

Envisivent Air Flow Data



Cold Air Returns

				Core Velocity [FPM]	300	400	500	600	700	800	1000	1200	1400
Product Identifier	Opening Width [in]	Opening Height [in]	Core Area [ft ²]	Core Velocity Pressure [“wc]	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122
PER Air Return 14 x 8	12	7.5	0.625	Flow [CFM]	138	185	231	277	323	369	461	554	646
				Static Pressure [“wc]	0.025	0.044	0.069	0.099	0.135	0.176	0.275	0.396	0.539

Notes:

1. The test procedures are based on ASHRAE 70.
2. Core Velocity – The average airstream velocity at the face of the grille, measured in feet per minute.
3. Core Velocity Pressure – The dynamic pressure of the airstream at the grille face. This pressure is relative to the core velocity and reported in inches of water (“wc)
4. Flow Rate – The volumetric rate of airflow through the grille, measured in cubic feet per minute (CFM)
5. Static Pressure – The air pressure difference across the grille at a given flow rate or velocity, measured in inches of water (“wc).
6. Throw – The distance away from a supply grille (i.e. perpendicular to the grille face) where the airstream velocity has slowed to a particular envelope velocity.
7. PER = PERMANENT/REM = REMOVABLE.

tested by:  Airflow Sciences Corporation