ENGINEERING DATA

LCH-7H

Heat Recovery Ventilator
500 CFM (236 L/s) to 750 CFM (354 L/s)

Item No. 463301

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
- 20 gauge galvanized pre-painted steel corrosion resistant

ELECTRONIC COMPONENTS
- Electrical Input Voltage: 120 VAC/60Hz / 1-Phase
- Electrical Input Current: 5.58 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
- Thermal overload protection
- IP protection class 44 according to DIN 40 050
- 115V, 60Hz, 2.96 Amps
- Maximum RPM 2750 / Horsepower; 0.42 HP

ALUMINUM HRV CORE
- Dimensions (2) 12" x 12" x 15" depth (305 mm x 305 mm x 380 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.)

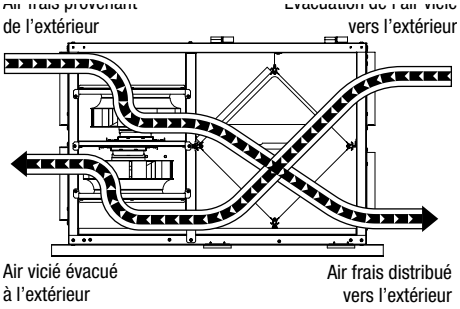
DUCT CONNECTIONS
- (4) 8"x 14" (203 mm x 355 mm)

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

FILTERS (MERV3)
- The FRESH/EXHAUST air streams are protected by MERV3 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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HRAI · CSA C US · HVI MEMBER · ENERGY STAR PARTICIPANT

ENGINEERING DATA LCH-7H

SPECIFICATIONS LCH-7H

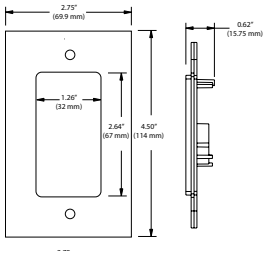
Dimensions	36.57" x 36.2 x 22" (929 mm x 920 mm x 559 mm)
Duct Connections	Four (4) 8"x 14" (203mm x 355mm)
Airflow Rates	500 CFM (236 L/s) to 750 CFM (354 L/s)
Motor	Two (2) factory balanced fans with backward curved blades
Voltage	120 VAC @ 60 Hz / 1 Phase
Amperage	5.58A / 670 Watts
Type of Heat Exchanger	(2) Aluminum Cross-flow
Exchange Surface	>342 in² (0.22m²)
Standard Defrost Type	Evacuation
Optional Defrost Type	Recirculation (with 463306 GTDMK14 Damper)
Filters	Four (4) MERV3 washable filters
Drain Connection	Two (2) ½" (12.7 mm)
Actual Weight	185 lbs (84 Kg)
Shipping Weight	235 lbs (107 Kg)
Shipping Dimensions	38" x 38" x 27" (965mm x 965mm x 686mm)
Certification	C^{CSA}_{US}, CSA 22.2 N⁰.113 Complies with UL 1812

OPTIONAL WALL CONTROLS

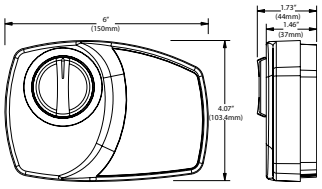
Vectra Series	EHC 1.5 and EHC 1.0
RD Series	RD-1, RD-2, RD-3P, RD-4P, RD-3D*, RD-4D* * Recirculation
Timers	T3 (20, 40, 60 minutes)

WALL CONTROL DIMENSIONS

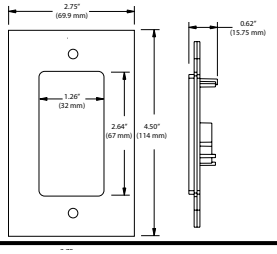
Vectra Series



RD Series

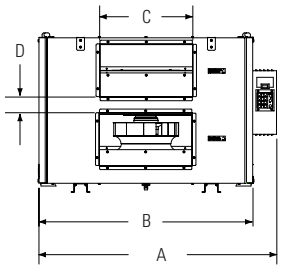


T3 Timer

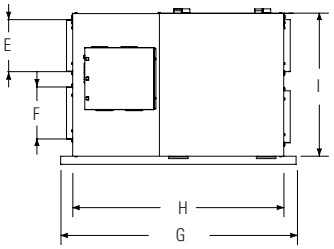


DIMENSIONS DATA

Side View



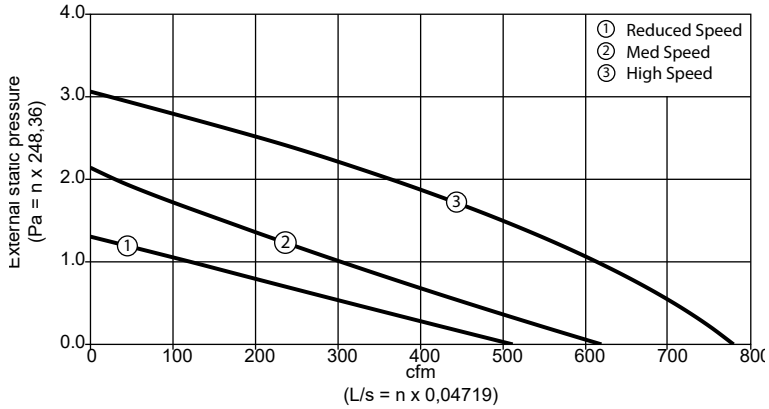
Front View



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)
36.57 (929)	32.33 (821.2)	14 (355)	2.5 (63)	8 (203)	8 (203)	36.2 (920)	32.5 (826)	22 (559)

VENTILATION PERFORMANCE

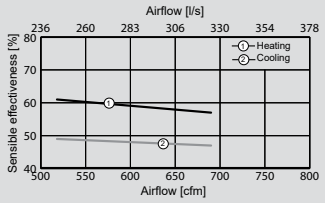
in. wg. (Pa)	0.2 (50)	0.4 (100)	0.6 (150)	0.8 (200)	1.0 (250)	1.4 (350)	1.8 (450)	2.2 (550)
	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)
Supply High	753 (355)	723 (341)	689 (325)	653 (308)	613 (289)	522 (246)	418 (197)	301 (142)
Supply Med	552 (260)	487 (230)	424 (200)	362 (171)	302 (143)	187 (88)	118 (56)	-
Supply Low	432 (204)	352 (166)	274 (129)	196 (93)	120 (57)	-	-	-



(L/s = n x 0,04719)

ENERGY PERFORMANCE CORE*

	Net Air Flow L/s	Net Air Flow CFM	Net Effectiveness Sensible	Net Effectiveness Total
HEATING	326	690	57	37
	244	518	61	40
COOLING	326	690	47	18
	244	518	49	19



*Actual performance may vary pending conditions

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