BARD WALL-MOUNT™ Single Stage Air Conditioners 2 to 6 Ton Capacity
W24A - W72A Unit Models 200V - 415V, Single and Three Phase 50hz

WA Series WALL-MOUNT™

The Bard WA Series Wall-Mount Air Conditioner is an energy efficient self contained system that is designed to offer maximum indoor temperature control. Installed on an exterior wall surface, the WA Series provides cooling and heating without using valuable indoor floor space or outside ground space. This unit is the ideal product for versatile applications such as: modular buildings, light commercial, mobile buildings, schools, mining, petro-chemical, telecom, industrial, energy storage, and data centers. Factory or field installed accessories are available to meet specific job requirements for your unique application.



WA Series Features:

- 2 to 6 ton cooling capacity uses energy efficient components including today's newest compressor designs.
- Multi-speed Electronically commutated indoor motor (ECM) technology.
- Enclosed outdoor fan motor with ball bearing construction.
- Copper/Aluminum finned coils, and refrigerant system includes filter drier. Evaporator coil includes green fin coil protection.
- R-454B A2L Refrigerant that meets the global objectives outlined in the Montreal Protocol and the Kigali Amendment.
- Factory or field installed ventilation options including economizers.
- Multiple cabinet finishes including stainless steel and aluminum.
- Coil and cabinet coating options for additional corrosion protection.
- Optional factory or field installed electric heater options from 5kw up to 15kw.
- Optional Circuit breakers for 220/200V single and three phase units.
- Filter options up to MERV13.
- Controls include short cycle protection and phase monitoring. Hi and low pressure switch refrigerant system protection standard. Refrigerant detection system (RDS) included with all models.

WA Series 50hz Unit Compliance:

- Intertek ETL Listed to Standard for Safety of Household and Similar Electrical Appliances ANSI/UL STD 60335-1 & ANSI/UL STD 60335-2-40/CSA STD C22.2 No. 60335-1 & CSA STD C22.2 No. 60335-2-40 Fourth Edition.
- Commercial Product - Not intended for residential applications.
- Bard is an ISO 9001:2015 Certified Manufacturer.

ISO 9001:2015 CERTIFICATION intertek

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FORM NO. S3657-0526

/////// WALL-MOUNT W24A (2 TON) TO W72A (6 TON) 50HZ UNIT NOMENCLATURE

MODEL #	W	36	A	F	-	D	0Z	X	P	X	X	X	J
DIGIT #	1	2,3	4	5	6	7	8,9	10	11	12	13	14	15

1

1. Series - Single Stage Compressor	
W	Bard Exterior **W**all-Mount

2,3

2-3. Nominal Capacity			
24	2.0 Ton	42	3.5 Ton
30	2.5 Ton	48	4.0 Ton
36	3.0 Ton	60	5.0 Ton
		72	6.0 Ton

4

4. Unit Type - Controls Location		Units
A	AC-Right or Center Controls	W24-W72
L	AC-Left Side Controls	W24-W36

5

5. Revision	
F	Revision (R-454B Refrigerant)

6

6. Special Feature Placeholder	
-	Standard Unit

7

7. Voltage		Ph.	Hz.	Units
D	200/220VAC	1	50	W24-W36
E	200/220VAC	3	50	W36-W60
F	380/415VAC	3	50	W24-W72

8,9

8-9. Electric Heater Options	
0Z	0Kw with Breaker or Disconnect
04-15	4-15Kw Heat w/breaker or Disc.

10

10. Ventilation Package Options		Units
X	Barometric Air Damper (Intake)	W24-W72
A	Bar. Air Damper (Intake+Exh)	W24-W72
B	Block Off Plate (No Vent)	W24-W72
M	Powered Comm. Vent, On/Off	W24-W72
V	Powered Comm. Vent, On/Off/Mod.	W24-W72
D	Economizer, Field Supplied Controls	W24-W72
Y	Full Flow Economizer, JADE, Dry Bulb	W24-W72
Z	Full Flow Economizer, JADE, Enthalpy	W24-W72
S	No Hood Economizer, JADE, Enthalpy	W24-W36

11

11. Filter and IAQ Options	
X	Standard 1” MERV2 Disposable Filter.
W	1” MERV2 Washable Filter.
P	2” MERV8 Disposable Filter.
M	2” MERV11 Disposable Filter.
N	2” MERV13 Disposable Filter.

12

12. Cabinet Color and Finish	
X	Standard Beige Enamel Painted Steel.
1	White Enamel Painted Steel.
4	Buckeye Gray Enamel Painted Steel.
5	Desert Brown Enamel Painted Steel.
8	Dark Bronze Enamel Painted Steel.
S	316 Stainless Steel Exterior Finish.
A	Stucco Textured Aluminum Exterior Finish

13

13. Cabinet Style	
X	Standard Cabinet

14

14. Coil and Cabinet Coatings	
X	Standard Copper/Aluminum evap and cond coils.
1	Coated indoor evap coil, std outdoor cond. coil.
2	Coated outdoor cond coil, std indoor evap coil.
3	Coated indoor evap and outdoor cond coil.
4	Coated coils and unit cabinet condenser area.
5	Coated coils and interior/exterior cabinet.

15

15. Unit Mounted Controls Options Standard: Hi/Lo Pressure and Ref. Leak (RDS) Sensor	
X	Standard Controls
E	X + Low Ambient Control (LAC)
J	X + LAC and Alarm Relay (ALR)
F	X + LAC, ALR, and Filter Switch (FS)
V	X + DDC Control Sensor kit

CAPACITY AND EFFICIENCY

MODELS	W24AF W24LF	W30AF W30LF	W36AF W36LF	W42AF	W48AF	W60AF	W72AF
Cooling Capacity BTUH	24,000	29,000	35,600	42,000	48,000	57,000	72,000
Unit efficiency EER	11.4	11.3	11.0	11.9	11.4	11.4	10.0

