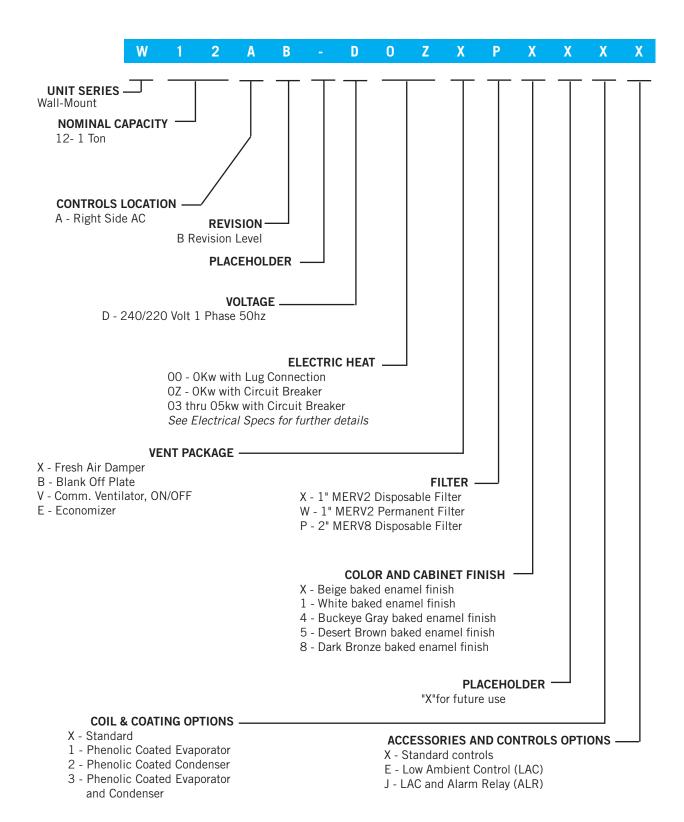


The Bard Wall-Mount Air Conditioner is an energy efficient self contained system, which is designed to offer maximum indoor comfort at a minimal cost without using valuable indoor floor space or outside ground space. This unit is the ideal product for versatile applications such as: new construction,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

- Commercial Product Not intended for residential application
- Bard is an ISO 9001:2015 Certified Manufacturer







////// 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 extreme outdoor environments.

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.

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.

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

Reliable, Easy-to-Use Controls: Easily accessible through right 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.

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 airstream.

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

ECM Indoor Motor Technology: 3 speed dual shaft motor provides quiet airflow operation when used with a twin blower assembly. Motor overload protection standard on all models.

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.

High Efficiency Cooling: Rotary 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 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 single heating operation using resistance heaters. Circuit breaker disconnect protection is standard in all units equipped with electric heat.



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.

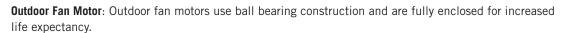


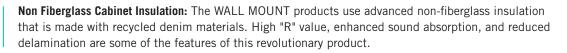
Balanced Climate™ Operation: The Bard WA Series WALL MOUNT products offer an enhanced latent capacity stage that can be controlled by a two stage cooling thermostat. During the first cooling stage (Balanced Climate Mode), the unit will increase the amount of moisture removed during compressor operation. The second stage (standard mode) of cooling increases the sensible cooling capacity to increase the amount of heat removed from the structure during compressor operation. Available in high supply static applications. In order for Balanced Climate to be used, a jumper must be removed between Y1 and Y2. Unit is shipped with jumper in place and Balanced Climate disabled.



ADVANCED FEATURE DESCRIPTIONS

ECM Indoor Blower Motor: Energy efficient indoor brush-less DC blower motors use EC constant torque technology with 3 selectable pre-programmed speeds. By selecting the needed speed, the WALL MOUNT product can reduce or increase airflow. A high speed tap can be selected to offer the maximum CFM possible with the blower assembly.









