

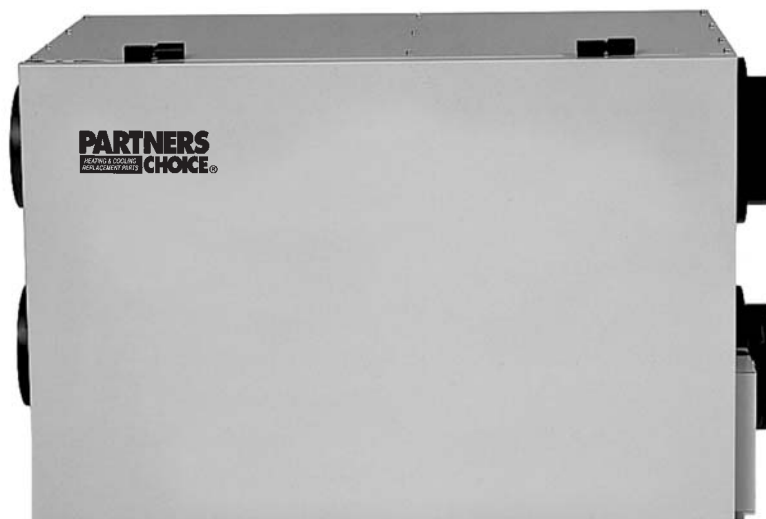
---

## TECHNICAL SPECIFICATIONS

---

### Energy Recovery Ventilator (ERV)

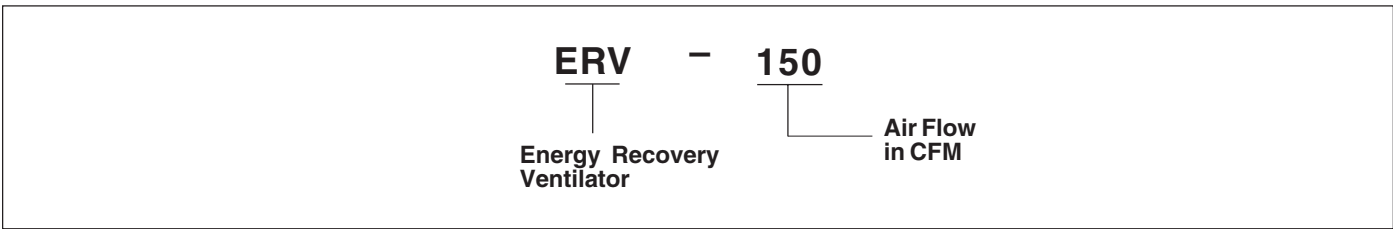
The NORDYNE Energy Recovery Ventilator is an air-to-air heat exchanger designed to exhaust stale air and supply fresh air to the conditioned space. It recovers both latent and sensible heat from the exhaust air and transfers this heat to the supply air. The ERV is especially suited for dry homes using humidifiers during the heating season and for dry homes using air conditioning during the cooling season. It is available in 150 CFM and 210 CFM sizes. The NORDYNE ERV is recognized for unsurpassed quality and superior craftsmanship. It is guaranteed to satisfy the homeowner looking for durability, reliability, and performance.



#### STANDARD FEATURES

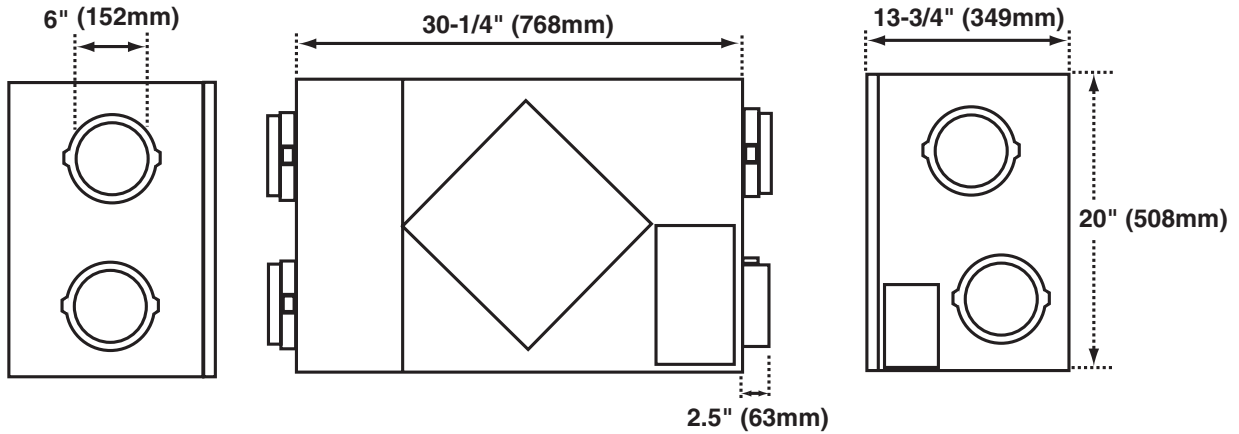
- Exclusive convertible core from an ERV to an HRV.
- Integrated Balancing Dampers.
- All parts removable in 5 minutes.
- Defrost failure protection system designed to protect against damper malfunction
- Reinforced 20 Ga. pre-painted cabinet.
- Improved sliding system for core insertion
- Deeper one piece condensation tray to prevent water leakage.
- Aluminum framed foam filter.
- 1 inch fiberglass insulation.
- External electrical access on side panel.
- Aluminum foil and enthalpic media core.
- UL/CUL listed.
- HVI Certified.
- Standard 5 year limited parts only warranty.
- System Warranty if sold with a matched NORDYNE system.

