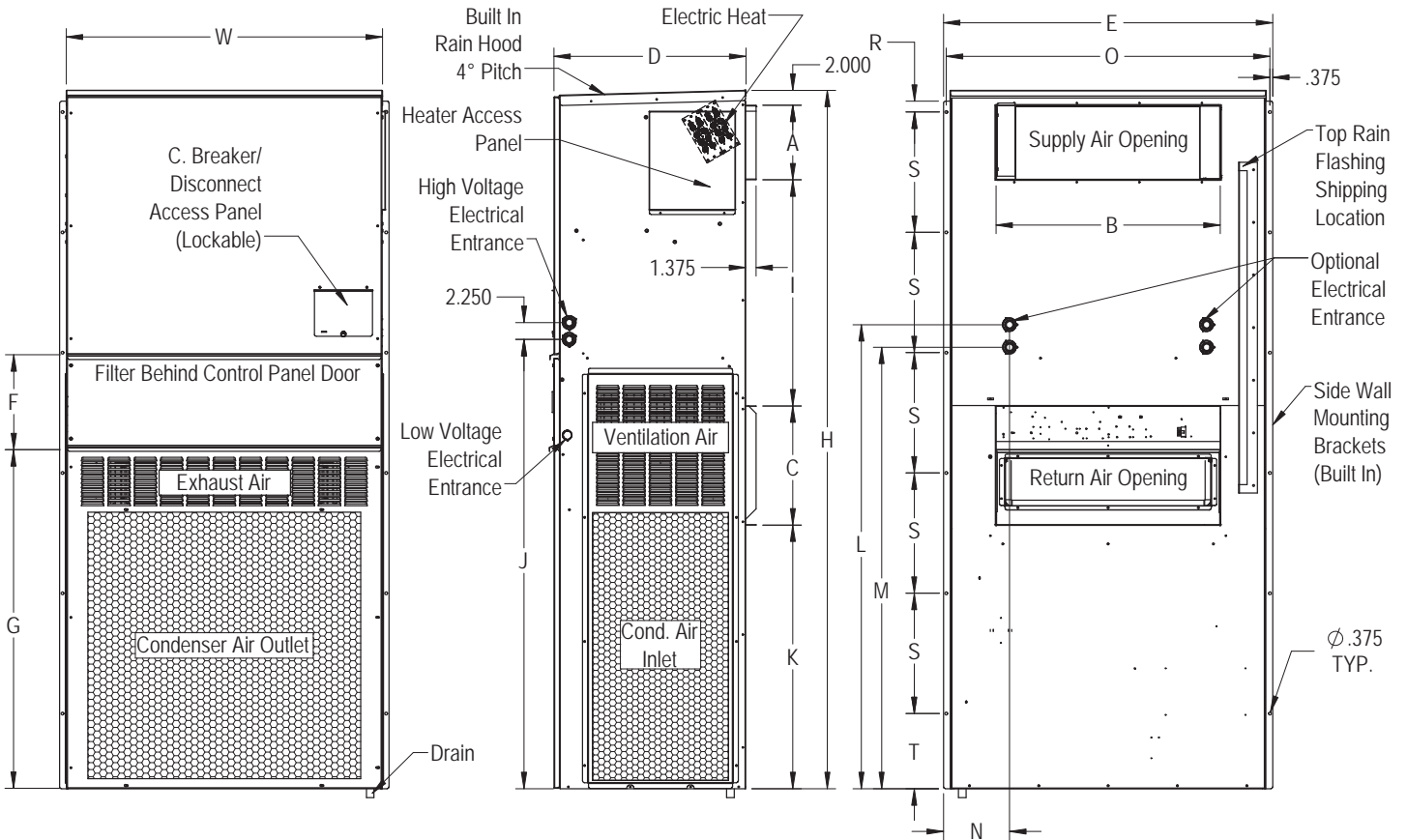
MODELS ①	SUPPLY AIR DUCT FIRST THREE FEET	CABINET
J42AC, J48AC, J60AC, J72AC	1/4"	0"

① Refer to the Installation Manual for more detailed information.

DIMENSIONS OF W18-72A BASIC UNIT FOR ARCHITECTURAL & INSTALLATION REQUIREMENTS (NOMINAL)

MODEL	WIDTH (W)	DEPTH (D)	HEIGHT (H)	SUPPLY		RETURN															
				A	B	C	B	D	E	F	G	I	J	K	L	M	N	O	R	S	T
J42AC J48AC	42	25.52	84.750	9.88	29.88	15.88	29.88	25.52	43.88	12.63	39.06	30.06	53.75	26.94	55.59	52.59	8.82	43	1.438	16	1.88
J60AC J72AC	42	25.52	92.88	9.88	29.88	15.88	29.88	25.52	43.88	12.63	45	30.06	59.75	35.06	61.72	58.72	8.82	43	1.438	16	10.00

① Wall Mounting holes in side flanges are 0.375.



MIS-3978

////// WALL CURB ACCESSORIES

Optional wall curb accessories are available to help reduce vibration through the outer wall surface or to use existing wall openings when replacing equipment. Follow all static pressure airflow requirements, safety and installation guidelines in the instructions provided with the curb and WALL MOUNT products.

CURB	UNITS USING CURB	DESCRIPTION
WWC5-*	J42AC, J48AC, J60AC, J72AC	Install to use with existing wall openings. Wall openings must provide sufficient airflow

* Color Option

////// INDOOR SOUND REDUCTION ACCESSORIES

Optional sound accessories are available to help reduce sound transmission from the supply and return openings inside the indoor area. Follow all static pressure airflow requirements, safety and installation guidelines in the instructions provided with the accessories and WALL MOUNT products.

