



THE WALL-MOUNT™ AIR CONDITIONERS - WL (60HZ) with LEFT SIDE CONTROL PANEL

WL - SERIES Refrigerant 22 60Hz
1.5 to 6 Ton (18,300 to 67,000 Btuh)
Left Side Control Panel

The Bard Wall-Mount Air Conditioner with Left Side Control Panel is designed to provide complete service access (i.e. compressor, electric heat strip and electrical controls) when two units are mounted side by side with minimal space between. The left side unit is the ideal product for telecommunication and over-the-road medical and communication vans requiring two wall-mount air conditioners be mounted side by side by using a WL (left side access) unit and a WA (right side access) unit on the same building. Factory or field installed accessories are also 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 with crankcase heater and dual discharge muffler are standard on 1.5 and 2 ton models.

Scroll Compressors eliminate need for crankcase heater. Standard on 2.5 to 5 ton, and available on 2 ton models.

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 textured enamel, which allows it to withstand 1000 hours of salt spray tests per ASTM B117-03.

Electrical Components:
Are easily accessible for routine inspection and maintenance through a left 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 can be factory installed for all 1.5 through 6 ton models.

One Inch, Disposable Air Filters:
Are standard equipment. Optional one inch washable filters available and filter racks permit the addition of 2" pleated filter. Factory or field installed.

Built-in Circuit Breakers:
Standard on all single (230/208 volt) and three phase (230/208 volt) equipment. Toggle disconnects are standard on all three phase (460 volt) equipment.

Slope Top:
Standard feature for water run-off.

Top Rain Flashing:
Standard feature on all models.

Full Length Mounting Brackets:
Built into cabinet for improved appearance and easy installation. **NOTE:** Bottom mounting bracket included to assist in installation.

Auto-Reset High Pressure Switch:
Built-in lock-out circuit resets from the room thermostat. Provides commercial quality protection to the compressor.

Auto-Reset Low Pressure Switch:
Built-in lock-out circuit and low pressure timed bypass circuit. Resets from room thermostat.

Compressor Control Module:
Built-in off-delay timer adjustable from 30 second to 5-minutes. 2-minute on-delay if power interrupt. 120-second bypass for low pressure control, and both soft and manual lockouts for high and low pressure controls. Alarm output for alarm relay.

Low Ambient Control:
Permits cooling operation down to 0°F outdoor ambient.

Alarm Relay:
Dry contacts for remote alarm capability on manual high or low pressure controls.



MEA# 357-93-E

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 with Exhaust
 - CRV - Spring Return
 - CRVP - Power Return
- Optional - Economizer w/Exhaust

- Complies with efficiency requirements of ASHRAE/IESNA 90.1-2004.
- Certified to ARI Standard 390-2003 for SPVU (Single Package Vertical Units).
- Commercial Product - Not intended for Residential application.



Capacity and Efficiency Ratings ^①

MODELS	WL182	WL242	WL253	WL302	WL372	WL423	WL484	WL602	WL702-A	WL701-B, C
Cooling Capacity BTUH ^①	18,300	24,000	23,000	30,000	36,000	42,000	47,500	57,500	64,000	67,000
EER ^②	9.20	9.20	9.80	9.30	9.20	9.20	9.60	8.70	9.00	9.00
SEER ^③	10.20	10.50	11.00	10.60	10.00	10.60	11.00	10.20	10.00	-

① Capacity is certified in accordance with ARI Standard 390-2003 and tested in accordance with ARI Standard 210/240-2003.

② EER = Energy Efficiency Ratio and is certified in accordance with ARI Standard 390-2003.

③ SEER = Seasonal Energy Efficiency Ratio and is tested in accordance with ARI Standard 210/240-2003.

All ratings based on fresh air intake being 100% closed (no outside air introduction).

Specifications 1-1/2 through 3 Ton

MODELS	WL182-A	WL242-A	WL242-B	WL253-A	WL253-B	WL302-A	WL302-B	WL302-C	WL372-A	WL372-B	WL372-C
Electrical Rating--60 Hz	230/208 - 1	230/208 - 1	230/208 - 3	230/208 - 1	230/208 - 3	230/208 - 1	230/208 - 3	460 - 3	230/208 - 1	230/208 - 3	460 - 3
Operating Voltage Range	197-253	197-253	197-253	197-253	197-253	197-253	197-253	414-506	197-253	197-253	414-506
Compressor--Circuit A											
Voltage	230/208	230/208	230/208	230/208	230/208	230/208	230/208	460	230/208	230/208	460
Rated Load Amps	7.0/8.0	9.5/10.0	6.6/6.9	8.6/9.5	6.5/7.0	12.2/12.9	8.4/8.4	4.2	16.5/17.3	10.5/11.0	5.2
Branch Circuit Selection Current	9.0	10.0	7.0	10.3	7.1	14.1	9.0	4.5	17.3	11.0	5.5
Lock Rotor Amps	49/49	56/56	51/51	54/54	45/45	73/73	63/63	32	100/100	77/77	37
Compressor Type	Recip.	Recip.	Recip.	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Fan Motor & Condenser											
Fan Motor--HP--RPM	1/5 - 1075	1/5 - 1075	1/5 - 1075	1/5 - 1075	1/5 - 1075	1/5 - 1075	1/5 - 1075	1/5 - 1075	1/5 - 1075	1/5 - 1075	1/5 - 1075
Fan Motor--Amps	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.4	1.5	1.5	1.4
Fan--DIA/CFM	18" - 1600	18" - 1600	18" - 1600	18" - 1600	18" - 1600	20" - 2100	20" - 2100	20" - 2100	20" - 1900	20" - 1900	20" - 1900
Blower Motor & Evap.											
Blower Motor--HP--RPM--SPD	1/6-1100-1	1/6-1100-1	1/6-1100-1	1/6-1100-1	1/6-1100-1	1/3-1100-2	1/3-1100-2	1/3-1100-2	1/3-1100-2	1/3-1100-2	1/3-1100-2
Blower Motor--Amps	1.0	1.0	1.0	1.0	1.0	2.2	2.2	1.1	2.2	2.2	1.1
CFM Cooling & E.S.P. w/Filter (Rated-Wet Coil)	650 - .40	800 - .20	800 - .20	800 - .20	800 - .20	1000 - .40	1000 - .40	1000 - .40	1100 - .30	1100 - .30	1100 - .30
Filter Sizes (inches) STD.	16x25x1	16x25x1	16x25x1	16x25x1	16x25x1	16x30x1	16x30x1	16x30x1	16x30x1	16x30x1	16x30x1
Shipping Weight --LBS.	300	300	300	300	300	355	355	355	355	355	355