////// CAPACITY AND EFFICIENCY RATINGS

MODELS	W12AB-A
Cooling Capacity BTUH ①	11,900
EER (Energy Efficient Ratio)	10.5

////// SPECIFICATIONS 1 TON

MODELS	W12AB-D
Electrical Rating – 50 Hz	240/220 - 1
Operating Voltage Range	197-253
CompressorCircuit A	
Voltage Rated Load Amps	240/220 5.2/5.7
Branch Circuit Selection Current	5.8
Lock Rotor Amps Compressor Type	24/24 Rotary
Fan Motor & Condenser	
Fan MotorHPRPM Fan MotorAmps FanDIA/CFM	1/12-1075 .6 18" - 950
Blower Motor & Evap.	
Blower Motor—HP-SPD Blower Motor—Amps Motor Type CFM Cooling & E.S.P.	1/8-1650 1.1 ECM
w/Filter (Rated-Wet Coil)	.1 - 425
Filter Sizes (inches) STD.	16x25x1
Basic Unit Weight-LBS.	190
Barometric Fresh Air Damper (X) Blank-Off Plate (B) Commercial Room Ventilator (V) Economizer (E)	4.0 1.0 31.0 37.0

////// 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
	75/62	Total Cooling Sensible Cooling	13400 10600	12700 10200	11900 9700	11200 9300	10400 9100	9800 8800	9100 8400	8500 8100	7900 7900	7300 7300	6700 6700
W12AB-D	80/67	Total Cooling Sensible Cooling	14300 10200	13800 10000	13200 9600	12500 9300	11900 9100	11300 8900	10700 8600	10100 8400	9400 8200	8800 8100	8100 8000
	85/72	Total Cooling Sensible Cooling	17100 10500	16200 10200	15200 9700	14200 9300	13200 9000	12400 8600	11600 8200	10700 8000	10000 7600	9100 7400	8400 7100

- $\ \, \mathbb O$ 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.

CAPACITY MULTIPLIER FACTORS								
% of Rated Airflow	-10	Rated	+10					
Total BTUH Sensible BTUH	0.975 0.950	1.0 1.0	1.02 1.05					

////// UNIT CHARGE RATES

UNIT	STD. UNIT - LBS.	DEHUM. UNITS - LBS.
W12AB - 10.5 EER A/C	3.25	N/A

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

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
	75/62	Total Cooling Sensible Cooling Latent Cooling % Latent Increase Lbs. H2O per Hr.	12600 8800 3800 26% 3.585	11800 8600 3200 22% 3.019	11000 8300 2700 19% 2.547	10300 8100 2200 14% 2.075	9600 8000 1600 19% 1.509	9000 7700 1300 23% 1.226	8500 7300 1200 42% 1.132	8000 7100 900 56% 0.849	7500 6800 700 100% 0.66	7100 6500 600 100% 0.566	6700 6200 500 100% 0.472
W12AB-D	80/67	Total Cooling Sensible Cooling Latent Cooling % Latent Increase Lbs. H2O per Hr.	13400 8500 4900 16% 4.623	12800 8400 4400 14% 4.151	12200 8200 4000 10% 3.774	11600 8100 3500 9% 3.302	11000 8000 3000 7% 2.83	10400 7800 2600 8% 2.453	10000 7500 2500 16% 2.358	9400 7300 2100 19% 1.981	9000 7100 1900 37% 1.792	8500 6800 1700 59% 1.604	8100 6500 1600 94% 1.509
	85/72	Total Cooling Sensible Cooling Latent Cooling % Latent Increase Lbs. H2O per Hr.	16100 8800 7300 10% 6.887	15000 8600 6400 6% 6.038	14000 8300 5700 4% 5.377	13200 8100 5100 4% 4.811	12200 7900 4300 2% 4.057	11400 7600 3800 0% 3.585	10800 7200 3600 6% 3.396	10100 6900 3200 16% 3.019	9400 6500 2900 17% 2.736	8900 6100 2800 39% 2.642	8400 5800 2600 50% 2.453

- 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.
- $\ \, \textcircled{\$} \,$ % Latent increase is a comparison to non-Balanced Climate unit operation.
- © Units with mechanical dehumidification rated to 125°F outdoor temperatures.

