Venmar Model 12LC and vänEE model V12LC

767 pcm to 1026 cfm (0.4 in. w.g.)



FOR LIGHT COMMERCIAL APPLICATIONS

High CFM ventilation for small business owners concerned about indoor air quality (excess moisture, smoke, odors and cleanliness).

Suitable for installation above a suspended ceiling, mechanical room or suspended from a ceiling, this model delivers year-round comfort and sensible heat recovery with virtually no cross leakage. On this unit, the heat exchange efficiency can reach up to 60%.

- Only 24.5" high for false ceiling installation
- Defrost system
- Two-speed control
- Low voltage remote switch

REPAIRS AND MAINTENANCE

All parts of the 12LC and V12LC, such as the large access door and the entire motor sub-assembly, can be removed for ease of maintenance. Furthermore, the electronic circuit board reduces electro-mechanical parts, minimizing repair time to a minimum.

ORDERING EXAMPLE



- ¹ When ordered, the recirculation defrost damper module is factory installed.
- ² Not recommended with aluminum cores.
- ³ Not recommended for ERV.
- ⁴ Not for all configurations; please contact a sales representative for more details.

Controls

Built-in electronic circuit board ready to receive one of the following main controls:

- Venta (Venmar)	no. 40310
- Basic (vänEE)	no. 40210

Heat recovery cores/Energy recovery cores

Dimensions: 12" x 12" x 13.125" Exchange surface: 200 ft² Weight: HRV Polypropylene: 9.2 lb.; Aluminum 13.9 lb. ERV Polymerised paper: 11.2 lb.

Type: crossflow

Quantity: 3

Material: HRV polypropylene or aluminum ERV polymerised paper

Warranty: HRV 15 years; ERV 5 years

A MINIMUM OF 15" [381] CLEARANCE FROM ANY OBSTRUCTION IS REQUIRED FOR REMOVAL OF CORES, FANS, ETC. THE ACCESS DOOR CAN BE REMOVED FROM CABINET



Option

• Medium efficiency air supply filters

Recirculation or exhaust defrost

	EMPERATURE	DEFROST CYCLE (IN MINUTES)		
°C °F		DEFROST/OPERATION		
WARMER THAN -5	WARMER THAN 23	No defrost		
-5 то -15	23 то 5	12/60		
-15 то -30	5 то -21	12/24		
-30 & LESS	-21 & LESS	12/12		

Requirements and Standards

- Complies with the CSA C22.2, no. 113 Standard applicable to ventilators
- Complies with UL Standard 1812 ducted Heat Recovery Ventilators and Energy Recovery Ventilators.

Warranty

The 12LC and V12LC units are fully protected by a 2-year warranty on parts, the best in the industry; the heat recovery cores are covered by a 15-year warranty; the energy recovery cores are protected by a 5-year warranty.

Available at:

DIMENSIONS AND SERVICE CLEARANCES: 12LC AND V12LC



Weight

12LC and V12LC Exhaust Defrost

Core Types	Total Assembled Weight
Polypropylene	186 lb.
Aluminum	208 lb.
Polymerized paper	199 lb.

PERFORMANCES

12LC and V12LC Recirculation Defrost

Core Types	Total Assembled Weight
Polypropylene	247 lb.
Aluminum	269 lb.
Polymerized paper	260 lb.

								HRV and ERV			
Externa Pres	al Static sure	Power Consumed	HRV Spe	High eed	ERV Spo	High eed	Medium Speed		Low Speed		
ln. w.g.	Pascal	Watt	cfm	L/s	cfm	L/s	cfm	cfm L/s		L/s	
0.1	25	1361	1138	537	1108	523	1000	472	776	366	
0.2	50	1328	1104	521	1074	507	965	455	767	362	
0.3	75	1290	1067	503	1037	489	930	439	756	357	
0.4	100	1247	1026	484	996	470	894	422	743	350	
0.5	125	1199	981	463	950	448	856	404	728	343	
0.6	150	1146	929	438	899	424	817	385	707	333	
0.7	175	1087	870	410	840	396	774	365	675	318	
0.8	200	1024	800	377	770	363	723	341	628	296	
0.9	225	955	714	337	685	323	657	310	571	269	
1.0	250	881	614	290	582	275					