UNIT COOLING CAPACITY AT VARIOUS INDOOR AND OUTDOOR CONDITIONS

MODEL	INDOOR RETURN AIR (DB/WB)	COOLING CAPACITY (BTUH)	DRY BULB OUTDOOR AIR TEMPERATURE ENTERING UNIT CONDENSER AREA										
			75°F 23.9°C	80°F 26.6°C	85°F 29.4°C	90°F 32.2°C	95°F 35°C	100°F 37.8°C	105°F 40.5°C	110°F 43.3°C	115°F 46.1°C	120°F 48.8°C	125°F 51.6°C
W24AF	75/62	Total Cooling	26300	24700	23400	22200	20900	19900	19000	18200	17500	16900	16300
		Sensible Cooling	21100	19800	18700	17800	17100	16500	16000	15800	15600	15600	15800
	80/67	Total Cooling	28000	26900	25900	25000	24000	23200	22400	21700	21000	20400	19800
		Sensible Cooling	20400	19400	18500	17800	17200	16800	16400	16300	16200	16300	16600
	85/72	Total Cooling	33400	31500	29800	28300	26700	25400	24200	23100	22100	21200	20400
		Sensible Cooling	20900	19700	18600	17700	16900	16300	15700	15300	15000	14800	14700
W30AF	75/62	Total Cooling	31500	29800	28100	26700	25300	24100	23000	22100	21200	20400	19700
		Sensible Cooling	24300	23400	22600	22000	21300	20800	20300	19900	19400	19000	18700
	80/67	Total Cooling	33600	32400	31200	30100	29000	28100	27100	26300	25500	24700	24000
		Sensible Cooling	23500	22900	22400	22000	21500	21100	20800	20500	20200	19900	19700
	85/72	Total Cooling	40100	37900	35900	34000	32200	30800	29200	28000	26800	25700	24700
		Sensible Cooling	24100	23300	22500	21900	21100	20400	19900	19200	18600	18000	17500
W36AF	75/62	Total Cooling	38700	36600	34600	32800	31000	29500	28200	26900	25700	24600	23700
		Sensible Cooling	30200	29200	28200	27200	26500	25800	25100	24500	24100	23600	23300
	80/67	Total Cooling	41300	39800	38400	37000	35600	34400	33200	32000	30900	29800	28900
		Sensible Cooling	29300	28600	27900	27200	26700	26200	25700	25300	25000	24700	24500
	85/72	Total Cooling	49200	46600	44100	41800	39600	37700	35800	34100	32500	31000	29700
		Sensible Cooling	30000	29100	28100	27000	26200	25400	24500	23700	23100	22300	21700
W42AF	75/62	Total Cooling	43800	42300	40600	38800	36600	34300	31800	29000	26100	23000	19600
		Sensible Cooling	34500	33300	32200	31300	30400	29700	29100	28500	26100	23000	19600
	80/67	Total Cooling	46700	46100	45100	43800	42000	39900	37500	34600	31400	27800	23900
		Sensible Cooling	33400	32600	31900	31300	30700	30200	29800	29400	29100	27800	23900
	85/72	Total Cooling	55600	53900	51800	49500	46700	43700	40500	36800	33000	28900	24600
		Sensible Cooling	34200	33100	32100	31100	30100	29200	28400	27600	26800	25100	21200
W48AF	75/62	Total Cooling	49900	47800	45800	43700	41800	40000	38200	36600	35000	33300	31900
		Sensible Cooling	39100	38200	37400	36500	35700	34900	34100	33400	32700	32000	31300
	80/67	Total Cooling	53300	52100	50800	49400	48000	46600	45100	43600	42100	40400	38800
		Sensible Cooling	37900	37400	37000	36500	36000	35500	35000	34500	34000	33500	32900
	85/72	Total Cooling	63500	60900	58400	55800	53300	51000	48600	46400	44300	42000	39900
		Sensible Cooling	38800	38000	37200	36300	35300	34400	33400	32400	31300	30300	29100
W60AF	75/62	Total Cooling	64100	59800	56000	52700	49600	47100	44900	43100	41600	40400	39500
		Sensible Cooling	49400	47000	44900	43100	41500	40200	39200	38400	37800	37500	37300
	80/67	Total Cooling	68400	65100	62200	59500	57000	54900	53000	51400	50000	49000	48100
		Sensible Cooling	47900	46100	44500	43100	41900	40900	40200	39700	39300	39200	39300
	85/72	Total Cooling	81500	76100	71400	67200	63300	60100	57200	54700	52500	50900	49500
		Sensible Cooling	49100	46800	44700	42800	41100	39600	38300	37200	36200	35400	34800
W72AF	75/62	Total Cooling	80300	75000	70300	66300	62700	59700	57300	55200	53800	52600	52000
		Sensible Cooling	58700	56000	53700	51600	49800	48300	47000	46000	45200	44500	44200
	80/67	Total Cooling	85700	81700	78100	74900	72000	69600	67600	65900	64700	63800	63400
		Sensible Cooling	56900	54900	53200	51600	50300	49200	48200	47500	47000	46600	46500
	85/72	Total Cooling	102100	95500	89700	84600	80000	76100	72900	70100	68000	66300	65200
		Sensible Cooling	58300	55700	53400	51300	49300	47600	45900	44500	43300	42100	41100

Unit compressor cooling operation between 60°F and 0°F outdoor temperatures requires a Low Ambient Control (LAC). Cooling between 0°F and -40°F outdoor temperatures requires economizer use.

- 1000 BTUH = .29307 kW
- Outdoor air temperatures provided are an average of the entering condenser inlet air temperature. Follow all unit clearance requirements provided for the product.

Capacity Multiplier Factors							
% of Rated Airflow	-30%	-20%	-10%	Rated	+10%	+20%	+30%
Total BTUH	0.93	0.95	0.97	1	1.01	1.02	1.04
Sensible BTUH	0.90	0.93	0.95	1	1.02	1.05	1.09

2 TON W24A TO 3 TON W36A RIGHT SIDE CONTROLS CABINET DIMENSIONS

DIMENSIONS OF W18-36A BASIC UNIT FOR ARCHITECTURAL & INSTALLATION REQUIREMENTS (NOMINAL)																						
MODEL	WIDTH (W)	DEPTH (D)	HEIGHT (H)	SUPPLY		RETURN		UNIT CABINET														
				A	B	C	D	E	F	G	I	J	K	L	M	N	O	P	Q	R	S	T
W24A	33.30	17.13	74.56	7.88	19.88	11.88	19.88	35.00	10.88	29.75	20.56	30.75	32.06	33.25	31	2.63	34.13	26.06	10.55	3.94	12	9
W30A W36A	38.20	17.13	74.56	7.88	27.88	13.88	27.88	40.00	10.88	29.75	17.93	30.75	32.75	33.25	31	2.75	39.13	26.75	9.14	3.94	12	9

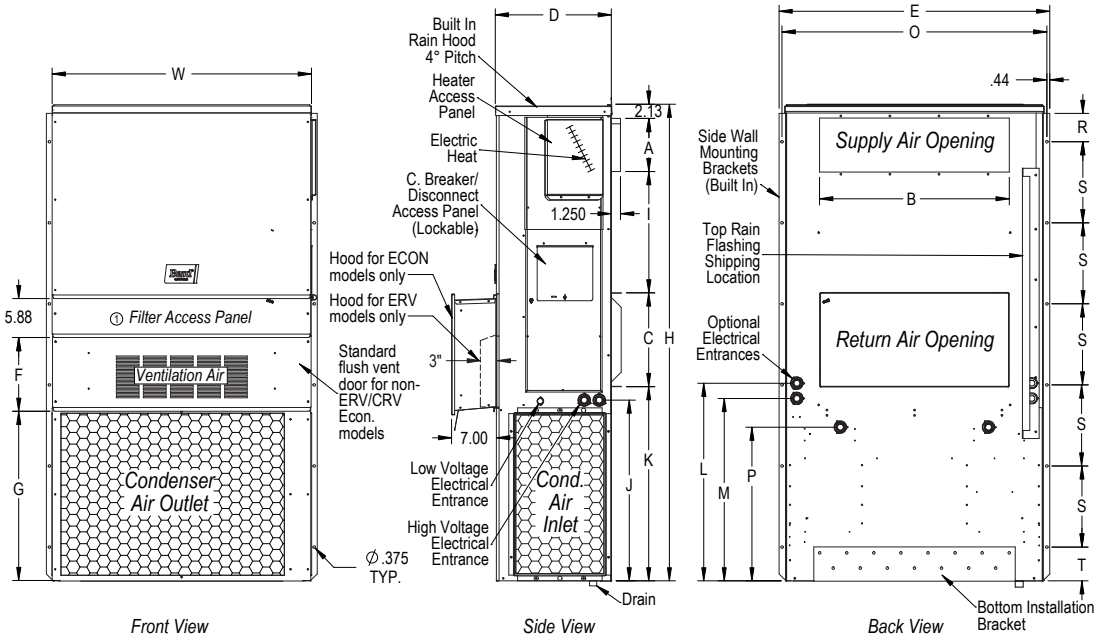
CLEARANCES REQUIRED FOR SERVICE AND CONDENSER AIRFLOW			
MODELS	LEFT SIDE	RIGHT SIDE	FRONT
W24A W30A, W36A	15"	20"	10'

MINIMUM CLEARANCES REQUIRED TO COMBUSTIBLE MATERIALS		
MODELS ①	SUPPLY AIR DUCT FIRST 3 FT.	CABINET
W24A	0"	0"
W30A, W36A	1/4"	0"

① Refer to the Installation Manual for more detailed information.

Note:

Opposing units that face each other require 15' clearance between condenser outlets.



