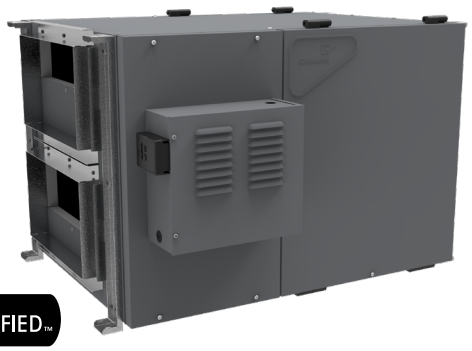
ENGINEERING DATA

LCH-4E

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

Item No. 463303



AHRI CERTIFIED™

FEATURES
- Push-pull configuration
- 100% Variable speed
- 3 Operating modes (Intermittent; Continuous; High)
- Advanced electronic balancing
- Dual service doors & reversible electrical box

APPLICABLE REQUIREMENTS
- Technical data was obtained from published results of test relating to AHRI 1060 Standards
- CSA Standard CSA 22.2 N^{0}.113-10 - Fans and ventilators
- UL Standard 1812 2nd Ed. Ducted heat/energy recovery ventilators (HRV/ERV)

OPTIONS
- 463308 GTPDK14 O/A motorized prevention damper kit

GTPDK14

CABINET
- 20 gauge galvanized pre-painted steel corrosion resistant

ELECTRONIC COMPONENTS
- Electrical Input Voltage: 120 VAC/60Hz / 1-Phase
- Electrical Input Current: 4.17 Amps Max
- Integrated auxiliary furnace interlock relay
- Intergrated 24V connection (18VA)
- RoHs compliant

MOTORS
- Two (2) factory balanced fans with backward curved blades.
- Motors come with permanently lubricated sealed ball bearings, maintenance free
- IP protection class 44 according to DIN 40 050
- 115V, 60Hz, 2.1 Amps
- Maximum RPM 2750 / Horsepower; 0.42 HP

POLYMER MEMBRANE ERV CORE
- Dimensions (2) 11.4" x 11.4" x 11.4" depth (290 mm x 290 mm x 290 mm)
- Corrugated aluminum layers, combined with advanced polymer membrane, UL94 HF-1
- Transfers both sensible & latent heat.
- Endure harsh temperatures; effective in warm and cold climates
- Water washable
- Meets ASHRAE 90.1

ELECTRONIC BALANCING SYSTEM (DUOTROL)
- The system is balanced by adjusting each motor indipendently
- No balancing dampers required
- Connection terminals for optional wall controls
- Quiet and energy efficient

DEFROST
- Advanced supply fan shut down defrost sequence
- Defrost type: Evacuation
  Activated automatically at -5°C (23°F)

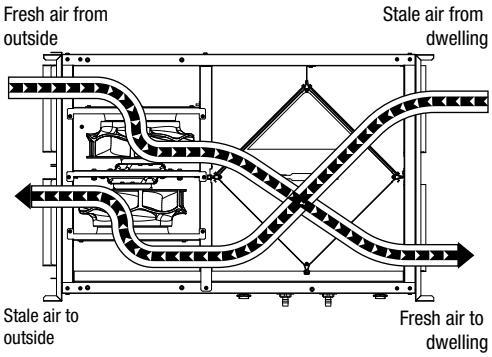
DUCT CONNECTIONS
- (4) 8"x 14" (203 mm x 355 mm)

MOUNTING
- Saddle installation
- Suspended installation with threaded rod (not included)

FILTERS (MERV6)
- The FRESH/EXHAUST air streams are protected by MERV6 washable filters constructed to meet UL 900.

WARRANTY
- 2 year limited warranty on motors
- 2 year limited warranty on parts
- 3 year limited warranty on Energy Recovery Core

AIRFLOW



Greentek
50 Kanalflakt Way,
Bouctouche, NB Canada E4S 3M5

Toll free: 1 888 724-5211
Fax: 1 (866) 426-7430

Visit us at: www.greentek.ca

444892 / APRIL 2019

ENGINEERING DATA LCH-4E

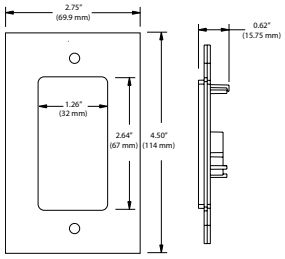
SPECIFICATIONS LCH-4E

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 in² (0.17m²)
Standard Defrost Type	Evacuation
Filters	Four (4) MERV 6 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	$_{C}$CSA$_{US}$, CSA 22.2 N^{0}.113 Complies with UL 1812

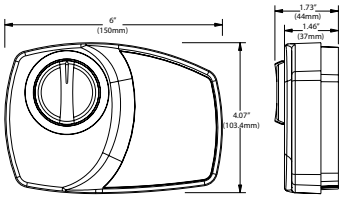
OPTIONAL WALL CONTROLS

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)

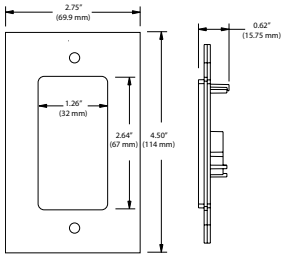
Vectra Series



RD Series

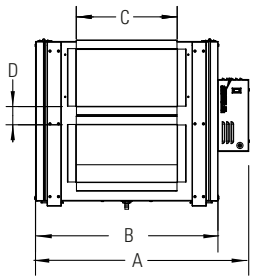


T3 Timer

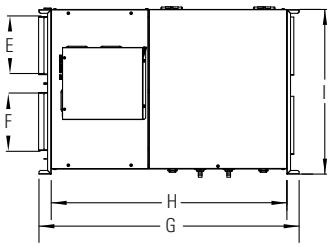


DIMENSIONS DATA

Side View



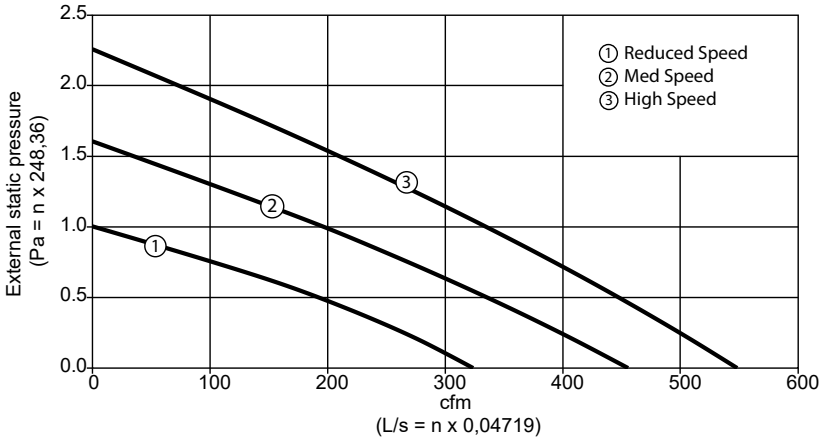
Front View



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)

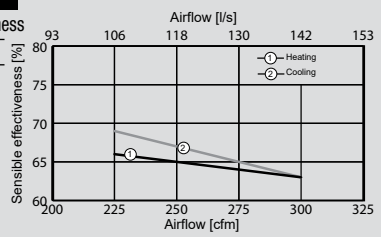
VENTILATION PERFORMANCE

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	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



*Actual performance may vary pending conditions

Quoted by:	Date:
Project:	Remarks:
Quantity:	
Model:	
Site:	
Architect:	
Engineer:	
Contractor:	