

ENGINEERING DATA

SS 3.12 FSD HRV SIDE PORT model

Heat Recovery Ventilator

30 CFM (14 L/s) to 120 CFM (57 L/s)

Item No. 101546 (SS 3.12 FSD (SP) Greentek)

Item No. 101553 (SS 3.12 FSD (SP) Imperial)



FEATURES

- 3 operating modes (Intermittent, Continuous & High)
- 100% variable speed
- ISF™ 6" (152.5 mm) dia. collar system
- Proportional defrost sequence
- SPM™ Single Person Mounting system
- Permanent lubrication of PSC motors
- Vertical connections (SP)

APPLICABLE REQUIREMENTS

- HVI Certified
- CSA C439 Standard - Packaged Heat/Energy Recovery Ventilators (HRV/ERV)
- CSA Standard CSA 22.2 N°113-10 - Fans and ventilators
- UL Standard 1812 2nd Ed. Ducted Heat/Energy Recovery Ventilators (HRV/ERV)

OPTIONAL ACCESSORIES

- MERV 8 Inline 6" (152.5 mm) filter box
- Matrix 2 in 1 high performance concentric ventilation hood
- R-2 Style high performance supply & exhaust ventilation hoods

CABINET

- 20 gauge galvanized pre-painted steel corrosion resistant
- Cabinet liner: Polyethylene Foam Rated UL94 HF-1

ELECTRONIC COMPONENTS

- Electrical Input Voltage: 120 VAC/60Hz / 1-Phase.
- Electrical Input Current: 1.5 Amps Max, circuit output voltage: 5VDC nominal
- Integrated auxiliary furnace interlock relay
- ROHS compliant

MOTORS

- Two permanent sealed, lubricated variable speed PSC Motors. (Maintenance free)
- Maximum RPM 2695 / Horsepower; 3/32 HP. Class F, thermally protected
- CSA 22.2 #113-10, clause 8.3.5
– Backup protection – totally enclosed motor

POLYPROPYLENE HRV CORE

- Dimensions 10" x 10 7/8" x 10" depth (254 mm x 275 mm x 254 mm)
- Corrugated Cross-flow polypropylene layers, rated UL94 HB & HF-1
- Cross-flow that transfers sensible heat
- Endure harsh temperatures; effective cold climates
- Water washable

DUOTROL™ BALANCING SYSTEM

- The system is balanced by adjusting each motor independently
- No balancing dampers required
- Connection terminals for optional wall controls
- Quiet and energy efficient

DEFROST

- Advanced proportional supply fan shut down defrost sequence
- Defrost type: Evacuation
Activated automatically at -5°C (23°F)

DUCT CONNECTIONS

- Insert Slide & Fix (ISF™), removable collars system
- Four (4) 6" (152.5 mm) dia. round double collar.

MOUNTING

- Adjustable mounting strap system

FILTERS

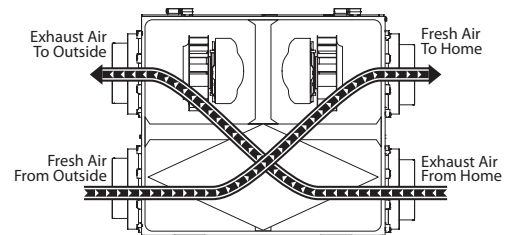
- Two (2) Fiberbond washable - 10" x 10 7/8" x 5/8" (254 mm x 275 mm x 15.9 mm)
- UL Class 2

WARRANTY

- 5 year limited warranty on motors
- 5 year limited warranty on parts
- Lifetime limited warranty on Heat Recovery Core

AIRFLOW

Top View



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ENGINEERING DATA SS 3.12 FSD (SP) HRV