MIS-3796 B

2 TON W24L TO 3 TON W36L LEFT SIDE CONTROLS CABINET DIMENSIONS

DIMENSIONS OF W18-36L BASIC UNIT FOR ARCHITECTURAL & INSTALLATION REQUIREMENTS (NOMINAL)																						
MODEL	WIDTH (W)	DEPTH (D)	HEIGHT (H)	SUPPLY		RETURN		UNIT CABINET														
				A	B	C	B	E	F	G	I	J	K	L	M	N	O	P	Q	R	S	T
W24L	33.30	17.13	74.56	7.88	19.88	11.88	19.88	35.00	10.88	29.75	20.56	30.75	32.06	33.25	31	2.63	34.13	26.06	10.55	3.94	12.00	9.00
W30L W36L	38.20	17.13	74.56	7.88	27.88	13.88	27.88	40.00	10.88	29.75	17.93	30.75	32.75	33.25	31	2.75	39.13	26.75	9.14	3.94	12.00	9.00

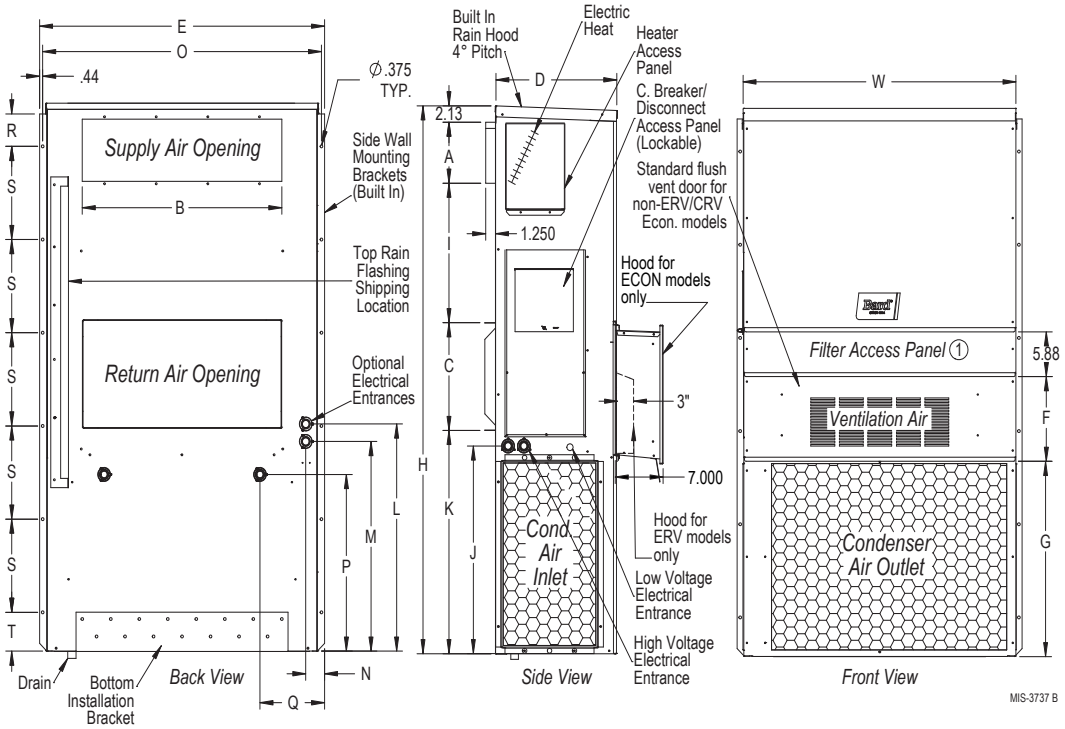
CLEARANCES REQUIRED FOR SERVICE AND CONDENSER AIRFLOW			
MODELS	LEFT SIDE	RIGHT SIDE	FRONT
W24L W30L, W36L	20"	15"	10'

MINIMUM CLEARANCES REQUIRED TO COMBUSTIBLE MATERIALS		
MODELS ①	SUPPLY AIR DUCT FIRST 3 FT.	CABINET
W24L	0"	0"
W30L, W36L	1/4"	0"

① Refer to the Installation Manual for more detailed information.

Note:

Opposing units that face each other require 15' clearance between condenser outlets.



MIS-3737 B

3.5 TON W42A TO 6 TON W72A CENTER CONTROLS CABINET DIMENSIONS

DIMENSIONS OF W42-72A BASIC UNIT FOR ARCHITECTURAL & INSTALLATION REQUIREMENTS (NOMINAL)																							
MODEL	WIDTH (W)	DEPTH (D)	HEIGHT (H)	SUPPLY		RETURN		UNIT CABINET															
				A	B	C	B	E	F	G	I	J	K	L	M	N	O	R	S	T	U	V	
W42A W48A	42	25.52	84.75	9.88	29.88	15.88	29.88	43.88	12.63	39.06	30.06	43.25	26.94	55.59	52.59	8.82	43	1.44	16	1.88	10.50	12.00	
W60A W72A	42	25.52	92.88	9.88	29.88	15.88	29.88	43.88	12.63	45	30.06	49.25	35.06	61.72	58.72	8.82	43	1.44	16	10	13.88	15.43	

CLEARANCES REQUIRED FOR SERVICE AND CONDENSER AIRFLOW			
MODELS	LEFT SIDE	RIGHT SIDE	FRONT
W42A, W48A W60A, W72A	20"	20"	10'

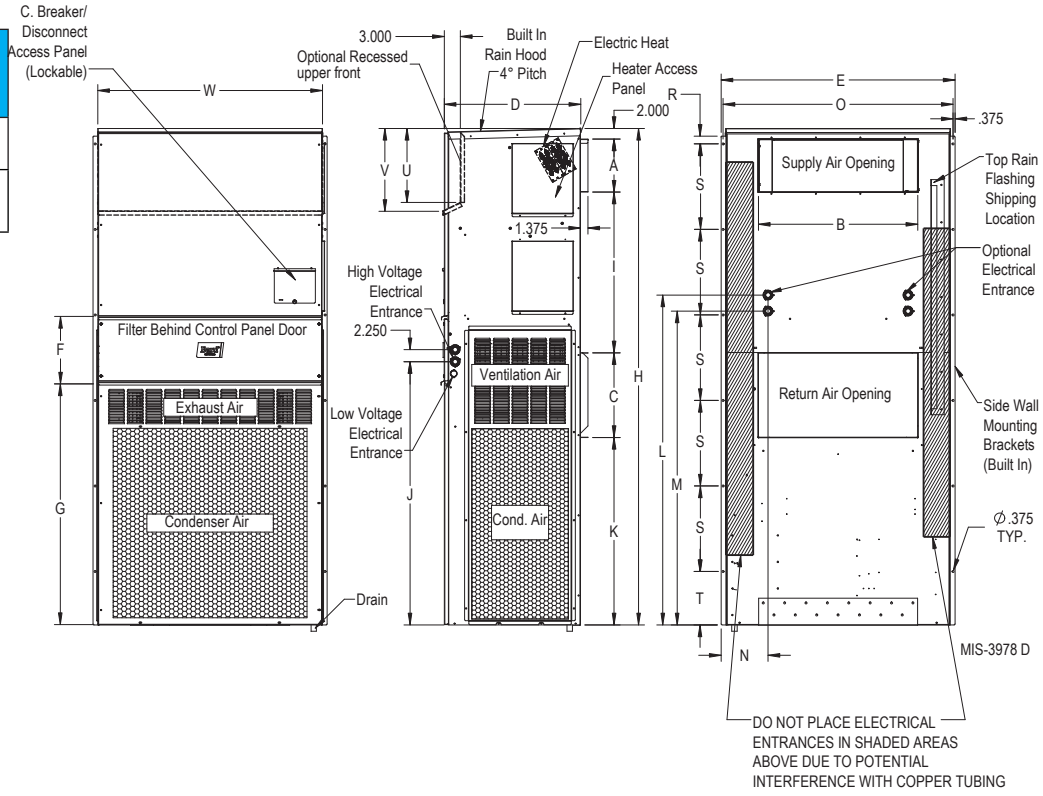
ECONOMIZER, ERV, OR CRV VENTS REQUIRE 40" ON EITHER RIGHT OR LEFT SIDE FOR INSTALLATION OR REMOVAL. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.

MINIMUM CLEARANCES REQUIRED TO COMBUSTIBLE MATERIALS		
MODELS ①	SUPPLY AIR DUCT FIRST 3 FT.	CABINET
W42A, W48A W60A, W72A	1/4"	0"

① Refer to the Installation Manual for more detailed information.

Note:

Opposing units that face each other require 15' clearance between condenser outlets.



