

Direct Expansion Air Handler - B Series

Multi-Position & Hydronic Air Handlers



LENNOX®

Innovation never felt so good.™

Product Nomenclature

Made in USA

B C R M A1 2 24 S 2P 3

Series
B: Painted Cabinet Taupe

Blower Motor
C: 3-speed motor
V: 5-speed high efficiency ECM motor[1]

Refrigerant Connections[2]
L: Left-hand
R: Right-hand
O: No cooling coil

Airflow Configuration
V: Vertical only
M: Multi-position

Slab Number
00: No cooling coil, heating only

Metering Device
0: No cooling coil
1: Piston (R-410A)
2: Piston (R-22)
3: BleedTXV (R-22)
4: Non-bleed A/C TXV (R-22)
5: Non-bleed HP-A/C TXV (R-22)
6: Non-bleed A/C TXV (R-410A)
9: Non-bleed HP-A/C TXV (R-410A)

Voltage[3]
1: 240/208V, 60 Hz, 1ph. w/time delay
2: 240/208V, 60 Hz, 1ph. w/time delay & 130˚F aquastat
3: 120V, 60 Hz, 1ph. w/time delay
4: 120V, 60 Hz, 1ph. w/time delay w/time delay & 130˚F aquastat
5: 220V, 50 Hz, 1ph. w/time delay

Note: only available in three-speed blower options and 2N, 3N & 4N heat options

Heat[3]
00: No heat
02: 2.5 kW electric[4]
05: 5 kW electric[4]

Hot water coil w/pump & valve assemly
2P: 2 row hot water coil (sizes 12-30, 36)
3P: 3 row hot water coil (all sizes)
4P: 4 row hot water coil (sizes 31, 37-60)

Hot water coil w/o pump & valve assemly
2N: 2 row hot water coil (sizes 12-30, 36)
3N: 3 row hot water coil (all sizes)
4N: 4 row hot water coil (sizes 31, 37-60)

Line Voltage Connections
S: Stripped Wire
T: Terminal Block[5]

Unit Size

12, 18, 24, 25, 30, 36	31, 37, 42, 48, 60
Slant coil (side return capable)	A-coil

[1] 5-speed high efficiency ECM Motor option available only in 25-31 and 37-60 size models.
[2] Horizontal drain pans can be field installed as an accessory in vertical only air handlers for multi-position configuration.
[3] Electric heat models not available in 120V, 60 Hz.
[4] Electric heat kits higher than 5 kW only available as field installed kits.
[5] Terminal block option not available with hot water coil.

Note: Horizontal drain pan position for slant coil models indicate that the opposing side of the cabinet is side air return capable. All air handlers with slant coils can be *field converted to allow for either left- or right-side air return.*

Approved in state of Massachusetts.

	Air Handler Size	12	18	24	25	30	31	36	37	42	48	60
Dimensions	Height (in)	44	44	44	48	48	49	48	49	49	49	53
	Depth (in)	22	22	22	22	22	26	22	26	26	26	26
	Width (in)	15	15	15	18 ½	18 ½	20	18 ½	20	20	20	22

dimensions & specifications - BCRM

BC/BV Series Air Handler Size		12	18	24	25	30	31	36	37	42	48	60
Dimensions	*Height [in]*	44	44	44	48	48	49	48	49	49	49	53
	Depth [in]	22	22	22	22	22	26	22	26	26	26	26
	Width [in]	15	15	15	18.5	18.5	20	18.5	20	20	20	22
Supply Duct Opening Depth x Width [in]		17 x 13.5			17 x 17		21 x 18.5	17 x 17	21 x 18.5			21 x 20.5
Return Duct Opening Depth x Width [in]		17.25 x 10.25			17.25 x 14		22 x 15.75	17.25 x 14	22 x 15.75			22 x 17.75
Three-Speed Blower Data	*(1) Available Voltages*	120 or 208/240 V, 60 Hz, 1 ph & 220 V, 50, 1 ph										
	Motor H.P.	1/5	1/4	1/4	1/3	1/3	1/3	1/3	1/3	1/2	3/4	3/4
	F.L.A @ 120V	2.0	3.2	3.2	5.3	5.3	7.1	7.1	7.1	8.5	7.5	10.5
	F.L.A @ 240V	1.4	1.4	1.8	2.2	2.2	2.6	2.6	2.6	3.0	4.4	4.3
	Nominal CFM	400	600	800	800	1,000	1,000	1,200	1,200	1,400	1,600	2,000
Variable-Speed Blower Data	*(1) Available Voltage*	-	-	-	120V or 208/240 V, 60 Hz, 1 ph			-	120V or 208/240 V, 60 Hz, 1 ph			120V or 208/240 V, 60 Hz, 1 ph
	Motor H.P.	-	-	-	1/3	1/2	1/2	-	1/2	1/2	3/4	1
	F.L.A @ 120V	-	-	-	4.8	5.4	5.4	-	6.0	6.0	7.0	10.2
	F.L.A @ 240V	-	-	-	2.4	2.7	2.7	-	3.0	3.0	3.5	5.1
	Cooling CFM Range	-	-	-	600 - 1,000	600 - 1,200	600 - 1,200	-	600 - 1,200	600 - 1,500	600 - 1,800	600 - 1,900
	Heating CFM Range	-	-	-	600 - 1,000	1,100 - 1,200	1,100 - 1,200	-	1,100 - 1,200	1,200 - 1,500	1,600 - 1,800	1,700 - 1,900
Optional factory Installed Single-Speed Circulating Pump	*Conn.Size [in]*	7/8										
	Volatge	120 V										
	Amps	0.52										
Air Filter Size [in]		12 x 20			16 x 20		16 x 25	16 x 20	16 x 25			18 x 25
Refrigerant Conn. [DS] Suction [in]		3/4	3/4	3/4	3/4	3/4	7/8	3/4	7/8	7/8	7/8	7/8
Refrigerant Conn. [DS] Liquid [in]		3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
R-22 Florator Piston Size [in]		.041	.053	.059	.059	.067	.067	.073	.073	.080	.084	.093
R-410A Florator Piston Size [in]		.041	.049	.053	.053	.059	.059	.067	.067	.073	.076	.093

