



VARIABLE AIR VOLUME CONTROL DAMPERS

Rectangular VAV - Performance Data

Technical data

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|--|---|
| Nominal sizes | 200 x 100 to 1000 x 1000 mm |
| Volume flow rate range | 45 – 10100 l/s or 162 – 36360 m ³ /h |
| Volume flow rate control range (unit with dynamic differential pressure measurement) | Approx. 20 to 100 % of the nominal volume flow rate |
| Minimum differential pressure | 5 – 40 Pa |
| Maximum differential pressure | 1000 Pa |
| Operating temperature | 10 – 50 °C |

| Size (WxH) (mm) | u:2m/s | u:10m/s | A _{eff.} (m ²) |
|-----------------------|--|--|-------------------------------------|
| | V _{min.} (m ³ /h) | V _{nom.} (m ³ /h) | |
| 200x205 | 259 | 1296 | 0,036 |
| 300x205 | 396 | 1980 | 0,055 |
| 400x205 | 525 | 2628 | 0,073 |
| 500x205 | 655 | 3276 | 0,091 |
| 300x305 | 568 | 2844 | 0,079 |
| 400x305 | 756 | 3780 | 0,105 |
| 500x305 | 950 | 4752 | 0,132 |
| 600x305 | 1137 | 5688 | 0,158 |
| 700x305 | 1332 | 6660 | 0,185 |
| 800x305 | 1519 | 7596 | 0,211 |
| 400x405 | 993 | 4968 | 0,138 |
| 500x405 | 1245 | 6228 | 0,173 |
| 600x405 | 1490 | 7452 | 0,207 |
| 700x405 | 1742 | 8712 | 0,242 |
| 800x405 | 1987 | 9936 | 0,276 |
| 500x505 | 1533 | 7668 | 0,213 |
| 600x505 | 1843 | 9216 | 0,256 |
| 700x505 | 2152 | 10764 | 0,299 |
| 800x505 | 2455 | 12276 | 0,341 |

V_{min.}(m³/h) : Air flow rate when air velocity is 2 m/s

V_{nom.}(m³/h) : Air flow rate when air velocity is 10 m/s

V_{max.}(m³/h) : Air flow rate that customer wants between V_{min.} and V_{nom.} limit values

u (m/s) : Air velocity at VAV unit inlet

A_{eff.} (m²) : Effective area

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