CAPACITY MULTIPLIER FACTORS								
% of Rated Airflow	-10	Rated	+10					
Total BTUH Sensible BTUH	0.975 0.950	1.0 1.0	1.02 1.05					
Sensible BTUH	0.950	1.0	1.05					

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

ESP	INDOOR BLOWER PERFORMANCE - 60 HZ - CFM						
In H2O	Blower and Vent Only	Balanced Climate and Part Load Cooling	Default LO Full Load Cooling and Heating	Optional HI Full Load Cooling and Heating			
O"	465/460	330/325	465/460	545/525			
.1"	450/435	315/305	450/435	495/470			
.15"	435/420	305/290	435/420	465/445			
.2"	415/400	285/270	415/400	440/415			
.3"	375/355	Not Used	375/355	380/360			
.4"	315/305	Not Used	315/305	320/305			
.5"	245/245	Not Used	245/245	255/245			

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, and a controls kit that includes a low ambient control (LAC) must be used for Balanced Climate Operation. Balanced Climate can be used for duct free and ducted applications below 0.20"WC ESP total static. Balanced Climate provides increased moisture removal during the cooling cycle, but is not a replacement for optional mechanical dehumidification. Optional mechanical dehumidification provides moisture removal without significantly cooling the space being conditioned. Mechanical dehumidification is highly recommended for applications requiring indoor humidity control for schools, public areas, agricultural, pharmaceutical, and areas with high outdoor humidity and varying indoor heat load.
- 3. Default LO Cooling and Heating Speed is the indoor CFM amount for cooling operation using the default blower speed tap selection. This speed is labeled as LO on the speed selection terminal strip inside the unit control panel. All units ship with cooling and heating operation at LO cooling and heating speed, and provides the optimal airflow amount for normal use.
- 4. Optional HI Cooling and Heating Speed is selected manually during unit setup and provides the highest allowable indoor CFM amount. Recommended for high duct static applications. 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	Standard Grilles	Standard Features
W12AB	TBD	TBD	TBD

////// ELECTRICAL SPECIFICATIONS — W**AB SERIES

			Single Circuit				
MODEL	Rated Volts & Phase	No. Field Power Circuits	③ Minimum Circuit Ampacity	① Maximum External Fuse or Ckt. Brkr.	② Field Power Wire Size	② Ground Wire	
W12AB- A0Z A03	240/220-1	1 1	9 20	15 20	14 12	14 12	

////// ELECTRIC HEAT TABLE - REFER TO ELECTRICAL SPECIFICATIONS FOR AVAILABILITY BY UNIT MODEL

NOMINAL		AT 240V		AT 220V			
NOMINAL KW KW		1-PH AMPS	втин	KW	1-PH AMPS	втин	
3.0	3.0	15.0	12,760	3.00	13.8	10,375	

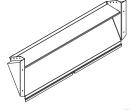
///// WALL MOUNT™ VENTILATION OPTION SELECTION CHART

VENT CODE	FIELD INSTALL KIT	UNIT	OPERATION	DESCRIPTION
X	BFAD-1	W12B	Barometric	Air damper provides slight positive room pressure during blower operation, No room air exhaust.
В	BOP-1A	W12B	No Ventilation	Insulated plates used to seal vent intake and exhaust openings.
٧	CRVS-1B	W12B	24V On/Off	Vent Provides motorized spring return on/off operation to bring in outdoor air and exhaust room air. No intake hood required. Replaces the motorized fresh air damper.
E	JIFM-1B	W12B	JADE Controller	Partial flow Economizer that uses the JADE controller and included sensors to operate free cooling. Enthalpy or Dry Bulb operation user selectable. No intake hood required.

WALL MOUNT™ VENTILATION OPTIONS SPECIFICATIONS

"X" Vent Code Option – Standard Fresh Air Damper No Exhaust (BFAD-1)

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.



