SUBMITTAL SHEET

LCH-12E

Energy Recovery Ventilator
1200 CFM (566 L/s)

Item No. 463305

AHRI CERTIFIED™

FEATURES

- Energy recovery cross-flow core
- Fans with backward curved blades
- Reversible application
- Reversible electrical control panel
- Push-pull configuration
- MERV3 rated filters
- Full length drain pan

OPTIONS

- 463309 GTPDK20 O/A 24V motorized prevention damper kit

GTPDK20

CABINET

20 gauge corrosion resistance prepainted G90 galvanized steel, insulated with 1 in. (25 mm) fiberglass with FSK facing.

MOTORS

Four (4) high performance, variable speed, maintenance-free Ebm-Papst™ backward curved blades motorized impellers with permanently lubricated sealed ball bearings and (TOP) thermal overload protected.

POLYMER MEMBRANE ERV CORE

The energy recovery cores are fixed plate cross-flow made from enthalpic polymer membrane that is highly permeable to humidity. The ERV core is freeze tolerant and water washable. During winter, the core transfers sensible (heat) and latent (humidity) from the outgoing air to the incoming air and during summer the core transfers sensible (heat) and latent (humidity) from the incoming air to the outgoing air to essentially reduce the latent load.

FILTERS (MERV3)

The exhaust and fresh air streams are protected by MERV3 washable filters constructed to meet UL 900.

DEFROST SEQUENCE

The defrost sequence is electronically controlled to measure the incoming outdoor air temperature, the sequence is activated at -5°C (23°F) and colder. This system eliminates that the heat energy recovery core doesn't build with ice or freezes.

Standard defrost type: (Evacuation) The supply fans shuts down, the exhaust fan speed increases pending the measured outside temperature.

MAINTENANCE

Cores, filters and drain pan can be accessed easily from both sides of the ERV from hinged access panels. Cores conveniently slide out with only 15" (380 mm) clearance. Motors can be accessed from both sides of the ERV from easy access panels. Motors are easily accessible by removing the access panel and sliding the motor assemblies out of the ERV. A quick disconnect allows for fast inspection of motors.

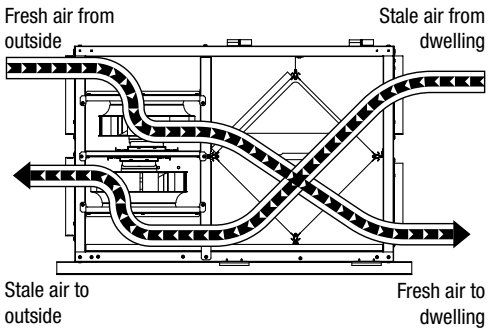
MOUNTING

Unit may be suspended by using threaded rod, or saddle type installation on a platform. (not supplied). Unit shall be adaptable for easy service of electrical components.

WARRANTY

Greentek ERVs have a warranty that is limited to 2 years on all componants and limited 3 years for the ERV core, from the date of purchase, including parts replaced during this time period. If there is no proof of purchase available, the date associated with the serial number will be used for the beginning of the warranty period

AIRFLOW



Greentek

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E400078/May 2022

HRAI · CSA C US · HVI MEMBER · ENERGY STAR PARTICIPANT

SUBMITTAL SHEET LCH-12E

SPECIFICATIONS LCH-12E

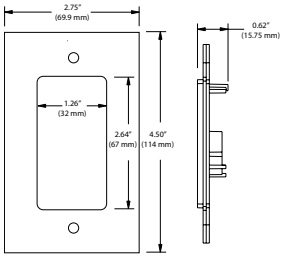
Dimensions	51.6" x 36.2" x 22" (1310mm x 920mm x 559 mm)
Duct Connections	Four (4) 8"x 20" (203mm x 508mm)
Airflow Rates	1200 CFM (566 L/s)
Motor	Four (4) factory balanced fans with backward curved blades
Voltage	120 VAC @ 60 Hz / 1 Phase
Amperage	11.17A / 1340 Watts
Type of Heat Exchanger	(3) Cross-flow (Enthalpic Polymer Membrane)
Exchange Surface	>513 in^2 (0.33m^2)
Standard Defrost Type	Evacuation
Filters	Six (6) MERV3 washable filters
Drain Connection	Two (2) ½" (12.7 mm)
Actual Weight	232 lbs (105 Kg)
Shipping Weight	280 lbs (127Kg)
Shipping Dimensions	38" x 53" x 27" (965mm x 1346mm x 686mm)
Certification	C^{CSA}_{US}, CSA 22.2 N^{o}.113 Complies with UL 1812

