RDR

Air volume regulators, fitted inside a duct to maintain constant air volume within a pressure range from 50 to 200 Pa.

- The airflow can be adjusted during installation.
- The regulators can be used in commercial premises, both in ventilation and air treatment (max 60ºC) as well as in air extraction or impulsion.
- It can be used in dwellings with double-flow installation.
- Easy to fit inside the duct.
- Sealing and stability provided by a foam joint.
- Manufactured from flame retardant plastic (M1 fire classification), with limit of operation at 60ºC.

Ø 80 mm

Model	Airflow (m^3/h)	Airflow regulation options	
		(m^3/h)	in sections of (m^3/h)
RDR-80/15	15	15 to 50	2,5
RDR-80/30	30	15 to 50	2,5
RDR-80/45	45	15 to 50	2,5

Data of Ø (mm) and airflow (m3/h) are included in the reference of RDR models.
RDR- Ø / airflow

Ø 100 mm

Model	Airflow (m^3/h)	Airflow regulation options	
		(m^3/h)	in sections of (m^3/h)
RDR-100/30	30	15 to 50	5
RDR-100/45	45	15 to 50	5
RDR-100/50	50	15 to 50	5
RDR-100/60	60	50 to 100	5
RDR-100/75	75	50 to 100	5
RDR-100/90	90	50 to 100	5

Ø 125 mm

Model	Airflow (m^3/h)	Airflow regulation options	
		(m^3/h)	in sections of (m^3/h)
RDR-125/30	30	15 to 50	5
RDR-125/45	45	15 to 50	5
RDR-125/60	60	50 to 100	5
RDR-125/75	75	50 to 100	5
RDR-125/90	90	50 to 100	5
RDR-125/120	120	100 to 180	5
RDR-125/150	150	100 to 180	5
RDR-125/180	180	100 to 180	5

Ø 160 mm

Model	Airflow (m^3/h)	Airflow regulation options	
		(m^3/h)	in sections of (m^3/h)
RDR-160/150	150	100 to 180	5
RDR-160/180	180	100 to 180	5
RDR-160/210	210	180 to 300	5
RDR-160/240	240	180 to 300	5
RDR-160/270	270	180 to 300	5
RDR-160/300	300	180 to 300	5

Ø 200 mm

Model	Airflow (m^3/h)	Airflow regulation options	
		(m^3/h)	in sections of (m^3/h)
RDR-200/240	240	180 to 300	10
RDR-200/270	270	180 to 300	10
RDR-200/300	300	180 to 300	10
RDR-200/350	350	300 to 500	10
RDR-200/400	400	300 to 500	10
RDR-200/450	450	300 to 500	10
RDR-200/500	500	300 to 500	10

Ø 250 mm

Model	Airflow (m^3/h)	Airflow regulation options	
		(m^3/h)	in sections of (m^3/h)
RDR-250/350	350	300 to 500	25
RDR-250/400	400	300 to 500	25
RDR-250/450	450	300 to 500	25
RDR-250/500	500	300 to 500	25
RDR-250/550	550	500 to 750	25
RDR-250/600	600	500 to 750	25
RDR-250/650	650	500 to 750	25
RDR-250/700	700	500 to 750	25

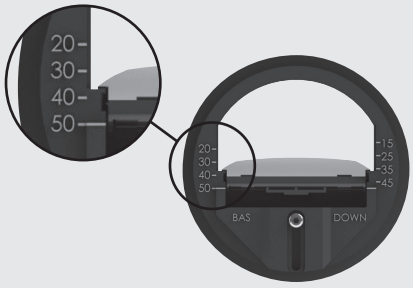
Regulators

Before carrying out the implementation of the regulator, it is necessary to calibrate the airflow:

1. Loosen the screws of the adjustment module.
2. Adjust the marker module (located on the left or right) in front of the desired airflow rate.
3. Tighten the screws of the adjustment module.

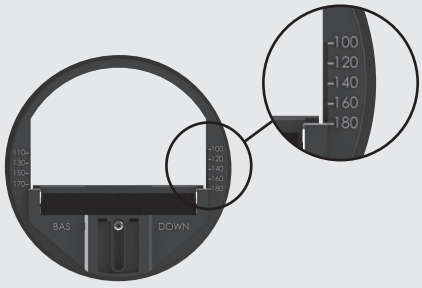
It is possible to get other rates that those indicated on the controller by shimming the mark on the control module on a intermediary position.

