11EER W42AC-W60AC Series WALL-MOUNT™
10EER W72AC Series WALL-MOUNT™

The Bard 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
- Bard is an ISO 9001:2015 Certified Manufacturer

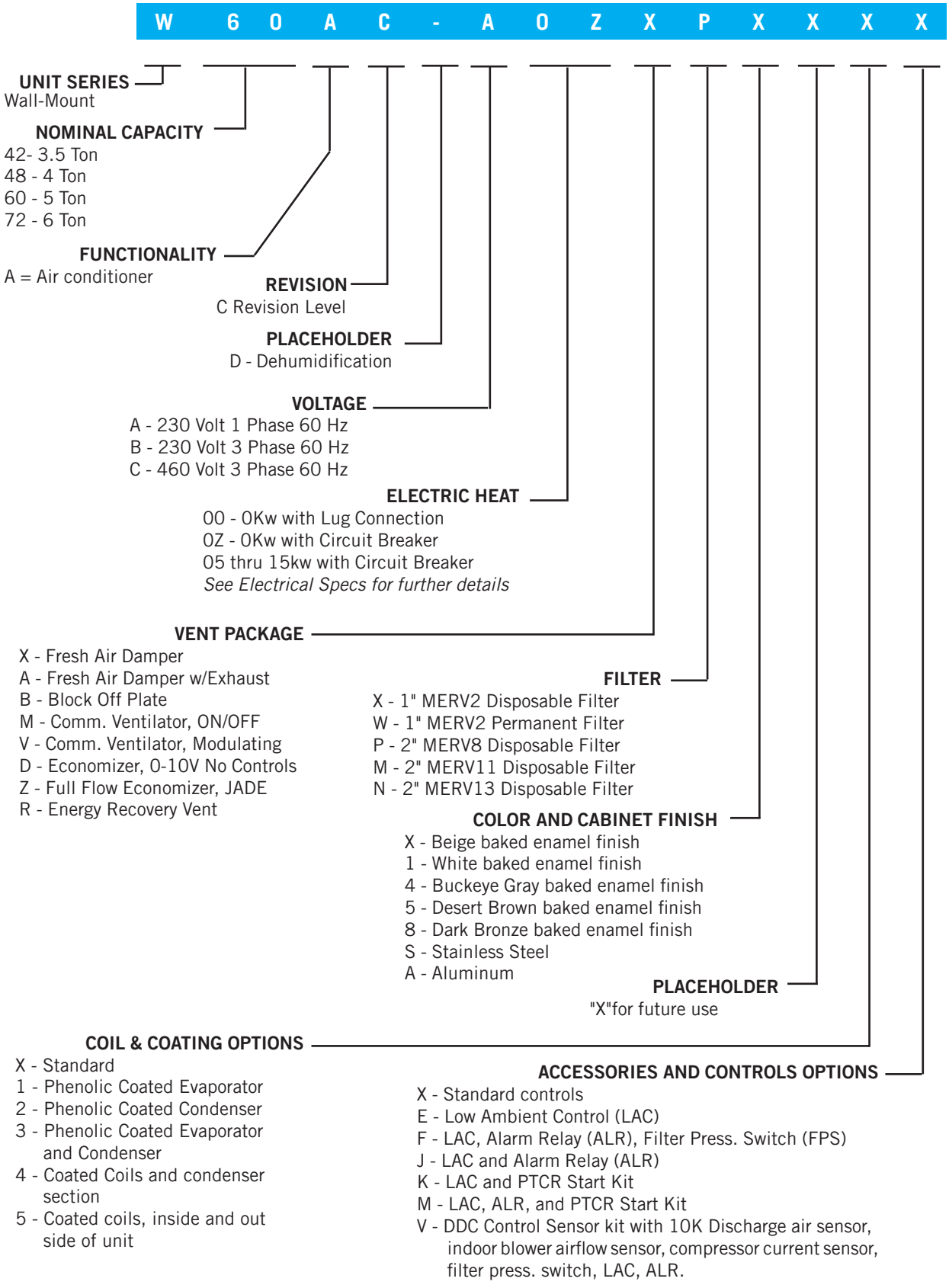
Bard SINCE 1914

ENGINEERED • BUILT • SUPPORTED IN THE USA

c ETL LISTED US Intertek

AHRI CERTIFIED www.ahridirectory.org Water Source HP ANSI/AHRI/ASHRAE/ISO13256-1

/////// WALL-MOUNT NOMENCLATURE



/////// 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. Bard Balanced Climate™ innovation comes standard on all models.

Optional Mechanical Dehumidification: Models are available with hot gas reheat dehumidification for energy efficient humidity removal. Electronic Expansion Valves are standard for all dehumidification 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.

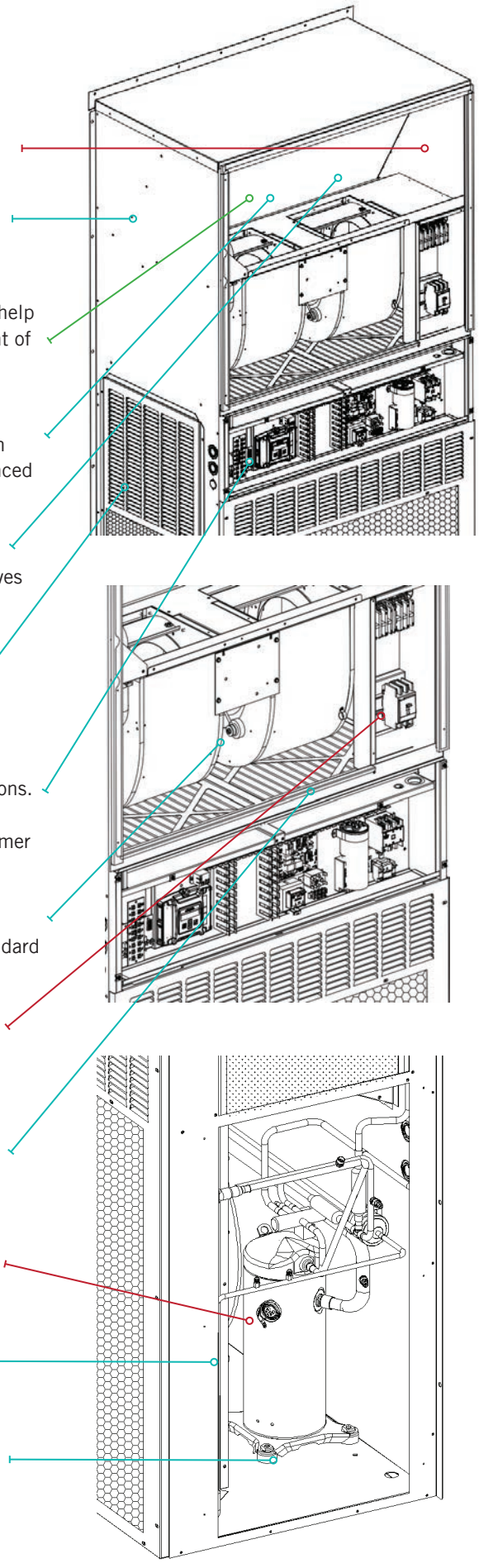
Electric Strip Heat: Reliable, comfortable heater packages feature an automatic limit and thermal cut-off safety control. Heater packages can be factory or field installed.

Easy Filter Access: A separate filter door is provided for ease of filter access during routine unit maintenance. 1" and 2" filters are available with a rating of up to MERV13.

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 Bard 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 Bard 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.

Mechanical Dehumidification Operation: The Bard W42ACD through W72ACD Series WALL MOUNT products offer optional dehumidification operation that removes moisture from air entering the unit. A three-way valve, reheat coil, and electronic expansion valve (EEV) are standard with all models. The dehumidification circuit incorporates an independent heat exchanger coil in the supply air stream. This coil reheats the supply air after it passes over the cooling coil without requiring the electric resistance heater to be used for reheat purposes. This results in very high mechanical dehumidification capability from the air conditioner on demand without using electric resistance reheat. Airflow is reduced resulting in quiet and comfortable soft shift to dehumidification mode.