Specifications 3-1/2 Ton through 6 Ton

MODELS	WL423-A	WL423-B	WL423-C	WL484-A	WL484-B	WL484-C	WL602-A	WL602-B	WL602-C	WL702-A	WL701-B	WL701-C
Electrical Rating--60 Hz	230/208-1	230/208-3	460-3	230/208-1	230/208-3	460-3	230/208-1	230/208-3	460-3	230/208-1	230/208-3	460-3
Operating Voltage Range	197-253	197-253	414-506	197-253	197-253	414-506	197-253	197-253	414-506	197-253	197-253	414-506
Compressor--Circuit A												
Voltage	230/208	230/208	460	230/208	230/208	460	230/208	230/208	460	230/208	230/208	460
Rated Load Amps	19.3/21.0	11.8/11.8	6.1	20.2/20.9	11.9/13.3	6.2	26.0/28.5	18.1/18.4	6.8	29.1/31.0	20.5/21.5	10.2
Branch Circuit Selection Current	21.0	12.5	6.5	21.8	12.9	6.5	29.0	19.0	9.0	32.0	22.0	10.2
Lock Rotor Amps	127/127	88/88	42	131/131	91/91	46	148/148	137/137	62	176/176	150/156	75
Compressor Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Fan Motor & Condenser												
Fan Motor--HP--RPM--SPD	1/3-850-2	1/3-850-2	1/3-850-1	1/3-850-2	1/3-850-2	1/3-850-1	1/3-850-2	1/3-850-2	1/3-850-1	1/3-850-2	1/3-850-2	1/3-850-1
Fan Motor--Amps	2.5	2.5	1.3	2.5	2.5	1.3	2.5	2.5	1.3	2.5	2.5	1.3
Fan--DIA/CFM	24" - 2600	24" - 2600	24" - 2600	24" - 2600	24" - 2600	24" - 2600	24" - 2600	24" - 2600	24" - 2600	24" - 2600	24" - 2600	24" - 2600
Blower Motor & Evap.												
Blower Motor--HP--RPM--SPD	1/2-1070-2	1/2-1070-2	1/2-1070-2	1/2-1070-2	1/2-1070-2	1/2-1070-2	1/2-1070-2	1/2-1070-2	1/2-1070-2	1/2-1070-2	1/2-1070-2	1/2-1070-2
Blower Motor--Amps	3.3	3.3	1.9	3.3	3.3	1.9	3.3	3.3	1.9	3.3	3.3	1.9
CFM Cooling & E.S.P. w/Filter (Rated-Wet Coil)	1400 - .30	1400 - .30	1400 - .30	1550 - .20	1550 - .20	1550 - .20	1700 - .30	1700 - .30	1700 - .30	1800 - .20	1800 - .20	1800 - .20
Filter Sizes (inches) STD.	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1	20x30x1
Shipping Weight --LBS.	500	500	500	500	500	500	500	500	500	520	520	520

Ventilation System Packages

Bard Wall-Mounts are designed to provide optional ventilation packages to meet all of your ventilation and indoor air quality requirements. All units are equipped with a barometric fresh air damper as the standard ventilation package. All ventilation packages can be built-in at the factory, or field-installed at a later date.



Barometric Fresh Air Damper

BAROMETRIC FRESH AIR DAMPER - BFAD

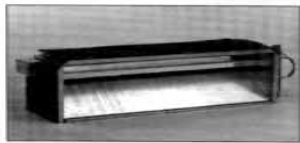
STANDARD

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. Two versions available (except on 1.5 and 2-ton models). The CRV and CRVS are power open - spring return on power loss, and CRVP is power open and power return. Complies with ANSI/ASHRAE Standard 62.1 "Ventilation for Acceptable Indoor Air Quality".



Economizer

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.

Manufactured under U.S. Patent Nos. 5,485,878; 5,301,744; 5,002,116; 4,924,934; 4,875,520; 4,825,936

Electrical Specifications

Model	Rated Volts and Phase	No. Field Power Circuits	Single Circuit				Dual Circuit									
			① Minimum Circuit Ampacity	① Maximum External Fuse or Ckt. Brkr.	② Field Power Wire Size	② Ground Wire	③ Minimum Circuit Ampacity		① Maximum External Fuse or Ckt. Brkr.		② Field Power Wire Size		② Ground Wire Size			
							Ckt. A	Ckt. B	Ckt. A	Ckt. B	Ckt. A	Ckt. B	Ckt. A	Ckt. B		
WL182 - A0Z A05 A08 A10	230/208-1	1 1 1 1	16 30 45 56	20 30 45 60	12 10 8 6	12 10 10 10										
WL242 - A0Z A05 A08 A10	230/208-1	1 1 1 1	17 30 45 56	20 30 45 60	12 10 8 6	12 10 10 10										
WL242 - B0Z B06	230/208-3	1 1	13 22	15 25	14 10	12 10										
WL253 - A0Z A05 A08 A10	230/208-1	1 1 1 1	18 30 45 56	25 30 45 60	10 10 8 6	10 10 10 10										
WL253 - B0Z B06	230/208-3	1 1	14 22	20 25	12 10	12 10										
WL302 - A0Z A05 A08 A10 A15	230/208-1	1 1 1 1 1 or 2	24 31 47 57 83	35 35 50 60 90	8 8 8 6 4	10 10 10 10 8	57	26	60	30	6	10	10	10		
WL302 - B0Z B09 B15	230/208-3	1 1 1	17 32 50	20 35 50	12 8 8	12 10 10										
WL302 - C0Z C09 C15	460-3	1 1 1	10 17 26	15 20 30	14 12 10	14 12 10										
WL372 - A0Z A05 A10 A15	230/208-1	1 1 1 1 or 2	28 32 58 84	35 35 60 90	8 8 6 4	10 10 10 8	57	26	60	30	6	10	10	10		
WL372 - B0Z B09 B15	230/208-3	1 1 1	20 33 51	25 35 60	10 8 6	10 10 10										
WL372 - C0Z C09 C15	460-3	1 1 1	11 17 26	15 20 30	14 10 10	14 10 10										
WL423 - A0Z A05 A10 A15	230/208-1	1 1 1 1 or 2	36 36 59 85	50 50 60 90	8 8 6 4	10 10 10 8	59	26	60	30	6	10	10	10		
WL423 - B0Z B09 B15	230/208-3	1 1 1	25 34 52	35 35 60	8 8 6	10 10 10										
WL423 - C0Z C09 C15	460-3	1 1 1	13 17 26	15 20 30	14 12 10	14 12 10										
WL484 - A0Z A05 A10 A15	230/208-1	1 1 1 1 or 2	38 38 59 85	50 50 60 90	8 8 6 4	10 10 10 8	59	26	60	30	6	10	10	10		
WL484 - B0Z B09 B15	230/208-3	1 1 1	24 34 52	35 35 60	8 8 6	10 10 10										
WL484 - C0Z C09 C15	460-3	1 1 1	12 17 26	15 20 30	14 12 10	14 12 10										
WL602 - A0Z A05 A10 A15	230/208-1	1 1 1 1 or 2	44 44 59 85	60 60 60 90	8 8 6 4	10 10 10 8	59	26	60	30	6	10	10	10		
WL602 - B0Z B09 B15	230/208-3	1 1 1	32 34 52	45 45 60	8 8 6	10 10 10										
WL602 - C0Z C09 C15	460-3	1 1 1	16 17 26	20 20 30	12 12 10	12 12 10										
WL702 - A0Z A05 A10 A15	230/208-1	1 1 1 1 or 2	48 48 59 85	60 60 60 90	8 8 6 4	10 10 10 8	59	26	60	30	6	10	10	10		
WL701 - B0Z B09 B15	230/208-3	1 1 1	36 36 52	50 50 60	8 8 6	10 10 10										
WL701 - C0Z C09 C15	460-3	1 1 1	17 17 26	25 25 30	12 12 10	12 12 10										

