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MERIT' SERIES

BOX MEDIA

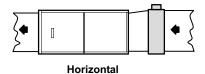
C Model

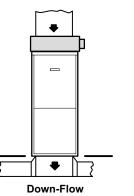
INDOOR AIR QUALITY BMAC MERIT® SERIES BOX MEDIA AIR CLEANER

Bulletin No. 210365 October 2003 Supersedes August 2002











MODEL NUMBER IDENTIFICATION

Up-Flow (Side Installation)

> **BMAC - 12 CE Unit Type** C - Cased CE - Cased upgradable to Healthy Climate® Electronic Air Cleaner BMAC = Box Media Air Cleaner Nominal Air Volume Capacity 12 = 1200 cfm (565 L/s) 14 = 1200 cfm (565 L/s) 20 = 2000 cfm (945 L/s)

CE Model

Lo-Boy

FEATURES

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WARRANTY

All covered components have a five year limited warranty in residential applications, one year in non-residential applications. Filter media is not covered.

Refer to Lennox Equipment Limited Warranty certificate included with unit for specific details.

INSTALLATION CONSIDERATIONS

25 in. (635 mm) clearance in front of the air cleaner is required to allow removal of filter media.

Due to the flue location on down-flow furnaces, the front of the air cleaner must be installed to the side or rear of the furnace cabinet. If installed in a confined space, service clearance may be restricted.

If an atomizing spray type humidifier is also used, it must be installed downstream from the air cleaner.

If a UV germicidal light is used in the system, maintain a minimum distance of 6 ft. (1.8 m) from the air cleaner if they are in direct line of sight to one another. Maintain a minimum of 3 ft. (1 m) if using a 90° bend or turn in the duct.

Visit us at www.lennox.com For the latest technical information, www.lennoxdavenet.com

FEATURES

APPLICATIONS

Lennox MERV 8 filters (Minimum Efficiency Reporting Value based on ASHRAE 52.2).

Designed to capture smaller particles down to 0.3 microns that conventional air filters cannot.

Pleated design draws particles deep inside the filter, allowing maximum air flow and filtration efficiency. Conventional filters trap larger particles at the surface of the filter, which can restrict air flow and reduce the efficiency of the HVAC system.

Multi-position air cleaner is available for installation in the return air side of gas, oil or electric forced, warm air furnaces and blower coil units with cooling applications up to 5 tons. Easily adapts to up-flow, lo-boy, down-flow or horizontal unit applications. The unit can be installed in any position.

Silent operation, requires no electrical component service, generates no ozone and is not affected by relative humidity or temperature.

Constant blower operation will achieve the best air cleaning results with a continual flow of dirt laden air cleaned by the air cleaner.

CE models can be upgraded to Lennox Healthy Climate[®] Electronic Air Cleaner with optional Upgrade Kit.

CABINET

Constructed of painted heavy gauge galvanized steel.

Cabinet will withstand 400 lbs. (181 kg) static weight, enough to support the weight of a typical furnace and evaporator coil or blower-coil unit.

Tool-less access door allows quick and easy replacement of filter media.

Mounts in any position. Air flow direction thru the cabinet can be changed by re-positioning the filter. Arrows on filter indicate air flow direction.

Predrilled mounting holes and bendable tabs simplify flush mounting to unit or duct work.

FILTER MEDIA

Disposable, pleated MERV 8 filter (Minimum Efficiency Reporting Value based on ASHRAE 52.2).

Dust mites, pollen, mold spores, pet dander and other contaminants down to 0.3 microns are captured by the filter.

Disposable media with specially pleated 100% electro-statically charged, white non-woven synthetic fibers provides a large surface area allowing maximum dirt holding capacities with minimum air resistance.

Double-wall beverage board frame for rigid construction.

Recommended replacement of the media depends on a variety of factors, see Specifications table for filter service life. Factors that will influence frequency of replacement of the the media are: the number of people and their activity, the amount of carpeting, pets, size of home, number of smokers and the pollution level in the area.

The media's lowest efficiency point is when it is new. Efficiency increases with usage.

Media is certified to UL 900 standard, UL classification - Class 2.

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

ELECTRONIC AIR CLEANER UPGRADE KIT (FOR CE MODELS ONLY)

For maximum efficiency, all CE models can easily be converted to Lennox Healthy Climate[®] Electronic Air Cleaners at a later date. All components needed to convert BMAC-14CE or BMAC-20CE to HC-EAC Electronic Air Cleaners are included in kit.

Includes two pre-filters, two collecting cells, power pack, female power plug, lead assembly, and literature.