ACCESSORY	UNITS USING ACCESS.	DESCRIPTION
WAPR11-*	J42AC, J48AC, J60AC, J72AC	Acoustical return air plenum that offsets the return air path. Air intake at floor level

* Color Option

////// NON-DUCTED SUPPLY AND RETURN GRILLES

Supply and return louver grilles are of a brushed aluminum finish. 2" flange versions are recommended for standard installations to allow grille attachment when large wall openings are present. Return filter grilles are available for filter access from an indoor area. Filter grilles do not include a filter, and are not recommended for unit with ventilation due to filter location. A manual damper return grille is available for W42 and W72 models. The manual damper is adjustable, and is only recommended for installations where increased return duct static pressure is required.

GRILLE NO.	UNITS USING GRILLE	DESCRIPTION OF LOUVER GRILLE
SG-5W	W42AC, W48AC, W60AC, W72AC	10" x 30" with 2" Flange 4 way deflection supply grille. Use for standard installations
RG-5W	W42AC, W48AC, W60AC, W72AC	16" x 30" with 2" Flange return grille. Use for standard installations.
RFG-5W	W42AC, W48AC, W60AC, W72AC	16" x 30" with 1" Flange return filter grille. Not recommended for use as primary filter for units with vent options
RGD-5	W42AC, W48AC, W60AC, W72AC	16" x 30" with 1" Flange return grille. Manual damper used to restrict return air

////// NON-DUCTED SUPPLY GRILLES - SPREAD AND THROW CHARACTERISTICS

One of the most important setup procedures for non-ducted supply applications is to adjust the 4 way supply grille blade positions. Placement of equipment, occupants, the thermostat, and room size can all play an important role in deciding how the conditioned supply air must be directed in an indoor area. The chart below may be used as a reference tool to help with this process.

SUPPLY GRILLE	AIRFLOW CFM	DEFLECTION	VELOCITY	TOTAL PRESSURE	THROW
SG-5W	1450 CFM	0°	968	.073" WC	51-73 ft.
		22.5°	1071	.103" WC	39-56 ft.
		45°	1331	.169" WC	28-40 ft.
	2000 CFM	0°	1336	.130" WC	61-86 ft.
		22.5°	1477	.188" WC	54-65 ft.
		45°	1835	.335" WC	33-46 ft.

////// CONTROLLER, THERMOSTAT, HUMIDISTAT AND CO2 VENTILATION CONTROL OPTIONS

Solair provides a wide variety of controllers for equipment cooling, thermostats, for equipment and comfort cooling, humidistats for dehumidification units, and CO2 sensors for ventilation control. Lockable thermostat covers are available for applications where security or supervisory control is desired.

CONTROLLER	OPERATION	DESCRIPTION
MC-4002	2 Unit Lead/Lag Controller	Standard Lead/Lag Controller with remote alarming capability.

THERMOSTAT	OPERATION	DESCRIPTION
8403-057	1 Heat/1 Cool	Easy to use, Nonprogrammable
8403-059	2 Heat/2 Cool	Programmable or Nonprogrammable
8403-060	3 Heat/3 Cool	Programmable or Nonprogrammable, ventilation output, dehumidification operation
8403-089	1 Heat/1 Cool	Temp. Settings per Day 4, 2, 1, 0 Programs per Week 7, 5-2, 5-1-1 or Nonprogrammable
8403-090	2 Heat/2 Cool	Temp. Settings per Day 4, 2, 1, 0 Programs per Week 7, 5-2, 5-1-1 or Nonprogrammable
8403-091	1 Heat/1 Cool	Easy to use, Nonprogrammable. FEMA use
8403-092	2 Heat/2 Cool	Programmable or Nonprogrammable, ventilation output, Wi-Fi

HUMIDISTAT	OPERATION	DESCRIPTION
8403-038	Humidity %RH	Easy to use w/SPDT switching. Ratings: Pilot duty 50VA @24V, 120VA @ 120/240V
8403-047	Humidity %RH	Electronic with display, EEPROM memory, lockable keypad, humidity sensor calibration

CO2 CONTROL	OPERATION	DESCRIPTION
8403-056	CO2 PPM	CO2 ventilation control with digital display. Use with JADE Economizer for modulating ventilation
8403-067	CO2 PPM	CO2 ventilation control with digital display. On/Off or modulating ventilation operation

THERMOSTAT COVER*	SIZE	DESCRIPTION
8405-003	(Inside) 5-1/16" H x 6-1/16" W (Outside) 6-1/2" H x 7-1/2" W x 2-15/16" D	Clear acrylic with ventilation. Fits all thermostats except 8403-060
8405-005	(Inside) 5-7/8" H x 8-3/8" W (Outside) 7-1/4" H x 9-3/4" W x 3-3/8" D	Clear acrylic with ventilation. Fits all thermostats.
8405-006	(Inside) 5-1/16" H x 6-1/16" W (Outside) 6-3/8" H x 7-3/8" W x 2-7/8" D	Clear acrylic with ventilation. Fits all thermostats except 8403-060
8405-007	(Inside) 5-7/8" H x 8-3/8" W (Outside) 7-1/8" H x 9-5/8" W x 3-1/4" D	Beige painted steel cover with ventilation. Fits all thermostats.

* Thermostat covers include ventilation, but may effect temperature control reaction time. If security control lockout is needed, the 8403-060 thermostat provides input control lockout features.

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.