



THE WALL-MOUNT™ - AIR CONDITIONERS - WA (50Hz)

WA-SERIES Refrigerant 22 50Hz
21,300 Btuh (6.24KW) to 60,000 Btuh (17.58KW)
Right Side Control Panel

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

Engineered Features

Aluminum Finned Copper Coils:

Grooved tubing and enhanced louvered fin for maximum heat transfer and energy efficiency.

Twin Blowers:

Move air quietly. Most models feature multispeed blower motors providing airflow adjustment for high and low static operation. Motor overload protection is standard on all models.

Air Conditioner Compressor:

Reciprocating compressors are designed for high compression ratios. Equipped with crankcase heater and dual discharge muffler. Standard on 242 model.

Scroll compressors are designed for increased efficiency, quieter operation and improved reliability for longer life. Eliminates need for crankcase heater. Standard on all models except 242, and available on 253 model.

Phase Rotation Monitor:

Standard on all 3 phase scroll compressors. Protects against reverse rotation if power supply is not properly connected. Not required on reciprocating compressors.

Galvanized 20 Gauge Zinc Coated Steel Cabinet:

Cleaned, rinsed, sealed and dried before the polyurethane primer is applied. The cabinet is handsomely finished with a baked on, beige textured enamel, which allows it to withstand 1000 hours of salt spray exposure.

Slope Top:

Standard feature for water run-off.

Top Rain Flashing:

Standard feature on all models.

Electrical Components:

Are easily accessible for routine inspection and maintenance through a right side, service panel opening. Features a lockable, hinged access cover to the circuit breaker or pull disconnect switch.

Electric Heat Strips:

Features an automatic limit and thermal cut-off safety control. Heater packages are factory installed for all models.

1-Inch (25mm), Disposable Air Filters:

Are standard equipment. Optional 1-inch (25mm) washable filters available and filter racks permit the addition of 2-inch (51mm) pleated filter. Factory or field installed.

Condenser Fan and Motor Shroud Assembly:

Slides out for easy access.

Barometric Fresh Air Damper:

Standard on all units. Allows up to 25% outside fresh air.

Built-in Circuit Breakers:

Standard on all versions of single (240/220 volt) and three phase (220/200 volt) equipment. Toggle disconnects are standard on all versions of three phase (415/240 volt) equipment.

Full Length Mounting Brackets:

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



Economizer



Unit shown with optional Economizer.

Ventilation System Packages

All packages are designed to meet your specific ventilation requirements utilizing one of five ventilation options for the product. The ventilation package is mounted within the unit eliminating the need for an exterior mounted hood or damper assembly on the unit. All assemblies can be factory installed, installed in the field at time of installation or as a retrofit system after installation.

- Standard - Barometric Fresh Air Damper
- Optional - Motorized Fresh Air Damper
- Optional - Blank off Plate
- Optional - Commercial Room Ventilator (CRV)
- Optional - Economizer



Capacity and Efficiency Ratings

MODELS	WA242	WA253	WA302	WA372	WA423	WA484	WA602	WA701
Cooling Capacity Btuh	21,300	21,000	27,300	32,000	38,300	42,000	51,000	60,000
Cooling Capacity KW	6.24	6.15	8.00	9.38	11.22	12.30	14.95	17.58
EER	9.2	9.5	9.2	9.2	9.5	9.6	8.7	8.7

All capacity, efficiency and cost of operation information is based on high speed operation with fresh air cover plate. Cover plate must be ordered separately and is recommended for use to obtain maximum energy efficiency where fresh air is not required.

Specifications 21,000 Btuh (6.24 KW) through 32,000 Btuh (9.38 KW)

