## **Determining Your Ventilation Needs**

## How much fresh air do I need?

Good air quality is based in part on the capacity of the home's ventilation system.

Usually, the HRV's or ERVs capacity is measured in CFM (Cubic feet per minute) or L/s (Liters per second) of fresh air being distributed in the living space.

The **Room Count Calculation** or the **Air Change per Hour Method** shows you how to determine your ventilation needs. (See chart on right)

Room Count Calculation Method				
LIVING SPACE	NUMBER OF ROOMS	CFM (L/S)		CFM REQUIRE
Master Bedroom		x 20 cfm (10 L/s)	=	
With Basement		x 20 cfm (10 L/s)	=	
Single Bedroom		x 10 cfm (5 L/s)	=	
Living Room		x 10 cfm (5 L/s)	=	
Dinning Room		x 10 cfm (5 L/s)	=	
Family Room		x 10 cfm (5 L/s)	=	
Recreation Room		x 10 cfm (5 L/s)	=	
Kitchen		x 10 cfm (5 L/s)	=	
Bathroom		x 10 cfm (5 L/s)	=	
Laundry Room		x 10 cfm (5 L/s)	=	
Utility Room		x 10 cfm (5 L/s)	=	
Other		x 10 cfm (5 L/s)	=	
TOTAL VENTILATION REQUIREMENT (Add last column)			=	
		(Aud last colullil)	1 CI 1 L/	FM = 0.47189 L/s 's = 3.6 m3/hr

## **Air Change per Hour Method**

## **TOTAL** cu ft X 0.35 per hr = total

Take total and divide by 60 to get CFM

**Example: A 25'x 40' House with basement** 

1,000 Sq. ft. x 8' high x 2 (1st floor + basement) = 16,000 cu. ft.

 $16,000 \text{ cu. ft. } \times 0.35 \text{ ACH} = 5,600 \text{ cu. ft.}$ 

5,600 cu. ft. / 60 Minutes = 93.3 CFM

93.3 CFM is Your Ventilation Need.