Regulators RD Ø 80 et 100 mm



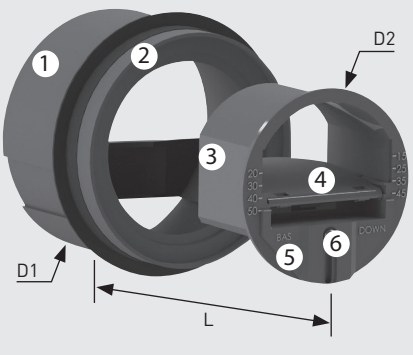
Example of regulator at 50 m3/h

Regulators RD Ø 125 à 250 mm



Example of regulator at 180 m3/h

Composition and design

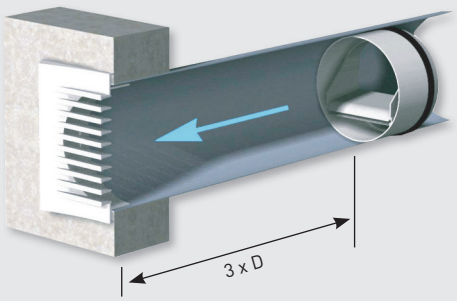


RDR	D1 (mm)	D2 (mm)	L (mm)
Ø 80	76	76	55
Ø 100	96	93	70
Ø 125	120	117	86
Ø 150	146	148	91
Ø 160	146	148	91
Ø 200	190	195	91
Ø 250	245	236	127

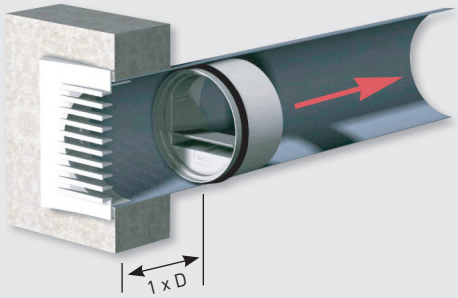
1. ExtBrush seal
2. Spacer (as output)
3. Casing
4. Flap
5. Airflow control module
6. Locking screw adjustment mode

Installation

The air volume regulators are mounted inside vertical and horizontal ducting by simple interlocking.
In a horizontal duct, "BAS" (bottom) indicated at the front of the regulator.
An external brush seal provides airtightness.
When the regulator is fitted to an inlet, the minimum distance between the inlet and the regulator must be the same as the diameter for extraction and three times the diameter for blowing.
It is important to respect the air flow direction shown on the connector.

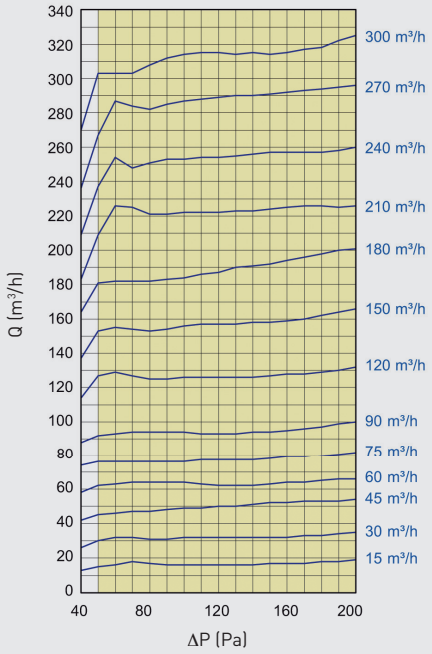


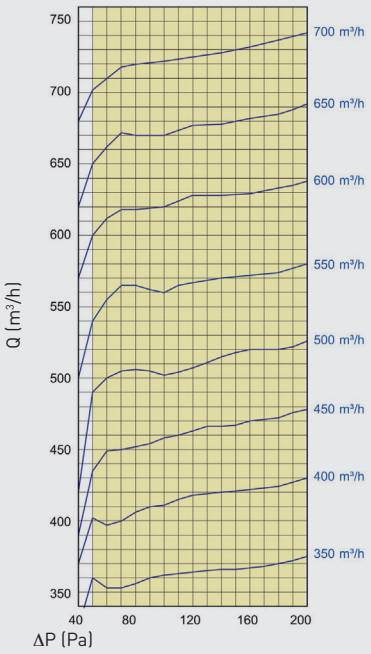
Air volume regulator
in supply air operation



Air volume regulator
in extract air operation

Performance curves. The curves show the air volume variations in m³/h in relation with the pressure in Pascals.





Acoustic Characteristics

Débit (m³/h)	Lw en dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
15	25	29	32	35
30	26	31	35	38
45	27	33	36	39
50	32	37	39	42
60	32	37	39	42
75	32	37	40	42
90	32	38	41	44
120	30	34	39	42
150	33	37	41	45

Débit (m³/h)	Lw en dB(A)			
	50 Pa	100 Pa	150 Pa	200 Pa
180	34	40	44	47
210	34	40	42	44
240	35	41	44	47
270	37	43	45	49
300	33	37	42	45
350	35	40	44	47
400	37	42	45	50
450	38	44	46	51
500	39	46	48	53