ENGINEERING DATA

LCH-4H

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

Item No. 463300

AHRI CERTIFIED

FEATURES
- Push-pull configuration
- 100% Variable speed
- 4 Operating modes* (Intermittent; Continuous; High; *Optional Recirculation)
- 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
- 463306 GTDMK14 Recirculation damper module kit
- 463308 GTPDK14 O/A motorized prevention damper kit

GTDMK14

GTPDK14

CABINET
- 22 gauge galvanized pre-painted steel corrosion resistant

ELECTRONIC COMPONENTS
- Electrical Input Voltage: 120 VAC/60Hz / 1-Phase
- Electrical Input Current: 3.92 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, 1.96 Amps
- Maximum RPM 2750 / Horsepower; 0.42 HP

ALUMINUM HRV CORE
- Dimensions (2) 11.4" x 11.4" x 11.4" depth (290 mm x 290 mm x 290 mm)
- Corrugated cross-flow
- Transfers sensible heat
- Endure harsh temperatures; effective in cold climates
- Water washable

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)
- Optional defrost type: Recirculation
  (Requires GTDMK14 Damper module kit.)

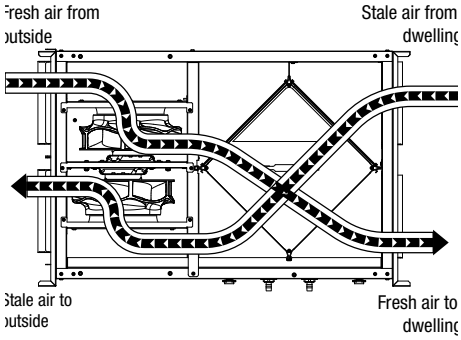
DUCT CONNECTIONS
- (4) 8"x 14" (203 mm x 355 mm)

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
- 15 year limited warranty on Heat Recovery Core

AIRFLOW



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444886 / March 2022

HRAI · CSA US · HVI MEMBER · ENERGY STAR PARTICIPANT

ENGINEERING DATA LCH-4H

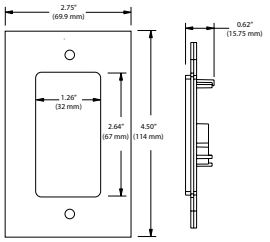
SPECIFICATIONS LCH-4H

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	3.92A / 470 Watts
Type of Heat Exchanger	(2) Aluminum Cross-flow
Exchange Surface	>260 in^2 (0.17m^2)
Standard Defrost Type	Evacuation
Optional Defrost Type	Recirculation (with 463306 GTDMK14 Damper)
Filters	Four (4) MERV 6 washable filters
Drain Connection	Two (2) 1/2" (12.7 mm)
Actual Weight	146 lbs (66 Kg)
Shipping Weight	181 lbs (82 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

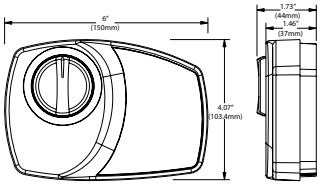
OPTIONAL WALL CONTROLS

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

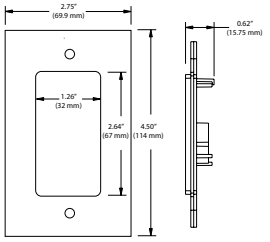
Vectra Series



RD Series

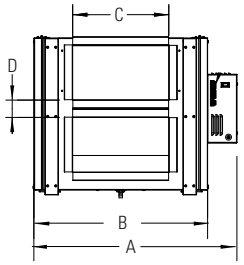


T3 Timer

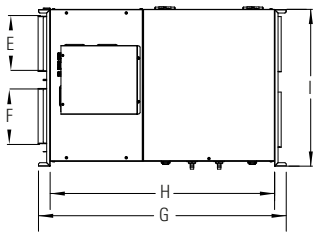


DIMENSIONS DATA

Side View



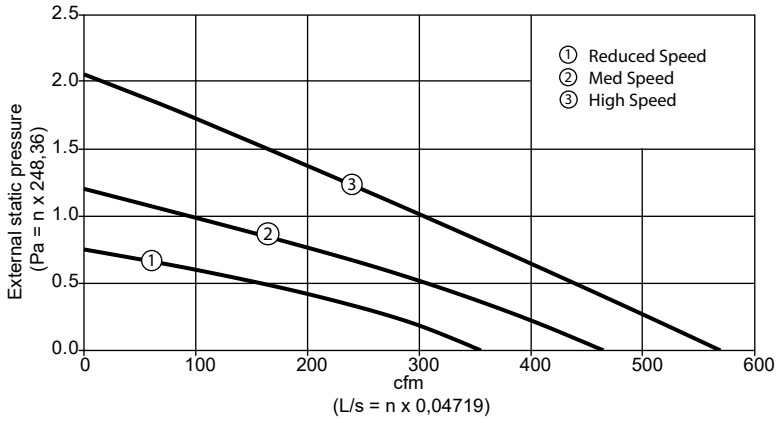
Front View



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)

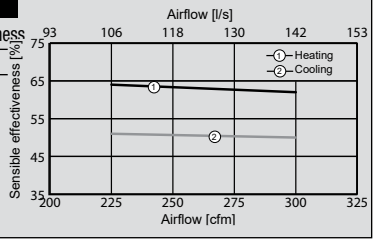
VENTILATION PERFORMANCE

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	518 (244)	465 (219)	412 (194)	358 (169)	303 (143)	248 (117)	192 (91)	135 (68)
Supply Med	406 (192)	339 (160)	265 (125)	184 (87)	-	-	-	-
Supply Low	295 (139)	210 (99)	100 (47)	-	-	-	-	-



ENERGY PERFORMANCE CORE*

	Net Air Flow L/s	Net Air Flow CFM	Net Effectiveness Sensible	Net Effectiveness Total
HEATING	142	300	62	41
	106	225	64	42
COOLING	142	300	50	19
	106	225	51	19



*Actual performance may vary pending conditions

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