Ventilation Operation: The Bard 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 Bard 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 Bard 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	W42AC	W48AC	W60AC	W72AC
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	W42AC-A	W42AC-B	W42AC-C	W48AC-A	W48AC-B	W48AC-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
Barometric Damper w/ Exhaust (A)	16	16	16	16	16	16
Blank-Off Plate (B)	14	14	14	14	14	14
Commercial Room Ventilator (M, V)	42	42	42	42	42	42
Economizer (D, Z)	44	44	44	44	44	44

MODELS	W60AC-A	W60AC-B	W60AC-C	W72AC-A	W72AC-B	W72AC-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
Barometric Damper w/ Exhaust (A)	16	16	16	16	16	16
Blank-Off Plate (B)	14	14	14	14	14	14
Commercial Room Ventilator (M, V)	42	42	42	42	42	42
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	W42AC, W48AC	Standard Unit Crate
TBD	W60AC, W72AC	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
W42AC	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
W48AC	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	29300	36500
		Sensible Cooling	40100	39100	38000	37000	35800	34700	33500	32300	31100	29800	28600
W60AC	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
W72AC	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	48500	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.	DEHUM. UNITS - LBS.
W42AC	7.25	7.25
W48AC	7.38	7.38
W60AC	9.25	9.50
W72AC	9.50	9.75

/////// 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	131°F
W42AC	75/62	Total Cooling	40900	39400	37900	36500	34800	33300	31700	30100	28500	26800	25100	23000
		Sensible Cooling	28800	28200	27500	26800	26100	25400	24700	23900	23200	22500	21700	20700
		Latent Cooling	12100	11200	10400	9700	8700	7900	7000	6200	5300	4300	3400	2300
		% Latent Increase	13%	18%	21%	29%	33%	41%	46%	55%	64%	79%	97%	100%
		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	2.1698
	80/67	Total Cooling	43600	42900	42100	41200	40000	38800	37400	35900	34300	32500	30600	28100
		Sensible Cooling	27900	27600	27200	26800	26300	25800	25300	34700	24100	23500	22800	21900
		Latent Cooling	15700	15300	14900	14400	13700	13000	12100	11200	10200	9000	7800	6200
		% Latent Increase	8%	10%	13%	17%	20%	24%	26%	29%	33%	38%	44%	55%
		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	5.8491
	85/72	Total Cooling	52000	50200	48400	46500	44500	42500	40300	38200	36100	33800	31500	28600
		Sensible Cooling	28600	28000	27400	26600	25800	25000	24100	23200	22200	21300	20200	18900
		Latent Cooling	23400	22200	21000	19900	18700	17500	16200	15000	13900	12500	11300	9700
		% Latent Increase	3%	5%	8%	11%	13%	16%	17%	19%	22%	23%	26%	28%
		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	9.1509
W48AC	75/62	Total Cooling	49900	47000	44400	42000	39600	37500	35600	33800	32100	30500	29000	27400
		Sensible Cooling	35200	33900	32700	31500	30400	29500	28600	27700	26900	26200	25500	24800
		Latent Cooling	14700	13100	11700	10500	9200	8000	7000	6100	5200	4300	3500	2600
		% Latent Increase	25%	27%	29%	34%	39%	44%	53%	67%	83%	100%	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	2.4528
	80/67	Total Cooling	53200	51200	49300	47400	45500	43700	42000	40300	38600	36900	35300	33500
		Sensible Cooling	34100	33200	32400	31500	30700	30000	29300	28600	28000	27400	26800	26200
		Latent Cooling	19100	18000	16900	15900	14800	13700	12700	11700	10600	9500	8500	7300
		% Latent Increase	18%	18%	18%	21%	22%	24%	28%	34%	41%	49%	62%	84%
		Lbs. H2O per Hr.	18.02	16.98	15.94	15	13.96	12.92	11.98	11.04	10	8.962	8.019	6.8868
	85/72	Total Cooling	63400	59900	56600	53500	50600	47800	45300	42900	40600	38400	36300	34100
		Sensible Cooling	34900	33700	32600	31300	30100	29000	27900	26800	25800	24800	23700	22600
		Latent Cooling	28500	26200	24000	22200	20500	18800	17400	16100	14800	13600	12600	11500
		% Latent Increase	12%	12%	11%	14%	15%	15%	18%	22%	26%	30%	37%	47%
		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	10.849
W60AC	75/62	Total Cooling	56100	53800	51500	49300	47000	44900	42600	40500	38300	36100	33900	31200
		Sensible Cooling	39000	38400	37700	36800	36000	35100	34100	33100	32000	30900	29700	28200
		Latent Cooling	17100	15400	13800	12500	11000	9800	8500	7400	6300	5200	4200	3000
		% Latent Increase	16%	18%	19%	23%	25%	32%	35%	45%	54%	67%	90%	100%
		Lbs. H2O per Hr.	16.13	14.53	13.02	11.79	10.38	9.245	8.019	6.981	5.943	4.906	3.962	2.8302
	80/67	Total Cooling	59900	58600	57200	55700	54000	52300	50300	48300	46100	43700	41300	38100
		Sensible Cooling	37800	37600	37300	36800	36300	35700	35000	34200	33300	32300	31200	29800
		Latent Cooling	22100	21000	19900	18900	17700	16600	15300	14100	12800	11400	10100	8300
		% Latent Increase	10%	10%	11%	13%	14%	16%	18%	21%	24%	28%	35%	43%
		Lbs. H2O per Hr.	20.85	19.81	18.77	17.83	16.7	15.66	14.43	13.3	12.08	10.75	9.528	7.8302
	85/72	Total Cooling	71400	68500	65700	62900	60000	57200	54200	51400	48500	45400	42500	38800
		Sensible Cooling	38700	38200	37500	36600	35600	34600	33400	32100	30700	29200	27600	25700
		Latent Cooling	32700	30300	28200	26300	24400	22600	20800	19300	17800	16200	14900	13100
		% Latent Increase	4%	5%	5%	7%	8%	10%	10%	12%	14%	15%	17%	18%
		Lbs. H2O per Hr.	30.85	28.58	26.6	24.81	23.02	21.32	19.62	18.21	16.79	15.28	14.06	12.358
W72AC	75/62	Total Cooling	67400	65100	62700	60300	57900	55500	53100	50600	48200	45700	43100	40000
		Sensible Cooling	47000	45900	44800	43700	42600	41400	40200	39000	37700	36400	35100	33400
		Latent Cooling	20400	19200	17900	16600	15300	14100	12900	11600	10500	9300	8000	6600
		% Latent Increase	0%	6%	10%	15%	20%	23%	28%	32%	36%	42%	46%	55%
		Lbs. H2O per Hr.	19.25	18.11	16.89	15.66	14.43	13.3	12.17	10.94	9.906	8.774	7.547	6.2264
	80/67	Total Cooling	71900	70900	69600	68200	66500	64700	62700	60400	58000	55400	52500	48900
		Sensible Cooling	45600	45000	44400	43700	43000	42100	41200	40300	39200	38100	36900	35400
		Latent Cooling	26300	25900	25200	24500	23500	22600	21500	20100	18800	17300	15600	13500
		% Latent Increase	-3%	1%	4%	8%	10%	13%	15%	17%	19%	20%	21%	21%
		Lbs. H2O per Hr.	24.81	24.43	23.77	23.11	22.17	21.32	20.28	18.96	17.74	16.32	14.72	12.736
	85/72	Total Cooling	85600	82900	79900	77000	73900	70800	67600	64300	60900	57600	54000	49800
		Sensible Cooling	46700	45700	44600	43400	42200	40700	39300	37800	36100	34400	32700	30500
		Latent Cooling	38900	37200	35300	33600	31700	30100	28300	26500	24800	23200	21300	19300
		% Latent Increase	-6%	-2%	0%	4%	6%	8%	10%	11%	11%	12%	10%	8%
		Lbs. H2O per Hr.	36.7	35.09	33.3	31.7	29.91	28.4	26.7	25	23.4	21.89	20.09	18.208