SPECIFICATIONS

SS 3.12 FSD (SP) HRV

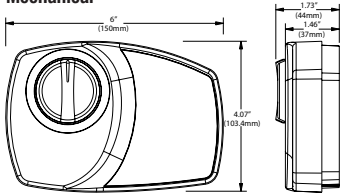
Dimensions	26 ¹ / ₃₂ " x 16 ¹ / ₃₂ " x 21" (675.6 mm x 421.6 mm x 533.4 mm)
Duct Connections	Four (4) 6" (152.5 mm) dia. ISF double collar system
Airflow Rates	30 CFM (14 L/s) to 120 CFM (57 L/s)
Motor	Two (2) PSC variable speed backward curved
Voltage	120 VAC @ 60 Hz / 1 Phase
Amperage	1.5 A / 142 watts
Type of heat exchanger	Cross-flow Polypropylene
Exchange surface	98 ft ² (9.1 m ²)
Defrost type	Evacuation
Filters	Two (2) Fiberbond washable
Drain Connection	½" (12.7 mm)
DuoTrol	Integrated Balancing System
Actual Weight	46 lbs (20.9 Kg)
Shipping Weight	55 lbs (25 Kg)
Certification	HVI, cQPSUS, CSA 22.2 N°113 Complies with UL 1812

OPTIONAL WALL CONTROLS

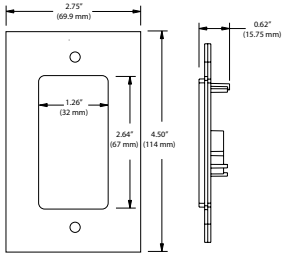
Mechanical	RD-1, RD-2, RD-3P and RD-3P
Timers	T3 (20, 40, 60 minutes)

WALL CONTROL DIMENSIONS

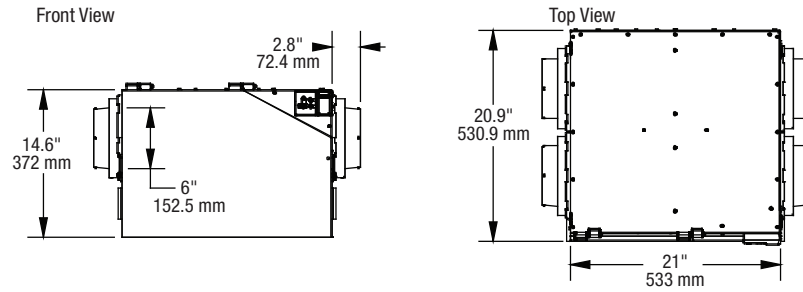
Mechanical



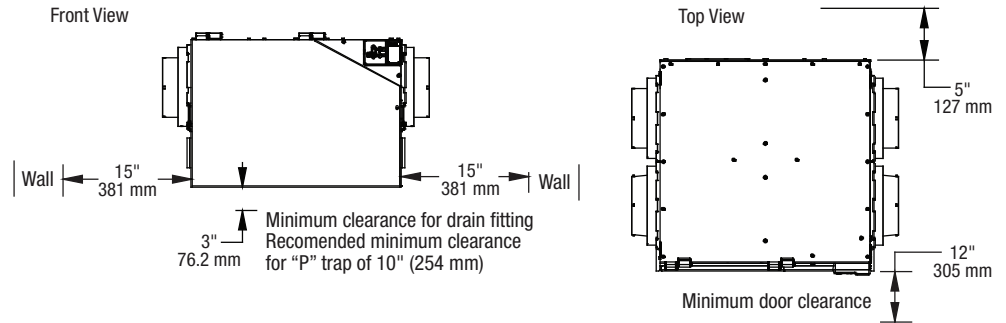
T3 Timer



DIMENSIONS DATA

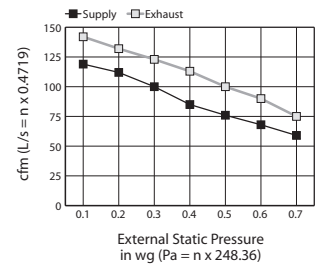


MINIMUM CLEARANCE DATA



VENTILATION PERFORMANCE

External Static Pressure	Net Supply Air Flow		Gross Air Flow Supply		Gross Air Flow Exhaust	
	Pa	in. wg	L/s	CFM	L/s	CFM
25	0.1		54	115	56	119
50	0.2		51	109	53	112
75	0.3		45	95	47	100
100	0.4		39	84	40	85
125	0.5		35	75	36	76
150	0.6		31	65	32	68
175	0.7		27	58	28	59



ENERGY PERFORMANCE

	Supply Temperature		Net Air Flow		Power Consumed	Sensible Recovery	Apparent Sensible
	°C	°F	L/s	CFM	Watts	Efficiency	Effectiveness
HEATING	0	32	30	64	82	61	74
	0	32	44	94	108	57	68
	0	32	54	116	124	52	62

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