OPTIONAL WALL CONTROLS

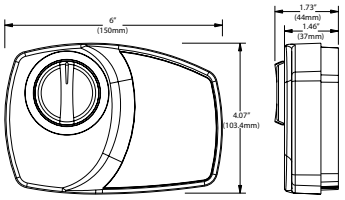
Vectra Series	EHC 1.5 and EHC 1.0
RD Series	RD-1, RD-2, RD-3P, RD-4P
Timers	T3 (20, 40, 60 minutes)

WALL CONTROL DIMENSIONS

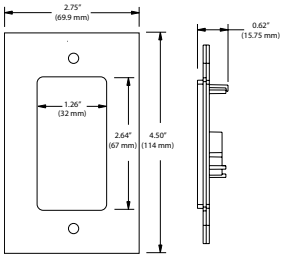
Vectra Series



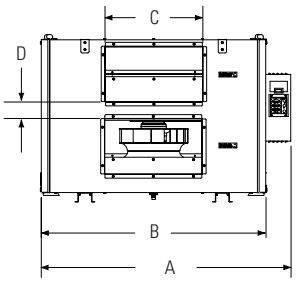
RD Series



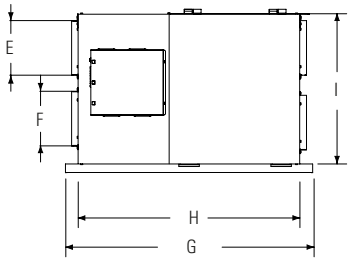
T3 Timer



Side View



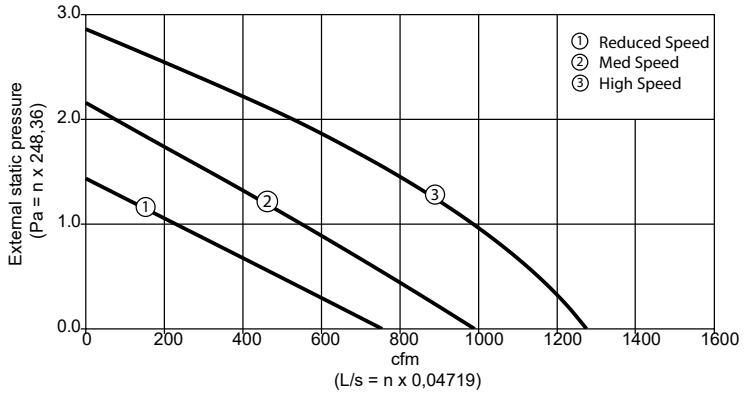
Front View



A	B	C	D	E	F	G	H	I
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
51.6 (1310)	47.3 (1202)	20 (508)	2.5 (63)	8 (203)	8 (203)	36.2 (920)	32.5 (826)	22 (559)

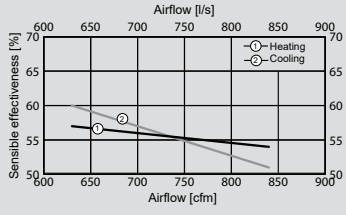
VENTILATION PERFORMANCE

in. wg. (Pa)	0.2 (50)	0.4 (100)	0.6 (150)	0.8 (200)	1.0 (250)	1.2 (400)	1.8 (450)
	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)
Supply High	1230 (580)	1179 (556)	1121 (529)	1057 (499)	985 (465)	906 (482)	629 (297)
Supply Med	904 (427)	817 (386)	729 (344)	639 (302)	548 (259)	455 (215)	167 (79)
Supply Low	650 ()307	544 (257)	439 (207)	333 (157)	227 (107)	121 (57)	-



ENERGY PERFORMANCE CORE*

	Net Air Flow		Net Effectiveness	Net Effectiveness	Net Effectiveness
	L/s	CFM	Sensible	Latent	Total
HEATING	396	840	54	35	50
	297	630	57	40	54
COOLING	396	840	51	32	49
	297	630	60	37	53



*Actual performance may vary pending conditions

SUBMITTAL SHEET LCH-12E

Job Name:		
Job Location:		
Job Reference Number:		
Unit Reference Number:		
Engineer:		
Distributor:		
Contractor:		
For Reference:	For Approval:	For Construction:
Submitted by:		Date:
Address:		
Tel:	Fax:	Email:
Notes:		

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