

SUBMITTAL SHEET

LCH-4E

Energy Recovery Ventilator
200 CFM (94 L/s) to 450 CFM (212 L/s)

Item No. 463303



FEATURES

- Energy recovery cross-flow core
- Fans with backward curved blades
- Reversible application
- Reversible electrical control panel
- Push-pull configuration
- 100% variable speed
- MERV3 rated filters
- Advanced electronic balancing
- Full length drain pan
- Outdoor ducts on the same side

OPTIONS

- 463306 GTDMK14 Recirculation 24V damper module kit
- 463308 GTPDK14 O/A 24V motorized prevention damper kit



GTPDK14

CABINET

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

MOTORS

Two (2) 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.

ELECTRONIC BALANCING SYSTEM (DUOTROL)

- The system is balanced by adjusting each motor independently
- No balancing dampers required
- Connection terminals for optional wall controls
- Quiet and energy efficient

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.

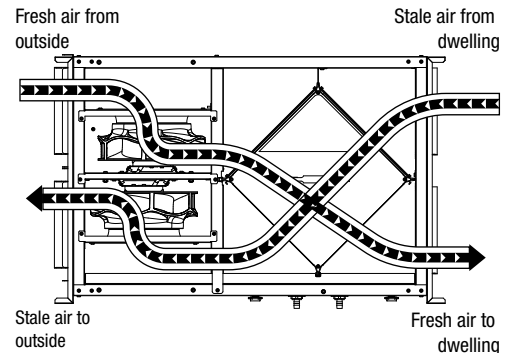
MOUNTING

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 components 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



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SUBMITTAL SHEET LCH-4E

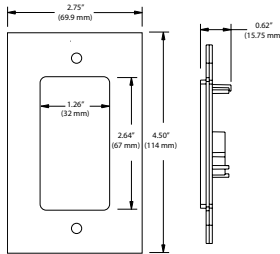
SPECIFICATIONS LCH-4E

Dimensions	29.4" x 35.9" x 22.7" (747 mm x 911 mm x 577 mm)
Duct Connections	Four (4) 8" x 14" (203mm x 355mm)
Airflow Rates	200 CFM (94 L/s) to 450 CFM (212 L/s)
Motor	Two (2) factory balanced fans with backward curved blades
Voltage	120 VAC @ 60 Hz / 1 Phase
Amperage	4.17A / 500 Watts
Type of Heat Exchanger	Two (2) Cross-flow (Enthalpic Polymer Membrane)
Exchange Surface	>260 in ² (0.17m ²)
Standard Defrost Type	Evacuation
Filters	Four (4) MERV3 washable filters
Drain Connection	Two (2) ½" (12.7 mm)
Actual Weight	132 lbs (60 Kg)
Shipping Weight	167 lbs (76 Kg)
Shipping Dimensions	38" x 38" x 27" (965mm x 965mm x 686mm)
Certification	cCSAUS, CSA 22.2 N ^o .113 Complies with UL 1812

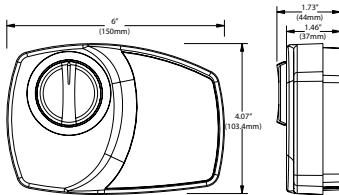
OPTIONAL WALL CONTROLS

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)

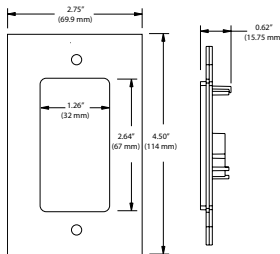
Vectra Series



RD Series

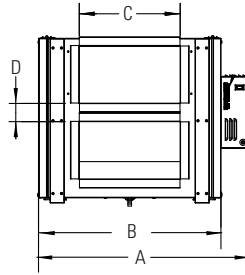


T3 Timer

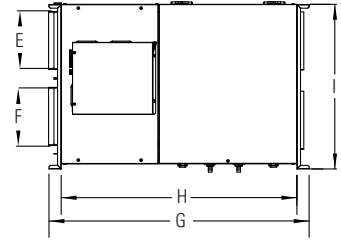


DIMENSIONS DATA

Side View



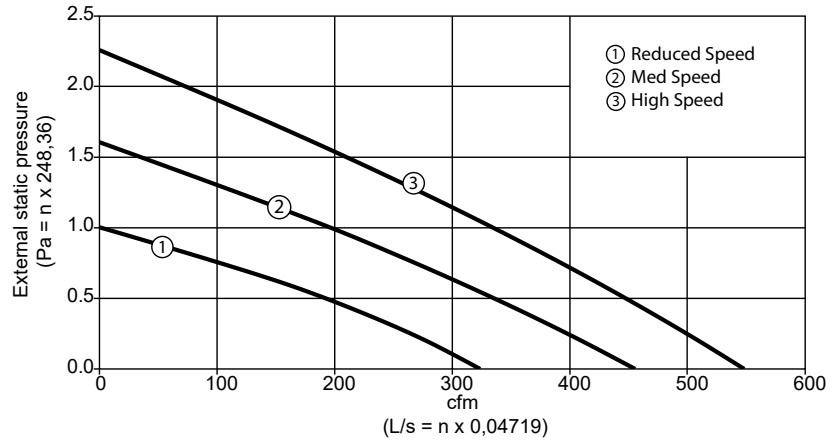
Front View



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)
29.4 (747)	25.2 (639)	14 (355)	2.5 (63)	8 (203)	8 (203)	35.9 (911)	32.5 (826)	22.7 (577)

VENTILATION PERFORMANCE

in. wg. (Pa)	0.2 (50)	0.4 (100)	0.6 (150)	0.8 (200)	1.0 (250)	1.2 (300)	1.4 (350)	1.6 (400)
	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)
Supply High	509 (240)	468 (221)	425 (201)	381 (180)	334 (158)	285 (135)	235 (111)	182 (86)
Supply Med	410 (193)	361 (170)	309 (146)	254 (120)	196 (93)	135 (64)	70 (33)	-
Supply Low	277 (131)	222 (105)	158 (75)	85 (40)	-	-	-	-



ENERGY PERFORMANCE CORE*

	Net Air Flow		Net Effectiveness		Net Effectiveness
	L/s	CFM	Sensible	Latent	Total
HEATING	142	300	63	46	59
	106	225	66	51	64
COOLING	142	300	63	42	58
	106	225	66	48	63



SUBMITTAL SHEET LCH-4E

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:		