

# ENGINEERING DATA

## LCH-12E

Energy Recovery Ventilator  
1200 CFM (566 L/s)

Item No. 463305

Field Controls P/N: 605109012



### FEATURES

- Push-pull configuration
- 100% Variable speed
- 4 Operating modes\* (Intermittent; Continuous; High; \*Optional Recirculation)
- 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<sup>o</sup>.113-10 - Fans and ventilators
- UL Standard 1812 2<sup>nd</sup> Ed. Ducted heat/energy recovery ventilators (HRV/ERV)

### OPTIONS

- 605110012 GTDMK20 Recirculation damper module kit
- 605110016 GTPDK20 O/A motorized prevention damper kit



GTDMK20



GTPDK20

### CABINET

- 20 gauge galvanized pre-painted steel corrosion resistant

### ELECTRONIC COMPONENTS

- Electrical Input Voltage: 120 VAC/60Hz / 1-Phase
- Electrical Input Current: 11.17 Amps Max
- Integrated auxiliary furnace interlock relay
- Integrated 24V connection (18VA)
- RoHs compliant

### MOTORS

- Four (4) factory balanced fans with backward curved blades.
- Motors come with permanently lubricated sealed ball bearings, maintenance free
- Thermal overload protection
- 115V, 60Hz, 2.92 Amps
- Maximum RPM 2750 / Horsepower; 0.42 HP

### POLYMER MEMBRANE ERV CORE

- Dimensions (3) 12" x 12" x 15" depth (305 mm x 305 mm x 380 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

### DEFROST

- Advanced supply fan shut down defrost sequence
- Defrost type: Evacuation  
Activated automatically at -5°C (23°F)
- Optional defrost type: Recirculation  
(Requires GTDMK20 Damper module kit.)

### DUCT CONNECTIONS

- (4) 8" x 20" (203 mm x 508 mm)

### MOUNTING

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

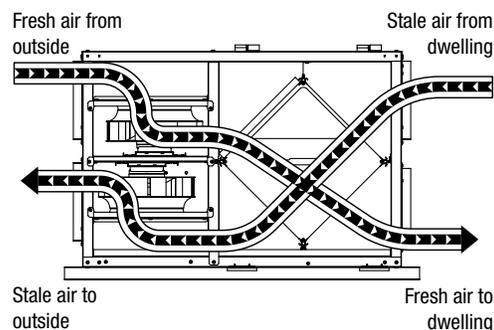
### FILTERS (MERV6)

- 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 Heat Recovery Core

### AIRFLOW



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# ENGINEERING DATA LCH-12E

## SPECIFICATIONS LCH-12E

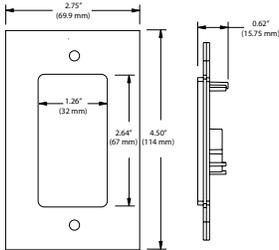
<b>Dimensions</b>	51.4" x 36.6" x 22" (1306 mm x 923 mm x 559 mm)
<b>Duct Connections</b>	Four (4) 8" x 20" (203mm x 508mm)
<b>Airflow Rates</b>	1200 CFM (566 L/s)
<b>Motor</b>	Four (4) factory balanced fans with backward curved blades
<b>Voltage</b>	120 VAC @ 60 Hz / 1 Phase
<b>Amperage</b>	11.17A / 1340 Watts
<b>Type of Heat Exchanger</b>	(3) Cross-flow (Enthalpic Polymer Membrane)
<b>Exchange Surface</b>	>513 in <sup>2</sup> (0.33m <sup>2</sup> )
<b>Standard Defrost Type</b>	Evacuation
<b>Optional Defrost Type</b>	Recirculation (with 463307 GTDMK20 Damper)
<b>Filters</b>	Six (6) MERV 6 washable filters
<b>Drain Connection</b>	Two (2) 1/2" (12.7 mm)
<b>Actual Weight</b>	210 lbs (95 Kg)
<b>Shipping Weight</b>	280 lbs (127Kg)
<b>Shipping Dimensions</b>	38" x 53" x 27" (965mm x 1346mm x 686mm)
<b>Certification</b>	cCSAUs, CSA 22.2 N°113 Complies with UL 1812

## OPTIONAL WALL CONTROLS

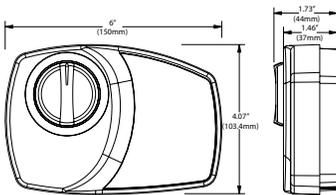
<b>Vectra Series</b>	EHC 1.5 and EHC 1.0
<b>RD Series</b>	RD-1, RD-2, RD-3P, RD-4P, RD-3D*, RD-4D* * Recirculation
<b>Timers</b>	T3 (20, 40, 60 minutes)

## WALL CONTROL DIMENSIONS

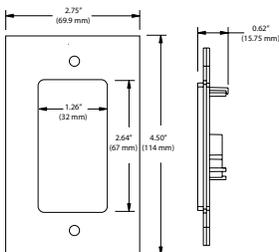
### Vectra Series



### RD Series

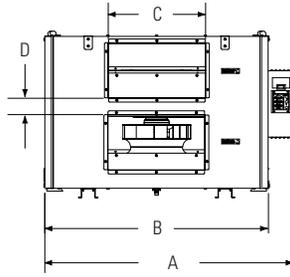


### T3 Timer

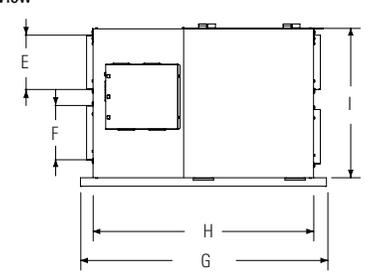


## DIMENSIONS DATA

Side View



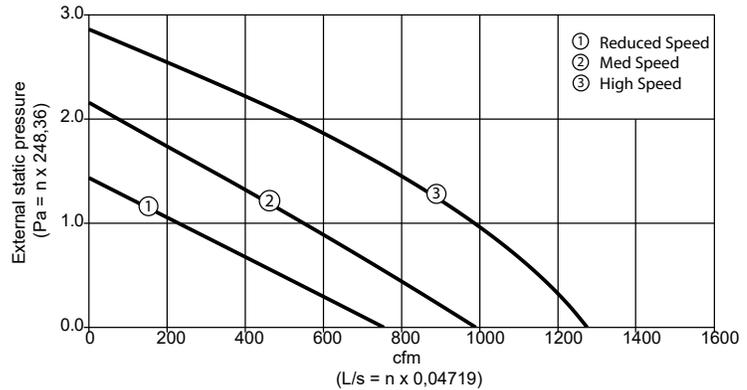
Front View



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)
51 <sup>2</sup> / <sub>5</sub> (1306)	47 <sup>1</sup> / <sub>5</sub> (1199)	20 (508)	2 <sup>2</sup> / <sub>5</sub> (62)	8 (203)	8 (203)	36 <sup>1</sup> / <sub>3</sub> (923)	32 <sup>1</sup> / <sub>2</sub> (826)	22 (559)

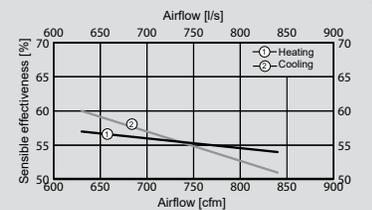
## VENTILATION PERFORMANCE

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
	L/s	CFM	Sensible	Latent	Total
<b>HEATING</b>	396	840	54	35	50
	297	630	57	40	54
<b>COOLING</b>	396	840	51	32	49
	297	630	60	37	53



\*Actual performance may vary pending conditions

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