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

UNIT	DUCT FREE IN-DOOR COOLING OPERATION @ 5 FT.	DUCT FREE IN-DOOR COOLING OPERATION @ 10 FT.	DUCTED INDOOR COOLING OPERATION @ 5 FT.	DUCTED INDOOR COOLING OPERATION @ 10 FT.	OUTDOOR @ 10 FT.
W24A/W24L	52.4	50.4	51.9	48.9	62.3
W30A/W30L	53.9	52.9	54.5	47.3	67.1
W36A/W36L	53.9	52.9	54.5	47.3	67.1
W42A	56.1	51.7	56.3	51.1	68.6
W48A	57	52.7	57.8	52.8	69
W60A	56.5	53.3	56	52.7	66.8
W72A	61.2	56.6	60.8	57.1	77.1

Integrated values calculated per ANSI/ASA S12.60-2009/Part 2, Section 5.2.2.1.

GENERAL UNIT ELECTRICAL SPECIFICATIONS

MODELS	CONTROL PANEL CABINET LOCATION	NOMINAL VOLTAGE VAC	PH	HZ	VOLTAGE RANGE VAC	RATED LOAD AMPS (RLA)	BRANCH CIRCUIT SELEC-TION CURRENT (BCSC)	LOCKED ROTOR AMPS (LRA)	INDOOR MOTOR VOLT-AGE	INDOOR MOTOR AMPS	IN-DOOR MOTOR HP	OUT-DOOR MOTOR VOLT-AGE	OUT-DOOR MOTOR AMPS	OUT-DOOR MOTOR HP
W24AF-D	Right Side	240/220V	1	50	198-254V	11.1/12.7	10.9	83.5	230V	1.2/1.3	1/3	230V	1.0/1.0	1/3
W24AF-F	Right Side	415/380V	3	50	342-456V	7.5/8.6	4.5	38.1	230V	1.2/1.3	1/3	230V	1.0/1.0	1/3
W24LF-F	Left Side													
W30AF-D	Right Side	240/220V	1	50	198-254V	12.6/14.6	13.5	90.6	230V	1.7/1.7	1/2	230V	1.4/1.4	1/3
W30AF-F	Right Side	415/380V	3	50	342-456V	15.0/10.7	5.8	44.3	230V	1.7	1/2	230V	1.4/1.4	1/3
W30LF-F	Left Side													
W36AF-E	Right Side	220/200V	3	50	180-242V	12.1/13.8	12.8	102.8	230V	2.3/2.5	1/2	230V	1.3/1.3	1/3
W36AF-F	Right Side	415/380V	3	50	342-456V	6.6/6.6	5.8	50	230V	2.5	1/2	230V	1.3/1.3	1/3
W36LF-F	Left Side													
W42AF-F	Unit Front	415/380V	3	50	342-456V	6.7/6.7	5.8	49	230V	1.8/2.0	1/2	230V	2.0/1.9	1/2
W48AF-F	Unit Front	415/380V	3	50	342-456V	6.0/6.0	7.1	67.8	230V	3.1/3.2	3/4	230V	1.9/1.9	1/2
W60AF-E	Unit Front	220/200V	3	50	180-242V	24.6/28.5	21.7	166.2	230V	3.4/3.6	3/4	230V	1.8/1.9	1/2
W60AF-F	Unit Front	415/380V	3	50	342-456V	12.1/12.1	9.2	74.6	230V	3.4/3.6	3/4	230V	1.8/1.9	1/2
W72AF-F	Unit Front	415/380V	3	50	342-456V	14.4/14.4	11.2	100	230V	4.3/4.6	3/4	230V	3.7/3.8	1/2

Note: All units have a Short Circuit Current Protection Rating (SCCR) of 5kA RMS Symmetrical.

GENERAL UNIT REFRIGERANT AND MECHANICAL SPECIFICATIONS

UNIT MODEL	REFRIGERANT SYSTEM			INDOOR EVAPORATOR BLOWER			OUTDOOR CONDENSER FAN		
	CHARGE TYPE	UNIT CHARGE RATE	COMPRES-SOR TYPE	INDOOR MOTOR -SPEEDS	INDOOR FAN	INDOOR CFM - RATED ESP	OUTDOOR MOTOR	OUTDOOR FAN	OUTDOOR FAN CFM
W24	R-454B	3.88 lbs.	Scroll	ECM-5SPD	Dual Blower	800 - .10	ECM	18” Axial	1800
W30	R-454B	3.44 lbs.	Scroll	ECM-5SPD	Dual Blower	950 - .15	ECM	20” Axial	2200
W36	R-454B	3.81 lbs.	Scroll	ECM-5SPD	Dual Blower	1150 - .15	ECM	20” Axial	2000
W42	R-454B	6.06 lbs.	Scroll	ECM-5SPD	Dual Blower	1350 - .15	ECM	24” Axial	2900
W48	R-454B	6.00 lbs	Scroll	ECM-5SPD	Dual Blower	1550 - .20	ECM	24” Axial	3050
W60	R-454B	7.94 lbs.	Scroll	ECM-5SPD	Dual Blower	1750 - .20	ECM	24” Axial	3050
W72	R-454B	8.31 lbs.	Scroll	ECM-5SPD	Dual Blower	1900 - .25	ECM	24” Axial	3750

AVAILABLE HEATER PACKAGES AND FIELD WIRING DATA - W24A STANDARD UNITS

UNIT MOD-EL	KW OPTION	RATED VOLTAGE AND PHASE (50HZ)	CONNECTION POINT	NO. OF FIELD CIR-CUITS	SINGLE CIRCUIT		FIELD INSTALLED HEATER KIT PART NUMBERS. HEATERS CAN BE FACTORY OR FIELD INSTALLED.
					MINIMUM CIRCUIT AMPACITY (MCA)	MAX. OVER CURRENT PROTECTION (MOCP)	
W24AF-D	0Z	240/220-1	C BREAKER	1	19	25	WMCB-03A
	05	240/220-1	C BREAKER	1	31	35	EHWA024A-A05
	10	240/220-1	C BREAKER	1	57	60	EHWA018B-A10
W24AF-F	0Z	415/380-3	DISCONNECT	1	9	15	WMPD-01C
	04	415/380-3	DISCONNECT	1	11	15	EHWA024A-C05

CAUTION: When more than one field power circuit is run through one conduit, the conductors must be de-rated. 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. MOCP (Maximum Over-current Protection) value listed is the maximum value as per UL 60335 calculations for MOCP (branch-circuit conductor sizes in this chart are based on this MOCP). The actual factory installed Over-current Protective Device (Circuit Breaker) in this model may be lower than the maximum UL 60335 allowable MOCP value, but still above the UL 60335 minimum calculated value or Minimum Circuit Ampacity (MCA) listed. Refer to the National Electrical code (latest version), Article 310 for power conductor sizing. Review all wiring and safety information provided in the installation manual for the product.

