ENGINEERING DATA

FIELD CONTROLS
Improving Indoor Environments

Model FC150HRV

Heat Recovery Ventilator
30 CFM (14 L/s) to 160 CFM (76 L/s)

Part No. 60510006150

Healthy Home System™
by FIELD CONTROLS

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 lubrification of PSC motors

APPLICABLE REQUIREMENTS
- HVI Certified
- CSA C439 Standard - Packaged Heat/Energy Recovery Ventilators (HRV/ERV)
- CSA Standard CSA 22.2 N^{0}.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 10" depth (304.8 mm x 304.8 mm x 254 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)

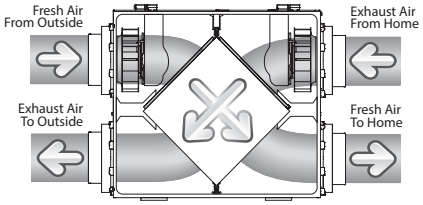
DUCT CONNECTIONS
- Insert Slide & Fix (ISF™), removable collars system
- Four (4) 6" (152.5 mm) dia. round double collar.

MOUNTING
- Adjustable mounting strap system

FILTERS
- Two (2) Fiberbond washable - 11 11/16"x 9 3/4"x 5/8" (297 mm x 248 mm x 15.9 mm)
- UL Class 2

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

AIRFLOW



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HRAI C SP US HVI MEMBER

ENGINEERING DATA FC150HRV

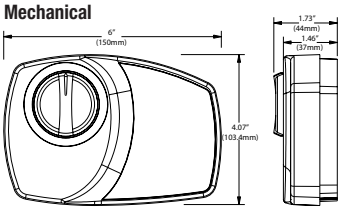
SPECIFICATIONS	FC150HRV
Dimensions	29½" x 22½" x 11⅜" (749.3 mm x 571.5 mm x 289 mm)
Duct Connections	Four (4) 6" (152.5 mm) dia. ISF double collar system
Airflow Rates	30 CFM (14 L/s) to 160 CFM (76 L/s)
Motor	Two (2) PSC variable speed backward curved
Voltage	120 VAC @ 60 Hz / 1 Phase
Amperage	1.5 A / 142 watts
Type of heat exchanger	Cross-flow polypropylene
Exchange surface	85 ft² (7.9 m²)
Defrost type	Evacuation
Filters	Two (2) Fiberbond washable
Drain Connection	½" (12.7 mm)
DuoTrol	Integrated Balancing System
Actual Weight	43 lbs (19.5 Kg)
Shipping Weight	48.5 lbs (22 Kg)
Certification	HVI, CSA$_{US}$, CSA 22.2 N^{0}.113 Complies with UL 1812

OPTIONAL WALL CONTROLS

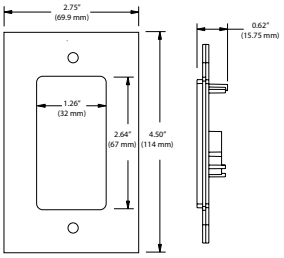
Mechanical	RD1 Part # 60510010030 RD4P Part # 60510010031
Timers	T3 Part # 60510010050 (20, 40, 60 minutes)

WALL CONTROL DIMENSIONS

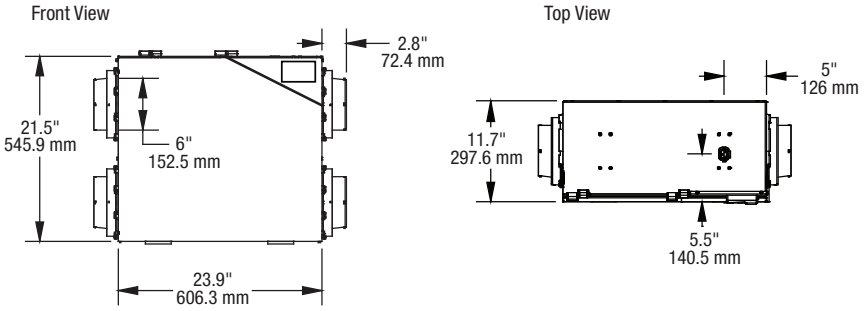
Mechanical



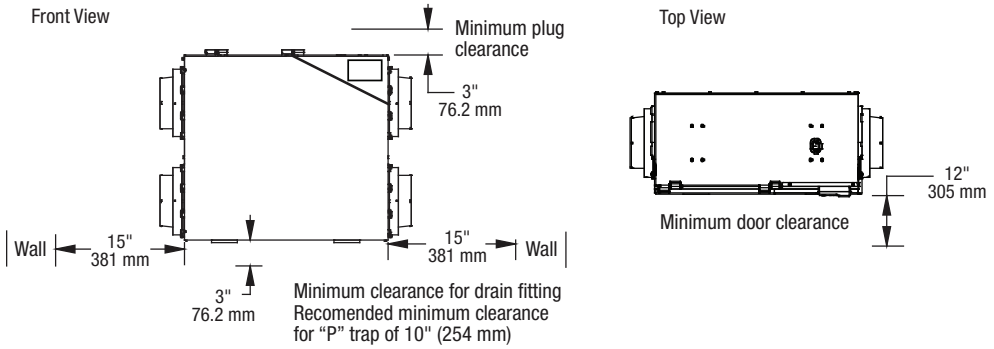
T3 Timer



DIMENSIONS DATA

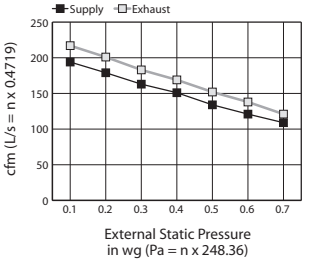


MINIMUM CLEARANCE DATA



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	L/s	CFM
25	0.1	91	193	91	194	103	217
50	0.2	84	178	85	179	95	201
75	0.3	77	163	77	163	86	183
100	0.4	71	150	71	151	80	169
125	0.5	63	133	63	134	71	152
150	0.6	57	120	57	121	66	138
175	0.7	51	109	51	109	57	121



ENERGY PERFORMANCE

	Supply Temperature		Net Air Flow		Power Consumed	Sensible Recovery	Apparent Sensible
	°C	°F	L/s	CFM	Watts	Efficiency	Effectiveness
HEATING	0	32	31	65	72	66	75
	0	32	39	83	80	63	72
	0	32	50	107	94	60	67
	-25	-13	36	76	72	56	73

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