INDOOR AIR QUALITY

HEPA Healthy Climate[®] HEPA Bypass Air Filtration System

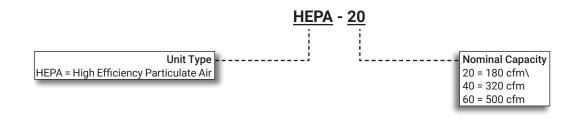
Bulletin No. 210397 December 2011 Supersedes October 2010



RESIDENTIAL PRODUCT SPECIFICATIONS



MODEL NUMBER IDENTIFICATION



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APPROVALS AND WARRANTY

APPROVALS

UL Listed

WARRANTY

- All Covered Components
 - · Limited five year warranty in residential applications
 - Limited one year in non-residential applications
- NOTE FIlter media is not covered.

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

FEATURES

APPLICATIONS

- Designed for installation in forced air systems or can be used independently
- When connected to the return air duct, the HEPA unit diverts some of the return air into the three-stage filter
- Cleaned air is returned to the return air duct to be heated or cooled
- Designed to capture 99.97% of particulates 0.3 micron and larger of the air that passes through it
- Unit can be installed in any position
- Quiet operation
- Generates no ozone
- Constant blower operation will achieve the best air cleaning results with a continual flow of dirt laden air cleaned by the HEPA filter

Cabinet

- · Constructed of painted, heavy-gauge galvanized steel
- · Completely insulated for quiet operation
- Insulation also reduces heat loss and gain

THREE-STAGE FILTRATION PROCESS

- Used to create the most effective filtration system possible
- Each filter is independent and can be changed individually **Stage 1**:
 - **Pre-Filter** An inexpensive pre-filter to remove larger particulates from the air
 - This is important to prolong the life of the HEPA filter

Stage 2:

- HEPA Removes 99.97% of particulates 0.3 micron and larger
- The air which is now almost completely free of particulates then passes through the third stage filter

Stage 3:

- Carbon 1/2 in. thick carbon filter for removing chemicals and odors from the air
- The Healthy Climate HEPA Bypass Filtration System also has an optional heavy duty granular carbon canister available for maximum removal of chemicals and odors
- Clean air is then expelled from the unit to be introduced into the air you breathe

MAINTENANCE ITEMS / OPTIONAL ACCESSORIES

FILTRATION

Maintenance Items

Annual Maintenance Kit

• Includes charcoal inner filters (4), carbon pre-filter (1) and O-ring (1)

Charcoal Inner Filter

- This filter captures odors and gasses, but will not change the filter's appearance
- Replace filter when it no longer seems to capture odors, or once every three months, whichever occurs first
- Estimated life: six months

Carbon Pre-Filter

- Dust and other large particles will collect on the prefilter over time
- The color of the filter will change as particulates build up on the pre-filter
- Change the pre-filter when you can see the particulate build up starting to clog the pre-filter
- Estimated life: 12 months

NOTE - Filter items also avaiable separately.

HEPA Easy Twist Filter Cartridge

- HEPA cartridge filter will darken as it captures particulates
- See Installation Instructions for replacement color examples
- Estimated life: 2-5 years
- **NOTE** Filter life is based on average air particulate content. Some filters may need to be changed more often due to high dust, humidity, or chemicals found in the indoor air.

Optional Accessories

Carbon Canister Filter

- Optional carbon canister filter can be used in place of the carbon pre-filter
- · Coconut shell activated carbon filter

CONTROLS

Optional Accessories

Hepa Interlock Kit

 Allows HEPA filter system to operate only when furnace/ air handler blower is operating

SPECIFICATIONS

eneral Data Model No.			HEPA-60		
l 0 in. w.g. external static pressure)	180 cfm	320 cfm	500 cfm		
	120V-60hz-1 ph				
	125 watts	125 watts	225 watts		
	1	1	1.8		
inlet/outlet - round	8	10	10		
outlet - round	6	8	8		
	30 - 95°F	30 - 95°F	30 - 95°F		
	30	44	49		
ORDER SEPARATELY					
l filters, carbon pre-filter, O-ring)	X5803	X5804	X5804		
HEPA Easy Twist Filter Cartridge	92X17	92X10	92X10		
Carbon Pre-filter	X4137	X4138	X4138		
Charcoal Inner Filter	X2678	92X09	92X09		
S - ORDER SEPARATELY					
Carbon Canister Filter (coconut shell activated carbon)			98X75		
	X2680	X2680	X2680		
	I 0 in. w.g. external static pressure) inlet/outlet - round outlet - round ORDER SEPARATELY filters, carbon pre-filter, O-ring) HEPA Easy Twist Filter Cartridge Carbon Pre-filter Charcoal Inner Filter	I 0 in. w.g. external static pressure)180 cfmI 0 in. w.g. external static pressure)180 cfmI 125 watts1125 watts1inlet/outlet - round8outlet - round630 - 95°F30ORDER SEPARATELY30filters, carbon pre-filter, O-ring)X5803HEPA Easy Twist Filter Cartridge92X17Carbon Pre-filterX4137Charcoal Inner FilterX2678S - ORDER SEPARATELY94X98	10 in. w.g. external static pressure) 180 cfm 320 cfm 120V-60hz-1 ph 120V-60hz-1 ph 125 watts 125 watts 11 10 11 10 11 10 11 10 <td< td=""></td<>		