AVAILABLE HEATER PACKAGES AND FIELD WIRING DATA - W30A TO W72A STANDARD UNITS

UNIT MODEL	KW OPTION	RATED VOLTAGE AND PHASE (50HZ)	CONNECTION POINT	NO. OF FIELD CIRCUITS	SINGLE CIRCUIT		FIELD INSTALLED HEATER KIT PART NUMBERS. HEATERS CAN BE FACTORY OR FIELD INSTALLED.
					MINIMUM CIRCUIT AMPACITY (MCA)	MAX. OVER CURRENT PROTECTION (MOCP)	
W30AF-D	0Z	240/220-1	C BREAKER	1	23	30	WMCB-04A
	05	240/220-1	C BREAKER	1	31	35	EHWA030A-A05
	10	240/220-1	C BREAKER	1	57	60	EHWA030A-A10
W30AF-F	0Z	415/380-3	DISCONNECT	1	11	15	WMPD-01C
	07	415/380-3	DISCONNECT	1	16	20	EHWA030A-C09
	12	415/380-3	DISCONNECT	1	24	25	EHWA030A-C15
W36AF-E	0Z	220/200-3	C BREAKER	1	23	30	WMCB-04B
	05	220/200-3	C BREAKER	1	23	30	EHWA036B-B05
	09	220/200-3	C BREAKER	1	33	35	EHWA030A-B09
W36AF-F	0Z	415/380-3	DISCONNECT	1	12	15	WMPD-01C
	07	415/380-3	DISCONNECT	1	17	20	EHWA036A-C09
	12	415/380-3	DISCONNECT	1	24	25	EHWA036A-C15
W36AFDV	0Z	415/380-3	DISCONNECT	1	12	15	WMPD-01C
	04	415/380-3	DISCONNECT	1	12	15	EHWA036ADC05
	07	415/380-3	DISCONNECT	1	16	20	EHWA036ADC09
W42AF-F	0Z	415/380-3	DISCONNECT	1	12	15	WMCBC-06F
	07	415/380-3	DISCONNECT	1	13	15	EHWA042A-F07
	12	415/380-3	DISCONNECT	1	19	20	EHWA042A-F12
W48AF-F	0Z	415/380-3	DISCONNECT	1	14	20	WMCBC-06F
	07	415/380-3	DISCONNECT	1	14	20	EHWA048A-F07
	12	415/380-3	DISCONNECT	1	16	20	EHWA048A-F12
W60AF-E	0Z	220/200-3	C BREAKER	1	35	45	WMCBC-06F
	09	220/200-3	C BREAKER	1	35	45	EHWA042A-F07
	15	220/200-3	C BREAKER	1	53	60	EHWA042A-F12
W60AF-F	0Z	415/380-3	DISCONNECT	1	17	20	WMCBC-06F
	07	415/380-3	DISCONNECT	1	17	20	EHWA042A-F07
	12	415/380-3	DISCONNECT	1	17	20	EHWA042A-F12
W72AF-F	0Z	415/380-3	DISCONNECT	1	21	25	WMCBC-06F
	07	415/380-3	DISCONNECT	1	21	25	EHWA042A-F07
	12	415/380-3	DISCONNECT	1	29	30	EHWA042A-F12

CAUTION: When more than one field power circuit is run through one conduit, the conductors must be de-rated. 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. MOCP (Maximum Over-current Protection) value listed is the maximum value as per UL 60335 calculations for MOCP (branch-circuit conductor sizes in this chart are based on this MOCP). The actual factory installed Over-current Protective Device (Circuit Breaker) in this model may be lower than the maximum UL 60335 allowable MOCP value, but still above the UL 60335 minimum calculated value or Minimum Circuit Ampacity (MCA) listed. Refer to the National Electrical code (latest version), Article 310 for power conductor sizing. Review all wiring and safety information provided in the installation manual for the product.

AVAILABLE HEATER PACKAGES AND FIELD WIRING DATA - W24L TO W36L LEFT SIDE CONTROL PANEL UNITS

UNIT MODEL	KW OPTION	RATED VOLTAGE AND PHASE (60HZ)	CONNECTION POINT	NO. OF FIELD CIR-CUITS	SINGLE CIRCUIT		FIELD INSTALLED HEATER KIT PART NUMBERS. HEATERS CAN BE FACTORY OR FIELD INSTALLED.
					MINIMUM CIRCUIT AMPACITY (MCA)	MAX. OVER CURRENT PROTECTION (MOCP)	
W24LF-F	0Z	415/380-3	DISCONNECT	1	9	15	WMPD-01CL
	04	415/380-3	DISCONNECT	1	11	15	EHWL024A-C05
W30LF-F	0Z	415/380-3	DISCONNECT	1	11	15	WMPD-01CL
	07	415/380-3	DISCONNECT	1	16	20	EHWL030A-C09
	12	415/380-3	DISCONNECT	1	24	25	EHWL030A-C15
W36LF-F	0Z	415/380-3	DISCONNECT	1	12	15	WMPD-01CL
	07	415/380-3	DISCONNECT	1	17	20	EHWL036A-C09
	12	415/380-3	DISCONNECT	1	24	25	EHWL036A-C15

CAUTION: When more than one field power circuit is run through one conduit, the conductors must be de-rated. 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. MOCP (Maximum Over-current Protection) value listed is the maximum value as per UL 60335 calculations for MOCP (branch-circuit conductor sizes in this chart are based on this MOCP). The actual factory installed Over-current Protective Device (Circuit Breaker) in this model may be lower than the maximum UL 60335 allowable MOCP value, but still above the UL 60335 minimum calculated value or Minimum Circuit Ampacity (MCA) listed. Refer to the National Electrical code (latest version), Article 310 for power conductor sizing. Review all wiring and safety information provided in the installation manual for the product.

ELECTRIC HEAT KW AND BTUH CHART AT FIELD SUPPLIED VOLTAGE

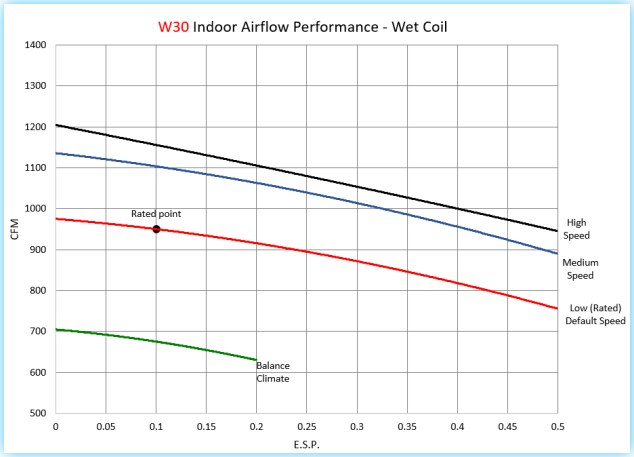
Electric Heat Nomenclature	Total KW and BTUH @ Field-Supplied Voltage													
	@ 220V				@ 200V				@ 415V			@ 380V		
	KW	1-PH Amps	3-PH Amps	BTUH	KW	1-PH Amps	3-PH Amps	BTUH	KW	3-PH Amps	BTUH	KW	3-PH Amps	BTUH
04	3.4	15.3		11,500	2.8	13.8		9,400	3.8	5.2	12800	3.2	4.8	10800
05	4.2	19.1	11.0	14,300	3.5	17.3	10.0	11,800	4.5	6.3	15,400	3.8	5.7	12,900
07									6.8	9.4	23,000	5.7	8.6	19,400
09	7.6		19.8	25,800	6.2		17.9	21,200	9.0	12.5	30,700	7.6	11.5	25,800
10	8.4	38.2		28,700	6.9	34.5		23,500						
12									11.3	15.7	38,400	9.5	14.4	32,300
14									13.5	18.8	46,100	11.3	17.2	38,700
15	12.6	57.3	33.1	43,000	10.4	51.8	29.9	35,300						

