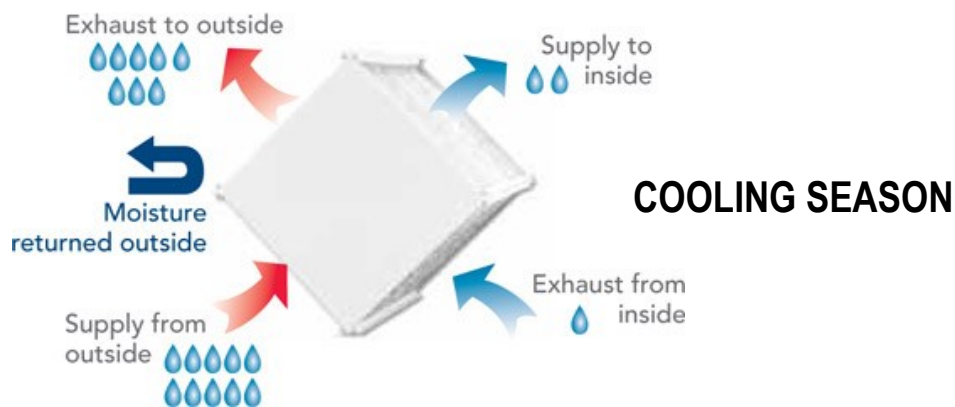
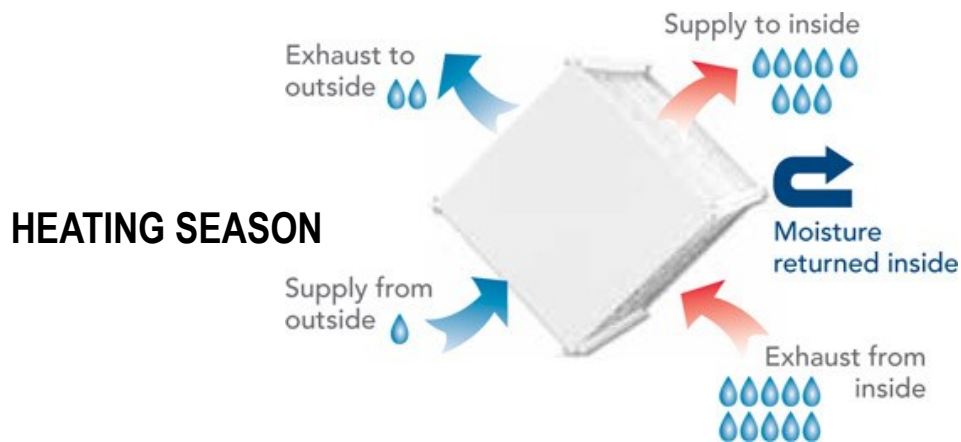
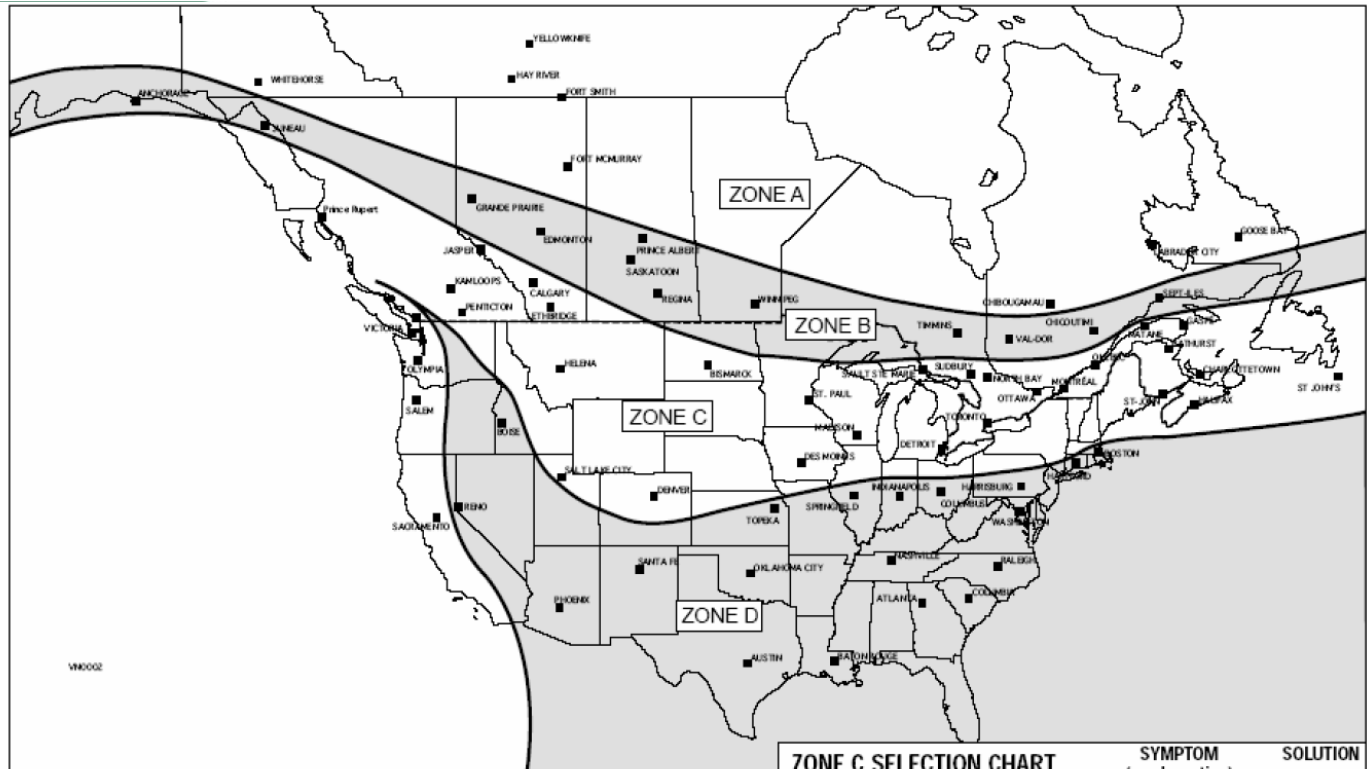