MODELS	WA242-D	WA242-F	WA253-D	WA253-F	WA302-D	WA302-F	WA372-D	WA372-E	WA372-F
Cooling Capacity Btuh	21,300	21,300	21,000	21,000	27,600	27,600	32,000	32,000	32,000
Cooling Capacity KW	6.24	6.24	6.15	6.15	8.09	8.09	9.38	9.38	9.38
Heating Capacity	See Electric Heat Table								
Electrical Rating-50 Hz	240/220 - 1	415/380 - 3Ⓞ	240/220 - 1	415/380 - 3Ⓞ	240/220 - 1	415/380 - 3Ⓞ	240/220 - 1	220/200 - 3	415/380 - 3Ⓞ
Operating Voltage Range	198-254	342-456	198-254	342-456	198-254	342-456	198-254	180-242	342-456
Compressor-Circuit A									
Voltage	240/220	415/380	240/220	415/380	240/220	415/380	240/220	220/200	415/380
Rated Load Amps	9.1/9.9	3.9/3.9	7.2/8.0	3.2/2.5	12.2/13.7	4.2/4.2	15.1/15.8	9.8/10.3	5.2/5.5
Branch Circuit Selection Current	10.0	4.0	9.0	3.9	14.1	4.5	15.8	10.3	5.5
Lock Rotor Amps	55/55	25/25	43/43	22.4/21.4	61/61	31/31	75/82	76/83	36/40
Compressor Type	Recip.	Recip.	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Fan Motor & Condenser									
Fan Motor--HP--RPM	1/5 - 950	1/5 - 950	1/5 - 950	1/5 - 950	1/5 - 950	1/5 - 950	1/5 - 950	1/5 - 950	1/5 - 950
Fan Motor--Amps	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5
Fan--DIA. m ³ /s	458/0.66	458/0.66	458/0.66	458/0.66	508/0.86	508/0.86	508/0.86	508/0.86	508/0.86
Blower Motor & Evaporator									
Blower Motor--HP--RPM--SPD	1/5-950-1	1/5-950-1	1/5-950-1	1/5-950-1	1/3-950-2	1/3-950-2	1/3-950-2	1/3-950-2	1/3-950-2
Blower Motor--Amps	1.2	1.2	1.2	1.2	2.2	2.2	2.2	2.2	2.2
m ³ /s Cooling & E.S.P. (pa) w/Filter (Rated-Wet Coil)	0.32/55	0.32/55	0.32/55	0.32/55	0.45/55	0.45/55	0.47/50	0.47/50	0.47/50
Filter Sizes (mm) STD.	405x635x25	405x635x25	405x635x25	405x635x25	405x765x25	405x765x25	405x765x25	405x765x25	405x765x25
Shipping Weight -- Lbs. (Kg)	300 (136)	300 (136)	300 (136)	300 (136)	355 (161)	355 (161)	355 (161)	355 (161)	355 (161)

Specifications 38,300 Btuh (11.22 KW) through 60,000 Btuh (17.58 KW)

MODELS	WA423-F	WA484-E	WA484-F	WA602-E	WA602-F	WA701-F
Cooling Capacity Btuh	38,300	42,000	42,000	51,000	51,000	60,000
Cooling Capacity KW	11.22	12.30	12.30	14.95	14.95	17.58
Heating Capacity	See Electric Heat Table					
Electrical Rating--50 Hz	415/380-3 Ⓞ	220/200-3	415/380-3 Ⓞ	220/200-3	415/380-3 Ⓞ	415/380-3 Ⓞ
Operating Voltage Range	342-456	180-242	342-456	180-242	342-456	342-456
Compressor-Circuit A						
Voltage	415/380	220/200	415/380	220/200	415/380	415/380
Rated Load Amps	5.8/5.8	11.9/12.3	6.2/6.2	15.7/18.4	6.8/6.8	10.2/10.2
Branch Circuit Selection Current	6.0	12.9	6.5	19.0	9.0	10.2
Lock Rotor Amps	44/44	98/98	46/46	123/123	62/62	75/75
Compressor Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Fan Motor & Condenser						
Fan Motor--HP--RPM	1/3-825	1/3-825	1/3-825	1/3-825	1/3-825	1/3-825
Fan Motor--Amps	2.5	2.5	2.5	2.5	2.5	2.5
Fan--DIA. m ³ /s	610/1.01	610/1.01	610/1.01	610/1.01	610/1.01	610/1.01
Blower Motor & Evaporator						
Blower Motor--HP--RPM--SPD	1/2-950-2	1/2-950-2	1/2-950-2	1/2-950-2	1/2-950-2	1/2-950-2
Blower Motor--Amps	3.3	3.3	3.3	3.3	3.3	3.3
m ³ /s Cooling & E.S.P. (pa) w/Filter (Rated-Wet Coil)	0.55/75	0.60/50	0.60/50	0.66/75	0.66/75	0.70/50
Filter Sizes (mm) STD.	508x765x25	508x765x25	508x765x25	508x765x25	508x765x25	508x765x25
Shipping Weight -- Lbs. (Kg)	500 (227)	500 (227)	500 (227)	500 (227)	500 (227)	520 (236)

Ⓞ 415/380-3 electrical ratings are 3-phase wye (star) systems requiring three (3) phase legs plus neutral and ground. **NOTE:** The indoor and outdoor motors, and 24V transformer primary are connected at 240V derived from one (1) phase leg to neutral. This is internally connected and no field wiring required.