HOUSE SIZE VS. AIR CHANGES PER HOUR

Notes:

Industry experience indicates that one (1) air change per hour generally provides adequate air cleaning. Actual results will depend on multiple factors such as outdoor particulate levels, infiltration rate, indoor activities, etc.

The chart is based on an infiltration rate of 0.3 air changes per hour, which is typical for residential construction. Infiltration typically brings in more particulates and thus increases the air changes per hour needed for HEPA bypass filtration. Other particulate sources in the house will require higher air changes per hour.

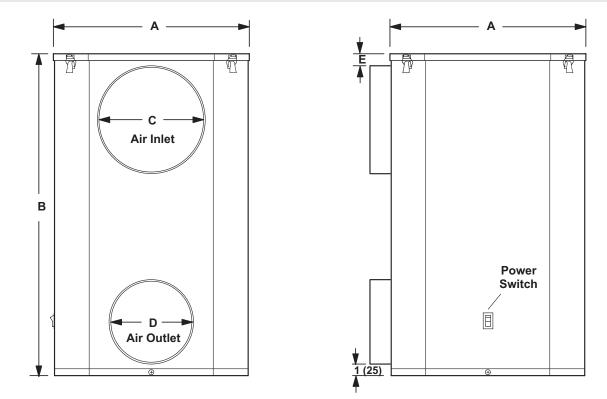
The chart is based on continuous operation of the HEPA bypass filter. If the HEPA filter is cycled, the capacity of the filter needs to be increased. For example, if the HEPA filter is ON only half the time, then the capacity of the unit needs be doubled or additional units need to be installed.

The more air changes per hour provided, the more effective a HEPA bypass filter will be. People with sensitivities may desire a higher number of air changes per hour for cleaner air.

*Area - ft ²	Volume - ft ³	Model No.				
Area - II-	volume - It	HEPA-20	HEPA-40	HEPA-60		
1000	8000	1.3	2.4	3.8		
1200	9600	1.1	2	3.1		
1500	12,000	0.9	1.6	2.5		
1800	14,400		1.3	2.1		
2000	16,000		1.2	1.9		
2500	20,000		1	1.5		
3000	24,000			1.3		
3500	28,000			1.1		

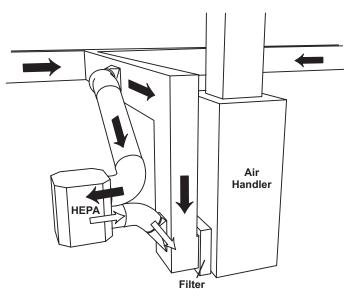
* Chart based on homes with 8 ft. ceilings.

DIMENSIONS

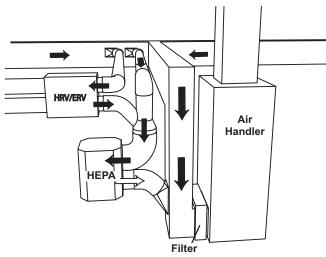


Model No.		4	В		С		D		E		F	
Model No.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
HEPA-20	14	356	17-7/8	454	8	203	6	152	1	25	1-1/4	32
HEPA-40 HEPA-60	16-1/8	410	28	711	10	254	8	203	1-3/4	44	1-7/8	48

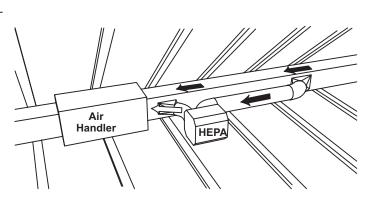
TYPICAL APPLICATIONS



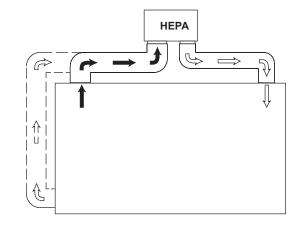
Typical Return to Return Application For homes with up-flow forced air furnace or blower coil systems.



Return to Return Installation with an HRV/ERV For homes with a forced air handler/furnace system and an HRV/ERV system.



Typical Return to Return Application For homes with horizontal forced air furnace or blower coil systems.



Independent Operation

The HEPA system can be used independent of any other equipment. The inlet and outlet of the system can be ducted into the same room to create a cleaner environment.

REVISIONS				
Sections	Description of Change			
Maintenance Items	Added Maintenance Kits.			



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NOTE - Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.