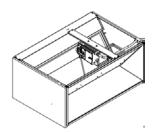
Barometric Fresh Air Damper

"B" Vent Code Option - Blank Off Plate (BOP-1A)

Blank off plates are installed on the inside of the service door and over the exhaust opening in the condenser partition. The plate covers the air inlet, which restricts any outside air from entering the unit. The blank off plate option may be utilized in applications where outside air intake is not required by state or local codes.

"V" Vent Code Option - Commercial Room Ventilator with fixed blade position (CRVS-1B)

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 is a simple and innovative approach to improving the indoor air quality by providing fresh air intake and exhaust capability. The CRV 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-Fixed

"E" Vent Code Option – Economizers with JADE® Controller (JIFM-1B)

The JADE controlled economizer is internally mounted behind the service door and allows outside ventilation air. The JIFM allows up to 50% of the total airflow of the unit. 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 down to -40°F outdoor temperatures. The "E" economizer does not require an intake hood.



Economizer

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. Economizer operation can be controlled by outdoor dry bulb or outdoor enthalpy measurement. When used with a Bard economizer assembly, the JADE controller is able to meet most state and local codes for economizer use.

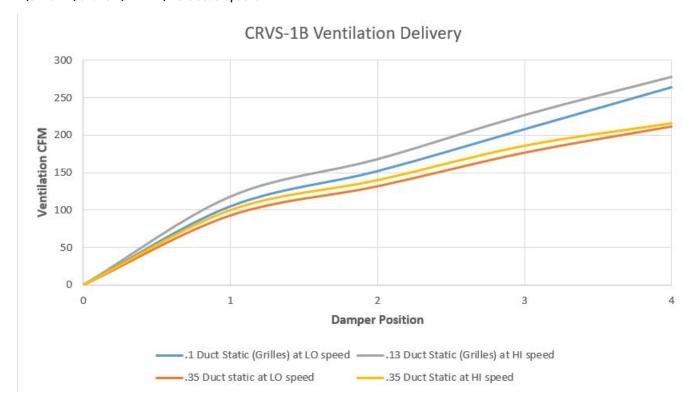


JADE Controller Specifications:

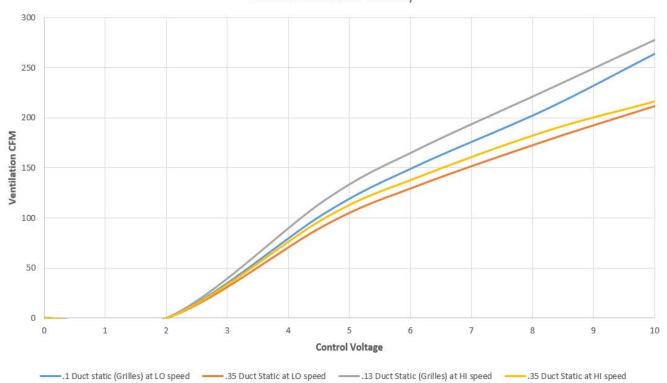
- Operating Humidity Range (% RH) 5 to 95% RH, non-condensing
- Contact Ratings 30 VAC-- 1.5 A Run, 3.5 A Inrush
- Voltage 20 to 30 VAC RMS
- Operating Temperature Range (F) -40 F to +150 F
- Operating Temperature Range (C) -40 C to +65 C
- Approvals, Federal Communications Commission Compliant
- Approvals,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

////// WALL MOUNT™ VENTILATION AIRFLOW CHARTS

"V" (CRVS-1B) and "J" (JIFM-1A) Vent Code Options







////// CABINET AND COIL OPTIONS

Cabinet Finish Options

Unit models are available in Beige, White, Buckeye Gray, Desert Brown, and Dark Bronze. 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.







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.

Evaporator and Condenser Coil Technicoat Coating Options

All models utilize a copper/aluminum evaporator and condenser coil. An additional corrosion resistant TechniCoat 10-2TM 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 is less expensive, and is also nearly 3 times lighter than a copper finned coil. ASTM B117 salt spray tests conducted show over 4500 hours with "no fin corrosion or degradation."