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 all existing local codes.

Ventilation System Packages

Bard Wall-Mounts are designed to provide optional ventilation packages to meet all of your ventilation and indoor air quality requirements. Standard on all units is the barometric fresh air damper. All packages can be ordered built-in at the factory or can be easily field-installed at the time of installation of the Wall-Mount, or can be retrofitted at a later date.



BAROMETRIC FRESH AIR DAMPER

BAROMETRIC FRESH AIR DAMPER - BFAD

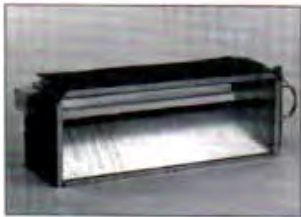
STANDARD

The barometric fresh air damper is a standard feature on all models. It is installed on the inside of the service door and allows outside ventilation air, up to 25% of the total airflow rating of the unit, to be introduced through the air inlet openings and to be mixed with the conditioned air. The damper opens during blower operation and closes when the blower is off. Adjustable blade stops allow different amounts of outside air to be introduced into the building and can be easily locked closed if required.

BLANK OFF PLATE - BOP

OPTIONAL

A blank off plate is installed on the inside of the service door. It covers the air inlet openings, which restricts any outside air from entering the unit. The blank off plate should be utilized in applications where outside air is not required to be mixed with the conditioned air.



MOTORIZED FRESH AIR DAMPER

MOTORIZED FRESH AIR DAMPER - MFAD

OPTIONAL

The motorized fresh air damper is internally mounted behind 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 two position damper can be fully open or closed. The damper blade is powered open by a 24VAC motor with spring return on power loss. The damper can be controlled by indoor blower operation or can be field connected to be managed based on building occupancy.

NOTE: The above vent systems are intake only without built-in exhaust capability. Building will likely require separate field installed barometric relief or mechanical exhaust elsewhere within the conditioned space. Balancing dampers in the return air grille may be required to achieve specified amount of outdoor air intake.



COMMERCIAL ROOM VENTILATOR

COMMERCIAL ROOM VENTILATOR - CRV

OPTIONAL

The built-in commercial room ventilator is internally mounted behind the service door and allows outside ventilation air, up to 50% of the total airflow rating of the unit, to be introduced through the air inlet openings. It includes a built-in exhaust air damper.

The commercial room ventilator (CRV) is a simple and innovative approach to improving the indoor air quality by providing fresh air intake and exhaust capability through the CRV. The damper can be easily adjusted to control the amount of fresh air supplied into the building. The CRV can be controlled by indoor blower operation or field controlled based on room occupancy. The CRV is power open - spring return on power loss. Complies with ASHRAE Standard 62.1 "Ventilation for Acceptable Indoor Air Quality."

ECONOMIZER - EIFM

OPTIONAL

The built-in economizer system is internally mounted behind the service door and allows outdoor air to be introduced through the air inlet openings. The amount of outdoor air varies in response to the system controls and settings defined by the end user. It includes a built-in exhaust air damper. The economizer is designed to provide "free cooling" when outside air conditions are cool and dry enough to satisfy cooling requirements without running the compressor. This in turn provides lower operating costs, while extending the life of the compressor.

Standard Features:

- One Piece Construction - Easy to install with no mechanical linkage adjustment required.
- Exhaust Air Damper - Built in with positive closed position. Provides exhaust air capability to prevent pressurization of tight buildings.
- Actuator Motor - 24 volt, power open, spring return with built in torque limiting switch.
- Proportioning Type Control - for maximum "free cooling" economy and comfort.
- Moisture Eliminator & Prefilter - permanent, washable aluminum construction.
- Enthalpy Control - adjustable to monitor outdoor temperature and humidity.
- Minimum Position Potentiometer - adjustable to control minimum damper blade position for ventilation purposes.
- Mixed Air Sensor - to monitor outside and return air to automatically modulate damper position.