ENERGY **P**ERFORMANCE

POLYPROPYLENE CORE				EFFECTIVENESS			
SUPPLY Temperature		Net Air Flow		SENSIBLE	LATENT	TOTAL	
°F	°C	CFM	L/S	%	%	%	
Hea	Heating						
35	1.7	600	283	57	0	38	
35	1.7	450	212	63	0	42	
Coc	LING						
95	35	600	283	55	0	21	
95	35	450	212	60	0	23	

	ALUMINUN	A CORE		EFFECTIVENESS			
Suf Темре	SUPPLY Temperature		et Flow	SENSIBLE	LATENT	TOTAL	
°F	°C	CFM	L/S	%	%	%	
HEA	TING						
35	1.7	600	283	54	0	36	
35	1.7	450	212	57	0	38	
Coc	LING						
95	35	600	283	52	0	20	
95	35	450	212	56	0	21	

POLYME	POLYMERIZED PAPER CORE (HM)				EFFECTIVENESS			
Sui Tempe	PPLY RATURE	Net Air Flow		SENSIBLE	LATENT	TOTAL		
°F	°C	CFM	L/S	%	%	%		
HEA	TING							
35	1.7	600	283	60	47	56		
35	1.7	450	212	65	53	61		
COOLING								
95	35	600	283	60	38	46		
95	35	450	212	63	45	52		

Accoustic Noise Power Chart (dBA) at unit ports

Airflow	Fresh air to building port	Exhaust air from building port		
1026 CFM at 0.4 in. w.g.	74.8 dBA	58.5 dBA		
767 CFM at 0.2 in. w.g.	71.5 dBA	56.3 dBA		

The data shown on left chart come from measurement performed according to ISO 5136 Standard. These data represent the sound power directly measured at the fresh air distribution port and exhaust air from building port. To get the actual noise level in the room, consider noise attenuation resulting from total ductwork installation.

$S_{PECIFICATIONS}$

Models: 12LC and V12LC	Filters: 6 reticulated washable foam filters (20 ppi)		Supply and exh	Supply and exhaust blower motors:		Fans speed control:			
		niters (20 ppi)	- Motor type: PS	_ motors with sealed	- LOW, M	edium and	nign speed	IS	
 All duct connections: 20" x 8" 	3 disposable MERV 8 filters		sle	eved bearings	- 2 speeds available to user				
 Housing: 20 ga. pre-painted steel 		(optional) part no. 63342		ilable to customer)	- Low or medium speed is selected			cted	
• Mounting: Reinforced rubber straps	Mountin	g: Reinforced rubber straps	- R.P.M.: 1625	- H.P.: 1/3	at the t	ime of insta	allation		
 Drains: 3/4" threaded fittings 			- Fan type: direct drive		Unit electrical characteristics:				
	 Insulation 	n:1" foil faced and	centri	fugal blower 7 $^{1}/_{8}$ x 6"	Volts	MCA	MOP	Watts	
		1" acoustic fiberglass wool	- Housing: galva	nised steel	120	14.3	20.0	1275	
	-		-		-				

Project:		REMARKS
Location:		
Model No.:		
Quantity:		
Submitted by:	Date:	

Residential Products Group, 550 Lemire Blvd., Drummondville, Qc, Canada J2C 7W9 - Tel.: 1-800-567-3855 Fax: 1-800-567-1715





E*F***FECTIVENESS**

UNIT PERFORMANCE, SENSIBLE EFFECTIVENESS							
HEATING SUPPLY TEMPERATURE AIRFLOW (CFM)							
35°F / 1.7°C	F/1.7°C 450 700 950 120						
POLYPROPYLENE	70	61	54	51			
ALUMINUM	63	57	63	50			
POLYMERIZED PAPER (HM)	75	70	67	64			

UNIT PERFORMANCE, TOTAL EFFECTIVENESS				
COOLING SUPPLY TEMPERATURE	Airflow (cfm)			
95°F / 35°C	450	700	950	1200
POLYMERIZED PAPER (HM)	47	41	37	35

NOTE: All specifications are subject to change without notice.