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	W42AC BLOWER TAPS - DRY/WET COIL CFM					W48AC 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	Optional HI 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	W60AC BLOWER TAPS - DRY/WET COIL CFM					W72AC 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	Optional HI 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 De humidification. To use Balanced Climate, remove the jumper between Y1 and Y2 on the low voltage terminal strip. A 2 stage cool ing 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 appli- cations 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 selec tion. 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
W42AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD
W48AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD
W60AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD
W72AC	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
W42AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD
W48AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD
W60AC	TBD	TBD	TBD	TBD	TBD	TBD	TBD
W72AC	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
W42AC-A00, A0Z		1	31	50	8	10												
A05		1	31	50	8	10												
A10	230/208-1	1	57	60	6	10												
A15		1 or 2	83	90	4	8	57	26		60	30		6	10		10	10	
A20		1 or 2	109	125	2	6	57	52		60	60		6	6		10	10	
W42AC-B00, B0Z		1	23	35	8	10												
B06		1	23	35	8	10												
B09	230/208-3	1	32	35	8	10												
B15		1	51	60	6	10												
B18		1	60	60	6	10												
W42AC-C00, C0Z		1	12	15	14	14												
C09	460-3	1	17	20	12	12												
C15		1	26	30	10	10												
W48AC-A00, A0Z		1	35	50	8	10												
A05		1	35	50	8	10												
A10	230/208-1	1	59	60	6	10												
A15		1 or 2	85	90	4	8	59	26		60	30		6	10		10	10	
A20		1 or 2	111	125	2	6	59	52		60	60		6	6		10	10	
W48AC-B00, B0Z		1	26	35	8	10												
B06		1	26	35	8	10												
B09	230/208-3	1	33	35	8	10												
B15		1	51	60	6	10												
B18		1	60	60	6	10												
W48AC-C00, C0Z		1	12	15	14	14												
C09	460-3	1	17	20	12	12												
C15		1	26	30	10	10												
W60AC-A00, A0Z		1	38	60	8	10												
A05		1	38	60	8	10												
A10	230/208-1	1	59	60	6	10												
A15		1 or 2	85	90	3	8	59	26		60	30		6	10		10	10	
A20		1 or 2	111	125	2	6	59	52		60	60		6	6		10	10	
W60AC-B00, B0Z		1	28	40	8	10												
B06		1	28	40	8	10												
B09	230/208-3	1	34	40	8	10												
B15		1	52	60	6	10												
B18		2	NA	N/A	N/A	N/A	34	28		40	30		8	10		10	10	
W60AC-C00, C0Z		1	14	20	12	12												
C09	460-3	1	18	20	12	12												
C15		1	26	30	10	10												
W72AC-A00, A0Z		1	56	60	6	10												
A05		1	56	60	6	10												
A10	230/208-1	1 or 2	60	70	6	8	56	26		60	30		6	10		10	10	
A15		1 or 2	86	90	3	8	56	52		60	60		6	6		10	10	
A20		1 or 2	112	125	2	6	56	52		60	60		6	6		10	10	
W72AC -B00, B0Z		1	38	45	8	10												
B06		1	38	45	8	10												
B09	230/208-3	1	38	45	8	10												
B15		1	53	60	6	10												
B18		2	N/A	N/A	N/A	N/A	38	28		40	30		8	10		10	10	
W72AC-C00, C0Z		1	18	25	10	10												
C09	460-3	1	18	25	10	10												
C15		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
- Circuit Breaker Standard on 230/208V Models
- ETL US & Canada Listed
- Toggle Disconnect Standard on 460V Models

Air Conditioner Models	-A00 Models 230/208-1		-B00 Models 230/208-3		-C00 Models 460-3	
	Heater Model #	KW	Heater Model #	KW	Heater Model #	KW
W42AC W48AC	EHWA48C-A05 EHWA42C-A10 EHWA42C-A15 EHWA42C-A20	5 10 15 20	EHWA42C-B06 EHWA42C-B09 EHWA42C-B15 EHWA42C-B18	6 9 15 18	EHWA48C-C09 EHWA42C-C15	9 15
W60AC	EHWA60C-A10 EHWA60C-A15 EHWA60C-A20	10 15 20	EHWA42C-B06 EHWA42C-B09 EHWA42C-B15 EHWA42C-B18	6 9 15 18	EHWA60C-C09 EHWA60C-C15	9 15
W72AC	EHWA72C-A05 EHWA72C-A10 EHWA72C-A15 EHWA72C-A20	5 10 15 20	EHWA72C-B06 EHWA72C-B09 EHWA72C-B15 EHWA72C-B18	6 9 15 18	EHWA60C-C09 EHWA60C-C15	9 15

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	W42AC, W48AC, W60AC, W72AC	Barometric	Air damper provides slight positive room pressure during blower operation, No room air exhaust.
A	FAD-BE5	W42AC, W48AC, W60AC, W72AC	Barometric	Air damper provides slight positive room pressure during blower operation, barometric room air exhaust.
B	BOP5	W42AC, W48AC, W60AC, W72AC	No Ventilation	Insulated plates used to seal vent intake and exhaust openings.
M	CRV-F5	W42AC, W48AC, W60AC, W72AC	24V On/Off	Vent Provides motorized spring return on/off operation to bring in outdoor air and exhaust room air. No intake hood required.
V	CRV-V5	W42AC, W48AC, W60AC, W72AC	24V On/Off, 2-10V	Vent provides motorized spring return modulating or on/off operation to bring in outdoor air and exhaust room air. Minimum and occupied vent blade positions. No intake hood required.
D	ECON-NC5*	W42AC, W48AC, W60AC, W72AC	2-10V only	Full flow Economizer that uses 2 to 10V signal from a DDC control system or thermostat. No intake hood required.
Z	ECON-WD5*	W42AC, W48AC, W60AC, W72AC	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.
R	ERV-FA5*	W42AC, W48AC, W60AC, W72AC	24V On/Off, 3 blower speeds	208/230V Energy Recovery ventilator with energy wheel media. 3 independently selected intake and exhaust blower speeds. No intake hood required.
	ERV-FC5*	W42AC, W48AC, W60AC, W72AC	24V On/Off, 3 blower speeds	460V Energy recovery ventilator with energy wheel media. 3 independently selected intake and exhaust blower speeds. No intake hood required.

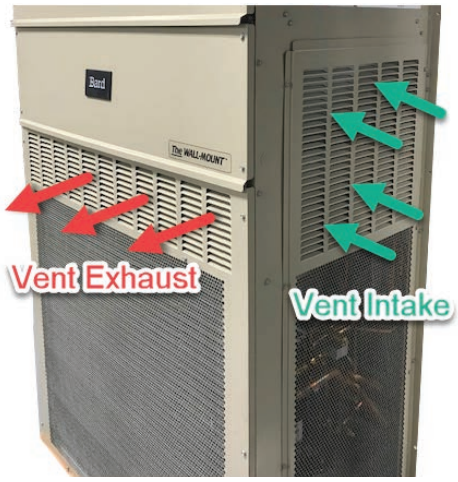
/////// WALL MOUNT™ VENTILATION OPTIONS SPECIFICATIONS

"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.

"A" Vent Code Option – Fresh Air Damper with Barometric Exhaust (FAD-BE)
The barometric fresh air damper with exhaust is an optional 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 uses a barometric damper design that relieves room pressurization during outdoor air intake. Adjustable blade stops allow room pressure adjustment by controlling the amount of exhaust air leaving the building.

"B" Vent Code Option – Block Off Plate (BOP)
Blank off plates are installed on the inside of the service door and over the exhaust opening in the condenser partition. The plates cover the air inlet and room exhaust openings, which restricts any outside air from entering the unit or room air from leaving the conditioned space. The blank off plate option may be utilized in applications where outside air intake is not required by state or local codes.

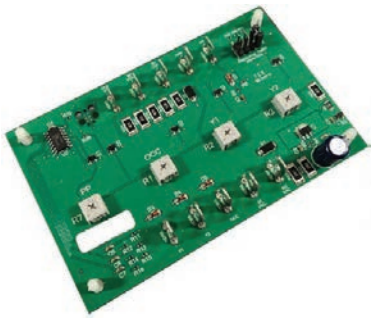
"M" Vent Code Option – Commercial Room Ventilator with fixed blade position (CRV-F)
The built-in commercial room ventilator with fixed blade position is internally mounted behind the service door and allows outside ventilation air, up to 50% of the total airflow rating of the unit. It includes a built-in exhaust air damper for room pressurization relief. Blade stops are easily adjustable to set intake airflow. The commercial room ventilator with fixed blade position (CRV-F) is a simple and innovative approach to improving the indoor air quality by providing fresh air intake and exhaust capability. The CRV-F can be activated by indoor blower operation or independently controlled by a thermostat or controller using a 24VAC occupancy or schedule signal. Blade operation is controlled by a on/off spring return motor that closes rapidly when de-energized. Blade seals provide minimal blade leakage.



Commercial Room Ventilator- Airpath

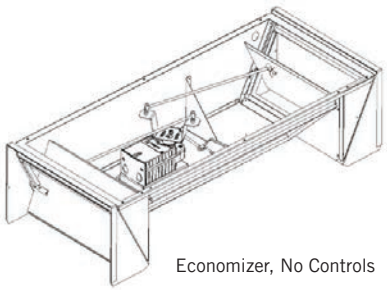
"V" Vent Code Option – Commercial Room Ventilator with Modulating Blade position (CRV-V)
The built-in commercial room ventilator with modulating blade position is internally mounted behind the service door and allows outside ventilation air, up to 50% of the total airflow rating of the unit. It includes a built-in exhaust air damper for room pressurization relief. Blade seals allow for minimal blade leakage. A ventilation control board allows multiple blade settings to adjust intake airflow.

