SHR 3005R

Heat Recovery Ventilator

Product #: 40214

The SHR 3005R's double core configuration provides the greater thermal efficiency needed for homes being built to a higher energy standard. The incoming air passes through a first, then a second heat exchanger to provide maximum heat recovery. During winter, fresh incoming air is tempered by the heat that is transferred from the outgoing air so you save on energy costs, while during summer, the incoming air is pre-cooled if the house is equipped with an air cooling system.

Features

- Compact design
- Fans with backward curved RadiCAL blade
- Electrostatic filters (washable)
- Two (2) aluminum heat recovery core
- External screw type dry contacts
- Improved core guide channels for easy removal of core
- Weighs 90 lbs (41 Kg)

Optional Controls

- ECO-Touch™ (#44929) – Programmable Touch Screen Wall Control
- EDF7 (#44883) – Electronic multi-function dehumidistat
- RTS3 (#40376) – 20/40/60 minute over-ride
- MDEH1 (#40172) – Dehumidistat

Specifications

- Duct size – 6" (152 mm)
- Voltage/Phase – 120/1
- Power rated – 336 W
- Amp – 2.8 A
- Average airflow @ 0.4" P_S (100Pa) – 253 cfm (119 L/s)

Fans

Two (2) factory-balanced fans with backward curved blades. Motors come with permanently lubricated, sealed ball-bearings to guarantee long life and maintenance-free operation.

Heat Recovery Core

Aluminum heat recovery core configured for efficient cross-flow ventilation. Core is 12" x 12" (305 x 305 mm) with a 15" (380 mm) depth. Cores are manufactured by Fantech to withstand extreme temperature variations.

Defrost

During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the house can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy. During this cycle, household odors from the kitchen or bathroom are prevented from entering the home and the unit will not create negative pressure.

Serviceability

Core, filters, fans and drain pan can be easily serviced through latched access door located on front of the cabinet. Core conveniently slides out with ease on an improved railing system. 17" (432 mm) of clearance is recommended for removal of core.

Case

24 gauge galvanized steel. Baked powder coated paint.

Insulation

Cabinet is fully insulated with 1" (25 mm) high density expanded polystyrene.

Filters

Two (2) washable electrostatic panel type air filters 11.75" (298 mm) x 15" (380 mm) x 0.125" (3mm).

Controls

External three (3) position (Low/Stand By/Medium) rocker switch that will offer continuous ventilation. Fantech offers a variety of external controls. (see controls)

Installation

Unit is typically hung by using installation kit supplied with unit. Mounting bolts provided on top four (4) corners of unit.

Warranty

Limited lifetime on aluminum core, 7 year on motors, and 5 year on parts.

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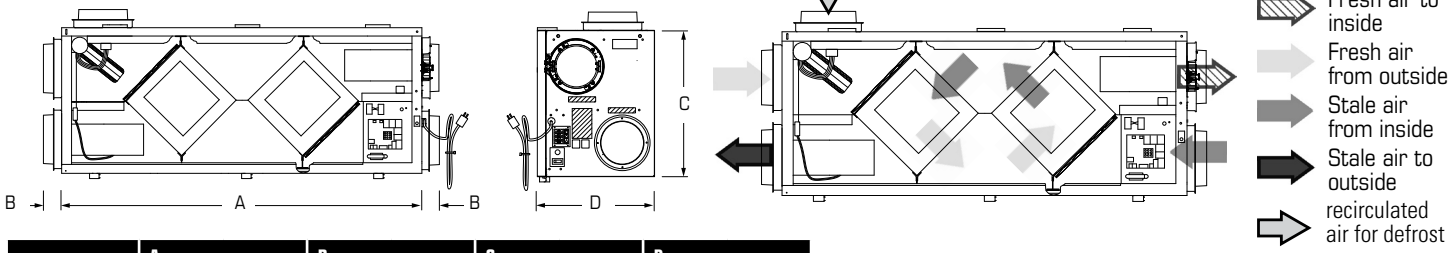
Dimensions & Airflow



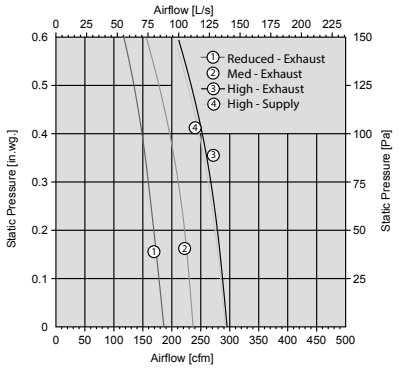
Model	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm
SHR3005R	50 7/8	1292	2 1/5	6	22 1/5	564	17 3/8	441

Clearance of 17" (432mm) in front of the unit is recommended for removal of core. All units feature three foot plug-in power cord with 3-prong plug.

Ventilation Performance

in. wg. (Pa)	0.2 (50)	0.4 (100)	0.6 (150)
	cfm (L/s)	cfm (L/s)	cfm (L/s)
Net supply airflow	262 (124)	231 (109)	204 (96)
Gross supply airflow	270 (127)	238 (112)	211 (100)
Gross exhaust airflow	279 (132)	247 (117)	215 (101)

These measurements are for HIGH speed only



Energy performance

	Supply temperature		Net airflow		Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	°C	cfm	L/s	W	%	%	-
Heating	32	0	64	30	126	76	91	0.02
	32	0	117	55	212	78	92	0.01
	32	0	157	74	262	78	91	-0.09
	-13	-25	121	57	224	72	91	0.09
	-13	-25	117	55	220	72	-	-
						Total Recovery Efficiency		
Cooling	95	35	115	54	206	18		
	95	35	159	74	260	17		

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
- Complies with the CSA F326 requirements regulating the installation of Heat Recovery Ventilators
- Technical data was obtained from published results of test relating to CSA C439 Standards
- HVI certified

Contacts

Submitted by: Date:
Quantity: Model: Project #:
Comments:
Location:
Architect:
Engineer: Contractor:

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