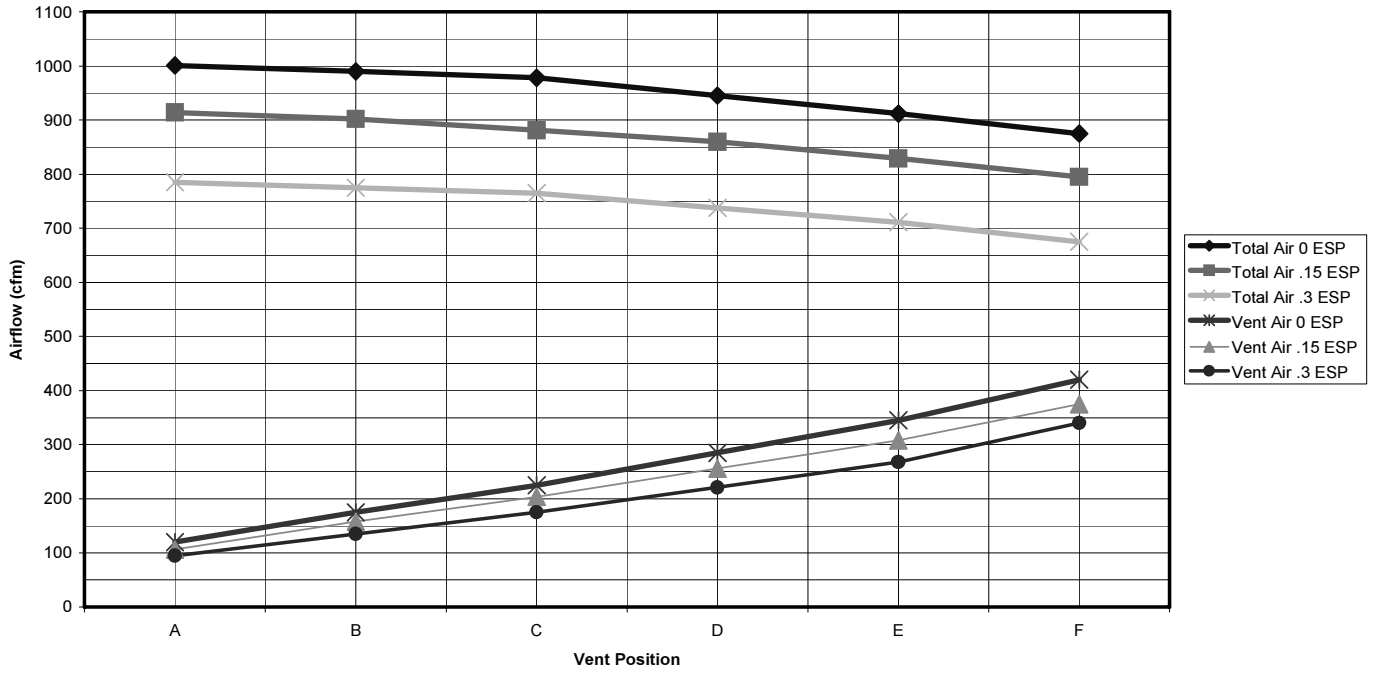
- ① Maximum size of the time delay fuse or HACR type circuit breaker for protection of field wiring conductors.
- ② Based on 75C copper wire. All wiring must conform to the National Electrical Code and all local codes.
- ③ These "Minimum Circuit Ampacity" values are to be used for sizing the field power conductors. Refer to the National Electrical Code (latest version), Article 310 for power conductor sizing.

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

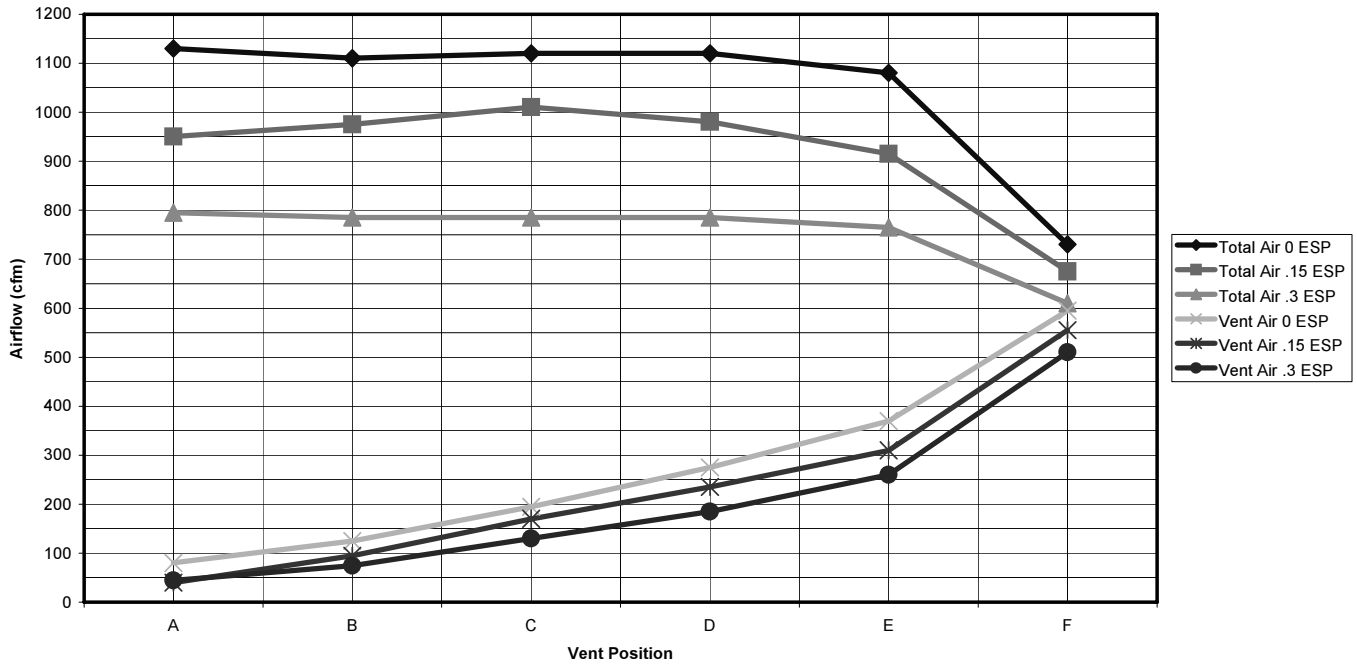
Commercial Room Ventilator Performance Data - CRV-2