# MODEL IDENTIFICATION CODE

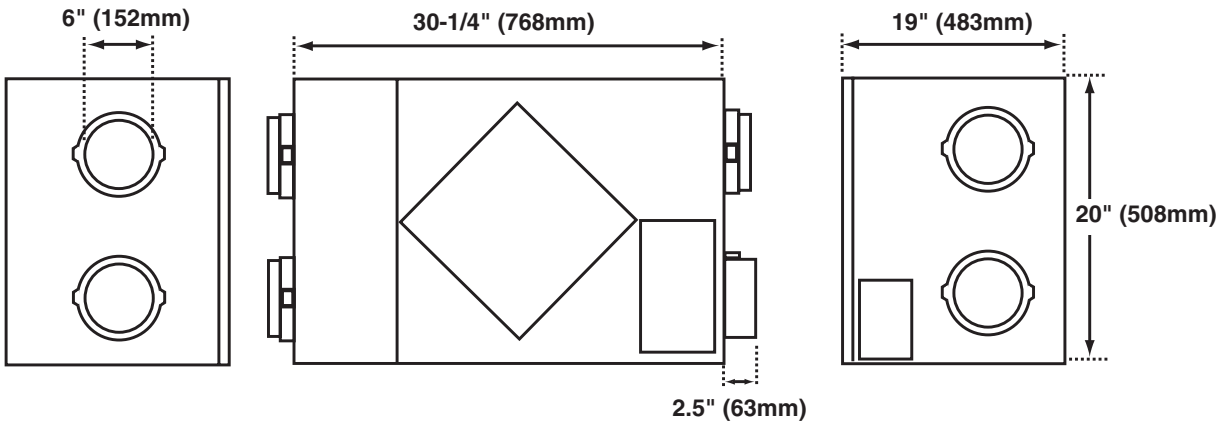


## DIMENSIONS

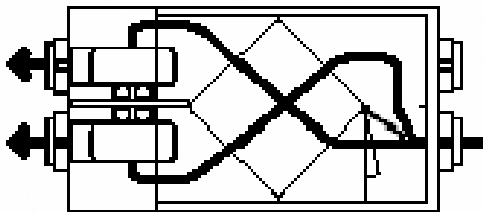
### ERV-150



### ERV-210



## Defrost



Outside Temperature		Defrost Cycle Defrosting Min/ Operating Min.
°C	(°F)	
Warmer than -5°C	Warmer than 22°F	No defrost
-5 to -15	23 to 5	6/32
-15 & colder	5 & colder	See NOTE

NOTE: The enthalpic core requires extra protection when the outside temperature drops below -15°C (5°F). Therefore, under these conditions, the unit will run 20 minutes at low speed, followed by 6 minutes in defrost and 34 minutes at "off" for every hour, until the exterior temperature becomes warmer.

## SPECIFICATIONS AND RATINGS

Specifications and Ratings	ERV-150	ERV-210
Assembled Weight with Core:	65 lbs	73 lbs
Supply Air Duct Connection:	6" diameter	6" diameter
Exhaust Air Duct Connection:	6" diameter	6" diameter
Drains:	N/A	N/A
Filter (size):	30 ppi washable reticulated foam 11.75"x12.87"x0.75"	30 ppi washable reticulated foam 11.75"x16.75"x0.75"
Cabinet:	20 Ga. Pre-painted steel	20 Ga. Pre-painted steel
Insulation:	1.00" aluminum foiled faced fiberglass and EPS (Expended Polystyren)	1.00" aluminum foiled faced fiberglass and EPS (Expended Polystyren)
Mounting:	Chain and hardware provided to suspend unit	Chain and hardware provided to suspend unit
Supply and Exhaust Blower Motors:	120V/60Hz/1Ph 1/12 HP RPM: 1660/1300/1050 sleeved bearings PSC Type	120V/60Hz/1Ph 1/7 HP RPM: 1660/1300/1050 sleeved bearings PSC Type
Recovery Core Surface Area:	116 sqft	156 sqft
Recovery Core Material:	Aluminum foil and enthalpic transfer media (paper)	Aluminum foil and enthalpic transfer media (paper)