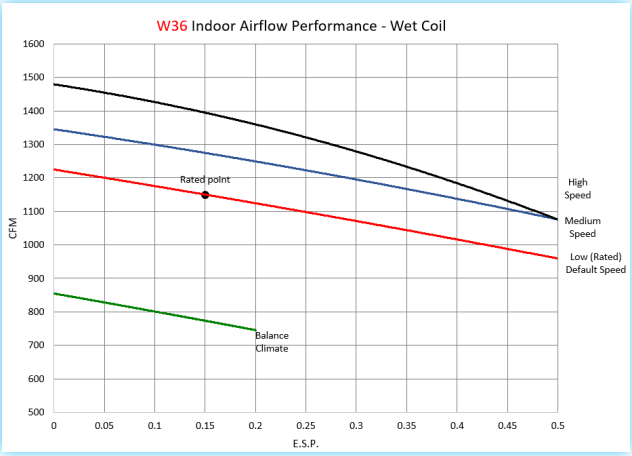
VENTILATION OPTIONS FOR OUTDOOR AIR INTAKE AND ROOM EXHAUST

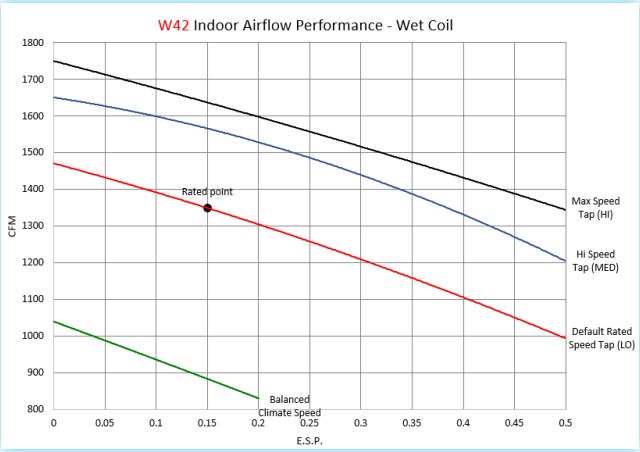
	VENT CODE	FIELD INSTALLED KIT PART NUMBER	UNIT MODEL NUMBER	INSTALLED WEIGHT	EXTERNAL FRONT HOOD DEPTH	VENTILATION OPERATION	OCCUPANCY VENTILATION INPUT SIGNAL	VENT AIRFLOW	DAMPER LEAK-AGE STAN-DARD	VENT USE
Barometric Dampers	X	FAD-NE2	W24	4.0 (1.8)	No Hood	Barometric	None	Up to 25% of rated intake air. No exhaust.	N/A	The Barometric In-take Damper opens when the indoor fan is operating. Pins provide an easy way to set up the damper assembly.
		FAD-NE3	W30, W36	5.0 (2.3)	No Hood	Barometric	None			
		FAD-NE5	W42, W48 W60, W72	13 (5.9)	No Hood	Barometric	None			
	A	FAD-BE2	W24	8.0 (3.6)	No Hood	Barometric	None	Up to 25% of rated intake air with room exhaust.	N/A	This damper provides the same features as the intake version with an added exhaust damper.
		FAD-BE3	W30, W36	9.0 (4.0)	No Hood	Barometric	None			
		FAD-BE5	W42, W48 W60, W72	16 (7.3)	No Hood	Barometric	None			
No Vent	B	BOP-2	W24	1.0 (.5)	No Hood	No Air path	None	None, Air paths are sealed with block off plates.	N/A	The No Vent option provides plates over the intake and exhaust ventilation openings.
		BOP-3	W30, W36	1.0 (.5)	No Hood	No Air path	None			
		BOPLATE-5	W42, W48 W60, W72	14 (6.4)	No Hood	No Air path	None			
Commercial Ventilators	M	CRV-F2-*	W24	31.0 (14.0)	No Hood	Motor,Spring Return	24VAC	Up to 50% of rated intake air with room exhaust.	10cfm/ft2	Powered outdoor intake and room exhaust air damper. Opens when 24VAC is applied.
		CRV-F3-*	W30, W36	35.0 (15.9)	No Hood	Motor,Spring Return	24VAC			
		CRV-F5	W42, W48 W60, W72	42 (19.1)	No Hood	Motor,Spring Return	24VAC			
	V	CRV-V2-*	W24	31.0 (14.0)	No Hood	Motor,Spring Return	24VAC or 2-10VDC	Up to 50% of rated intake air with room exhaust.	4cfm/ft2	Provides outdoor intake and room exhaust air with improved damper sealing. Opens with either a 24VAC signal or DC voltage is applied.
		CRV-V3-*	W30, W36	35.0 (15.9)	No Hood	Motor,Spring Return	24VAC or 2-10VDC			
		CRV-V5A	W42, W48 W60, W72	42 (19.1)	No Hood	Motor,Spring Return	24VAC or 2-10VDC			
Free Cooling Economizers	D	ECON-NC2A-*	W24	37.0 (16.8)	7” (17.8cm)	Motor,Spring Return	2-10VDC	Full rated intake air with room exhaust.	4cfm/ft2	Economizer assem-bly with damper motor. Field supplied controls needed for operation.
		ECON-NC3A-*	W30, W36	37.0 (16.8)	7” (17.8cm)	Motor,Spring Return	2-10VDC			
		ECON-NC5A	W42, W48 W60, W72	44 (20)	No Hood	Motor,Spring Return	2-10VDC			
	S	ECON-S2-*	W24	37.0 (16.8)	No Hood	Motor,Spring Return	24VAC or 0-10VDC	Up to 75% of rated intake air with room exhaust.	4cfm/ft2	Economizer with JADE controller. User defined econ-omizing based on enthalpy curves.
		ECON-S3-*	W30, W36	37.0 (16.8)	No Hood	Motor,Spring Return	24VAC or 0-10VDC			
	Y	ECON-DB2A-*	W24	37.0 (16.8)	7” (17.8cm)	Motor,Spring Return	24VAC or 0-10VDC	Full rated intake air with room exhaust.	4cfm/ft2	Economizer with JADE controller. User defined econo-mizing based on dry bulb temperature.
		ECON-DB3A-*	W30, W36	37.0 (16.8)	7” (17.8cm)	Motor,Spring Return	24VAC or 0-10VDC			
		ECON-DB5A	W42, W48 W60, W72	44 (20)	No Hood	Motor,Spring Return	24VAC or 0-10VDC			
	Z	ECON-WD2A-*	W24	37.0 (16.8)	7” (17.8cm)	Motor,Spring Return	24VAC or 0-10VDC	Full rated intake air with room exhaust.	4cfm/ft2	Economizer with JADE controller. User defined econ-omizing based on enthalpy curves.
		ECON-WD3A-*	W30, W36	37.0 (16.8)	7” (17.8cm)	Motor,Spring Return	24VAC or 0-10VDC			
		ECON-WD5A	W42, W48 W60, W72	44 (20)	No Hood	Motor,Spring Return	24VAC or 0-10VDC			

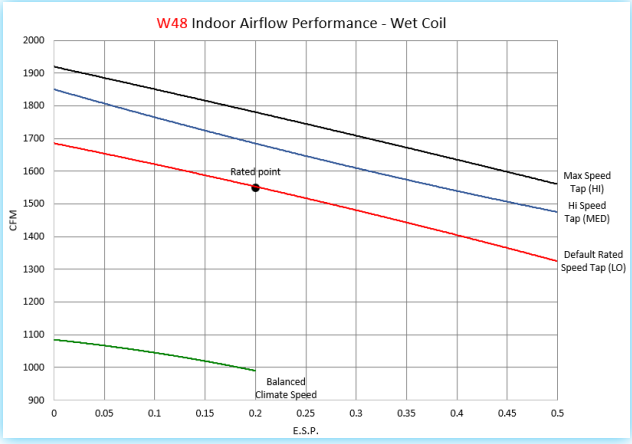
INDOOR AIRFLOW CFM @ STATIC PRESSURES AND ADJUSTABLE SPEEDS - W24 TO W72 UNITS

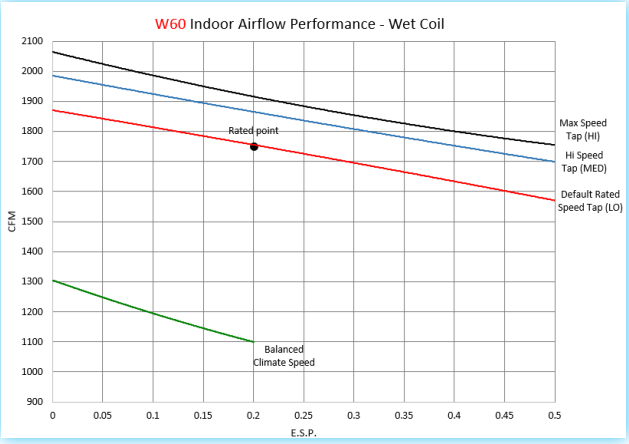


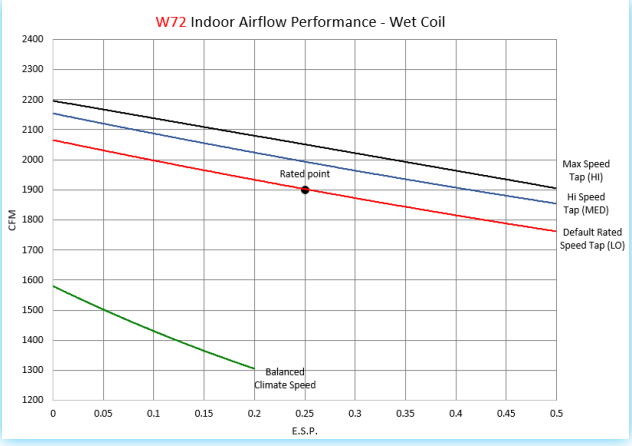












Indoor Airflow Speeds:

Balanced Climate Speed: The WA series uses this speed when the **Balanced Climate option (Y1) or mechanical dehumidification option (D)** is used. Not recommended for static levels higher that Balanced Climate airflow data provided.

