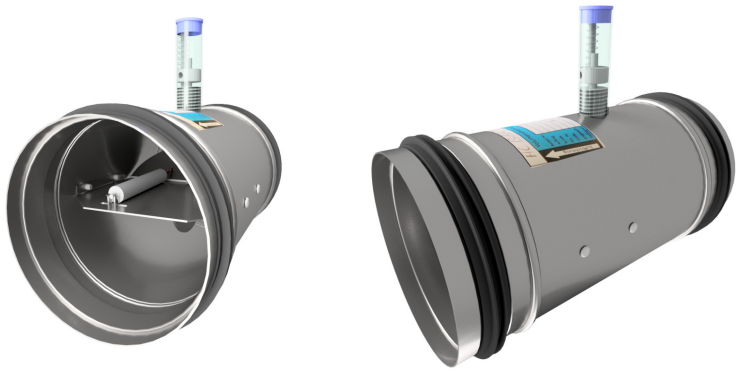
CIRCULAR CAV AIR VOLUME CONTROL TERMINALS

The Barcol-Air constant-air-volume-terminals, type NR / NT are factory pre-set on the desired air volume. The air volume can be changed within the ranges of the unit and read on a scale. Adjustment goes manually by Allen key.



Model Ø	CAV air volume range								
	l/s			CFM			m^3/h		
	Min		Max	Min		Max	Min		Max
80	11	-	35	24	-	74	40	-	125
100	19	-	61	41	-	129	70	-	220
125	28	-	78	59	-	165	100	-	280
140	42	-	111	88	-	235	150	-	400
160	50	-	139	106	-	294	180	-	500
200	69	-	250	147	-	529	250	-	900
250	139	-	417	294	-	882	500	-	1500
315	222	-	778	471	-	1647	800	-	2800
400	278	-	1111	588	-	2353	1000	-	4000

Adjusting the air volume

The image at the right shows a mechanincal CAV terminal with the scale marking. At the upperside of the scale marking the air volume can be adjusted with an Allen key (2mm).

Accuracy

The volume flow controller is a mechanical self-powered unit and works without external power supply. A damper blade with low-friction bearings is adjusted by aerodynamic forces such that the set volume flow rate is maintained within the differential pressure range.

Over the entire pressure range, the flow rate deviation is ± 10% (less than 100 m³ / h ± 10 m³/h).

For small air velocities below 4 m/s, the flow rate deviation can easily be larger than indicated above. Unfavourable flow conditions, pollution or minor bracing during installation can also cause larger deviations.

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