ECONOMIZER

**Clearances - Inches (mm)
Required for Service Access and
Adequate Condenser Airflow**

MODELS	LEFT SIDE	RIGHT SIDE
WA24, WA25, WA37	15 (380)	20 (510)
WA42, WA48, WA60, WA70	20 (510)	20 (510)

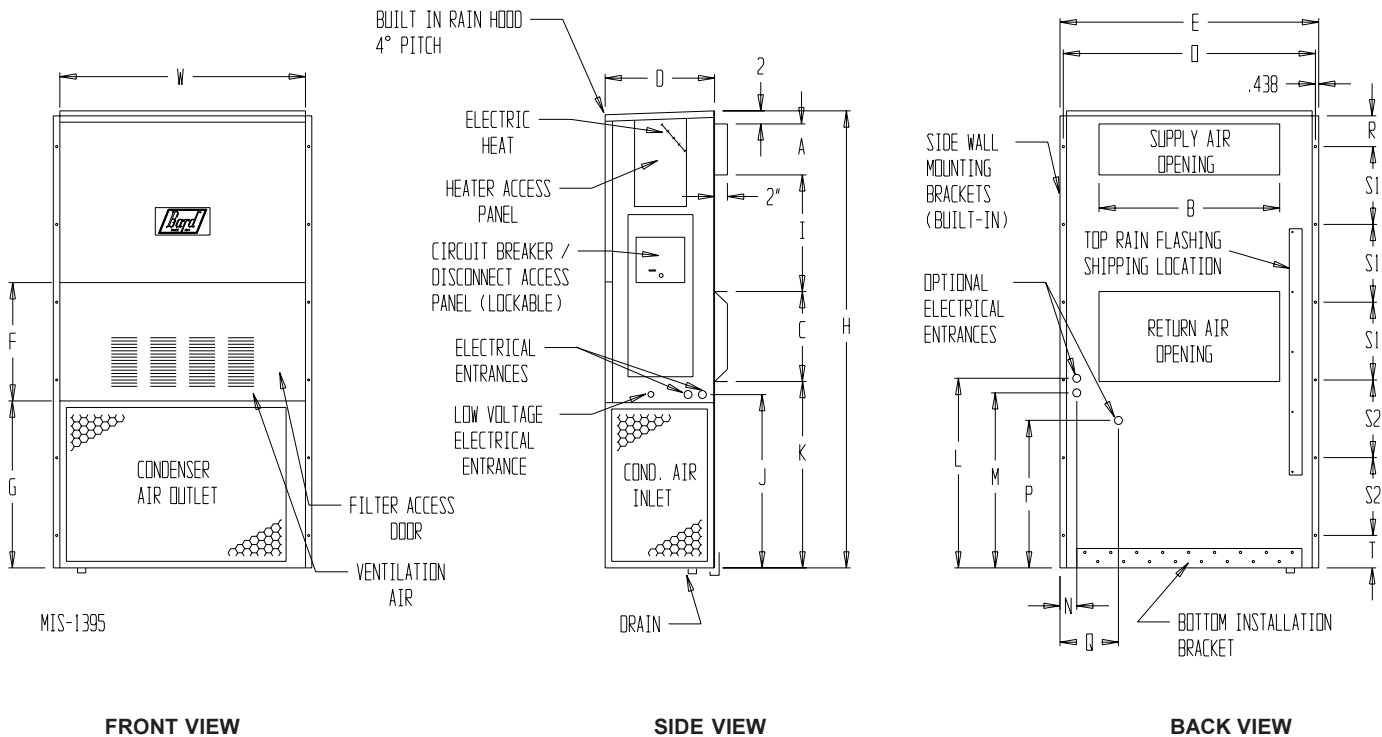
**Minimum Clearances - Inches (mm)
Required to Combustible Materials**

MODELS ①	SUPPLY AIR DUCT	
	FIRST 3 FEET (1m)	CABINET
WA24, WA25	0	0
WA30, WA37	.25 (6.35)	0
WA42, WA48, WA60, WA70	.25 (6.35)	0

① Refer to the installation manual for more detailed information.

Dimensions of Basic Unit for Architectural and Installation Requirements - Inches (mm)