"V" Vent Code Option – Ventilation Control Board
The CRV ventilation control board allows for a room pre-purge bringing in outdoor air into an area before occupancy starts based on a thermostat schedule. Pre-purge settings are OFF, 30, 60, 90 minutes and are adjusted using jumpers located on the board. The pre-purge airflow amount is adjustable using a potentiometer. A separate potentiometer is also provided for occupancy (vent only) airflow adjustment. Potentiometers are also provided for cooling operational air intake amounts. The CRV-V ventilation control board also allows for 0-10V input for modulating ventilation control based on CO2 levels. Complies with ANSI/ASHRAE Standard 62.1 "Ventilation for Acceptable Indoor Air Quality" and other state and local ventilation codes that require outdoor air intake but not economizer operation.


"V" Vent CRV Control Board

"D" Vent Code Option – Economizer without controls installed (ECON-NC)

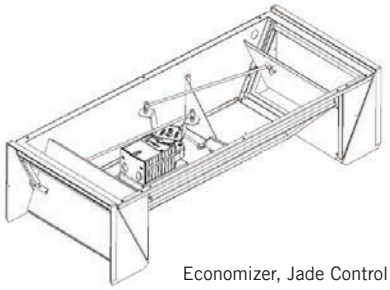
The built-in economizer is internally mounted behind the service door and allows outside ventilation air, up to 100% of the total airflow rating of the unit. It includes a built-in exhaust air damper for room pressurization relief. The economizer is designed to provide "free cooling" when outside air conditions are cool and dry enough to satisfy cooling requirements without running the compressor. This provides lower operating costs, extended equipment life, and cooling operation at cold (-40°F) outdoor temperatures. The ECON-NC does not contain unit ventilation controls, and provides a 0-10V Belimo actuator motor with spring return. Blade seals are used to minimize blade leakage. Controls are provided by using a field supplied DDC system, or a thermostat capable of 0-10V economizer operation. Indoor and outdoor temperature sensors are not provided with the ventilation option, and must be ordered separately.



Economizer, No Controls

"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 Bard economizer assembly, the JADE controller is able to meet most state and local codes for economizer use.

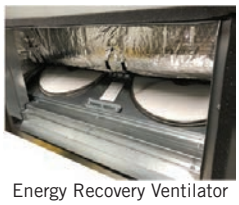
Jade Control Module

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.

"R" Vent Code Option – Energy Recovery Ventilator (ERV-F)

The wall-mount energy recovery ventilator (ERV) is a highly innovative approach to meeting indoor air quality ventilation requirements as established by ANSI/ASHRAE Standard 62.1. The ERV allows up to 400 CFM (dependent upon model) of fresh air and exhaust through the unit while maintaining superior indoor comfort and humidity levels. In most cases this can be accomplished without increasing equipment sizing or operating costs. Heat transfer efficiency is up to 67% during summer and 75% during winter conditions.

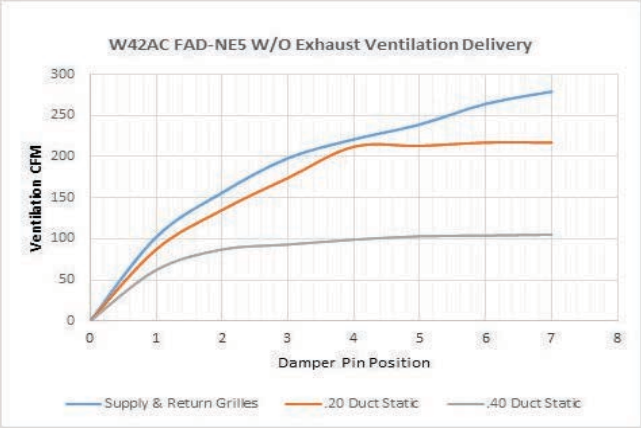


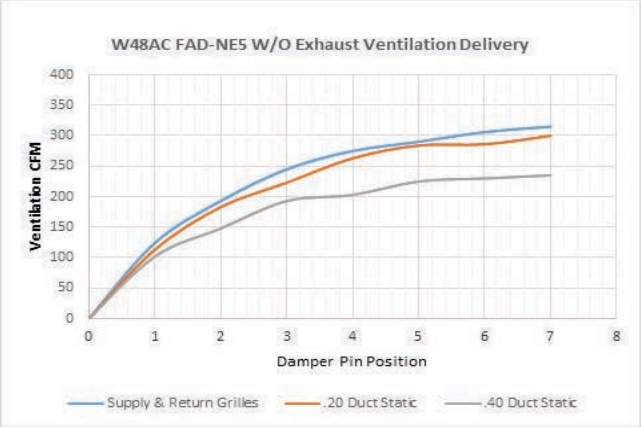
Energy Recovery Ventilator

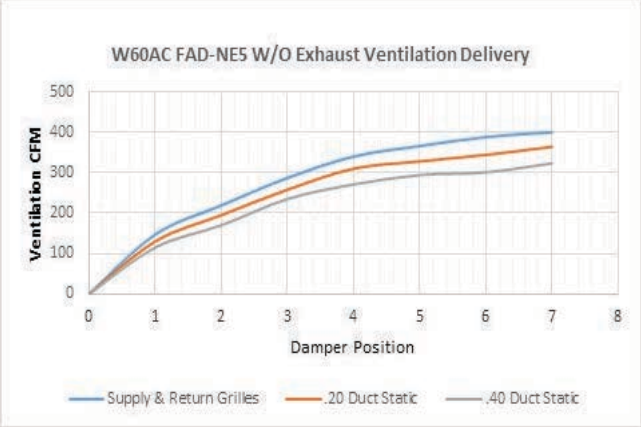
The ERV consists of a unique "rotary energy recovery cassette" that provides effective sensible and latent heat transfer capabilities during summer and winter conditions. Various control schemes are addressed including limiting ventilation during building occupancy only. The ERV is designed to be internally mounted behind the service door, and includes independent blowers for intake air and exhaust air balancing. It can be built-in at the factory (W**A only) or field installed (W**A) as an option. Wiring includes plug-in harnesses for easy vent installation and removal.

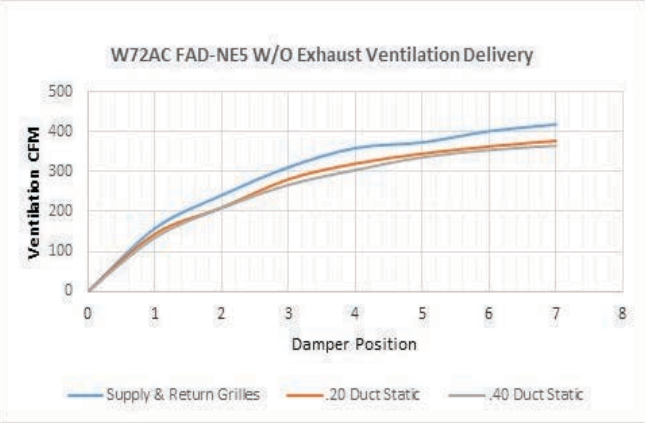
////// WALL MOUNT™ BAROMETRIC DAMPER (FAD) PERFORMANCE

