

HRVs & ERVs

OBC QUALIFIED UNITS

Model	Description H x W x D (in.)	Airflow CFM (L/s)			Sensible Recovery Efficiency (SRE) @ 0°C	Sensible Recovery Efficiency (SRE) @ -25°C	Zone	Compliance	Number of Bedrooms	Energy Star
		.2 (50 PA)	.3 (75 PA)	.4 (100 PA)						
MAX SERIES										
95 MAX	Recirculating Defrost 25 x 18.5 x 16	66 (31)	64 (30)	59 (28)	75% (@ 28 L/s)	68% (@ 29 L/s)	1 2	A1, A2, A4, A5, A6 A2, A3, A4, A5, A6	2 2	
155 MAX	Recirculating Defrost 18.75 x 33.6 x 14.75	163 (77)	146 (69)	132 (62)	75% (@ 30 L/s)	71% (@ 30 L/s)	1 2	A1, A2, A4, A5, A6 A2, A3, A4, A5, A6	3+ 3+	
205 MAX	Recirculating Defrost 18.75 x 33.6 x 15	193 (91)	182 (86)	172 (81)	76% (@ 30 L/s)	70% (@ 48 L/s)	1 2	A1, A2, A4, A5, A6 A2, A3, A4, A5, A6	3+	
267 MAX	Recirculating Defrost 18.75 x 33.6 x 15	273 (129)	267 (126)	261 (123)	75% (@ 30 L/s)	70% (@ 34 L/s)	1 2	A1, A2, A4, A5, A6 A2, A3, A4, A5, A6	3+ 3+	
195 DCS	Damper Defrost 18.75 x 49 x 14.75	195 (92)	181 (85)	158 (74)	82% (@ 35 L/s)	72% (@ 53 L/s)	1 2	A1, A2, A3, A4, A5, A6 A1, A2, A3, A4, A5, A6	3+ 3+	
RNC SERIES										
RNC 95	Recirculating Defrost 25 x 18.5 x 16	66 (31)	64 (30)	59 (28)	75% (@ 28 L/s)	68% (@ 29 L/s)	1 2	A1, A2, A4, A5, A6 A2, A3, A4, A5, A6	2 2	
RNC5- HEX- TPD	Recirculating Defrost 18.75 x 29.25 x 15	103 (49)	96 (45)	88 (42)	75% (@ 30 L/s)	69% (@ 32 L/s)	1 2	A1, A2, A4, A5, A6 A2, A3, A4, A5, A6	3+ 3+	
RNC5- HEX- TPF	Fan Defrost 18.75 x 29.25 x 15	102 (48)	98 (46)	91 (43)	76% (@ 30 L/s)	66% (@ 32 L/s)	1 2	A1, A2, A4, A5, A6 A2, A3, A4, A5, A6	3+ 3+	
RNC 155	Recirculating Defrost 18.75 x 33.6 x 14.75	163 (77)	146 (69)	132 (62)	75% (@ 30 L/s)	71% (@ 30 L/s)	1 2	A1, A2, A4, A5, A6 A2, A3, A4, A5, A6	3+ 3+	
RNC 205	Recirculating Defrost 18.75 x 33.6 x 15	193 (91)	182 (86)	172 (81)	76% (@ 30 L/s)	70% (@ 48 L/s)	1 2	A1, A2, A4, A5, A6 A2, A3, A4, A5, A6	3+	
ERV SERIES										
130 ERV D	Recirculating Defrost 17.25 x 22.75 x 14	155 (73)	147 (69)	137 (65)	75% (@ 30 L/s)	60% (@ 31 L/s)	1 2	A1, A2, A4, A5, A6 A2, A3, A4, A5, A6	3+ 3+	
170 ERV D	Recirculating Defrost 18.75 x 33.6 x 15	184 (87)	172 (81)	161 (76)	75% (@ 31 L/s)	58% (@ 32 L/s)	1 2	A1, A2, A4, A5, A6 A2, A3, A4, A5, A6	3+ 3+	

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This product earned the ENERGY STAR by meeting set by Natural Resources Canada and the US EPA. This meets ENERGY STAR requirements only when used in Canada.