*We know air inside out*

## ERV—ENERGY RECOVERY VENTILATOR YEAR-ROUND VENTILATION

ERVs are suitable for all climates including those with hot, humid summers, where homes are air-conditioned and possibly dehumidified during large parts of the year. The ERV recovers heat in cold season, and recuperates the energy trapped in moisture, which greatly improves the overall recovery efficiency. The ERV process is as follows: in humid climates and homes with air conditioning, when it is more humid outside than inside, the ERV limits the amount of moisture coming into your home. In dry climates and humidified homes, when the humidity level is reversed, the ERV limits the amount of moisture expelled from your home.

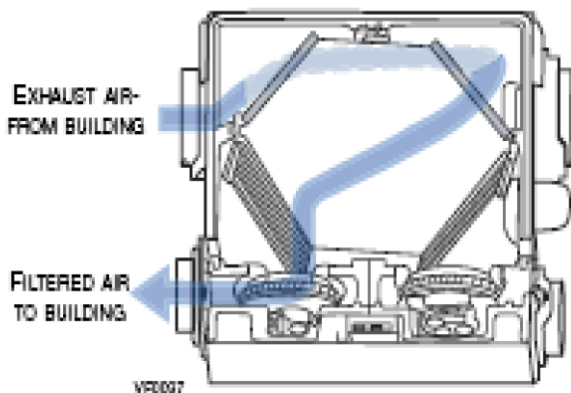




- ZONE A** (HRVs only)
- Set Extended Defrost according to section 8.2, point 10.
  - MODELS: 1001 HRV, 2001 HRV, HRV 100H, HRV 200H.
- ZONE B** (HRVs only)
- Extended Defrost setting not required (factory defrost strategy pre-set).
  - MODELS: 1001 HRV, 2001 HRV, HRV 100H, HRV 200H
- ZONE C** (HRV or ERV according to your client's particular problems)  
see ZONE C SELECTION CHART beside
- HRV MODELS: 1001 HRV, 2001 HRV, HRV 100H, HRV 200H.
  - ERV MODELS: 1001 ERV, 2001 ERV, ERV 100HC, ERV 200HC.
- ZONE D** ERVs recommended)
- ERV MODELS: 1001 ERV, 2001 ERV, ERV 100H, ERV 200H.
  - ERVs: Set Defrost mode #1 according to section 8.1.

ZONE C SELECTION CHART	SYMPTOM (condensation)	SOLUTION
Indoor air quality problem		ERV
and / or Excess moisture problem		ERV
and / or Important excess moisture problem		HRV

## DEFROST STRATEGY



Outside Temperature		HRV and ERV Defrost Cycles	
Celsius (°C)	Fahrenheit (°F)	Defrosting (min.)	Operation time (min.) between each defrost cycle
-5 to -27	23 to -17	7	25
-27 and less	-17 and less	10	22

## **BUILDER TESTIMONIAL DOUG TARRY HOMES**

I wanted to take this opportunity to tell the story of how Doug Tarry Homes came to use the vänEE ERV with the Platinum Control and the benefits that we have seen as a result.

As the building code moves towards homes being built to tighter requirements, managing humidity will become an increasing concern. As an ENERGY STAR® builder with many years of data on the tightness of our homes, Doug Tarry Homes has found a direct connection between a tighter home and balancing humidity.

Since our homes have been less than the 2.5 air changes per hour that is required by ENERGY STAR® for New Homes Program, or even the 1.5 ACH required by the R2000 program, we have gained a great deal of experience on this subject. We've been installing Heat Recovery Ventilator (HRV) units in our homes for many years as we understand the importance of continuous fresh air in the home. However, once we were routinely under 1.5 ACH, we began to realize that the HRV was actually contributing to some problems with the home's performance.

In the winter time we found that the HRV was over-drying the homes to the point that we would recommend to clients that they install a Humidifier. In the summertime, we were bringing in so much humid air that we were having clients supplement their Air Conditioner with a dehumidifier. This seemed to be a lot of additional mechanical work to deal with humidity swings. Once you factor in the homeowner having to understand and remember to do all this.... well it got pretty complicated and the service phone would ring constantly.

Then we spoke with the folks at Air Solutions about changing to using an ERV. They explained how the ERV would reduce over-drying in the winter and limit humidity gains during the summer. We talked to a few builders that were using the ERV and this gave us the confidence to change from using an HRV to an ERV. We settled on using the vänEE ERV with the Platinum Control. In hindsight, I wish that we had made the decision much sooner. The ERV did reduce the over-drying in the winter and it did reduce the summertime humidity load. But the best part was including the Platinum Control with the Smart Mode setting. By convincing our clients to use the smart mode setting on their control, the amount of service calls dropped dramatically. For the additional few hundred dollars it cost, it was more than made up for in reduced warranty calls.

If you are having some of the humidity control issues that I've mentioned above, then I really recommend you talk to the folks at Air Solutions about trying a vänEE ERV. Make sure you get the Platinum Control with it. You'll be glad you did.

Regards,

Doug Tarry  
Director of Marketing, Doug Tarry Homes