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

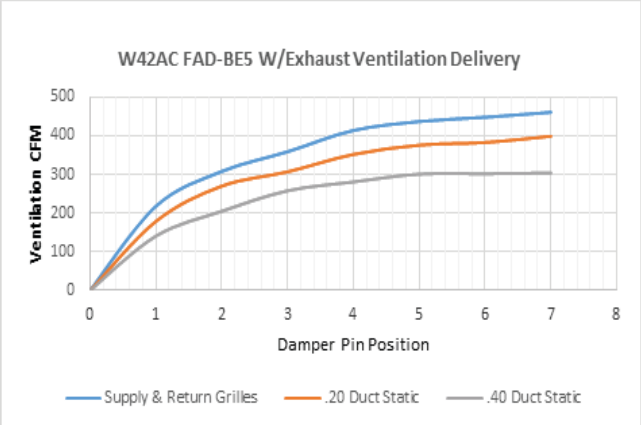


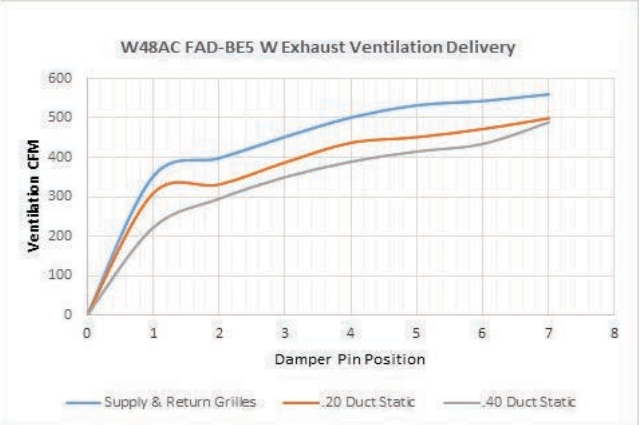


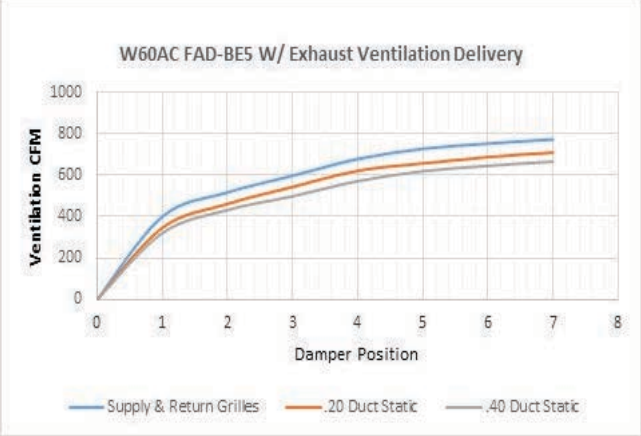


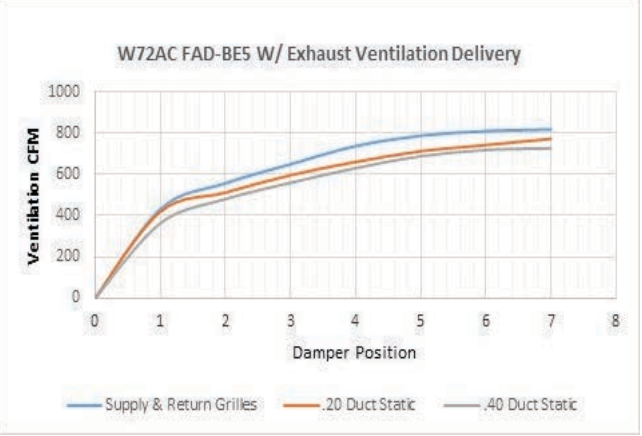


"A" (FAD-BE5 and FAD-BE5) Barometric Damper With Exhaust Vent Code Options



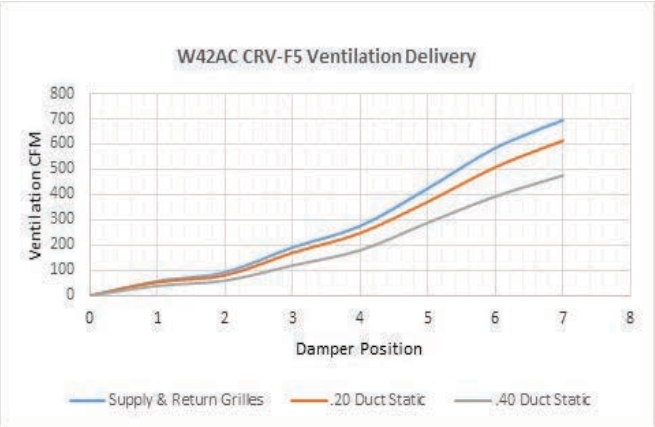


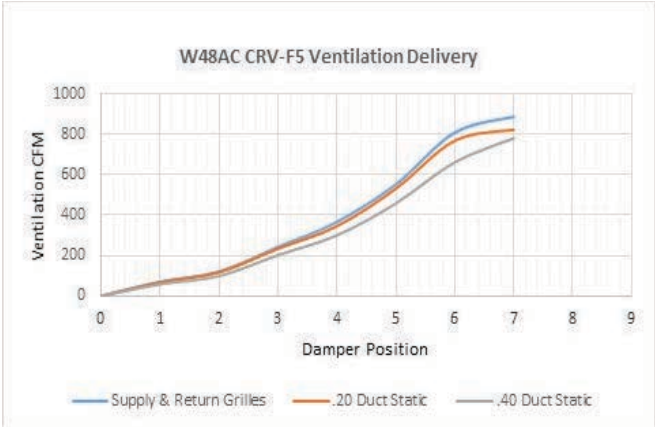


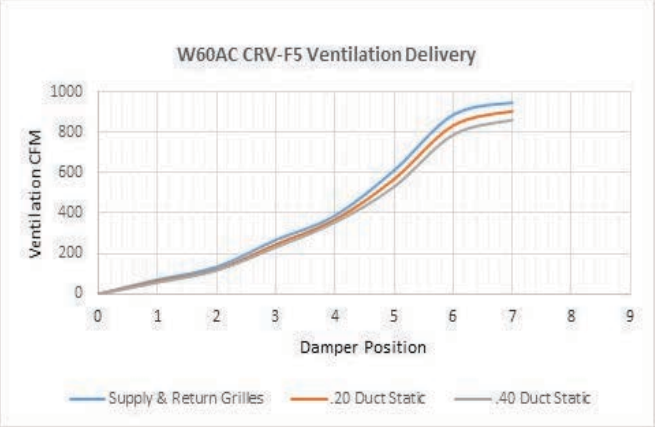


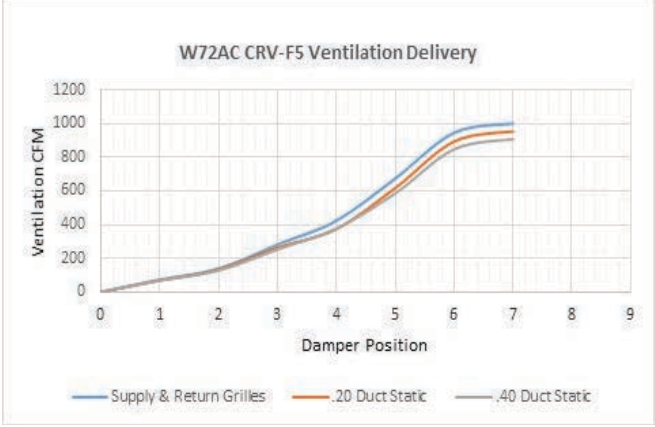
//////// WALL MOUNT™ CLASSROOM VENTILATOR (CRV) PERFORMANCE