MODEL	WIDTH (W)	DEPTH (D)	HEIGHT (H)	SUPPLY			RETURN																
				A	B	C	B	E	F	G	I	J	K	L	M	N	O	P	Q	R	S1	S2	T
WA24 WA25	33.300 (845)	17.125 (435)	70.563 (1792)	7.88 (200)	19.88 (505)	11.88 (302)	19.88 (505)	35.00 (889)	18.50 (470)	25.75 (654)	20.56 (522)	26.75 (680)	28.06 (713)	29.25 (743)	27.00 (686)	2.63 (67)	34.13 (867)	22.06 (560)	10.55 (268)	4.19 (106)	12.00 (305)	12.00 (305)	5.00 (127)
WA30 WA37	38.200 (970)	17.125 (435)	70.563 (1792)	7.88 (200)	27.88 (708)	13.88 (353)	27.88 (708)	40.00 (1016)	18.50 (470)	25.75 (654)	17.93 (455)	26.75 (680)	28.75 (730)	29.25 (743)	27.00 (686)	2.75 (70)	39.19 (996)	22.75 (578)	9.14 (232)	4.19 (106)	12.00 (305)	12.00 (305)	5.00 (127)
WA42 WA48 WA60	42.075 (1069)	22.432 (570)	84.875 (2156)	9.88 (251)	29.88 (759)	15.88 (403)	29.88 (759)	43.88 (1115)	19.10 (485)	31.66 (804)	30.00 (762)	32.68 (830)	26.94 (684)	34.69 (881)	32.43 (824)	3.37 (86)	42.88 (1089)	23.88 (607)	10.00 (254)	2.00 (51)	16.00 (406)	16.00 (406)	1.88 (48)
WA70	42.075 (1069)	22.432 (570)	94.875 (2410)	9.88 (251)	29.88 (759)	15.88 (403)	29.88 (759)	43.88 (1115)	19.10 (485)	41.66 (1056)	30.00 (762)	42.68 (1084)	36.94 (939)	44.69 (1135)	42.43 (1078)	3.37 (86)	42.88 (1089)	33.88 (861)	10.00 (254)	2.00 (51)	16.00 (406)	21.00 (533)	1.88 (48)



Electrical Specifications

Model	Rated Volts and Phase	Operating Voltage Range	No. Field Power Circuits	Ⓢ Minimum Circuit Amps	① Maximum External Fuse or Circuit Breaker
WA242 - D0Z D05 D08	240/220-1	198-254	1 1 1	15 28 44	20 30 45
WA242 - F0Z F05	415/380-3 ③	342-456	1 1	8 12	15 15
WA253 - D0Z D05 D08	240/220-1	198-254	1 1 1	15 27 43	20 30 45
WA253 - F0Z F05	415/380-3 ③	342-456	1 1	7 10	15 15
WA302 - D0Z D05 D10	240/220-1	198-254	1 1 1	22 29 55	35 35 60
WA302 - F0Z F07 F12	415/380-3 ③	342-456	1 1 1	9 15 23	15 15 25
WA372 - D0Z D05 D10	240/220-1	198-254	1 1 1	24 29 55	35 35 60
WA372 - E0Z E06 E12	220/200-3	180-242	1 1 1	17 21 39	25 25 40
WA372 - F0Z F07 F12	415/380-3 ③	342-456	1 1 1	11 16 25	15 20 25
WA423 - F0Z F07 F14	415/380-3 ③	342-456	1 1 1	11 16 30	15 20 30
WA484 - E0Z E09 E15	220/200-3	180-242	1 1 1	24 32 50	35 35 50
WA484 - F0Z F07 F14	415/380-3 ③	342-456	1 1 1	12 16 30	15 20 30
WA602 - E0Z E09 E15	220/200-3	180-242	1 1 1	30 32 50	45 45 50
WA602 - F0Z F07 F14	415/380-3 ③	342-456	1 1 1	15 16 30	20 20 30
WA701 - F0Z F07 F14	415/380-3 ③	342/456	1 1 1	19 19 32	25 25 35

① Maximum size of the time delay fuse or "D" rated circuit breaker for protection of field wiring conductors.

② These "Minimum Circuit Amps" values are to be used for sizing the field power conductors.

③ 415/380-3 electrical ratings are 3-phase wye (star) systems requiring three (3) phase legs plus neutral and ground. **NOTE:** The indoor and outdoor motors and 24V transformer primary are connected at 240V derived from one (1) phase leg to neutral. This is internally connected and no field wiring required.

NOTE: Based on 75C copper wire. All wiring must conform to NIC/EIC latest edition.

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 all existing local codes.

