

SUBMITTAL SHEET

LCH-12H

Heat Recovery Ventilator
1200 CFM (566 L/s)

Item No. 463302



FEATURES

- Heat recovery cross-flow core
- Fans with backward curved blades
- Reversible application
- Reversible electrical control panel
- Push-pull configuration
- MERV3 rated filters
- Full length drain pan

OPTIONS

- 463307 GTDMK20 Recirculation 24V damper module kit
- 463309 GTPDK20 O/A 24V motorized prevention damper kit



GTDMK20



GTPDK20

CABINET

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

MOTORS

Four (4) high performance, variable speed, maintenance-free Ebm-Papst™ backward curved blades motorized impellers with permanently lubricated sealed ball bearings and (TOP) thermal overload protected.

HEAT RECOVERY CORE

The heat recovery cores are fixed plate cross-flow heat exchanger using 1100 alloy aluminum and capable of transferring sensible heat between air streams. Engineered with a turbulence inducing geometry in order to maximize heat transfer. The plates are hemmed to avoid cross-contamination of airstreams.

FILTERS (MERV3)

The exhaust and fresh air streams are protected by MERV3 washable filters constructed to meet UL 900.

DEFROST

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 recovery or 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.

Optional defrost type: (Recirculation*) A motorized damper closes the fresh air from outside port, the exhaust fan shuts down, the supply fan increases speed and will draw warm ambient air from the 5th port located upper left side.*Requires GTDMK20 damper module kit.

MAINTENANCE

Cores, filters and drain pan can be accessed easily from both sides of the HRV from hinged access panels. Cores conveniently slide out with only 15" (380 mm) clearance. Motors can be accessed from both sides of the HRV from easy access panels. Motors are easily accessible by removing the access panel and sliding the motor assemblies out of the HRV. A quick disconnect allows for fast inspection of motors.

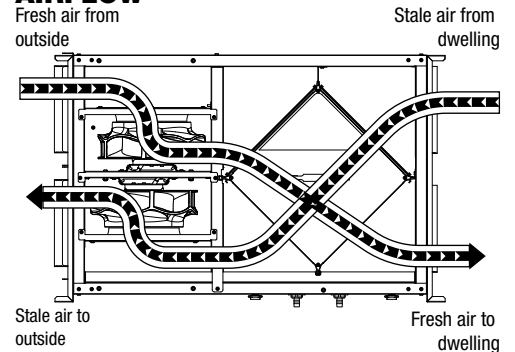
MOUNTING

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 HRVs have a warranty that is limited to 2 years on all components and limited 15 years for the HRV 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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E400072/ May 2022



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SUBMITTAL SHEET LCH-12H

SPECIFICATIONS LCH-12H

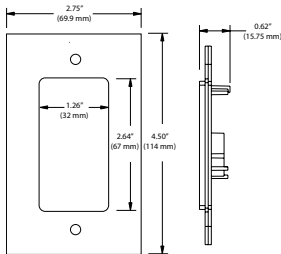
Dimensions	51.6" x 36.2" x 22" (1310mm x 920mm x 559 mm)
Duct Connections	Four (4) 8" x 20" (203mm x 508mm)
Airflow Rates	1200 CFM (566 L/s)
Motor	Four (4) factory balanced fans with backward curved blades
Voltage	120 VAC @ 60 Hz / 1 Phase
Amperage	11.17A / 1340 Watts
Type of Heat Exchanger	(3) Aluminum Cross-flow
Exchange Surface	>513 in ² (0.33m ²)
Standard Defrost Type	Evacuation
Optional Defrost Type	Recirculation (with 463307 GTDMK20 Damper)
Filters	Six (6) MERV3 washable filters
Drain Connection	Two (2) 1/2" (12.7 mm)
Actual Weight	252 lbs (114.5 Kg)
Shipping Weight	319 lbs (144.5 Kg)
Shipping Dimensions	38" x 53" x 27" (965mm x 1346mm x 686mm)
Certification	cCSAUS, CSA 22.2 N ^o .113 Complies with UL 1812

