

ENGINEERING DATA



Model FC200HRV

Heat Recovery Ventilator

70 CFM (33 L/s) to 220 CFM (104 L/s)

Part No. 60510006200



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

APPLICABLE REQUIREMENTS

- HVI Certified
- CSA C439 Standard - Packaged Heat/Energy Recovery Ventilators (HRV/ERV)
- CSA Standard CSA 22.2 N^o.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
- R-2 Style high performance supply & exhaust ventilation hoods

CABINET

- 20 gauge galvanized pre-painted steel corrosion resistant
- Cabinet liner: Molded Expanded Polystyrene (EPS)
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 12" x 12" x 15" depth (304.8 mm x 304.8 mm x 381 mm)
- Corrugated cross-flow polypropylene layers, rated UL94 HB & HF-1
- Cross-flow that transfers sensible heat
- Endure harsh temperatures; effective in 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

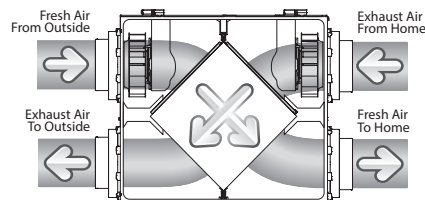
FILTERS

- Two (2) Fiberbond washable - 11¹/₈" x 14³/₄" x 5/8" (297 mm x 375 mm x 15.9 mm)
- UL Class 2

WARRANTY

- 5 year limited warranty
- Visit fieldcontrols.com/warranty for complete warranty statement

AIRFLOW



Field Controls

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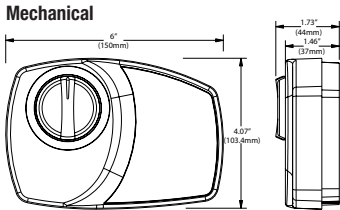
SPECIFICATIONS FC200HRV

Dimensions	29½" x 22½" x 16½" (749.3 mm x 571.5 mm x 419.1 mm)
Duct Connections	Four (4) 6" (152.5 mm) dia. ISF double collar system
Airflow Rates	70 CFM (33 L/s) to 220 CFM (104 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	150 ft ² (13.9 m ²)
Defrost type	Evacuation
Filters	Two (2) Fiberbond washable
Drain Connection	½" (12.7 mm)
DuoTrol	Integrated Balancing System
Actual Weight	51 lbs (23.1 Kg)
Shipping Weight	58.5 lbs (26.5 Kg)
Certification	HVI, cCSAUs, CSA 22.2 N ^o .113 Complies with UL 1812

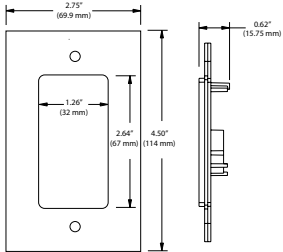
OPTIONAL WALL CONTROLS

Mechanical	RD1 Part # 60510010030 RD4P Part # 60510010031
Timers	T3 Part # 60510010050 (20, 40, 60 minutes)

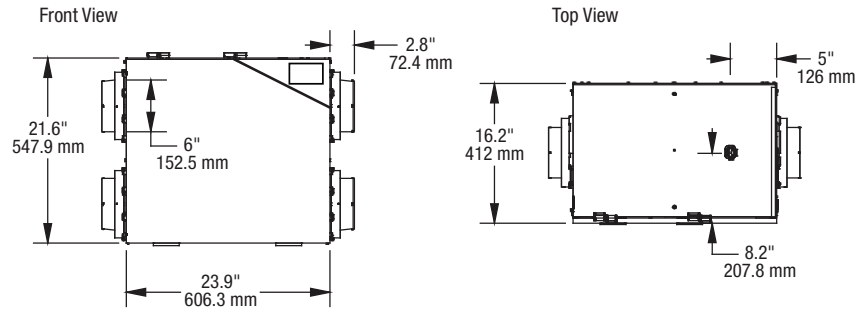
WALL CONTROL DIMENSIONS



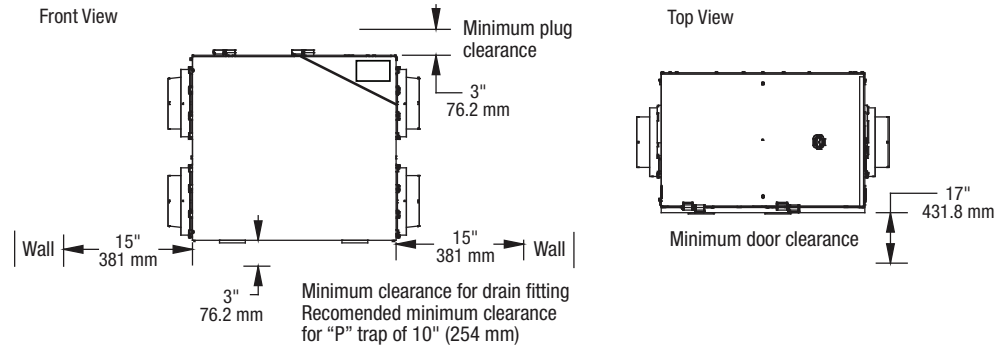
T3 Timer



DIMENSIONS DATA

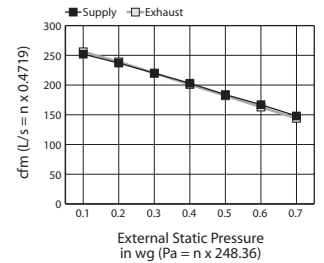


MINIMUM CLEARANCE DATA



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	117	248	118	250	130	277
50	0.2	108	229	109	231	119	253
75	0.3	102	218	103	220	110	234
100	0.4	94	200	95	202	101	216
125	0.5	85	181	86	183	92	197
150	0.6	77	163	78	165	82	175
175	0.7	69	146	70	148	71	151



ENERGY PERFORMANCE

	Supply Temperature		Net Air Flow		Power Consumed	Sensible Recovery	Apparent Sensible
	°C	°F	L/s	CFM	Watts	Efficiency	Effectiveness
HEATING	0	32	55	118	106	61	71
	0	32	75	160	132	58	65
	0	32	87	185	150	55	62
	-25	-13	57	120	105	58	72

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