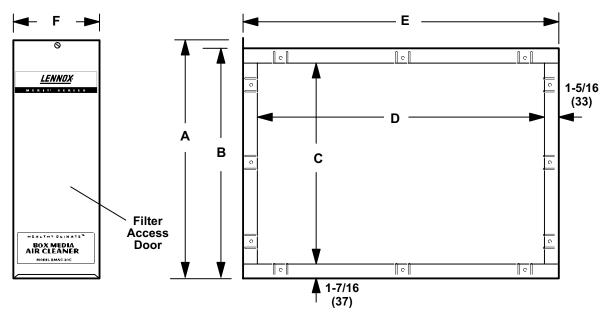
SPECIFICAT	TIONS					
General Data	Model No.	BMAC-12C	BMAC-20C	BMAC-14CE	BMAC-20CE	
	¹ Dust holding capacity @ 0.3 in. w.c grams	42	20	48	47	
Air Flow	Air volume range - cfm (L/s)	1000 - 1600 (470 - 755)	1600 - 2200 (755 - 1040)	1000 - 1600 (470 - 755)	1600 - 2200 (755 - 1040)	
	Nominal rated air flow - cfm (L/s)	1200 (565)	2000 (945)	1200 (565)	2000 (945)	
Filter Data Nominal Filter size - in. (mm) Gross filter media area - sq. ft. (m²)		16 x 25 x 3 (406 x 635 x 76)	20 x 25 x 5 (508 x 635 x 127)	16 x 26 x 5 (406 x 660 x 127)	20 x 26 x 5 (508 x 660 x 127)	
		17.5 (1.6)	32 (2.9)	33.6 (3.1)	42 (3.9)	
	Filter estimated service life	8 mos.	9 mos.	11 mos.	12 mos.	
	Pressure drop - in. w.c. (Pa) Initial	.19 (47)	.25 (62)	.14 (35)	.19 (47)	
	Final	.30 (75)	.30 (75)	.30 (75)	.30 (75)	
Shipping weight	lbs. (kg) 1 package	15 (7)	20 (9)	16 (7)	18 (8)	
OPTIONAL	ACCESSORIES AND MAINTE	NANCE SUPI	PLIES - MUS	T BE ORDER	ED EXTRA	
Electronic Air Clea	aner Upgrade Kit	Not Available Not Available X0598 X0599			X0599	
Replacement Filte	placement Filter Media		X0586 or ² X1152	X0584	X0587	

Tested according to ASHRAE standard 52.2-1999, removal efficiency by particle size (0.3 to 10 microns).

² Alternate filter, see table below for specifications.

ALTERNATE FILTER FOR BMAC-20C - SPECIFICATIONS								
General Data	Model No.	Model No.						
	¹ Dust holding capacity @ 0.3 in. w.c	grams	53.8					
Air Flow	Air volume range -	Air volume range - cfm (L/s) 1600 - 2200 (755 - 1040)						
	Nominal rated air flow - cfm (L/s) 2000 (945)							
Filter Data	Nominal Filter size -	in. (mm)	20 x 25 x 5 (508 x 635 x 127)					
	Gross filter media area - so	q. ft. (m ²)	38 (3.5)					
	Filter estimated se	12 mos.						
-	Pressure drop - in. w.c. (Pa)	Initial	.28 (70)					
		Final	.30 (75)					

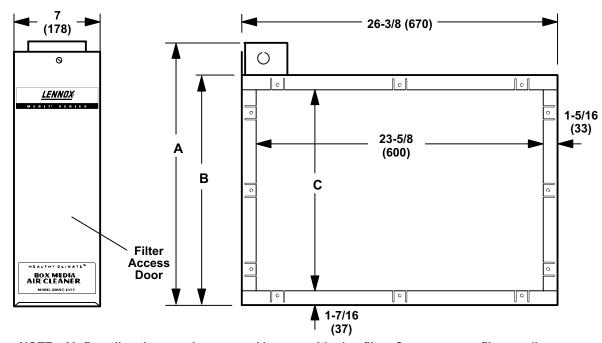
¹ Tested according to ASHRAE standard 52.2-1999, removal efficiency by particle size (0.3 to 10 microns).



NOTE - Air flow direction may be reversed by re-positioning filter. See arrows on filter media.

Model	Α		В		С		D		E		F	
Number	in.	mm	in.	mm								
BMAC-12C	17-7/16	443	16-7/16	418	13-1/2	343	21-7/8	556	24-5/8	625	5	127
BMAC-20C	21-3/16	538	20-3/16	513	17-3/16	436	22-5/16	567	24-5/16	618	7	178

DIMENSIONS - CE MODELS - INCHES (MM)



NOTE - Air flow direction may be reversed by re-positioning filter. See arrows on filter media.

Model	Α		В		С		
Number	in.	mm	in.	mm	in.	mm	
BMAC-14CE	19-1/2	495	16-1/2	419	13-9/16	344	
BMAC-20CE	23-5/8	600	20-5/8	524	17-3/4	451	