Indoor Blower Performance - CFM (m³/s) at 220 Volts

ESP in Inches H ₂ O (Pa)	WA24 WA25	WA30 WA37		WA42 WA48		WA60 WA70	
	Dry / Wet Coil	High Speed Dry / Wet Coil	Low Speed Dry / Wet Coil	High Speed Dry / Wet Coil	Low Speed Dry / Wet Coil	High Speed Dry / Wet Coil	Low Speed Dry / Wet Coil
.00 (0)	800 / 845 (0.38 / 0.40)	1160 / 1095 (0.55 / 0.52)	790 / 780 (0.37 / 0.37)	1565 / 1500 (0.74 / 0.71)	1370 / 1330 (0.65 / 0.63)	1825 / 1660 (0.86 / 0.78)	1330 / 1200 (0.63 / 0.57)
.10 (25)	830 / 780 (0.39 / 0.37)	1115 / 1060 (0.53 / 0.50)	775 / 760 (0.36 / 0.35)	1470 / 1380 (0.69 / 0.65)	1285 / 1240 (0.61 / 0.59)	1740 / 1570 (0.82 / 0.74)	- / -
.20 (50)	780 / 720 (0.37 / 0.34)	1070 / 1000 (0.50 / 0.47)	760 / 740 (0.35 / 0.35)	1360 / 1285 (0.64 / 0.61)	1200 / 1160 (0.57 / 0.55)	1660 / 1500 (0.78 / 0.71)	- / -
.30 (75)	710 / 640 (0.33 / 0.30)	1000 / 915 (0.47 / 0.43)	- / -	1250 / 1160 (0.59 / 0.55)	1120 / 1080 (0.53 / 0.51)	1550 / 1400 (0.73 / 0.66)	- / -
.40 (100)	640 / 560 (0.30 / 0.26)	925 / 830 (0.44 / 0.39)	- / -	1140 / 1065 (0.54 / 0.50)	- / -	1470 / 1330 (0.69 / 0.63)	- / -

Above data is with 1 inch (25mm) standard disposable filter and 1 inch (25mm) washable filter.

For optional 2 inch (51mm) pleated filter - reduce ESP by .15 inches (37.33Pa)

See installation instructions for maximum ESP information on various KW applications.

Electric Heat Table

Model	WA242-D WA253-D		WA242-F WA253-F		WA302-D WA372-D		WA372-E		WA302-F WA372-F		WA484-E WA602-E		WA423-F WA484-F WA602-F WA701-F	
	240V-1 WATTS	220V-1 WATTS	415V-3 WATTS	380V-3 WATTS	240V-1 WATTS	220V-1 WATTS	220V-3 WATTS	200V-3 WATTS	415V-3 WATTS	380V-3 WATTS	220V-3 WATTS	200V-3 WATTS	415V-3 WATTS	380V-3 WATTS
5.0	5011	4220	4484	3751	5011	4220								
8.0	8011	6721												
10.0					9994	8411								
6.0							5041	4161						
7.0									6740	5656			6740	5660
9.0											7562	6213		
12.0							10082	8323	11178	9408				
14.0													13450	11280
15.0											12603	10345		

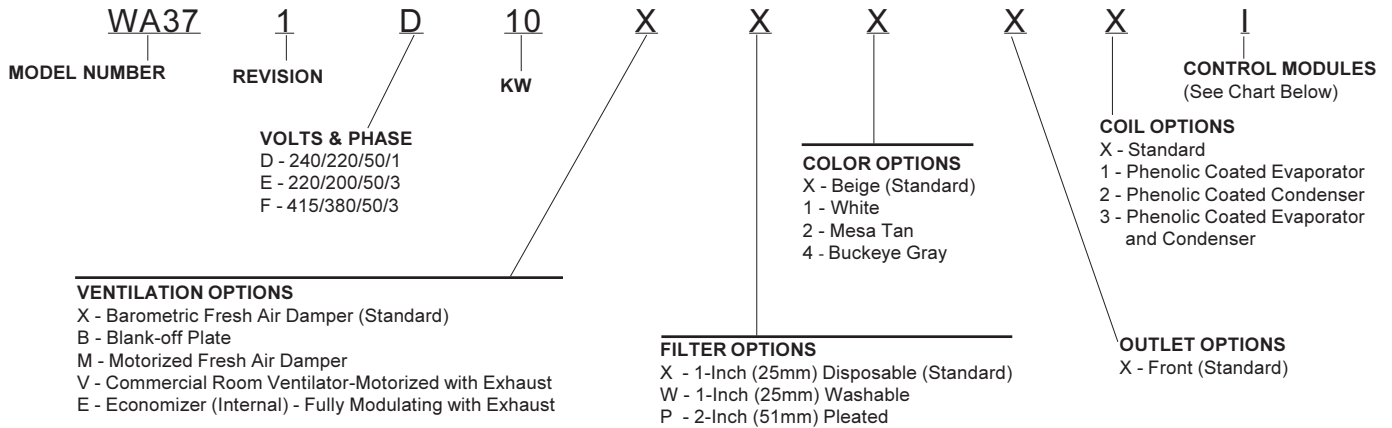
Cooling Application Data - Btuh (KW)