"M" (CRV-F) Vent Code Options

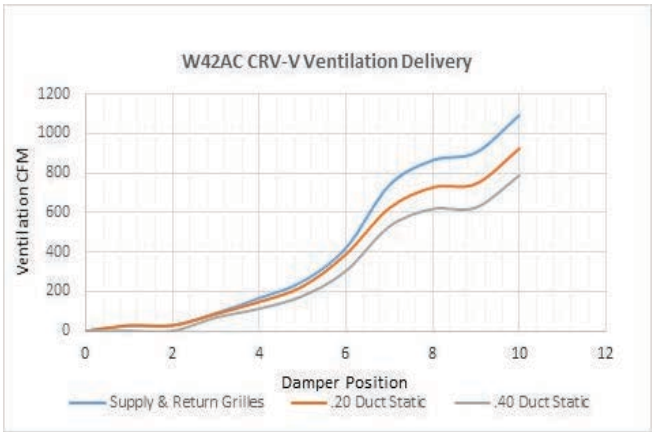


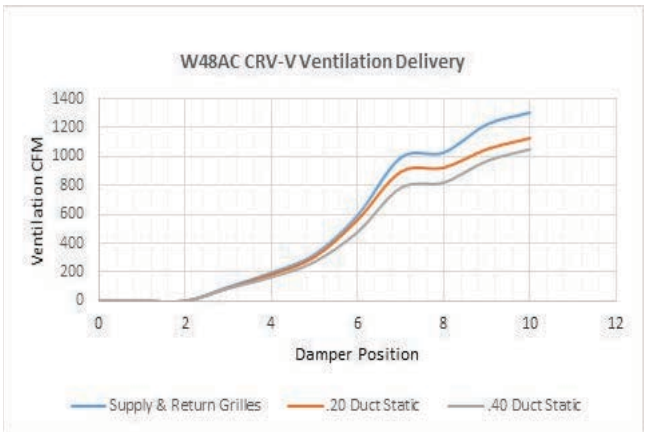


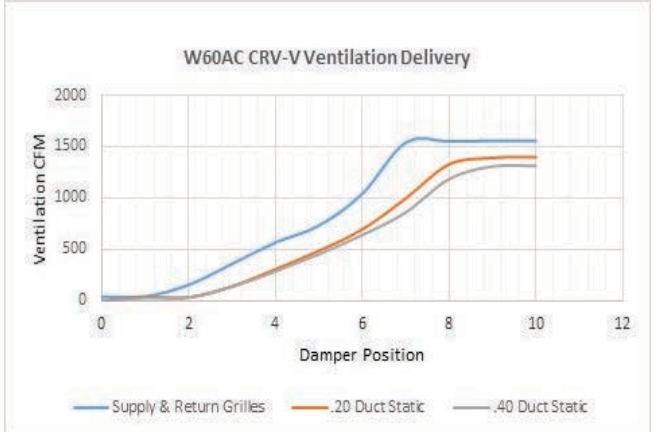


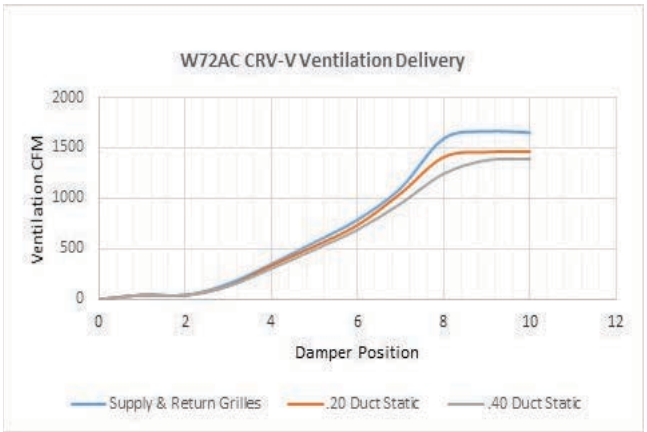


"V" (CRV-V) Vent Code Options



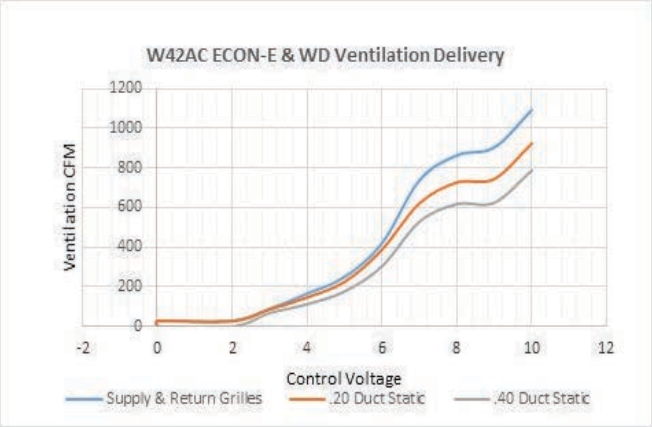


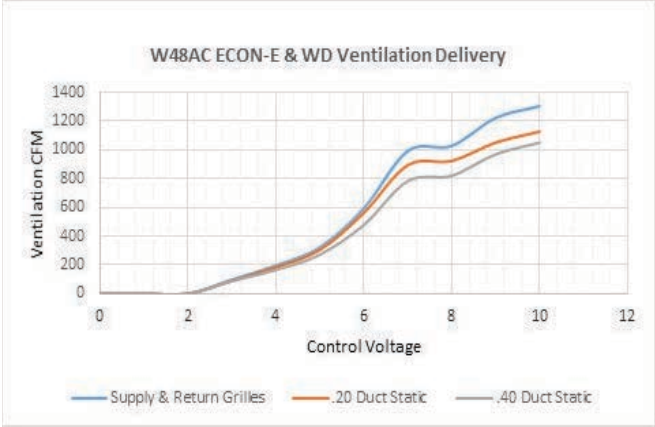


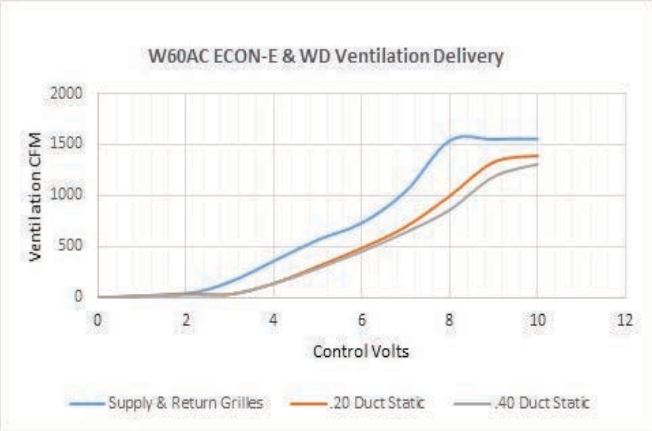


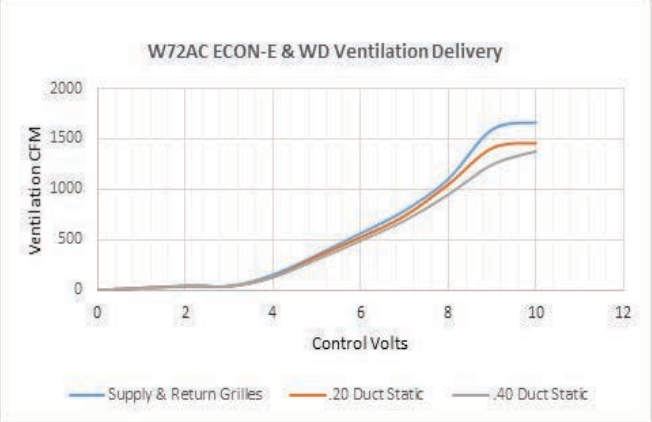
/////// WALL MOUNT™ ECONOMIZER AIRFLOW PERFORMANCE

“D” (ECON-NC) and “Z” (ECON-WD) Vent Code Options









WALL MOUNT™ ENERGY RECOVERY VENTILATION (ERV) PERFORMANCE

"R" (ERV-FA5 and ERV-FC5) Vent Code Options for W42AC, W48AC, W60AC, and W72AC

SUMMER COOLING PERFORMANCE (INDOOR DESIGN CONDITIONS 75°DB/62°WB)

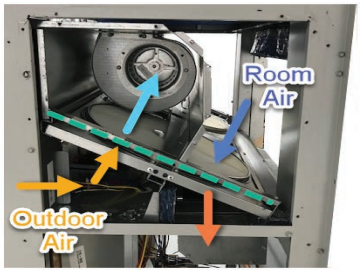
AMBIENT O.D.		VENTILATION RATE -- 450 CFM 63% EFFICIENCY						VENTILATION RATE -- 375 CFM 64% EFFICIENCY						VENTILATION RATE -- 300 CFM 65% EFFICIENCY					
DB/WB	F	VLT	VLS	VLL	HRT	HRS	HRL	VLT	VLS	VLL	HRT	HRS	HRL	VLT	VLS	VLL	HRT	HRS	HRS
105	75	21465	14580	6884	13952	9477	4475	17887	12150	5737	11805	8018	3786	14310	9720	4590	9587	6512	3075
	70	14580	14580	0	9477	9477	0	12150	12150	0	8018	8018	0	9720	9720	0	6512	6512	0
	65	14580	14580	0	9477	9477	0	12150	12150	0	8018	8018	0	9720	9720	0	6512	6512	0
100	80	31590	12150	19440	20533	7897	12635	26325	10125	16200	17374	6682	10692	21060	8100	12960	14110	5427	8683
	75	21465	12150	9314	13952	7897	6054	17997	10125	7762	11805	6682	5123	14310	8100	6210	9587	5427	4160
	70	12352	12150	202	8029	7897	131	10293	10125	168	6793	6682	111	8235	8100	135	5517	5427	90
	65	12150	12150	0	7897	7897	0	10125	10125	0	6682	6682	0	8100	8100	0	5427	5427	0
	60	12150	12150	0	7897	7897	0	10125	10125	0	6682	6682	0	8100	8100	0	5427	5427	0
95	80	31590	9720	21870	20533	6318	14215	26325	8100	18225	17374	5345	12028	21060	6480	14580	14110	4341	9768
	75	21465	9720	11744	13952	6318	7634	17887	8100	9787	11805	5345	6459	14310	6480	7830	9587	4341	5246
	70	12352	9720	2632	8029	6318	1711	10293	8100	2193	6793	5345	1447	8235	6480	1755	5517	4341	1175
	65	9720	9720	0	6318	6318	0	8100	8100	0	5345	5345	0	6480	6480	0	4341	4341	0
	60	9720	9720	0	6318	6318	0	8100	8100	0	5345	5345	0	6480	6480	0	4341	4341	0
90	80	31590	7290	24300	20533	4738	15794	26325	6075	20250	17374	4009	13365	21060	4860	16200	14110	3256	10854
	75	21465	7290	14175	13952	4738	9213	17887	6075	11812	11805	4009	7796	14310	4860	9450	9587	3256	6331
	70	12352	7290	5062	8029	4738	3290	10293	6075	4218	6793	4009	2784	8235	4860	3375	5517	3256	2261
	65	7290	7290	0	4738	4738	0	4050	6075	0	4009	4009	0	4860	4860	0	3256	3256	0
	60	7290	7290	0	4738	4738	0	4050	6075	0	4009	4009	0	4860	4860	0	3256	3256	0
85	80	31590	4860	26730	20533	3159	17374	26325	4050	22275	17374	2672	14701	21060	3240	17820	14110	2170	11939
	75	21465	4860	16605	13952	3159	10793	17887	4050	13837	11805	2672	9132	14310	3240	11070	9587	2170	7416
	70	12352	4860	7492	8029	3159	4870	10293	4050	6243	6793	2672	4120	8235	3240	4995	5517	2170	3346
	65	4860	4860	0	3159	3159	0	4050	4050	0	2672	2672	0	3240	3240	0	2170	2170	0
	60	4860	4860	0	3159	3159	0	4050	4050	0	2672	2672	0	3240	3240	0	2170	2170	0
80	75	21465	2430	19035	13952	1580	12372	17887	2025	15862	11805	1336	10469	14310	1620	12690	9587	1085	8502
	70	12352	2430	9922	8029	1580	6449	10293	2025	8268	6793	1336	5457	8235	1620	6615	5517	1085	4432
	65	4252	2430	1822	2764	1580	1184	3543	2025	1518	2338	1336	1002	2835	1620	1215	1899	1085	814
	60	2430	2430	0	1579	1580	0	2025	2025	0	1336	1336	0	1620	1620	0	1085	1085	0
75	70	12352	0	12352	8029	0	8029	10293	0	10293	6793	0	6793	8235	0	8235	5517	0	5517
	65	4252	0	4252	2764	0	2764	3543	0	3543	2338	0	2338	2835	0	2835	1899	0	1899
	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ERV-FA5 WINTER HEATING PERFORMANCE (INDOOR DESIGN CONDITIONS 70°F DB)

