

ENERGY RECOVERY VENTILATOR ODFM-ERV120/150

Switches to adjust the installation type between standard/mirror and 120/150 CFM options

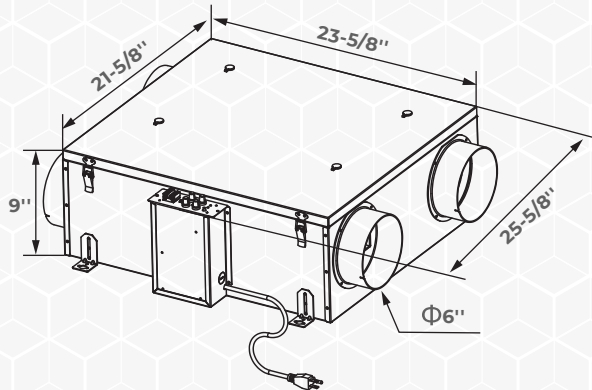


CERTIFICATIONS



DIMENSIONS

(All measurements are in inches)



HIGHLIGHTS

ODFM: Ortech Dual-Flow & Mirror-able ERV. Dual-flow: 120 & 150 CFM. Simple dip switches to alternate between flow & mirror settings. Tested to -25°C.

- **Dual EC Motors:** Equipped with two removable, enclosed, permanently lubricated EC motors for reliable, long-term performance.
- **Constant Airflow Operation:** Maintains steady ventilation with multi-speed airflow ranging from 30 to 150 CFM.
- **6" Duct Connections:** Standardized duct sizing ensures simple connection to existing ventilation layouts.
- **Flexible Power Options:** Includes a 6 ft power cord with an optional hard-wired installation method.
- **High-Efficiency Crossflow Core:** Designed for effective energy transfer and balanced air exchange.
- **Airflow Balancing Ports:** Features four built-in pressure ports for precise airflow measurement and setup.
- **Easy Installation:** Comes with four mounting brackets for fast ceiling or wall mounting.
- **High Performance:** Achieves 77% SRE at 32°F (0°C) and 47% SRE at -13°F (-25°C) for dependable cold-weather efficiency.
- **Exhaust Defrost:** Protects the core and maintains airflow during freezing conditions.
- **Advanced Filtration:** Includes two MERV 8 filters with optional MERV 13 and MERV 16 upgrades.
- **HVAC Interlock:** 24V AC connection enables synchronized operation with FCUs, AHUs, Furnaces, etc.
- **Environmental Sensors:** Integrated temperature and humidity sensors limit operation during unfavorable weather conditions.
- **FID Diagnostics:** Fault Indicator Display (FID) LED alerts for filter replacement and system troubleshooting.
- **Timer Compatibility:** Works with a Wall Timer Switch (WTS) to boost ERV to high speed.
- **Certified Performance:** Compliant with CSA Standard C439-18 for trusted energy recovery performance.

SPECIFICATIONS

ODFM-ERV120/150

Efficiency (SRE)	77% @ 38CFM
Airflow	143CFM @ 0.2"wg
Voltage	120V / 1 Ph / 60Hz
Fans	EC motor
Duct Size	6"
Housing Dimension	23-5/8" x 21-5/8" x 9"
Weight	42 lbs

5 YEAR WARRANTY

INFUSE NATURE INTO YOUR SPACE

ORTECH reserves the right to modify at any time, without notice, any or all of our product's features, designs, components and specifications to meet market changes.

