

# 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 24 x 8 | 24                 | 8                   | 1.333                        | Flow [CFM]                   | 267   | 356   | 445   | 534   | 623   | 712   | 890   | 1068  | 1246  |
|                       |                    |                     |                              | Static Pressure [“wc]        | 0.027 | 0.048 | 0.075 | 0.108 | 0.147 | 0.192 | 0.300 | 0.432 | 0.588 |

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.