Model	DB/WB [ⓐ]	Cooling Capacity	OUTDOOR TEMPERATURE [ⓑ]				
			75°F (23.9°C)	85°F (29.4°C)	95°F (35.0°C)	105°F (40.6°C)	115°F (46.1°C)
WA242	75/62°F (23.9/16.7°C)	Total Sensible	22,000 (6.45) 17,650 (5.17)	20,250 (5.93) 16,900 (4.95)	18,500 (5.42) 16,200 (4.75)	16,700 (4.89) 15,500 (4.54)	15,000 (4.39) 14,750 (4.32)
	80/67°F (26.7/19.4°C)	Total Sensible	26,200 (7.68) 17,200 (5.04)	23,750 (6.96) 16,800 (4.92)	21,300 (6.24) 16,400 (4.81)	18,800 (5.51) 16,000 (4.69)	16,350 (4.79) 15,600 (4.57)
WA253	75/62°F (23.9/16.7°C)	Total Sensible	21,300 (6.24) 17,400 (5.10)	19,900 (5.83) 16,800 (4.92)	18,300 (5.36) 16,100 (4.72)	16,700 (4.89) 15,200 (4.45)	15,000 (4.39) 14,200 (4.16)
	80/67°F (26.7/19.4°C)	Total Sensible	22,700 (6.65) 16,900 (4.95)	22,100 (6.48) 16,600 (4.86)	21,000 (6.15) 16,200 (4.75)	19,600 (5.74) 15,500 (4.54)	18,000 (5.27) 14,800 (4.34)
WA302	75/62°F (23.9/16.7°C)	Total Sensible	28,200 (8.26) 23,400 (6.85)	26,000 (7.61) 22,700 (6.65)	23,800 (6.97) 21,800 (6.38)	21,900 (6.41) 20,700 (6.06)	20,000 (5.85) 19,600 (5.74)
	80/67°F (26.7/19.4°C)	Total Sensible	30,100 (8.81) 22,700 (6.65)	28,800 (8.43) 22,400 (6.56)	27,300 (7.99) 22,000 (6.44)	25,800 (7.55) 21,300 (6.24)	24,000 (7.03) 20,300 (5.94)
WA372	75/62°F (23.9/16.7°C)	Total Sensible	33,200 (9.73) 25,100 (7.35)	30,500 (8.94) 24,300 (7.12)	28,000 (8.20) 23,500 (6.89)	25,800 (7.56) 22,500 (6.59)	23,800 (6.97) 21,200 (6.21)
	80/67°F (26.7/19.4°C)	Total Sensible	35,500 (10.40) 24,300 (7.12)	33,900 (9.93) 24,100 (7.06)	32,000 (9.38) 23,700 (6.94)	30,400 (8.91) 23,000 (6.74)	28,600 (8.38) 22,000 (6.45)
WA423	75/62°F (23.9/16.7°C)	Total Sensible	39,400 (11.54) 31,900 (9.34)	36,500 (10.69) 30,500 (8.94)	33,400 (9.78) 29,200 (8.55)	30,100 (8.81) 27,500 (8.05)	26,400 (7.73) 25,800 (7.55)
	80/67°F (26.7/19.4°C)	Total Sensible	42,000 (12.30) 30,900 (9.05)	40,500 (11.86) 30,300 (8.87)	38,300 (11.22) 29,400 (8.61)	35,400 (10.37) 28,300 (8.30)	31,800 (9.31) 26,800 (7.85)
WA484	75/62°F (23.9/16.7°C)	Total Sensible	42,350 (12.41) 34,450 (10.09)	39,450 (11.56) 33,550 (9.83)	36,500 (10.69) 32,700 (9.58)	33,550 (9.83) 31,850 (9.33)	30,650 (8.98) 30,000 (8.79)
	80/67°F (26.7/19.4°C)	Total Sensible	45,450 (13.32) 33,550 (9.83)	43,750 (12.82) 33,250 (9.74)	42,000 (12.31) 32,000 (9.38)	40,250 (11.79) 32,750 (9.60)	38,550 (11.30) 32,450 (9.51)
WA602	75/62°F (23.9/16.7°C)	Total Sensible	53,200 (15.59) 39,800 (11.66)	48,800 (14.30) 37,650 (11.03)	44,350 (12.99) 35,500 (10.40)	39,900 (11.69) 33,300 (9.76)	35,500 (10.40) 31,150 (9.13)
	80/67°F (26.7/19.4°C)	Total Sensible	57,200 (16.76) 38,850 (11.38)	54,100 (15.85) 37,300 (10.93)	51,000 (14.94) 35,800 (10.49)	47,900 (14.03) 34,250 (10.04)	44,800 (13.13) 32,750 (9.60)
WA701	75/62°F (23.9/16.7°C)	Total Sensible	62,050 (18.18) 52,875 (15.49)	56,875 (16.66) 41,475 (12.15)	51,900 (15.21) 39,160 (11.47)	47,000 (13.77) 37,025 (10.85)	42,275 (12.39) 35,150 (10.30)
	80/67°F (26.7/19.4°C)	Total Sensible	66,350 (19.44) 42,775 (12.53)	63,235 (18.53) 41,100 (12.04)	60,000 (17.58) 39,560 (11.59)	55,535 (16.27) 38,050 (11.15)	50,950 (14.93) 36,625 (10.73)