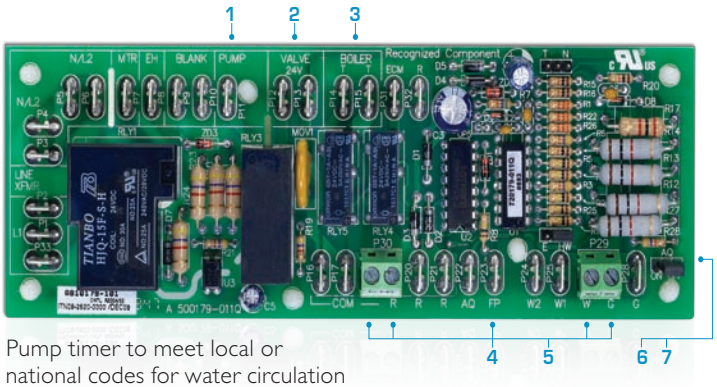
(1) Electirc heat models are not available in 120 V, 60 Hz.

March 17, 2011

ISO 9001:2000 Registered Quality System

Multi-Function Controls

Easy to read plug and play multi-function control board, standard on all models.



Pump timer to meet local or national codes for water circulation

Control Board Features:

1. Controls both factory and field installed circulating pumps
2. 24 VAC isolation valve control
3. Auxiliary contacts for water heater or boiler activation
4. Freeze protection activates at 40°F
5. Thermostat connections
6. 60 second time delay for blower activation
7. 130°F aquastat time delay for blower activation (optional)

Variable-speed Option

Optional 5-speed high efficiency ECM motor for enhanced product performance.



Variable-speed Features & Benefits:

- Maintains selected CFM over wide range of static conditions
- Standard fan time delay feature
- Constant air circulation setting for improved IAQ
- LED display for visual indication of air volume

The ADP Advantage...

FLEXIBILITY

ADP tailors custom solutions to meet your unique market needs.

QUALITY

ADP proprietary testing technology ensures leak-free performance at the higher operating pressures of R-410A systems.

SERVICE

ADP coils and air handlers are made for seamless installation and easy access.

ENERGY SAVINGS

Many models are available to achieve higher SEER levels for ENERGY STAR compliance, utility rebates, and federal tax credits.

WARRANTY

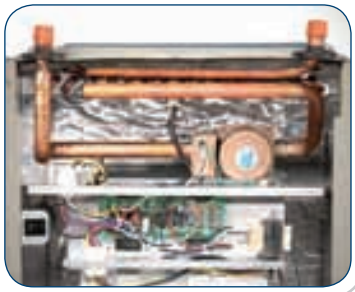
B Series air handlers feature a standard 5-year limited warranty.

The Premier Upgrade for Any System...

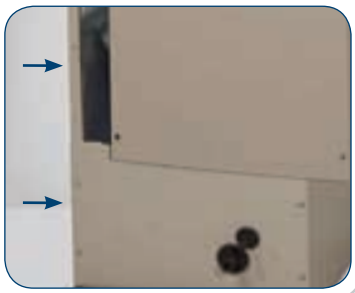
Introducing B Series Multi-Position Air Handlers by ADP. Flexible options including electric and hot water heat, standard and variable-speed motors make this ideal choice for many residential applications.



Easy to replace hot water heat kits – available factory or field installed



Two separate front panels for convenient access to internal components



Side return option available on 12 - 36 BTUH models



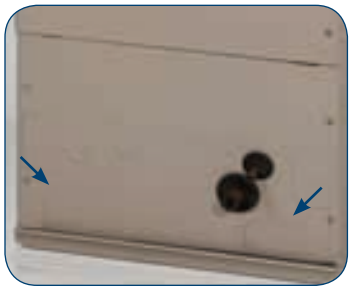


Magnetic filter rack door for easy access and replacement

Standard sized fiberglass air filter included with every air handler

Upflow, horizontal left & right configurations

Left and right dual drain connections with multiple knock-outs offer a variety of installation options



SOLUTIONS FOR CUSTOMIZED COMPORT



Don't just choose a Lennox ® product…choose a Lennox Comfort System. These complete packages of HVAC solutions provide tools to create a healthy and comfortable environment.

Packaged Units

- Strategos™ Rooftop Units
- Energence™ Rooftop Units
- Landmark™ Rooftop Units
- Single-phase residential packaged units*

Heating

- Gas Furnaces
- Unit Heaters
- Duct Furnaces

Split Systems

- S-Class™ Air Conditioners and Heat Pumps
- T-Class Air Conditioners and Heat Pumps
- R-410A Condensing Units
- 10 SEER R-22 Vertical and Horizontal Condensing Units*
- Mini-Split Systems*
- Universal Mounts*
- Indoor Coils
- Uncased Fan Coils*
- Air Handlers

Controls

- Prodigy™ Control System
- L Connection ® Network
- Systems Integration
- Thermostats

Indoor Air Quality

- Humiditrol ® Dehumidification System
- Demand Control Ventilation
- Energy Recovery Ventilators/Systems
- Air Filters
- UVC Germicidal Lights

*Export only.

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