

Submittal Data

square roots

Date:

August 27, 2021



Plan-ID	Qty	Model No	Description	Page
WM-01	1	W5SACDA05VPXXXV	Wall-Mount [™] Air Conditioner 208/230-1 ph	3



AHRI Rated Cooling Performance					
AHRI Certified Reference # AHRI Rated Cooling	20445801 57,000	7 Btuh			
EER IPLV Rated Airflow	11.00 15.1 1700	cfm			
Cooling Performance @	Project I	Parameters			
Cooling Capacity Sensible Capacity Latent Capacity Integrated Efficiency Efficiency (at AHRI) Outdoor DB Temp Entering DB Temp Leaving DB Temp Leaving WB Temp	71,585 41,439 30,145 15.3 11.00 95.0 85.0 78.0 63.5 63.5	Btuh Btuh IPLV EER °F °F °F °F °F			
Electric Resistance Heat					
Nominal Heat Size Electric Heat Voltage Heat Output Heating Entering Air Heating Leaving Temp	5 240 17,065 70.0 78.9	kW Volts Btuh °F °F			
Dehumidification Performance					
95° Outdoor 65% Indoor RH Air Flow Sensible Capacity Latent Capacity Water Removed per hour	(75° / 66.7 1700 -3,400 21,700 20.50	7° db/wb) cfm Btuh Btuh Ib			

Supply Air Performance					
Total Supply Air Blower Motor Low Blower Speed	1784 3/4	cfm hp			
Filter Static Pressure	0.03	in wg.			

Air flow is based on Wet Coil

Electrica	l Data	
Power Supply	208/230 1 60	Volts Phase Hertz
Minimum Circuit Ampacity	39	Amps
Maximum External Fuse or Circuit Breaker	50	Amps
Field Power Wire Size Ground Wire	8 10	

Based on 75C copper wire, All wiring must conform to the National Electrical Code and all local codes

Caution: When more than one field power circuit is run through one conduit, the conductors must be derated. Pay special attention to note 8 of Table 310 regarding Ampacity Adjustment Factors when more than three (3) current carrying conductors are in a raceway.

NOTE: MOCP (Maximum Overcurrent Protection) value listed is the maximum value as per UL 1995 calculations for MOCP (branch-circuit conductor sizes shown are based on this MOCP). The actual factory installed Overcurrent Protective Device (Circuit Breaker) in this model may be lower than the maximum UL 1995 allowable MOCP value, but still above the UL 1995 minimum calculated value or Minimum Circuit Ampacity (MCA) listed.

Balanced Climate[™] Mode Performance

Cooling Capacity	68,369	Btuh
Sensible Capacity	35,311	Btuh
Latent Capacity	34,061	Btuh
Latent Increase	3	%
Water removal per hour	32.13	Ib/ hr
Outdoor DB Temp	95.0	°F
Entering DB Temp	85.0	°F
Entering WB Temp	78.0	°F

Factory Options Selected

- D Active Dehumidification
- A 208/240 Volt 1 phase
- 05 5 KW 1 Circuit w/Circuit Breaker Disconnect
- V Commercial Ventilator Modulating
- P 2-Inch Pleated Filter MERV 8
- X Beige
- X Standard Coils

V - DDC Control Sensor kit with 10K Discharge air sensor, indoor blower airflow sensor, compressor current sensor, filter pressure switch, Low Ambient Control, Alarm Relay



Field Installed Accessories - Continued

RG-5W - Return air grill - Extruded aluminum with blades fixed at 30 degree angle, 2" Flange SG-5W - Sidewall supply register with 2 sets of individually adjusted blades, 2" Flange



Standard Product Features

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.

• Green Fin Hydrophilic Evaporator Coil: Green fin stock is used 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 wall mount on the market with the use of a 2 stage thermostat or controlling device. Bard Balanced Climate innovation comes standard on all models.

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

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

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

• Electric Strip Heat: Reliable, comfortable heater packages feature an automatic limit and thermal cut-off safety control.

Easy Filter Access: A separate filter door is provided for ease of filter access during routine unit maintenance.
Enclosed Condenser Motor: An enclosed casing condenser motor with ball bearings is used for reliable operation and extended motor life. Enclosed condenser motors are standard on all units.

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

• High Efficiency Cooling: Scroll compressors for quiet, efficient cooling. Designed with R-410A (HFC) nonozone 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.

• Cooling Operation: This Bard WALL MOUNT product offers two stage cooling operation using R-410A refrigerant. Copper tube/Aluminum hydrophilic green fin coils are used to provide high efficiency and easy serviceability. Scroll compressor technology delivers years of quiet, reliable operation.

• Heating Operation: Single or two stage heating operation using resistance heaters. Circuit breaker disconnect protection is standard in all units equipped with electric heat.

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

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



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

Width Depth He		Height Supply		oply	Return				
(W)	(D)	(H)	А	В	С	D	E	F	G
42	25.52	92.88	9.88	29.88	15.88	29.88	43.88	12.63	45
I	J	K	L	М	N	0	R	S	Т
30.06	49.25	35.06	61.72	58.72	8.82	43	1.44	16	10