LEGEND:

VLT = Ventilation Load - Total
VLL = Ventilation Load - Latent
HRS = Heat Recovery - Sensible
WVL = Winter Ventilation Load

VLS = Ventilation Load - Sensible
HRT = Heat Recovery - Total
HRL = Heat Recovery - Latent
WHR = Winter Heat Recovery



Energy Recovery wheels transfer heat from one airpath to another airpath.

Cooling Operation: Heat is removed from the outoor air being brought in for ventilation. Heat is added to the indoor air leaving the structure.

Heating Operation: Heat is removed from the indoor air leaving the structure. Heat is added to the outdoor air being brought in for ventilation.

AMBIENT O.D.	VENTILATION RATE					
	450 CFM 80% EFF.		375 CFM 81% EFF.		300 CFM 82% EFF.	
DB/°F	WVL	WVL	WVL	WVL	WVL	WHR
65	2430	1944	2025	1640	1620	1328
60	4860	3888	4050	3280	3240	2656
55	7290	5832	6075	4920	4860	3985
50	9720	7776	8100	6561	6480	5313
45	12150	9720	10125	8201	8100	6642
40	14580	11664	12150	9841	9720	7970
35	17010	13608	14175	11481	11340	9298
30	19440	15552	16200	13122	12960	10627
25	21870	17496	18225	14762	14580	11955
20	24300	19440	20250	16402	16200	13284
15	26730	21384	22275	18042	17820	14612

NOTE: Sensible performance only is shown for winter application.

/////// CABINET AND COIL OPTIONS

Cabinet Finish Options

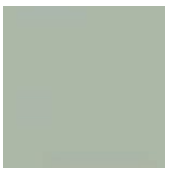
Unit models are available in Beige, White, Buckeye Gray, Desert Brown, Dark Bronze, stainless steel, and aluminum. Painted cabinet construction is comprised of 20 gauge Zinc coated steel. Parts are cleaned, rinsed, sealed, and dried before a polyurethane primer is applied. The cabinet coating is completed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

Stainless steel external cabinet construction is comprised of 316 grade materials. Stainless steel screws and fasteners are used in all externally exposed areas. A corrosion resistant coated fan blade and stainless steel condenser motor mount is provided.

Aluminum external cabinet construction is ASTM B 209 grade .06" thickness with a stucco appearance.

X—Beige

1—White



4—Gray

5—Desert

8—Bronze

S—Stainless

Stainless Steel Cabinet Construction

Exterior Stainless Steel finish cabinets are often selected for corrosion and chemical resistance. Higher grades of stainless steel are often specified to meet the requirements of harsh environments. Units may not only be exposed to wind - blown dust, dirt, lint, and fibers but also may be exposed to corrosive agents. The Bard stainless steel unit offers a high quality stainless steel grade enclosure and fasteners for years of operation in these conditions.

Features:

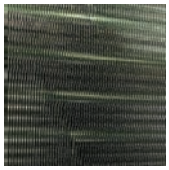
- Sides, doors, grilles, back panels, and top are 316 grade stainless steel.
- Base, condenser partition, and fan shroud are 304 grade stainless steel.
- Stainless steel exterior cabinet screws, washers, nuts, and bolts, are used.
- Stainless steel outdoor motor mount and motor mount hardware.
- Compressor mounting hardware is stainless steel and hex no-spin rivet nuts are used in the unit base.
- Corrosion resistant coating is applied to fan blade.

Bard highly suggests units exposed to extremely harsh environments, high quantities, of airborne dirt and dust, or sprayed with water hose and splashing water be ordered with the Blank Off Plate (BOP) ventilation option unless codes require fresh air intake. The BOP ventilation option installs plates over the fresh air intake and exhaust openings.

A—Aluminum

Green Fin Hydrophilic Evaporator Coils Standard On All Units

Bard 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.

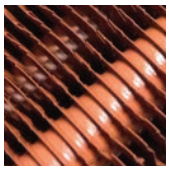


Hydrophilic Green Coil (Standard)

/////// CABINET AND COIL OPTIONS

Evaporator and Condenser Coil TechniCoat Coating Options

All models utilize a copper/aluminum evaporator and condenser coil. An additional corrosion resistant TechniCoat 10-2™ coating may be ordered for the condenser coil (option 1), evaporator coil (option 2) or both evaporator and condenser coils (option 3). TechniCoat is a proprietary epoxy-modified phenolic dip coating. Total Immersion ensures complete coverage with no significant loss of thermal efficiency. The 4-step coating system consist of (1) a multi-step cleaning process, (2) chemical etch primer, (3) epoxy-modified phenolic, and (4) phenolic sealer. The result is a corrosion resistant coil that outperforms a copper finned coil, is less expensive, and is also nearly 3 times lighter. ASTM B117 salt spray tests conducted show over 4500 hours with "no fin corrosion or degradation."



AeroMarine
(Optional)

1= Coated Condenser Coil

A corrosion resistant dip coated condenser coil is used.

2= Coated Evaporator Coil

A corrosion resistant dip coated evaporator coil is used.

3= Coated Condenser and Evaporator Coil

A corrosion resistant dip coated condenser and evaporator coil is used.

Cabinet Coating Options

Bard recommends unit coatings be used in applications that may be exposed to corrosive particulates in the airstream. These applications include wastewater treatment plants, gas and oil refinery operations, battery manufacturers, areas with Sulfur water, wineries, chemical plants, pulp and paper mills, and seacoast installations. Contact your Bard distributor for additional information regarding cabinet coating options.

4= Exterior Unit Cabinet & Condenser Section

The 4 option unit contains our corrosion resistance phenolic coated coils and a coated unit condenser section. By coating the condenser section, the copper tubing, motor mount, sheet metal parts, filter/drier and compressor housing in the condenser area are protected with a epoxy semi-gloss coating.

5= Exterior & Interior

The 5 option unit contains our corrosion resistance phenolic coated coils and is both internally and externally coated. By coating the interior and exterior of the unit, the copper tubing, motor mount, sheet metal parts, filter/drier, compressor housing, blower assembly, and any optional ventilation features are protected with a epoxy semi-gloss coating. This is the highest level of protection available. It is required for applications where the internal and external features of the unit are exposed to a high level of salt or corrosive chemicals.