WL18, WL24 & WL25 TOTAL AND VENTILATION AIRFLOW

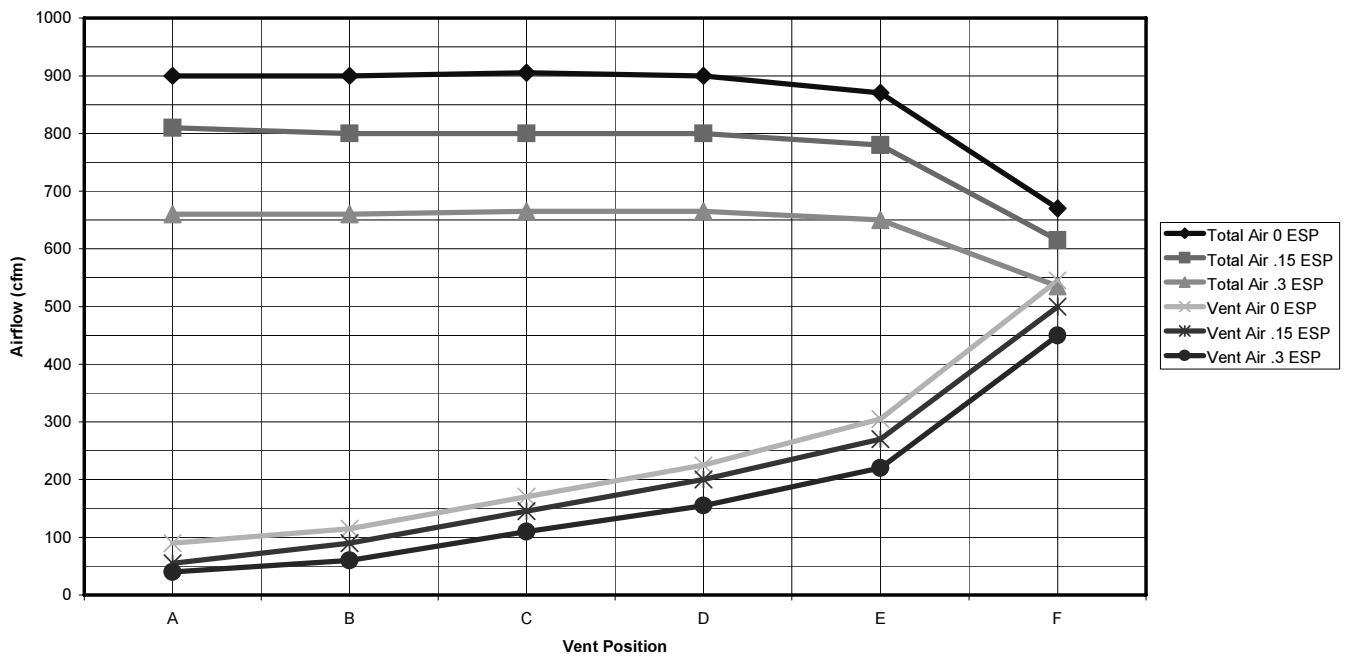


Commercial Room Ventilator Performance Data - CRVS-3 and CRVP-3

WL30 & WL37 HIGH SPEED TOTAL AND VENTILATION AIRFLOW

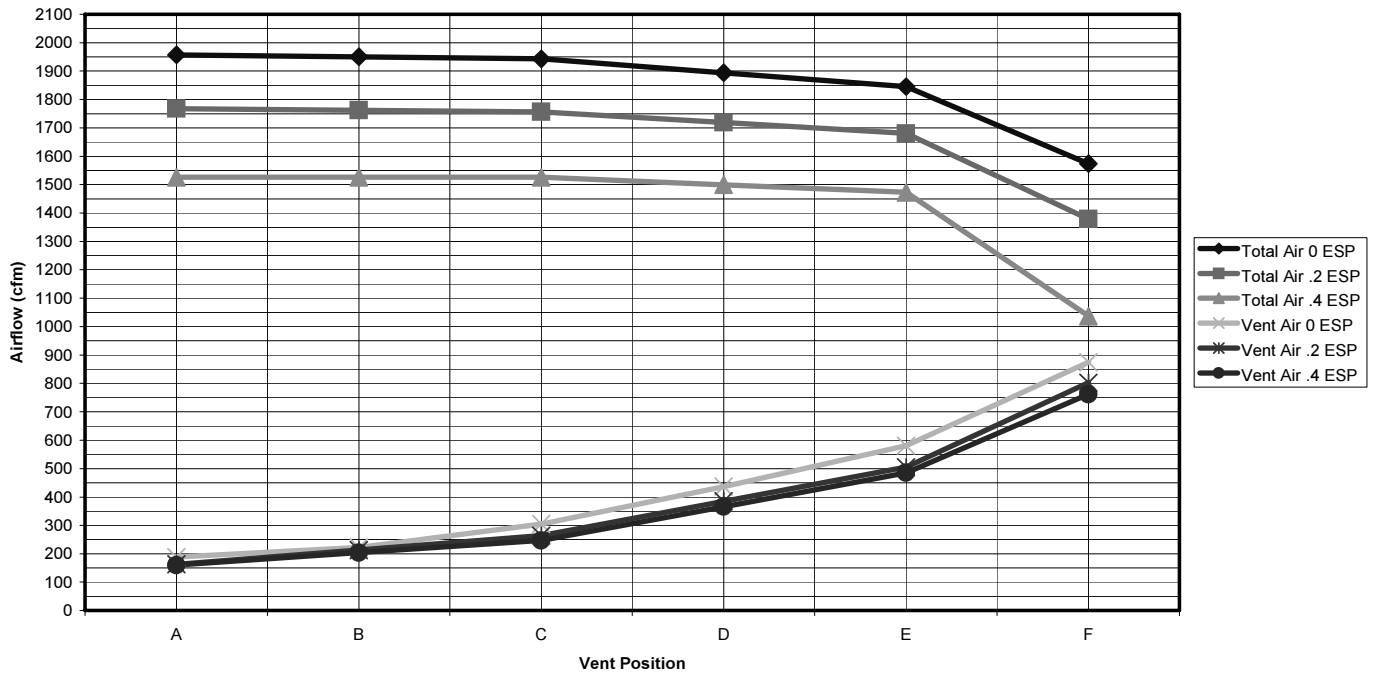


WL30 & WL37 LOW SPEED TOTAL AND VENTILATION AIRFLOW

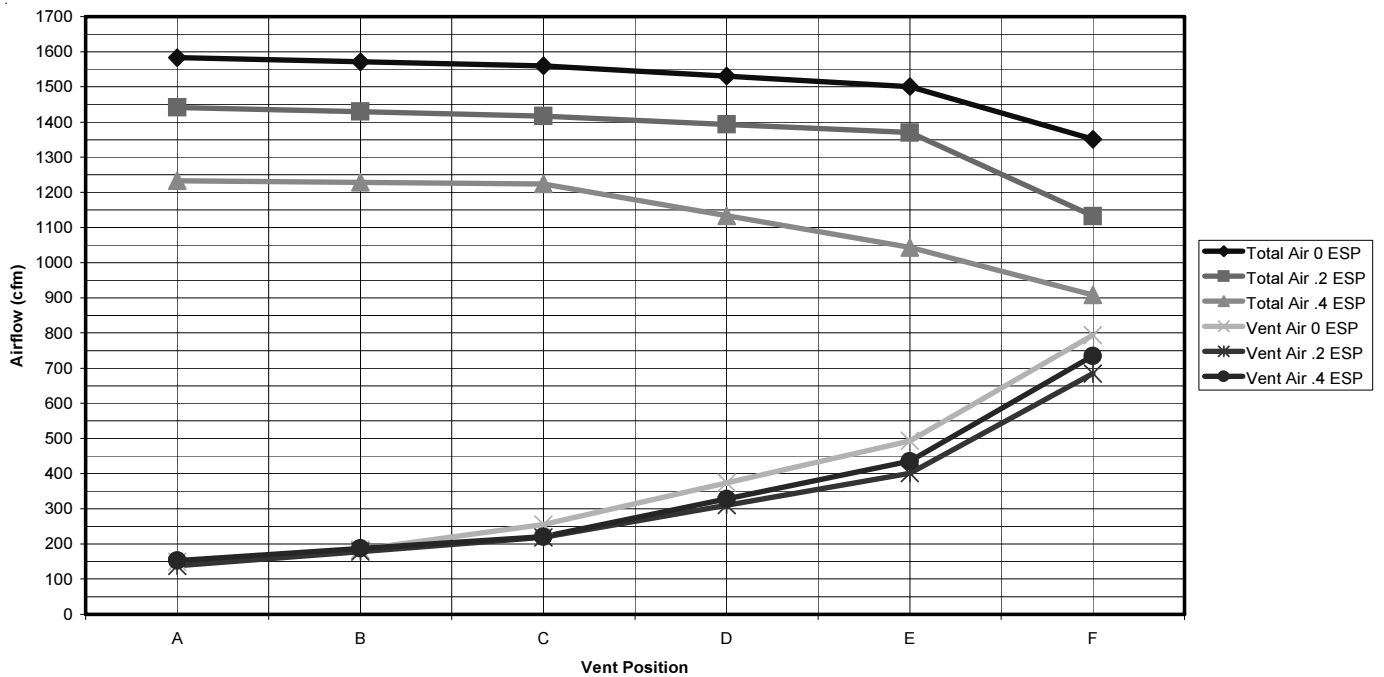


Commercial Room Ventilator Performance Data - CRVS-5 and CRVP-5

WL42 & WL48 HIGH SPEED TOTAL AND VENTILATION AIRFLOW

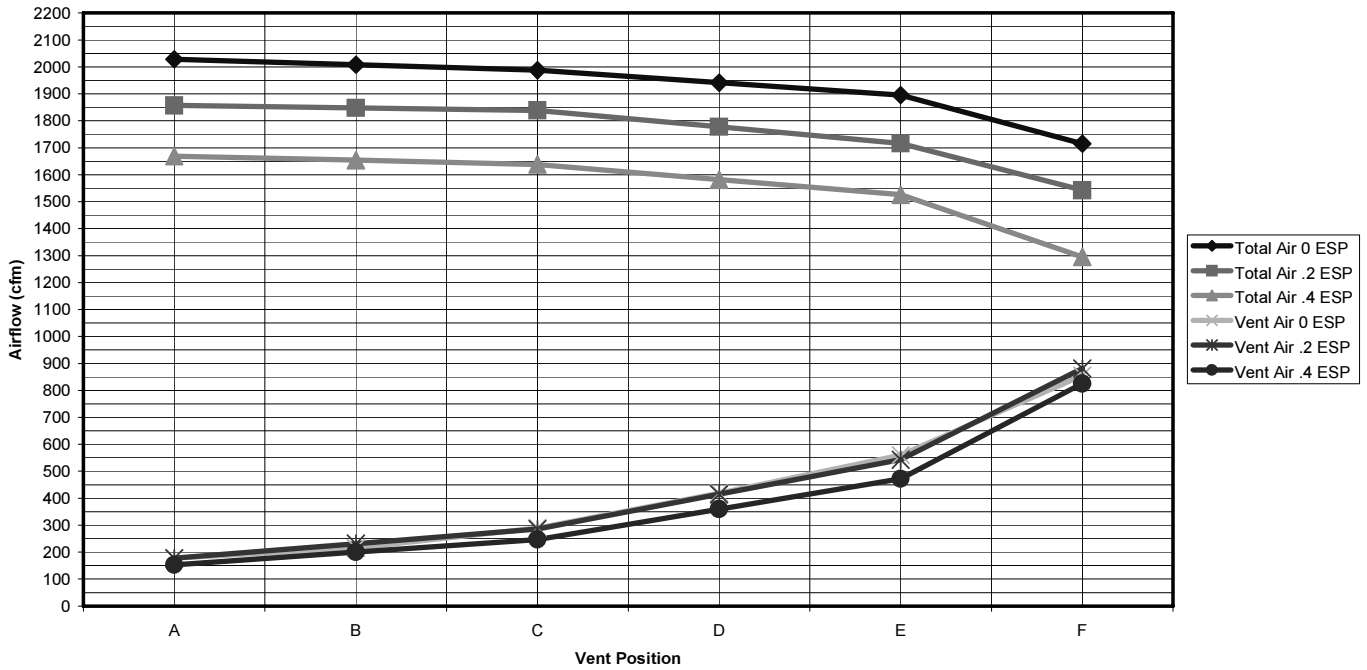


WL42 & WL48 LOW SPEED TOTAL AND VENTILATION AIRFLOW

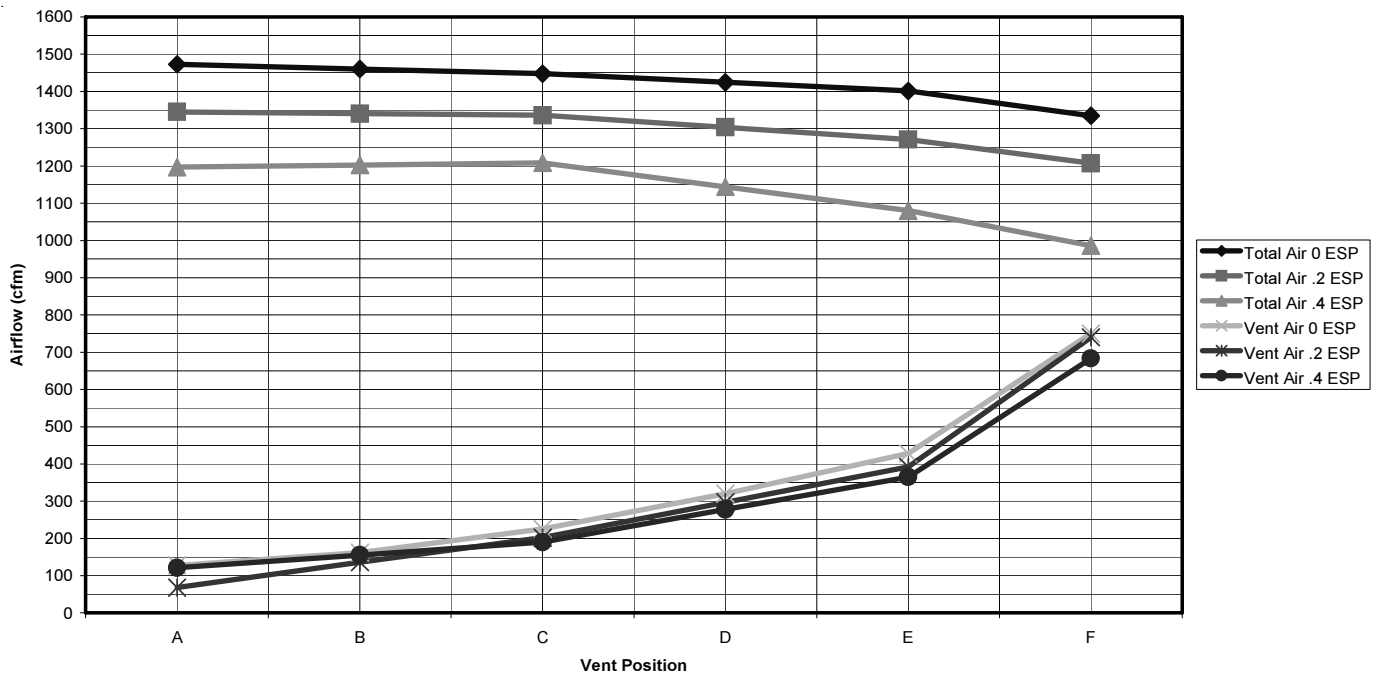


Commercial Room Ventilator Performance Data - CRVS-5 and CRVP-5

WL60 & WL70 HIGH SPEED TOTAL AND VENTILATION AIRFLOW



WL60 & WL70 LOW SPEED TOTAL AND VENTILATION AIRFLOW



Indoor Blower Performance - CFM at 230 or 460 Volts

ESP in H ₂ O	WL18 WL24 WL25	WL30 WL37		WL42 WL48		WL60, WL70	
	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
0	1020/975	1395/1315	950/935	1885/1800	1650/1600	2200/2000	1600/1450
.1	960/905	1340/1270	930/915	1770/1665	1550/1500	2100/1900	1525/1375
.2	865/800	1285/1190	910/885	1635/1550	1450/1400	2000/1800	-/-
.3	820/735	1205/1100	855/830	1500/1400	1350/1300	1875/1700	-/-
.4	735/650	1110/1000	800/755	1370/1285	1300/1175	1775/1600	-/-
.5	615/535	1005/870	-/-	1250/1150	-/-	1650/1475	-/-

Above data is with 1" standard disposable filter and 1" washable filter.

For optional 2" pleated filter - reduce ESP by .15 in.

