Specification Sheet

LCH-4H

Commercial Heat Recovery Ventilators Product #: 463300



The LCH-4H Commercial Heat Recovery Ventilation system (HRV) complements today's tight buildings. Greentek Heat Recovery Ventilators (HRV) are designed to supply air into a building while exhausting an equal amount of contaminated air to the outside. The aluminium heat exchanger core transfers sensible energy between air streams resulting in tempering of the supply air and reduced loads on the HVAC system.

Feature

- Push-pull configuration
- Removable screw terminal for easy connection
- Dual service doors & reversible electrical box
- External three position switch (Low/Standby/High)
- Weighs 146 lbs (66Kg)

Applications

- Class Room
- Offices
- Retail Shops
- Clinics
- Hair Salon
- Animal Shelters
- Bars & Restaurants
- Larger Homes

Specifications

- Voltage/Phase
- Power rated
- Amp
- 3.92 A
- Average airflow
- @ 0.4" P_s (100Pa)

Port configuration

The unit has access doors on the front and back. Also, the main control panel may be moved from front to back allowing for ducting layout.

Warranty

Limited lifetime on aluminum core, 3 years on motors, and 3 years on parts.



Fans

Two (2) factory balanced fans with backward curved blades. Motors come with permanently lubricated sealed ball bearings and (TOP) thermal overload protected.

Heat recovery core

Two (2) heat exchangers engineered with a turbulence inducing geometry in order to maximize heat transfer while allowing an effective evacuation of condensate. The plates are hemmed and sealed to ensure no crosscontamination of airstreams. The aluminum core had a plastic handle for easy removal. Core dimensions are 11.4" x 11.4" (290x 290 mm) with a 11.4" (290 mm) depth.

Defrost

A preset frost control sequence is initiated if the outdoor temperature falls below the set point of 23°F (-5°C). During the initial stage, the supply blower shuts down & the exhaust blower switches into high speed to eliminate frost build-up in the core. The unit then returns to normal operation for the final stage of the frost control sequence at which time the sequence is repeated if the outdoor air temperatures is still below the set point.

Serviceability

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. Blowers can be accessed from both side of the HRV from fastened access panels. Blowers are easily removed by taking off the access panel and sliding the motor plates out of the HRV. A quick connect allows for fast inspection of blowers.

Case

22 gauge galvanized steel. Baked powder coated paint.

Insulation

Insulated with 1in. (25 mm) fiberglass with FSK facing for condensation control.

Filters

The exhaust and fresh air streams are protected by MERV1 washable filters constructed to meet UL 900. Optional MERV6 filters are direct replacement to the MERV1. Use of MERV6 filters will add an additional system pressure of 0.52 in. wg (130 Pa) at 450 CFM (212 L/s). Additional MERV Rated filters available upon request.

Controls

External three (3) position (Low/Stand By/High) rocker switch that will offer continuous ventilation. In addition Greentek offers a variety of external controls.

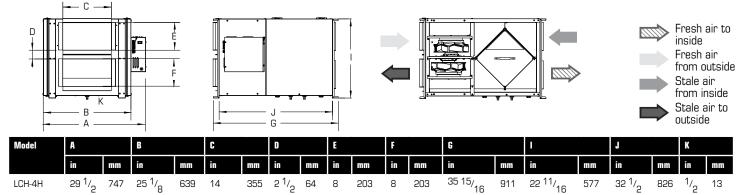
Mounting

Unit may be suspended by using threaded rod, not supplied, or placed on a platform. Unit shall be adaptable for easy service of electrical components.



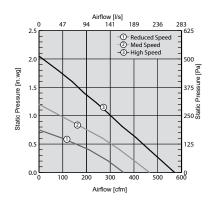
- 120/1 - 470 W
- 465 CFM (219 L/s)

Dimensions & airflow



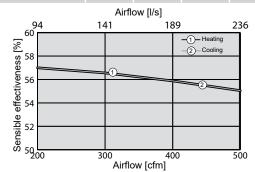
Ventilation Performance

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)							
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)	-	-	-	-	-

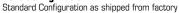


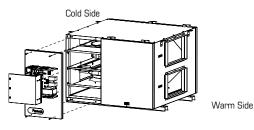
Energy performance

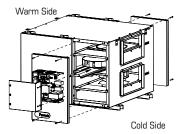
	Cumulu to	Supply temperature		Net airflow		Net Effectiveness	
	Supply te					Total	
-	°F	°C	CFM	L/s	%	%	
Heating	35	1.7	300	142	56	37	
	35	1.7	225	106	57	37	
Cooling	95	35	300	142	56	21	
	95	35	225	106	57	22	



Port configuration







Requirements and standards

- Complies with the UL 1812 requirements regulating the construction and installation of Heat Recovery Ventilators
- Complies with the CSA C22.2 no. 113 Standard applicable to ventilators
- AHRI certifies the published performance ratings of the COMPONENT used in this product in accordance with AHRI 1060. AHRI Certified Reference Number: 10514479, model number TE-HRC 305S. Note that only the COMPONENT is AHRI 1060 certified and not the product itself.

Contac	ts
--------	----

Distributed by:



Canada 50 Kanalflakt Way • Bouctouche, NB E4S 3M5 • 1.800.565.3548 • www.greentek.ca greentek, reserves the right to modify, at any time and without notice, any or all of its products' features, designs, compo-

nents and specifications to maintain their technological leadership position.