UNDERSTANDING THE DIFFERENCES

Heat recovery ventilators (HRV) are designed to keep heat in while moving stale air out. They feature a heat-exchange core that transfers heat from the outgoing stream of stale air to the incoming stream of fresh air. Heat recovery ventilators are ideal for:

- Reducing demand on HVAC systems and associated natural gas consumption and costs
- Improving ventilation which significantly enhances indoor air quality while reducing buildup of moisture, mildew, fungi and bacteria

Energy Recovery Ventilators (ERV) possess the same heat transfer capabilities as HRVs however they also take advantage of the humidity levels in the airflow. In addition to heating and cooling air, HVAC systems force water out of the air in the humid summer and into the air in the dry winter.

ERVs are able to capture not only the energy savings of the heat exchange but also the energy associated with humidity levels in the air.

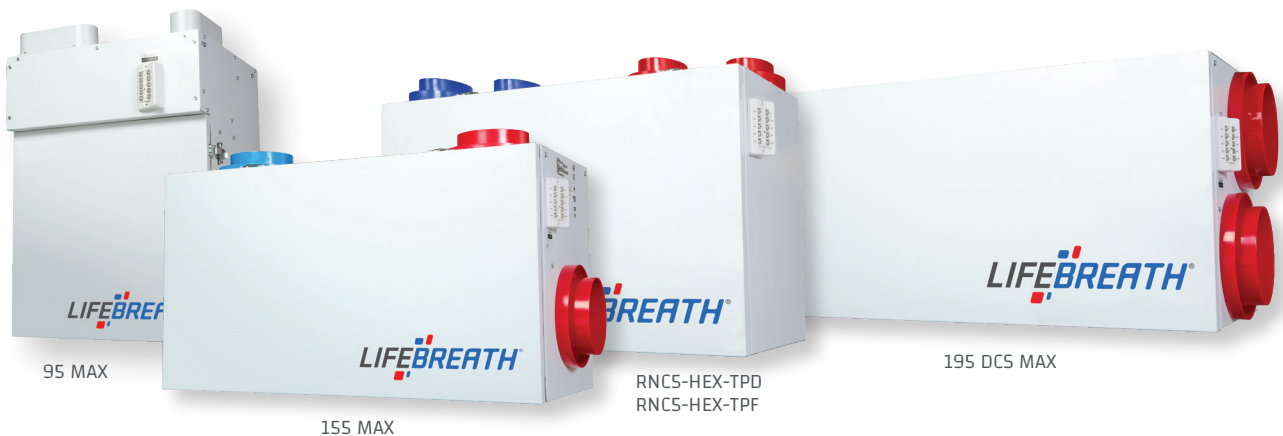
ONTARIO BUILDING CODE (OBC)

The new OBC for mechanical ventilation (section 9.32.3) requires the installation of and HRV or ERV in Ontario. The mandatory installation of one of these units must meet specific requirements. This reference guide can help you make the right choice for specific projects depending on zone, size, performance and efficiencies.

Principal Ventilation Rate based on 15 L/s master bedroom, plus 7.5 L/s each additional bedroom. Efficiency required is between 70% and 81% SRE @ 0°C, and 55% SRE @ -25°C.

Required SRE is at the Principal Ventilation Capacity (PVC). If the PVC is over 30 L/s, the SRE requirement needs to only meet at 30 L/s.

TOTAL VENTILATION CAPACITY (TVC)	
F326 TVC	Minimum Ventilation Capacity CFM (L/s)
Master bedroom	20 (10)
Basement	20 (10)
Single bedroom	10 (5)
Living room	10 (5)
Dining room	10 (5)
Family room	10 (5)
Recreation room	10 (5)
Other habitable rooms	10 (5)
Kitchen	10 (5)
Bathroom	10 (5)
Laundry room	10 (5)
Utility room	10 (5)



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