LO Speed (Default): The WA series uses this speed by default when using **standard cooling (Y2) or heating operation (W1/W2)**. This speed is labeled as LO on the speed selection terminal strip inside the unit control panel. The WA series also uses this speed when **fan only (G) or ventilation operation (A)** is used. All units ship with cooling and heating operation at LO cooling and heating speed, and provides the **optimal airflow amount for normal use**.

MED Speed (User Selectable): This speed is user selectable when using **standard cooling (Y2) or heating operation (W1/W2)**. This speed is labeled as MED on the speed selection terminal strip inside the unit control panel. The MED speed tap provides an **increase in unit airflow** per the airflow performance chart. Fan only and dehumidification fan operation is not effected by using MED speed.

HI Speed (User Selectable): This speed is user selectable when using **standard cooling (Y2) or heating operation (W1/W2)**. This speed is labeled as HI on the speed selection terminal strip inside the unit control panel. The HI speed tap provides **maximum unit airflow** per the airflow performance chart. Fan only and dehumidification fan operation is not effected by using Hi speed.

INDOOR AIRSTREAM FILTRATION OPTIONS

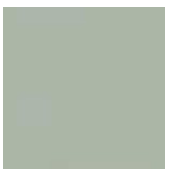
UNIT MODEL	FILTER CODE	FILTER MERV RATING	NUMBER OF FILTERS USED	BARD PART NUMBER	FILTER SIZE INCHES (CM)	FILTER ESP	FILTRATION LEVEL
W24	X	MERV 2	1	7004-011	16x25x1 (41x64x3)	0" WC	Low Filtration, 1" Thickness Disposable Media.
	W	MERV 2	1	7003-032	16x25x1 (41x64x3)	0" WC	Low Filtration, 1" Thickness Cleanable Media.
	P	MERV 8	1	7004-025	16x25x2 (41x64x6)	.03" WC	Average Filtration, 2" Thickness Pleated Disposable Media.
	M	MERV 11	1	7004-059	16x25x2 (41x64x6)	.05" WC	Above Average Filtration, 2" Thickness Pleated Disposable Media.
	N	MERV 13	1	7004-061	16x25x2 (41x64x6)	.08" WC	High Filtration, 2" Thickness Pleated Disposable Media.
W30, W36	X	MERV 2	1	7004-019	16x30x1 (41x77x3)	0" WC	Low Filtration, 1" Thickness Disposable Media.
	W	MERV 2	1	7003-031	16x30x1 (41x77x3)	0" WC	Low Filtration, 1" Thickness Cleanable Media.
	P	MERV 8	1	7004-026	16x30x2 (41x77x6)	.03" WC	Average Filtration, 2" Thickness Pleated Disposable Media.
	M	MERV 11	1	7004-048	16x30x2 (41x77x6)	.05" WC	Above Average Filtration, 2" Thickness Pleated Disposable Media.
	N	MERV 13	1	7004-062	16x30x2 (41x77x6)	.08" WC	High Filtration, 2" Thickness Pleated Disposable Media.
W42, W48, W60, W72	X	MERV 2	2	7004-012	20x20x1 (51x51x3)	0" WC	Low Filtration, 1" Thickness Disposable Media.
	W	MERV 2	2	7003-085	20x20x1 (51x51x3)	0" WC	Low Filtration, 1" Thickness Cleanable Media.
	P	MERV 8	2	7004-052	20x20x2 (51x51x6)	.03" WC	Average Filtration, 2" Thickness Pleated Disposable Media.
	M	MERV 11	2	7004-060	20x20x2 (51x51x6)	.05" WC	Above Average Filtration, 2" Thickness Pleated Disposable Media.
	N	MERV 13	2	7004-063	20x20x2 (51x51x6)	.08" WC	High Filtration, 2" Thickness Pleated Disposable Media.

CABINET COLOR AND FINISH OPTIONS

UNIT MODEL	CABINET COLOR AND FINISH CODE	COLOR AND FINISH	Description
All Units	X	Beige Painted Steel	This cabinet option uses zinc coated steel panels that are cleaned, rinsed, sealed and dried before a polyurethane primer is applied. The cabinet paint coating is comprised of a textured enamel. The resulting finish is designed to withstand over 1000 hours of salt spray tests per ASTM B117-03. . Unit top, structural sides, and front service panels are constructed using 20 gauge materials. The unit base is constructed using 16 gauge galvanized steel. Cabinet components are insulated with a non-fiberglass formaldehyde free insulation that has a high "R" value, is easy to clean with a FSK foil backing, and resists delamination.
	1	White Painted Steel	
	4	Buckeye Gray Painted Steel	
	5	Desert Brown Painted Steel	
	8	Dark Bronze Painted Steel	
All Units	S	Stainless Steel	Exterior Stainless Steel finish cabinets are often selected for corrosion and chemical resistance. The Bard stainless steel unit offers a high quality stainless steel 316 grade enclosure and fasteners for years of operation in these conditions. The exterior cabinet, sheet metal screws, washers, nuts, compressor mounting hardware and outdoor fan motor mount are stainless steel. The condenser fan is corrosion coated for additional protection.
All Units	A	Aluminum	Aluminum external cabinet finish option "A" units are constructed of ASTM B 209 grade .06" thickness panels with a stucco appearance.


X—Beige

1—White


4—Gray


5—Desert


8—Bronze


S—Stainless


A—Aluminum

ADDITIONAL CORROSION COATED EVAPORATOR COIL, CONDENSER COIL, AND CABINET OPTIONS

UNIT MODEL	COIL AND CABINET COATING OPTION	EVAPORATOR COIL	CONDENSER COIL	INTERIOR CONDENSER SECTION	EXTERIOR AND INTERIOR CABINET	DESCRIPTION
All Units	X	STANDARD	STANDARD	STANDARD	STANDARD	Standard green fin evaporator coil and copper aluminum condenser coil. Cabinet is not coated.
	1	**COATED**	STANDARD	STANDARD	STANDARD	Corrosion coated evaporator coil and copper aluminum condenser coil. Cabinet is not coated.
	2	STANDARD	**COATED**	STANDARD	STANDARD	Standard green fin evaporator coil and corrosion coated condenser coil. Cabinet is not coated.
	3	**COATED**	**COATED**	STANDARD	STANDARD	Evaporator coil and condenser coil are both corrosion coated. Cabinet is not coated.
All Units	4	**COATED**	**COATED**	**COATED**	STANDARD	Evaporator coil and condenser coil are both corrosion coated. Cabinet interior condenser section is coated.
All Units	5	**COATED**	**COATED**	**COATED**	**COATED**	Evaporator coil and condenser coil are both corrosion coated. Cabinet interior and exterior is coated.

FACTORY CONTROLS OPTIONS CHART INCLUDING SWITCHES, SENSORS, RELAYS, AND START KITS

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	MODELS	DESCRIPTION OF FACTORY INSTALLED COMPONENTS
X	ALL MODELS	Standard Hi Pressure Switch, Low Pressure Switch, Compressor Control Module, and Refrigerant Detection System (RDS). These controls are standard for all models.
E	ALL MODELS	Standard controls **and Low Ambient Control.**
F	ALL MODELS	Standard controls, **Low Ambient Control, Alarm Relay, and Dirty Filter Pressure Switch.**
J	ALL MODELS	Standard controls, **Low Ambient Control, and Alarm Relay.**
M	"D" VOLTAGE ONLY	Standard controls, **Low Ambient Control, Alarm Relay, and PTCR Start Kit. 220V/200V single phase units only.**
V	ALL MODELS	Standard controls, **Low Ambient Control, Alarm Relay, Discharge temperature sensor, Indoor Blower Airflow Press. Switch, Compressor Current Sensor, Dirty Filter Pressure Switch.**

SHIPPING CRATES

CRATE NO.	UNIT MODELS	DESCRIPTION
8620-263	W24A, W24L	Standard Unit Crate, all vents except economizer.
8620-275	W24A, W24L	Units with Economizer vent (Factory Installed 7" Hood).
8620-262	W30A, W30L, W36A, W36L	Standard Unit Crate, all vents except economizer
8620-276	W30A, W30L, W36A, W36L	Units with Economizer vent (Factory Installed 7" Hood).
8620-304	W42A, W48A	Standard Unit Crate, all ventilation options
8620-305	W60A, W72A	Standard Unit Crate, all ventilation options

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
WWC2-*	W24A, W24L	Install to use with existing 1, 2 or 3 ton wall openings. Wall openings must provide sufficient airflow. Follow all instructions in curb and unit manual including clearances to combustibles and maximum duct static pressure.
WWC3-*	W30A, W30L, W36A, W36L	Install to use with existing 2, 3, or 5 ton wall openings. Wall openings must provide sufficient airflow. Follow all instructions in curb and unit manual including clearances to combustibles and maximum duct static pressure.
WWC5-*	W42A, W48A, W60A, W72A	Install to use with existing 3 and 5 ton wall openings. Wall openings must provide sufficient airflow. Follow all instructions in curb and unit manual including clearances to combustibles and maximum duct static pressure.