## ELECTRICAL DATA

Models	Voltage/Hertz/Phase	Maximum Fuse Size (Amp) Branch Circuit	Control Circuit Voltage	NORDYNE Part Number
ERV-150	120/60/1	15A	5V DC	918717
ERV-210	120/60/1	15A	5V DC	918718

## ACCESSORY KITS

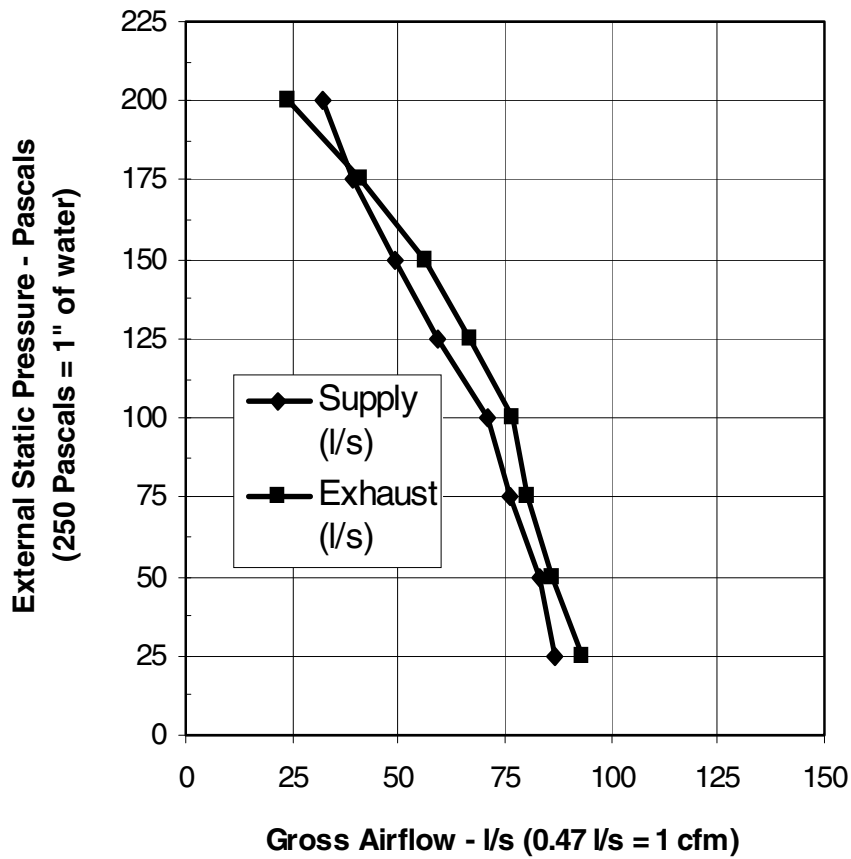
Description	NORDYNE Part Number
Basic Wall Control HRV/ERV	918719
Electronic Wall Control HRV/ERV	918720
Push Button 20/40/60 HRV/ERV	918721
Air Intake 6D X 9 X 9 With Duct	918722
Balancing Kit 0.5" H20	918723

# PERFORMANCE ERV-150

## VENTILATION PERFORMANCE ERV-150

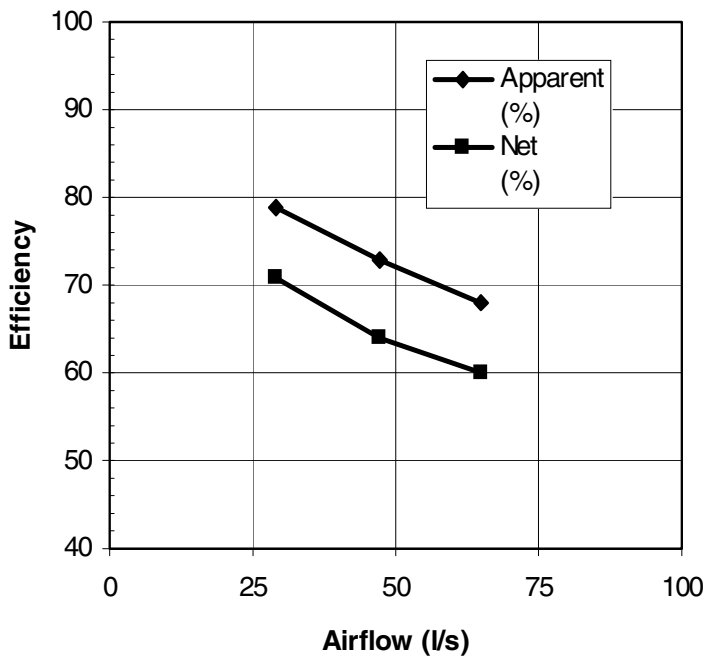
External Static Pressure		Net Supply Airflow		Gross Air Flow			
				Supply		Exhaust	
Pa	in. w.g.	l/s	cfm	l/s	cfm	l/s	cfm
25	0.1	81	173	87	184	93	197
50	0.2	78	165	83	175	86	182
75	0.3	72	152	76	162	80	169
100	0.4	67	142	71	151	77	163
125	0.5	55	117	59	124	67	143
150	0.6	46	98	49	104	56	118
175	0.7	36	77	39	82	41	87
200	0.8	30	63	32	67	24	51