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

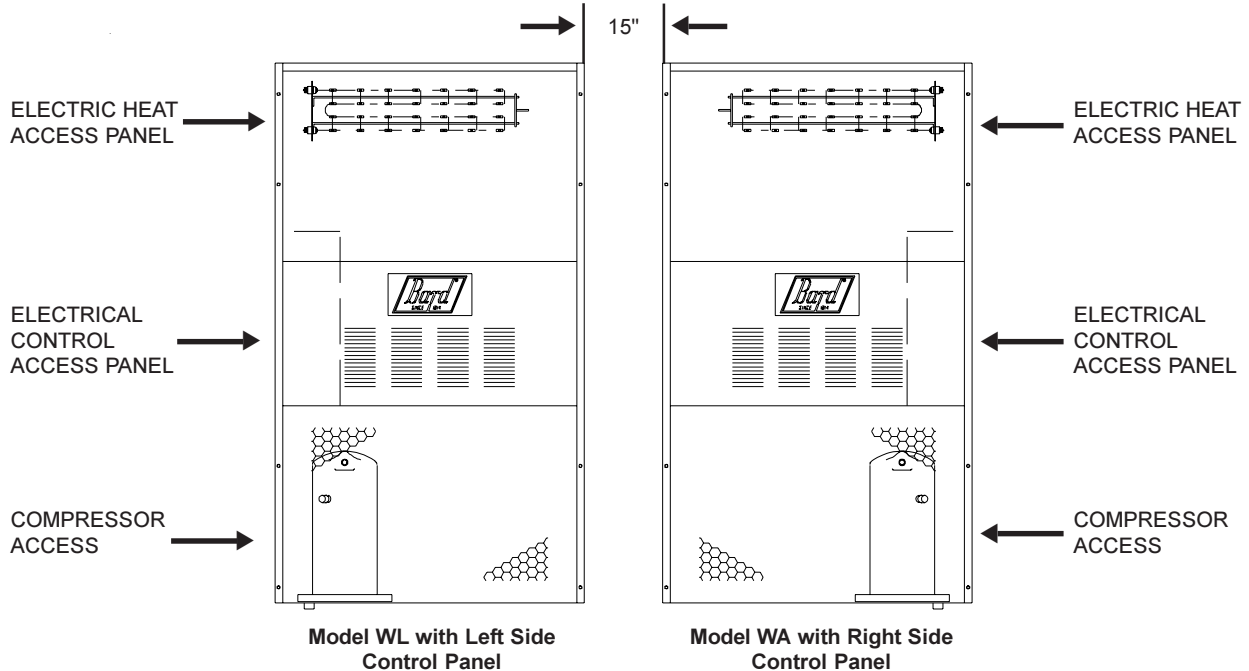
Electric Heat Table - Refer to Electrical Specifications for Availability by Unit Model

Nominal KW	At 240V (1)				At 208V (1)				At 480V (2)			At 460V (2)		
	Kw	1-Ph Amps	3-Ph Amps	Btuh	Kw	1-Ph Amps	3-Ph Amps	Btuh	Kw	3-Ph Amps	Btuh	Kw	3-Ph Amps	Btuh
5.0	5.0	20.8		17,065	3.75	18.0		12,799						
6.0	6.0		14.4	20,478	4.50		12.5	15,359	6.0	7.2	20,478	5.52	6.9	18,840
8.0	8.0	33.3		27,304	6.00	28.8		20,478						
9.0	9.0		21.7	30,717	6.75		18.7	23,038	9.0	10.8	30,717	8.28	10.4	28,260
10.0	10.0	41.7		34,130	7.50	36.1		25,598						
15.0	15.0	62.5	36.1	51,195	11.25	54.1	31.2	38,396	15.0	18.0	51,195	13.80	17.3	47,099

(1) These electric heaters are available in 230/208V units only.

(2) These electric heaters are available in 480V units only.

Unit Service Access Overview



NOTE: A 15-inch clearance between units is required when model WL and model WA are mounted side by side. This provides for proper service access to condenser fan and motor shroud assembly and adequate condenser air flow.