* Color Option

FIELD KIT CONTROLS OPTIONS CHART INCLUDING SWITCHES, SENSORS, RELAYS, AND START 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.

KIT PART NO.	UNITS USING KIT	DESCRIPTION OF FIELD INSTALLED KIT
CMA-37	W24A, W24L - 220/200V models	Low Ambient Control allows compressor cooling between 0°F and 50°F outdoor temp. - modulating
CMA-38	W24A, W24L - 415V models	Low Ambient Control allows compressor cooling between 0°F and 50°F outdoor temp. - modulating
CMA-41	W30A, W30L,W36A, W36L, W72A	Low Ambient Control allows compressor cooling between 0°F and 50°F outdoor temp. - fan cycling
CMA-39	W42A, W48A, W60A	Low Ambient Control allows compressor cooling between 0°F and 50°F outdoor temp. - fan cycling
CMA-14	W24A, W24L, W30A, W30L, W36A, W36L	Outdoor Thermostat Kit used to disable compressor cooling below 50°F outdoor temp. Adjustable between 50° and 0°F
CMA-43	W42A, W48A, W60A, W72A	Outdoor Thermostat Kit used to disable compressor cooling below 50°F outdoor temp. Adjustable between 50° and 0°F
CMC-34	W24A, W24L, W30A, W30L, W36A, W36L	Compressor Control Module Lockout Alarm Relay Kit.
CMC-35	W42A, W48A, W60A, W72A	Compressor Control Module Lockout Alarm Relay Kit.

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-2	W24A, W24L	8” x 20” with 1” Flange 4 way deflection supply grille.
SG-3	W30A, W30L, W36A, W36L	8” x 28” with 1” Flange 4 way deflection supply grille.
SG-5	W42A, W48A, W60A, W72A	10” x 30” with 1” Flange 4 way deflection supply grille.
RG-2	W24A, W24L	12” x 20” with 1” Flange return grille.
RG-3	W30A, W30L, W36A, W36L	12” x 28” with 1” Flange return grille.
RG-5	W42A, W48A, W60A, W72A	16” x 30” with 1” Flange return grille.
SG-2W	W24A, W24L	8" x 20" with 2" Flange 4 way deflection supply grille.
SG-3W	W30A, W30L, W36A, W36L	8" x 28" with 2" Flange 4 way deflection supply grille.
SG-5W	W42A, W48A, W60A, W72A	10" x 30" with 2" Flange 4 way deflection supply grille.
RG-2W	W24A, W24L	12" x 20" with 2" Flange return grille.
RG-3W	W30A, W30L, W36A, W36L	12" x 28" with 2" Flange return grille.
RG-5W	W42A, W48A, W60A, W72A	16" x 30" with 2" Flange return grille.
RFG-2W	W24A, W24L	12” x 20” with 2” Flange return grille with filter bracket.*
RFG-3W	W30A, W30L, W36A, W36L	12” x 28” with 2” Flange return grille with filter bracket.*
RFG-5W	W42A, W48A, W60A, W72A	16” x 30” with 2” Flange return grille with filter bracket.*
RGDK-2W	W24A, W24L	12” x 20” with 2” manual shutter style damper. return grille sold separately.
RGDK-3W	W30A, W30L, W36A, W36L	12” x 28” with 2” manual shutter style damper. return grille sold separately.
RGDK-5W	W42A, W48A, W60A, W72A	16" x 30" with 2” manual shutter style damper. return grille sold separately.

* Return filter grilles not recommended to provide primary filtration with units that will bring in outdoor air.

CONTROLLER, THERMOSTAT, AND CO2 VENTILATION CONTROL OPTIONS

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

CONTROLLER	OPERATION	DESCRIPTION
MC4002 (English) MC4002S (Spanish)	1 to 2 Unit Lead/Lag Controller	Standard unit Lead/Lag Controller with remote alarming capability. Optional alarm board and SNMP or web page communication board. On board temperature sensor that can be remote mounted. Can use up to (2) remote temperature sensors.
MC5300	1 to 3 Unit Lead/Lag Controller	Advanced multi-unit Lead/Lag Controller with remote alarming capability. All models have Modbus communication and web pages. Optional alarm board with NO/NC contacts. On board temperature and humidity sensor that can be remote mounted. Can use up to (2) remote temperature sensors.
MC5600	1 to 6 Unit Lead Lag Controller	Advanced multi-unit Lead/Lag Controller with remote alarming capability. All models have Modbus communication and web pages. Optional alarm board with NO/NC contacts. On board temperature and humidity sensor that can be remote mounted. Can use up to (2) remote temperature sensors.

THERMOSTAT	OPERATION	DESCRIPTION
8403-060	3 Heat/3 Cool	Programmable or Nonprogrammable, ventilation output, dehumidification operation
8403-081	3 Heat/2 Cool	BrightStat with motion, BACnet/Modbus, vent output, dehum control, LUA, or optional CO2 card.
8403-083	3 Heat/2 Cool	BrightStat with BACnet/Modbus, vent output, dehum control, LUA, or optional CO2 card.
8403-098	3 Heat/2 Cool	BrightStat with motion, ZigBee, BACnet/Modbus, vent output, dehum control, LUA, or optional CO2 card
8403-101	1 Heat/1 Cool	Nonprogrammable. Auto/Cool/Heat/Off selectable modes. Fan can be set to Circulation/Auto/Off
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.
8403-092	2 Heat/2 Cool	Programmable or Nonprogrammable, Wi-Fi with Lyric Phone application for wireless set point control.
8403-095	2 Heat/1 Cool	Temp. Settings per Day 4, 2, 1, 0 Programs per Week 7, 5-2, 5-1-1 or Nonprogrammable.
8403-102	4 Heat/2 Cool	Programmable 7-day or 5-1-1 or Nonprogrammable-.Auto/Cool/Heat/Off. Fan settings include ON/AUTO.

BRIGHTSTAT ACCESSORY	OPERATION	DESCRIPTION
8612-052	Expansion Card*	ZigBee Pro plug-in card, required for wireless sensors unless using 8403-098. See document S3583 for sensors.
8612-074	Expansion Card*	CO2 plug-in card for modulating ventilation when using Economizer or CRV-V vent option. ERV requires LUA script.
8612-058	Wired Sensor	Wired wall-mounted temperature sensor. 10k. 5000ft max. wire length. Up to 3 sensors for averaging.
8612-059	Wired Sensor	Wired wall-mounted temp and occ sensor. 5000ft max. wire length. Up to 3 sensors for averaging.

* BrightStat controllers include a single expansion slot for an expansion card. More than one expansion card cannot be used with a single controller.

HUMIDISTAT	OPERATION	DESCRIPTION
8403-047	Humidity %RH	Electronic with display, lockable keypad, humidity sensor calibration (Viconics)
8403-100	Humidity %RH	Electronic with display, lockable keypad, humidity sensor calibration (Honeywell)

CO2 CONTROL	OPERATION	DESCRIPTION
S8403-096	CO2 PPM	CO2 ventilation control with digital display. On/Off or modulating (Econ or CRV-V) 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.
8405-007	(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 and BrightStat thermostat provide programming control lockout features.

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Due to our continuous product improvement policy, all specifications subject to change without notice.