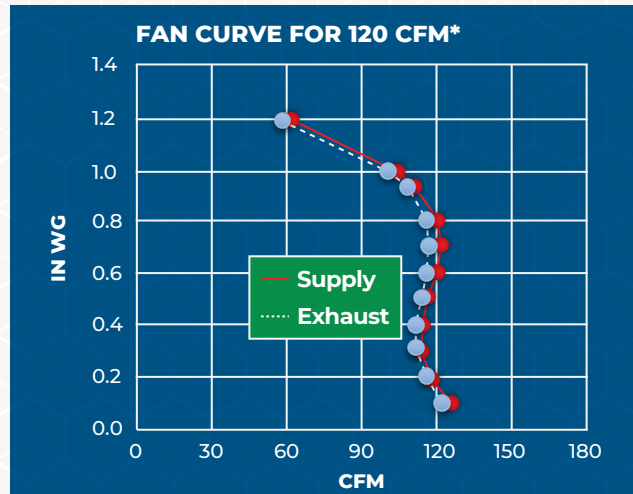


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AIRFLOW

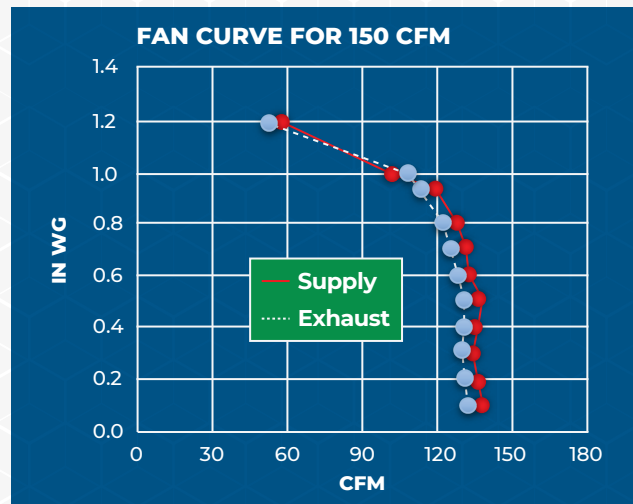
IN WG	SUPPLY CFM*	EXHAUST CFM*
0.10	125.4	122.7
0.20	118.1	114.8
0.30	115.4	111.4
0.40	115.7	111.3
0.50	117.8	113.0
0.60	120.2	115.2
0.70	121.4	116.5
0.80	120.1	115.4
0.90	114.9	110.5
1.00	104.2	100.6
1.20	61.2	59.9

*Tested by verified third-party laboratory. Data not certified by HVI.



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IN WG	SUPPLY CFM	EXHAUST CFM
0.10	146.1	143.1
0.20	143.0	141.0
0.30	142.2	140.5
0.40	142.5	140.7
0.50	142.9	140.6
0.60	142.3	139.4
0.70	139.8	136.0
0.80	134.2	129.7
0.90	124.4	119.4
1.00	109.5	104.3
1.20	59.8	55.8



ENERGY PERFORMANCE

HEATING	SUPPLY TEMP.		NET AIRFLOW (CFM)	AVERAGE POWER	SENSIBLE RECOVERY EFFICIENCY (SRE)	ADJUSTED SENSIBLE RECOVERY EFFICIENCY (ASRE)	APPARENT SENSIBLE EFFECTIVENESS (ASE)	NET MOISTURE TRANSFER
i	0°C	32°F	38	15W	77	80	85	0.75
ii	0°C	32°F	65	25W	73	76	78	0.69
iii	0°C	32°F	131	82W	64	68	69	0.60
iv	0°C	32°F	146	104W	62	66	68	0.68
v	-25°C	-13°F	66	30W	47	48	76	0.42

COOLING	SUPPLY TEMP.		NET AIRFLOW (CFM)	AVERAGE POWER	SENSIBLE RECOVERY EFFICIENCY (SRE)	ADJUSTED SENSIBLE RECOVERY EFFICIENCY (ASRE)	APPARENT SENSIBLE EFFECTIVENESS (ASE)	NET MOISTURE TRANSFER
i	35°C	95°F	38	15W	66	72	79	0.87
ii	35°C	95°F	64	26W	63	68	73	0.74
iii	35°C	95°F	131	86W	50	58	62	0.62

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ACCESSORIES (SOLD SEPARATELY)



OD-ERV-TIMER-23
(Timer)



ERV-SC-1
(Screen Controller)



FAP
(Flush Access Panel)



MAP
(Mud Access Panel)



PAV-B
(Polymeric Air Valve)



SAV
(Supply Air Valve)



REFERENCE	QUANTITY	REMARKS	PROJECT DETAILS
			Project:
			Location:
			Architect:
			Engineer:
			Contractor:
			Submitted By:
			Date:

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