

VARIABLE AIR VOLUME CONTROL DAMPERS

Circular VAV - Performance Data

Technical data

Nominal sizes	100 - 400 mm
Volume flow rate range	4 – 637 l/s or 14 – 2293 m ³ /h
Volume flow rate control range (unit with dynamic effective pressure measurement)	Approx. 4 to 100 % of the nominal volume flow rate
Minimum differential pressure	<5 – 82 Pa
Maximum differential pressure	Control component with dynamic transducer: 900 Pa, Control component with static transducer: 600 Pa
Operating temperature	10 to 50 °C

VAV-251 STANDARD SELECTION TABLE

Size	u:2m/s V _{min.} (m ³ /h)	u:12m/s V _{nom.} (m ³ /h)	ØD (mm)	L (mm)
Ø125	90	520	123	450
Ø160	150	870	158	450
Ø200	230	1360	198	500
Ø250	360	2120	248	500
Ø315	560	3370	313	500
Ø355	710	4280	353	550
Ø400	910	5450	398	550

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 12 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

ØD (mm) : VAV unit internal diameter

L (mm) : VAV unit length