Hydrophilic Green Coil (standard)



AeroMarine (optional)

///// 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		
J Hi Pressure Switch, Low Pressure Switch, Compressor Control Module, Low Ambient Control, Alarm Relay			

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
E	CMA-29	W12AB	Low Ambient Control allows compressor cooling between 0°F and 50°F outdoor temp modulating

////// 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.
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
A	Vent option units only	Ventilation option input. Calls for occupied vent air intake for CRV, ERV, ECON
L	All Units	24VAC Alarm active output
1	J Control Opt.	Alarm relay Normally Closed Contract
2	J Control Opt.	Alarm relay Normally Open Contact
3	J Control Opt.	Alarm Relay Common Contact

////// 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.

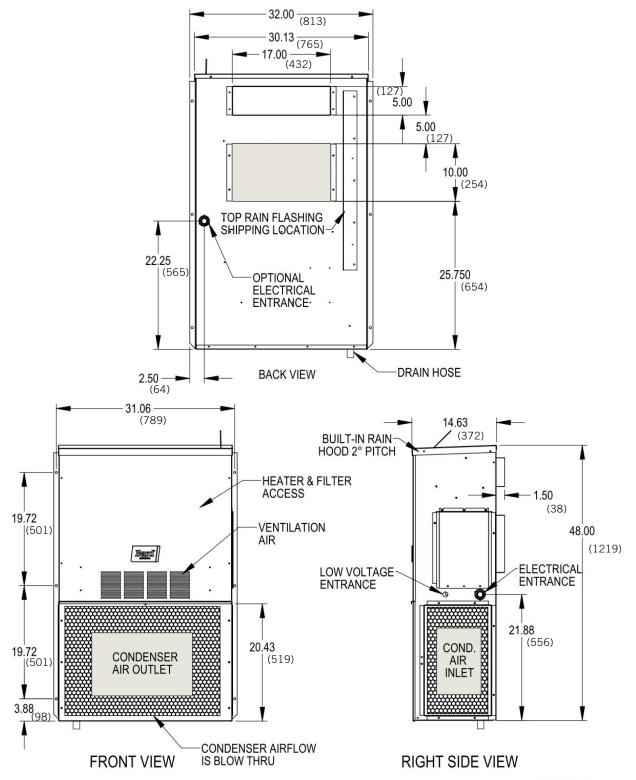
Low Ambient Control (LAC) - The low ambient control pressure sensor is attached to the suction line of the system, and monitors low side system pressure. Operation of the LAC occurs as outdoor temperatures drop below the 65°F to 50°F range. On/Off and modulating controls are used. On/Off LAC operation 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.

////// CABINET AND CLEARANCE DIMENSIONS IN INCHES (MM) - W12AB UNITS

CLEARANCES REQUIRED FOR SERVICE ACCESS AND ADEQUATE CONDENSER INLET AIRFLOW		
MODELS	LEFT SIDE	RIGHT SIDE
W12AB	15" (381)	20" (508)

MINIMUM CLEARANCES REQUIRED TO COMBUSTIBLE MATERIALS		
MODELS ①	SUPPLY AIR DUCT FIRST THREE FEET	CABINET
W12AB	0"	0"

 $[\]ensuremath{\mathbbm O}$ Refer to the Installation Manual for more detailed information.



////// 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.

GRILLE NO.	UNITS USING GRILLE	DESCRIPTION OF LOUVER GRILLE
SG-1W	W12AB	5" x 17" with 2" Flange 4 way deflection supply grille. Use for standard installations
RG-1W	W12AB	10" x 17" with 2" Flange return grille. Use for standard installations.
RFG-1W	W12AB	10" x 17" with 2" Flange return filter grille. Use for standard installations.

////// 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
8403-060	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

CO2 CONTROL	OPERATION	DESCRIPTION
\$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	Beige painted steel cover with ventilation. Fits all thermostats except 8403-060
8405-007	(Inside) 5-7/8" H x 8-3/8" W (Outside) 7-1/8" H x 9-5/8" W x 3-1/4" D	Beige painted steel cover with ventilation. Fits all thermostats.

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



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

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