Note: Unit operating at maximum speed.



# ENERGY PERFORMANCE ERV-150

	Supply Temperature		Net Airflow		Average Power	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Latent Recovery Moisture Transfer
	°C	°F	l/s	cfm	Watts	%	%	
Heating	0	32	29	60	56	71	79	0.52
	0	32	47	100	80	64	73	0.41
	0	32	65	137	126	60	68	0.36
	-15	5	31	65	64	56	81	0.41
						Total Recovery Efficiency		
Cooling	35	95	28	59	52		45	

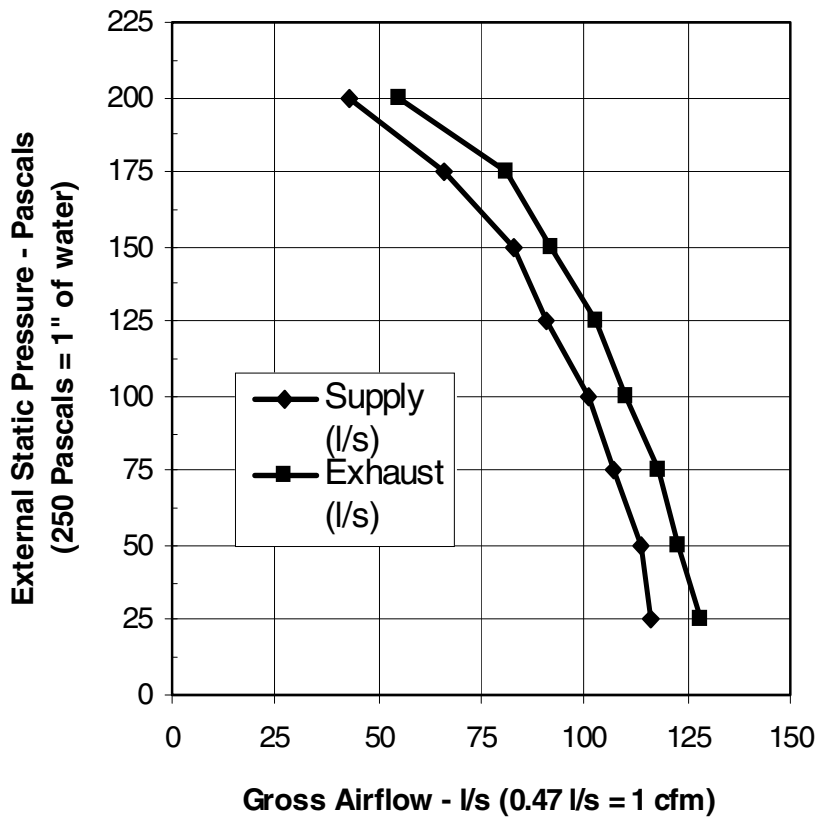


# PERFORMANCE ERV-210

## VENTILATION PERFORMANCE ERV-210

External Static Pressure		Net Supply Airflow		Gross Airflow			
				Supply		Exhaust	
Pa	in. w.g.	l/s	cfm	l/s	cfm	l/s	cfm
25	0.1	109	231	116	245	128	271
50	0.2	107	228	114	241	123	260
75	0.3	101	214	107	227	118	249
100	0.4	95	201	101	213	110	233
125	0.5	86	182	91	193	103	217
150	0.6	79	167	83	177	92	195
175	0.7	62	132	66	140	81	172
200	0.8	40	85	43	90	55	116

Note: Unit operating at maximum speed.



# ENERGY PERFORMANCE ERV-210

	Supply Temperature		Net Airflow		Average Power	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Latent Recovery Moisture Transfer
	°C	°F	l/s	cfm	Watts	%	%	
Heating	0	32	29	60	56	71	79	0.52
	0	32	47	100	80	64	73	0.41
	0	32	65	137	126	60	68	0.36
	-15	5	31	65	64	56	81	0.41
						Total Recovery Efficiency		
Cooling	35	95	28	59	52		45	

