Envisivent Air Flow Data

ENVISIVENT™

Supply Vents

Product Identifier	Opening Width [in]	Opening Height [in]	Core Area [ft²]	Core Velocity [FPM]	300	400	500	600	700	800	1000	1200	1400
				Core Velocity Pressure ["wc]	0.006	0.010	0.016	0.022	0.030	0.040	0.062	0.090	0.122
Air Suply 10 x 4	9	3	0.1875	Flow [CFM]	39	53	66	79	92	105	132	158	184
				Static Pressure ["wc]	0.018	0.031	0.049	0.070	0.095	0.125	0.195	0.280	0.382
				Throw [ft] (150 100 50)	3 5 10	5 7 14	6 9 17	7 10 21	8 12 24	9 14 28	17 35	14 21 42	16 24 49

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