

# 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 <sup>2</sup> ]	Core Velocity Pressure [“wc]	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122
REM Air Return 10 x 10	7.645	7.645	0.406	Flow [CFM]	86	115	144	173	201	230	288	345	403
				Static Pressure [“wc]	0.023	0.040	0.063	0.090	0.123	0.160	0.250	0.361	0.491

tested by:  Airflow Sciences Corporation

- 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.