Cooling Application Data - Outdoor Temperature ①

Model	D.B./W.B. ②	Cooling Capacity	75°F	80°F	85°F	90°F	95°F	100°F	105°F	110°F	115°F	120°F	125°F
WL182	75/ 62	Total Cooling Sensible Cooling	19,600 14,825	18,675 14,700	17,725 14,475	16,825 14,190	15,925 13,830	15,050 13,390	14,175 12,880	13,325 12,300	12,500 11,640	11,700 10,700	11,100 10,150
	80/ 67	Total Cooling Sensible Cooling	20,975 14,625	20,360 14,465	19,710 14,300	19,020 14,135	18,300 13,970	17,540 13,640	16,750 13,230	15,920 12,720	15,060 12,125	14,400 11,600	13,800 11,000
	85/ 72	Total Cooling Sensible Cooling	24,950 14,750	23,780 14,620	22,620 14,400	21,460 14,090	20,315 13,690	19,180 13,190	18,050 12,610	16,930 11,930	15,815 11,155	14,700 10,400	13,600 9,650
WL242	75/ 62	Total Cooling Sensible Cooling	24,900 19,900	23,880 19,530	22,870 19,140	21,670 18,720	20,880 18,275	19,900 17,800	18,920 17,300	17,960 16,770	17,000 16,215	16,050 15,300	15,050 14,300
	80/ 67	Total Cooling Sensible Cooling	26,600 19,300	26,040 19,160	25,420 18,970	24,740 18,740	24,000 18,460	23,210 18,140	22,350 17,770	21,450 17,350	20,480 16,890	19,000 15,700	17,550 14,400
	85/ 72	Total Cooling Sensible Cooling	31,300 19,775	30,350 19,430	29,260 19,040	28,020 18,590	26,640 18,090	25,110 17,530	23,440 16,920	21,620 16,260	20,600 15,540	19,475 14,700	18,400 13,900
WL253	75/ 62	Total Cooling Sensible Cooling	23,400 19,100	22,600 18,700	21,800 18,400	21,000 17,900	20,100 17,600	19,200 17,100	18,300 16,600	17,400 16,200	16,400 15,600	15,400 15,100	14,300 14,600
	80/ 67	Total Cooling Sensible Cooling	24,900 18,500	24,600 18,300	24,200 18,200	23,700 17,900	23,000 17,700	22,300 17,400	21,500 17,000	20,700 16,700	19,700 16,200	18,600 15,800	17,400 15,300
	85/ 72	Total Cooling Sensible Cooling	29,700 19,000	28,800 18,600	27,800 18,300	26,800 17,800	25,600 17,400	24,400 16,900	23,200 16,200	22,100 15,700	20,700 15,000	19,400 14,300	17,900 13,600
WL302	75/ 62	Total Cooling Sensible Cooling	30,900 25,700	29,700 25,300	28,500 24,900	27,400 24,400	26,100 23,900	25,100 23,300	24,000 22,700	22,900 22,200	21,900 21,500	20,800 20,800	19,700 20,100
	80/ 67	Total Cooling Sensible Cooling	33,000 24,900	32,300 24,800	31,600 24,600	30,900 24,400	30,000 24,100	29,200 23,700	28,300 23,300	27,300 22,900	26,300 22,300	25,200 21,700	24,000 21,100
	85/ 72	Total Cooling Sensible Cooling	39,300 25,500	37,800 25,200	36,300 24,700	34,900 24,300	33,400 23,700	32,000 23,000	30,500 22,200	29,100 21,500	27,700 20,600	26,200 19,600	24,700 18,700
WL372	75/ 62	Total Cooling Sensible Cooling	37,300 28,100	35,700 27,700	34,200 27,300	32,800 26,800	31,400 26,400	30,100 25,800	28,900 25,200	27,800 24,500	26,700 23,800	25,700 22,900	24,600 22,100
	80/ 67	Total Cooling Sensible Cooling	39,800 27,200	38,900 27,100	38,000 27,000	37,000 26,800	36,000 26,600	35,100 26,200	34,100 25,800	33,100 25,300	32,100 24,700	31,100 24,000	30,000 23,200
	85/ 72	Total Cooling Sensible Cooling	47,400 27,900	45,500 27,500	43,700 27,200	41,800 26,600	40,000 26,100	38,400 25,400	36,800 24,600	35,200 23,700	33,800 22,800	32,300 21,700	30,900 20,600
WL423	75/ 62	Total Cooling Sensible Cooling	43,200 35,000	41,700 34,300	40,100 33,500	38,400 32,800	36,600 32,000	34,800 31,200	33,000 30,200	31,000 29,300	29,000 28,300	26,900 27,200	24,700 26,100
	80/ 67	Total Cooling Sensible Cooling	46,100 33,900	45,400 33,600	44,500 33,200	43,400 32,800	42,000 32,300	40,500 31,700	38,900 31,000	37,000 30,300	34,900 29,400	32,600 28,500	30,100 27,500
	85/ 72	Total Cooling Sensible Cooling	54,900 34,700	53,100 34,100	51,100 33,400	49,000 32,600	46,700 31,700	44,300 30,700	42,000 29,600	39,400 28,400	36,700 27,100	33,900 25,800	31,000 24,400
WL484	75/ 62	Total Cooling Sensible Cooling	48,200 39,120	46,300 38,520	44,650 37,680	43,070 37,510	41,300 37,000	39,340 36,130	37,190 34,910	34,840 33,330	32,300 31,400	30,900 30,000	29,500 28,700
	80/ 67	Total Cooling Sensible Cooling	51,440 37,950	50,440 37,800	49,640 37,600	48,750 37,400	47,500 37,300	45,890 36,740	43,920 35,800	41,590 34,490	38,900 32,800	38,100 32,050	37,250 31,350
	85/ 72	Total Cooling Sensible Cooling	59,900 38,750	58,650 38,250	57,240 37,450	55,350 37,230	52,700 36,600	49,700 35,570	46,700 34,150	43,800 32,320	40,850 30,100	39,100 28,700	37,450 27,500
WL602	75/ 62	Total Cooling Sensible Cooling	60,350 45,170	57,500 43,700	54,630 42,180	52,320 41,110	50,000 40,000	47,660 38,840	45,290 37,640	42,910 36,390	40,500 35,100	N/A N/A	N/A N/A
	80/ 67	Total Cooling Sensible Cooling	64,600 43,950	62,750 42,960	60,690 41,830	59,190 41,150	57,500 40,400	55,610 39,570	53,540 38,660	51,260 37,670	48,800 36,600	N/A N/A	N/A N/A
	85/ 72	Total Cooling Sensible Cooling	76,800 44,900	73,300 43,470	69,610 41,970	66,740 40,840	63,800 39,600	60,780 38,260	57,700 36,810	54,530 35,260	51,300 33,600	N/A N/A	N/A N/A
WL702-A	75/ 62	Total Cooling Sensible Cooling	66,200 50,600	63,600 47,900	61,000 45,400	58,400 43,500	55,700 42,000	53,200 40,800	50,700 40,100	48,100 39,600	45,500 39,500	N/A N/A	N/A N/A
	80/ 67	Total Cooling Sensible Cooling	70,700 49,100	69,300 46,900	67,700 45,000	66,000 43,500	64,000 42,400	62,000 41,500	59,800 41,100	57,400 40,900	54,800 41,100	N/A N/A	N/A N/A
	85/ 72	Total Cooling Sensible Cooling	84,200 50,300	81,000 47,600	77,700 45,200	74,500 43,200	71,100 41,600	67,800 40,200	64,500 39,200	61,100 38,400	57,600 37,900	N/A N/A	N/A N/A
WL701-B,C	75/ 62	Total Cooling Sensible Cooling	69,700 49,500	66,800 48,000	63,900 46,600	61,100 45,300	58,300 44,000	55,550 42,800	52,800 41,600	50,150 40,550	47,500 39,500	N/A N/A	N/A N/A
	80/ 67	Total Cooling Sensible Cooling	74,550 48,050	72,850 47,100	71,050 46,200	69,100 45,300	67,000 44,450	64,800 43,600	62,400 42,750	59,900 41,950	57,250 41,150	N/A N/A	N/A N/A
	85/ 72	Total Cooling Sensible Cooling	88,700 49,150	85,100 47,750	81,550 46,350	77,950 44,950	74,400 43,550	70,800 42,134	67,250 40,700	63,650 39,300	60,100 37,850	N/A N/A	N/A N/A

① Below 65°F (18.3C), unit requires a factory or field installed low ambient control.

② Return air temperature.

Capacity Multiplier Factors			
% of Rated Airflow	-10	Rated	+10
Total BTUH	0.975	1.0	1.02
Sensible BTUH	0.950	1.0	1.05

Clearances Required for Service Access and Adequate Condenser Air Flow

MODELS	LEFT SIDE	RIGHT SIDE
WL18, WL24, WL25, WL37	20"	15"
WL42, WL48, WL60, WL70	20"	20"

NOTE: For side by side installation of two (2) WL models there must be 20" between units. This can be reduced to 15" by using a WL model (left side compressor and controls) for the left unit and WA (right side compressor and controls) for right unit.

Minimum Clearances Required to Combustible Materials

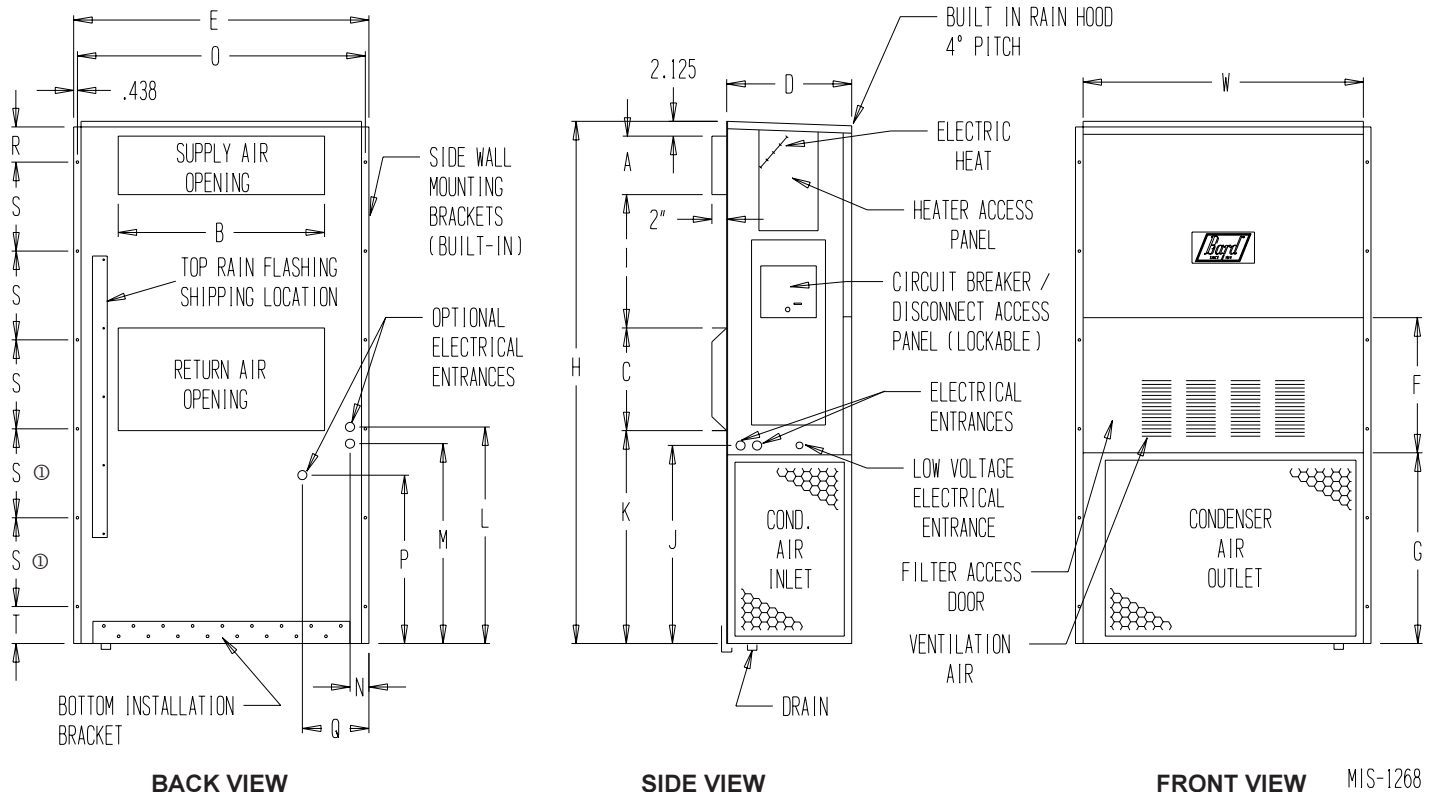
MODELS ①	SUPPLY AIR DUCT FIRST THREE FEET	CABINET
WL18, WL24, WL25	0"	0"
WL30, WL37	1/4"	0"
WL42, WL48, WL60, WL70	1/4"	0"