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

Factory installed controls are provided by Bard 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.
E	Hi Pressure Switch, Low Pressure Switch, Compressor Control Module, **Low Ambient Control**
F	Hi Pressure Switch, Low Pressure Switch, Compressor Control Module, **Low Ambient Control, Dirty Filter Press. Switch**
J	Hi Pressure Switch, Low Pressure Switch, Compressor Control Module, **Low Ambient Control, Alarm Relay**
K	Hi Pressure Switch, Low Pressure Switch, Compressor Control Module, **Low Ambient Control, PTCR Start Kit**
M	Hi Pressure Switch, Low Pressure Switch, Compressor Control Module, **Low Ambient Control, Alarm Relay, PTCR Start Kit**
V	Hi Pressure Switch, Low Pressure Switch, Compressor Control Module, **Low Ambient Control, Alarm Relay, Discharge temperature sensor, Indoor Blower Airflow Press. Switch, Compressor Current Sensor, Dirty Filter Pressure Switch** *(Not available for Dehum models)*

/////// 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	W42AC, W48AC, W60AC, W72AC	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	CMC-33	W42AC, W48AC, W60AC, W72AC	Dirty Filter Kit
E	CMA-39	W42AC, W48AC, W60AC, W72AC	Low Ambient Control allows compressor cooling between 0°F and 50°F outdoor temp. - fan cycling
NA	CMA-42	W42AC, W48AC, W60AC, W72AC	Alarm Relay Kit
NA	CMA-43	W42AC, W48AC, W60AC, W72AC	Outdoor Thermostat Kit used to disable compressor cooling below 50°F outdoor temp. Adjustable between 50° and 0°F
V	CMA-44	W42AC, W48AC, W60AC, W72AC	Kit Includes Discharge temperature sensor, Indoor Blower Airflow Press. Switch, Compressor Current Sensor, Dirty Filter Pressure Switch

24VAC LOW VOLTAGE TERMINAL DESIGNATIONS

Bard 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 disables. 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.

Crankcase Heater (CCH) - The heater is a belly band that is installed around the base of the compressor that applies heat when the refrigeration system is not operational. This heat is meant to prevent refrigerant oil migration when the unit is not running. Normal scroll compressor use does not require the use of the CCH, and this option is only recommended for northern areas of the US and Canada with extreme cold operation. Field Install Option Only.

Outdoor Thermostat (ODT) - The outdoor thermostat measures outdoor temperatures and includes relay contacts (NO). The relay is located on the outer control panel and the sensor bulb is mounted to the fan shroud in the outdoor condenser section. When wired into the cooling signal inside the control panel, compressor operation can be disabled when temperatures are below the adjustable setting. Adjustment range is 0°F to 50°F.

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.

Dirty Filter Switch Indicator (DFS) - The switch is adjustable and measures pressure drop across the unit filter surface. When pressure drop is higher than the switch setting NO and NC contacts are provided to indicate the filter needs to be serviced.

Discharge Air Sensor - The discharge air sensor provides a temperature reading of the supply air leaving the unit. The sensor is a 10K OHM @ 77°F measuring device. It is installed in the supply air stream in the heater bracket. Airflow Switch - The airflow switch measures the pressure differential between the blower inlet and outlet. It is located directly above the blower partition. Relay contacts (NO) are provided for V controls option that indicates the indoor blower assembly needs to be serviced. The F controls option has indicator light only.

Compressor Current Sensor - The compressor current sensor indicates when the compressor is operational by measuring Amp draw. It is located inside the unit control panel. Relay contacts (NO) are provided to indicate the compressor is not operating.

CABINET AND CLEARANCE DIMENSIONS - W**AC SERIES UNITS

CLEARANCES REQUIRED FOR SERVICE ACCESS AND ADEQUATE CONDENSER INLET AIRFLOW

MODELS	LEFT SIDE	RIGHT SIDE
W42AC, W48AC, W60AC, W72AC	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.) Bard 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.) Bard recommends a minimum of 15 ft. between the condenser air outlets of 2 units that are facing each other.
5.) Bard recommends a minimum clearance of 4" under the unit cabinet for condenser defrost drainage during heat pump operation.

MINIMUM CLEARANCES REQUIRED TO COMBUSTIBLE MATERIALS

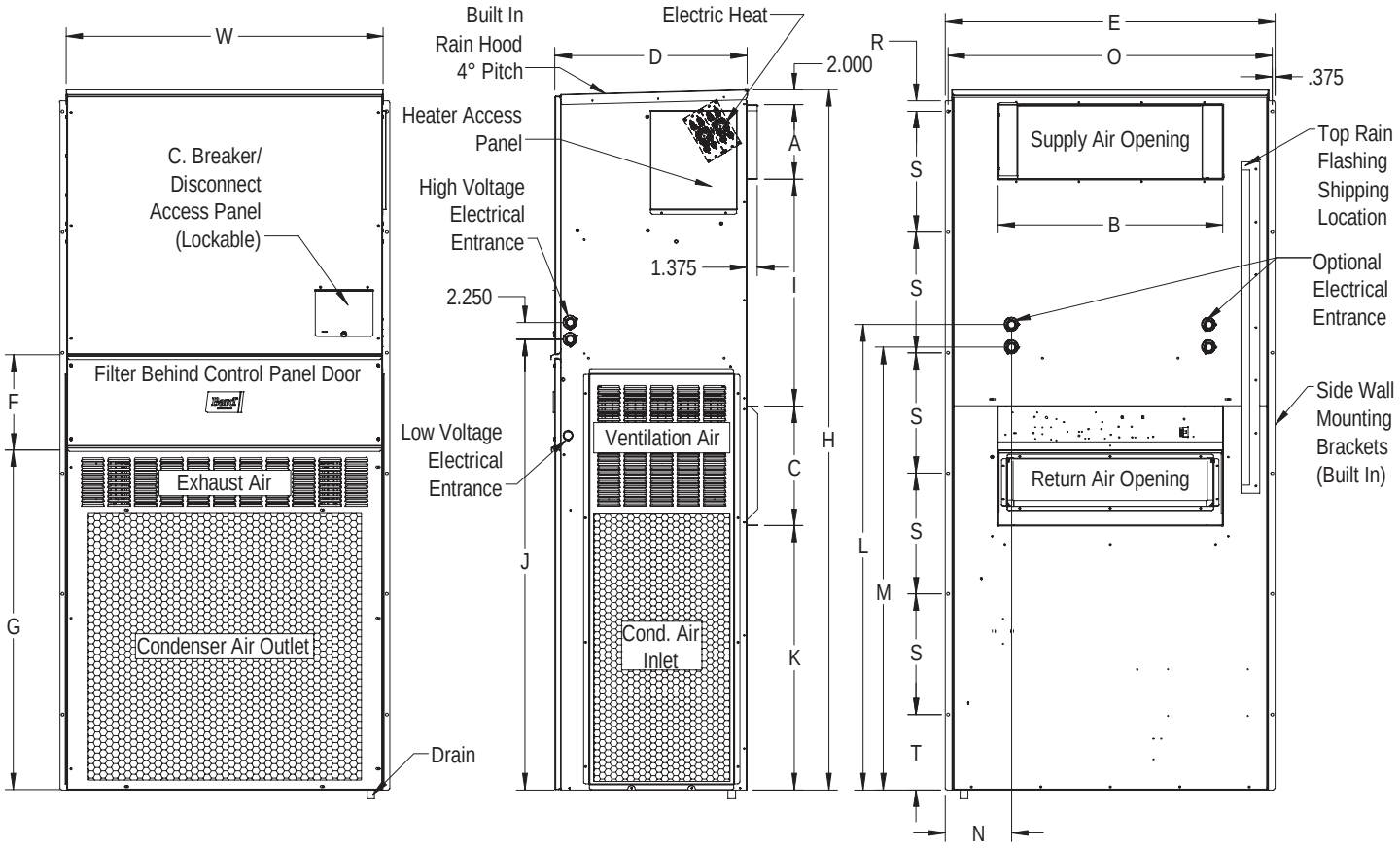
MODELS ①	SUPPLY AIR DUCT FIRST THREE FEET	CABINET
W42AC, W48AC, W60AC, W72AC	1/4"	0"

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
W42AC W48AC	42	25.52	84.88	9.88	29.88	15.88	29.88	25.52	43.88	12.63	39.06	30	53.75	26.94	55.59	52.59	8.82	43	1.438	16	1.88
W60AC W72AC	42	25.52	93.00	9.88	29.88	15.88	29.88	25.52	43.88	12.63	45	30	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.



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/////// 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
WMICF5-*	W42AC, W48AC,W60AC, W72AC	Provides vibration isolation for reduced sound transmission through wall
WWC5-*	W42AC, W48AC, W60AC, W72AC	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-*	W42AC, W48AC, W60AC, W72AC	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

Bard 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.

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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.