ⓑ Below 65°F (18.3°C), unit requires a factory or field installed low ambient control.

ⓐ Return air temperature.

Air Conditioning Wall-Mount Model Nomenclature



Ventilation Options

Models	WA24, WA25		WA30, WA37		WA42, WA48, WA60	
	Factory Installed Code No.	Field Installed Part No.	Factory Installed Code No.	Field Installed Part No.	Factory Installed Code No.	Field Installed Part No.
Barometric Fresh Air Damper	X	BFAD-2	X	BFAD-3	X	BFAD-5
Blank-Off Plate	B	BOP-2	B	BOP-3	B	BOP-5
Motorized Fresh Air Damper	M	MFAD-2	M	MFAD-3	M	MFAD-5
Commercial Ventilator - Motorized	V	CRV-2	V	CRV-3	V	CRV-5
Economizer (Internal) - Fully Modulating ①	E	EIFM-2B	E	EIFM-3B	E	EIFM-5B

① Low ambient control is required with economizer for low temperature compressor operation.

Air Conditioning Control Modules

AVAILABLE CONTROL OPTIONS						Models WA242, WA302, WA372, WA423		Models WA253, WA484, WA602, WA701	
HPC ①	LPC ②	TDR	LAC ⑤	ALR ⑥	SK ⑦	Factory Installed Code	Field Installed Part	Factory Installed Code	Field Installed Part
●						N/A, Order G	N/A, Use CMA-10A	HPC is Standard	
	●					N/A, Order G	N/A, Use CMA-10A	G	CMA-16A
	●		●			N/A, Order H	N/A, Use CMA-13A	H	CMA-18A
●	●					G	CMA-10A	G	CMA-16
		●				D ③	CMA-5	CCM is Standard ④	
			●			E	CMA-6	I ④	CMA-6
●	●		●			H	CMA-13A	H	CMA-18A
			●			I ③	CMA-12	I ④	CMA-6
●	●		●	●		J	Factory Only	J	Factory Only
●	●		●		●	K ⑦	CMA-13A & CMC-15	K ⑦	CMA-13A & CMC-15
●	●	●			●	L ⑦	CMA-10A & CMC-15	L ⑦	CMA-10A & CMC-15
●	●		●	●	●	M ⑦	Factory Only	M ⑦	Factory Only
		●	●		●	N ③	CMA-6 & CMC-15 ⑦	N ③	CMA-5 & -6, & CMC-15 ⑦
					●	P	CMC-15 ⑦	P	CMC-15 ⑦

N/A = Not available. Order/use the nearest replacement control module as shown.

① HPC: High pressure control is auto reset. Always used with compressor control module (CCM) which is included. See note ④.

② LPC: Low pressure control is auto reset. Always used with compressor control module (CCM) which is included. See note ④.

③ TDR: Time delay relay only for compressor is fixed 5-minute delay-on break to prevent short cycling. Not needed if HPC or LPC are used. See notes ①, ② and ④.

④ CCM: Compressor control module has adjustable 30-second to 5-minute delay-on-break timer. On initial power-up, or any time the power is interrupted, the delay-on-make will be 2 minutes plus 10% of the delay-on-break setting. There is no delay-on-make during routine operation of the unit. The module also provides the lockout feature (with 1 retry) for high and/or low-pressure controls, and a 2-minute timed bypass for low-pressure control.

⑤ LAC: Low ambient control permits cooling operation down to 0°F (-17.7°C)

⑥ ALR: The alarm relay has a set of normally open & normally closed dry contacts to provide the ability to signal a condition of shutdown on either high or low pressure controls.

⑦ SK: Start kit can be used with all -D single phase models only. Is not used or available for -E or -F three phase models.



Bard Manufacturing Co., Inc.
BRYAN, OH 43506

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just as planned

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

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

Form No.
S3352
July, 2006

Supersedes S3352-204