OPTIONAL WALL CONTROLS

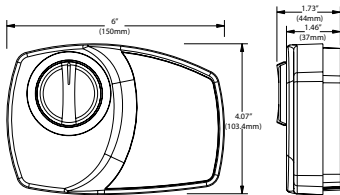
Vectra Series	EHC 1.5 and EHC 1.0
RD Series	RD-1, RD-2, RD-3P, RD-4P, RD-3D*, RD-4D* * Recirculation
Timers	T3 (20, 40, 60 minutes)

WALL CONTROL DIMENSIONS

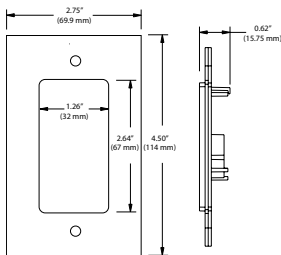
Vectra Series



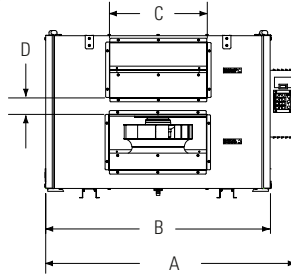
RD Series



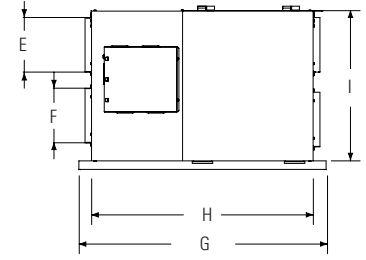
T3 Timer



Side View



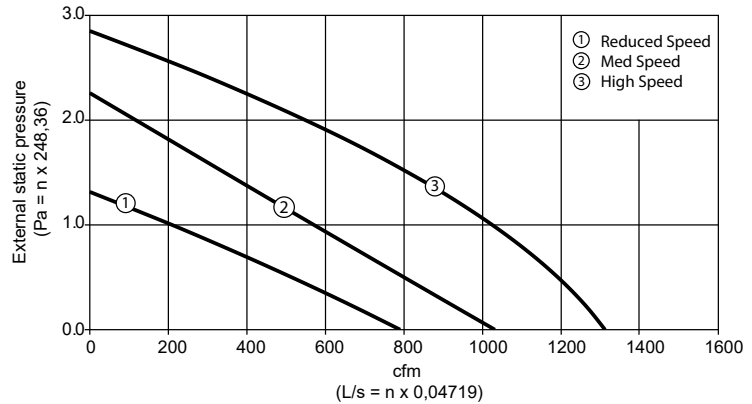
Front View



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)
51.6 (1310)	47.3 (1202)	20 (508)	2.5 (63)	8 (203)	8 (203)	36.2 (920)	32.5 (826)	22 (559)

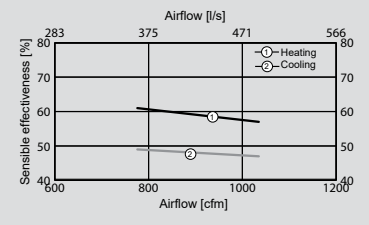
VENTILATION PERFORMANCE

in. wg. (Pa)	0.2 (50)	0.4 (100)	0.6 (150)	0.8 (200)	1.0 (250)	1.4 (350)	1.8 (450)	2.0 (500)
	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	1269 (599)	1219 (575)	1161 (548)	1096 (528)	1023 (483)	855 (404)	656 (310)	545 (257)
Supply med	938 (443)	845 (399)	753 (355)	661 (312)	569 (269)	386 (182)	204 (96)	114 (54)
Supply low	683 (322)	570 (269)	454 (214)	333 (157)	209 (99)	-	-	-



ENERGY PERFORMANCE CORE*

	Net Air Flow		Net Effectiveness	
	L/s	CFM	Sensible	Total
HEATING	488	1035	57	37
	366	776	61	40
COOLING	488	1035	47	18
	366	776	49	19



*Actual performance may vary pending conditions

SUBMITTAL SHEET LCH-12H

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:		