

New Building Code Solutions



The requirement for continuous mechanical ventilation came into the Canadian building code between 1990 and 1995. Then, it was possible to satisfy requirements with a simple exhaust-only system. Now, building codes have specific energy efficiency requirements. In Ontario, **Supplementary Standard SB-12** and the new Part 12 will set new energy efficiency requirements in 2017.

These changes to the 2017 Ontario Building Code (OBC) are an opportunity to fine tune your HRV and ERV selections, and Venmar® has the solutions to help you meet the new requirements.



UNDERSTANDING THE CODE CHANGE

The new code change offers clarifications and emphasis on “Performance Path” and “Other Acceptable Compliance Methods.” The new 2017 Ontario SB-12 Supplementary Standard for Energy Efficiency requires all Part 9 dwellings to be designed using one of the prescriptive packages.

For Prescriptive Packages A1-A6 for homes in southern Ontario, look for HRVs or ERVs with an SRE between 65% - 85% (a 75% rating would be a good choice).

Example for Compliance Package A1

Number of Bedrooms	Compliance Package	Minimum SRE Requirements	
		0°C	-25°C
1	A1	75% at 15 L/s (31.8 cfm)	55% at 30 L/s (63.6 cfm)
2	A1	75% at 22.5 L/s (47.7 cfm)	55% at 30 L/s (63.6 cfm)
3 or more	A1	75% at 30 L/s (63.6 cfm)	55% at 30 L/s (63.6 cfm)

All HRVs and ERVs installed in Canada must be listed by the Home Ventilating Institute (HVI). Make sure your HVAC contractor knows and complies with code.

Note that in previous codes, an HRV or ERV efficiency could be selected at any airflow. Now, the minimum Sensible Recovery Efficiency (SRE) required is based on a test temperature of zero degrees Celsius at an airflow equal to the principle exhaust flow but need not exceed 30 L/s.

LET'S MAKE IT SIMPLE



Venmar® offers a host of choices for Prescriptive Packages A1-A6 for homes in southern Ontario. All of these models are listed by the Home Ventilation Institute (HVI) and each complies to the code(s) indicated below.

A1, A2, A4 PACKAGE 75% SRE@0°C, airflow 30 L/s			
E10 HRV	E15 HRV	X30HRV ECM	X30ERV ECM
X24ERV ECM	X24HRV ECM		

A3 PACKAGE 81% SRE@0°C, airflow 30 L/s			
X24ERV ECM	X24HRV ECM		

A5 PACKAGE 70% SRE@0°C, airflow 30 L/s			
E10 HRV	E15 HRV	E15 ECM HRV	X30ERV ECM
X24ERV ECM	X24HRV ECM	X30HRV ECM	

A6 PACKAGE 65% SRE@0°C, airflow 30 L/s			
Constructo 1.5 ES HRV	Constructo 2.0 ES HRV	Constructo 1.0 ERV	C12 ERV
S10 ERV Plus	E10 HRV	E15 HRV	E15 ECM HRV
E15 ECM ERV	X24HRV ECM	X24ERV ECM	X30HRV ECM
X30ERV ECM			

There are many more equipment options available for builders who use the “Performance or Other Acceptable Compliance Methods” such as ENERGY STAR® for New Homes or R2000. **Contact your Venmar representative for details.**



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