① Refer to the Installation Manual for more detailed information.

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

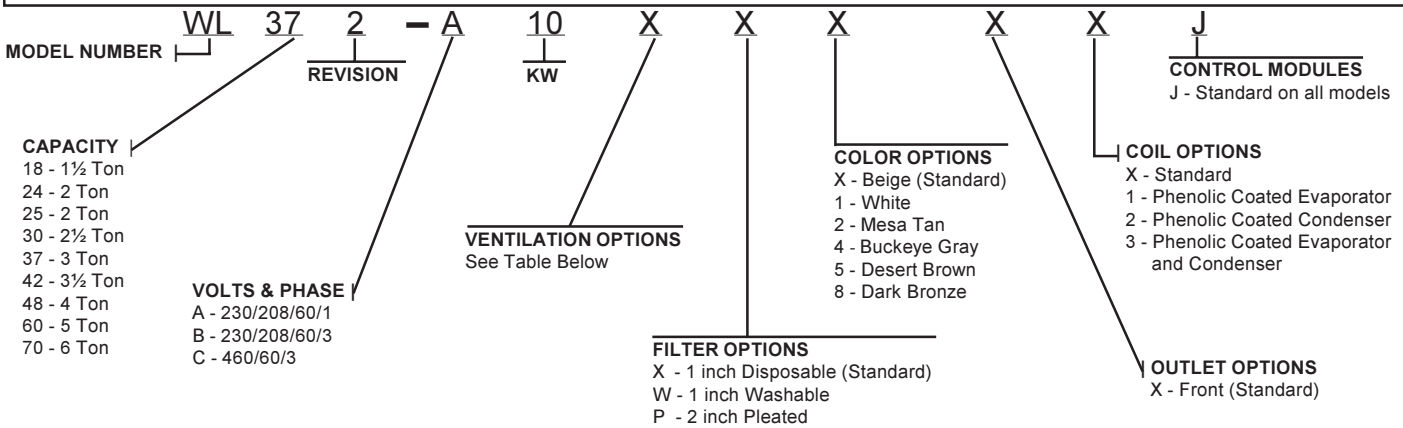
MODEL	WIDTH (W)	DEPTH (D)	HEIGHT (H)	SUPPLY		RETURN		E	F	G	I	J	K	L	M	N	O	P	Q	R	S	T
				A	B	C	B															
WL18 WL24 WL25	33.300	17.125	70.563	7.88	19.88	11.88	19.88	35.00	18.50	25.75	20.56	26.75	28.06	29.25	27.00	2.63	34.13	22.06	10.55	4.19	12.00	5.00
WL30 WL37	38.200	17.125	70.563	7.88	27.88	13.88	27.88	40.00	18.50	25.75	17.93	26.75	28.75	29.25	27.00	2.75	39.19	22.75	9.14	4.19	12.00	5.00
WL42 WL48 WL60	42.075	22.432	84.875	9.88	29.88	15.88	29.88	43.88	19.10	31.66	30.00	32.68	26.94	34.69	32.43	3.37	42.88	23.88	10.00	2.00	16.00	1.88
WL70	42.075	22.432	94.875	9.88	29.88	15.88	29.88	43.88	19.10	41.66	30.00	42.68	36.94	44.69	42.43	3.37	42.88	33.88	10.00	2.00	16.00	1.88

All dimensions are in inches. Dimensional drawings are not to scale.



① 21.00 inches on model WL701

Air Conditioning Wall-Mount Model Nomenclature



NOTE: For 0 KW and circuit breakers (230/208 Volt) or toggle disconnects (460 Volt) applications, insert 0Z in the KW field of the model number.

Ventilation Options

Models	WL18, WL24, WL25		WL30, WL37		WL42, WL48, WL60, WL70	
	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-Standard	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 - Spring Return w/Exhaust	V	CRV-2	V	CRVS-3	V	CRVS-5
Commercial Ventilator - Power Return w/Exhaust	---	---	P	CRVP-3	P	CRVP-5
Economizer - Fully Modulating ①	E	EIFM-2B	E	EIFM-3C	E	EIFM-5C
Economizer - Fully Modulating ①②	D	N/A	D	N/A	D	N/A

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

② For use only with "V" Control Module and TCS22 Controller.

Air Conditioning Control Modules

AVAILABLE CONTROL OPTIONS							All Models	
HPC ①	LPC ②	CCM ③	LAC ④	ALR ⑤	SK ⑥	DDC ⑦	Factory Installed Code	Field Installed Part
Standard	Standard	Standard	Standard	Standard			J	Factory Only
Standard	Standard	Standard	Standard	Standard	●		M⑧	Factory Only
Standard	Standard	Standard	Standard	Standard		●	V⑧	Factory Only

① HPC: High pressure control is auto reset. Always used with compressor control module (CCM) which is included. See note ③.

② LPC: Low pressure control is auto reset. Always used with compressor control module (CCM) which is included. See note ③.

③ CCM: Compressor control module has adjustable 30-second to 5-minute delay-on-break timer (which also provides a delay-on-make equal to 10% of delay-on-break setting). 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.

④ LAC: Low ambient control permits cooling operation down to 0°F.

⑤ ALR: The alarm relay has a set of normally open and normally closed dry contacts to provide the ability to signal a condition of shutdown on either high or low pressure controls.

⑥ SK: Start kit can be used with all -A single phase models only. Is not used or available for -B or -C three phase models.

⑦ DDC: Incorporates 4 additional sensors: discharge air temperature, indoor blower airflow, compressor current, and dirty filter. These sensing devices function to input analog data such as temperature, as well as digital data such as air flow, compressor status or filter status.

⑧ "V" control module should be ordered in conjunction with direct digital controller (DDC) model TCS22. Refer to DDC specification sheet S3280 for more information.



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

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

**Form No.
 S3279
 February, 2006**

Supersedes S3279-106