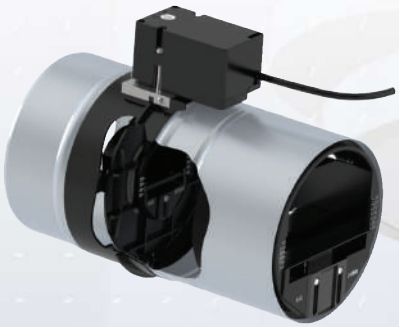
DUAL-FLOW
MOTORISED DAMPERS
(electric motor)

anjos
inspirer le bien-être

RM-ME Dual-flow

Ø 125 to 200 mm

230 V or 24 VAC/DC control
electric motor

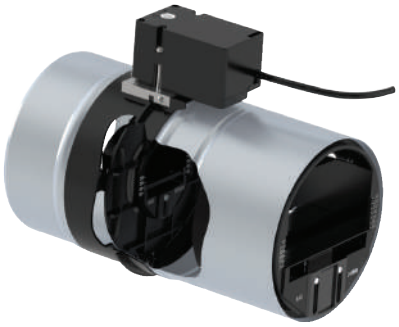


RM-ME Dual-flow

- Closed position ('off' cycle): a portion of the nominal flow rate is delivered via a solid blade with a built-in dia. 80 mm or 100 mm flow regulator
- Open position ('on' cycle): the nominal flow rate is controlled by a flow regulator fitted upstream of the damper blade
- Spring return to original position and power off
- Specific flow rate controlled by the two flow regulators across a pressure range of 50 to 250 Pa (minimum flow rate) and 60 to 250 Pa (maximum flow rate)

Presentation

RM-ME self-regulating dual-flow motorised dampers are designed for ventilation systems used in commercial spaces. They modulate open and closed via a blade controlled by an electric motor. Each round damper blade is available in a choice of four diameters: 125, 150, 160 and 200 mm.



The minimum flow rate is ensured by a flow regulator built into the blade when the dampers are in the closed position ('off' cycle). Conversely, the maximum flow rate is ensured by a flow regulator fitted upstream of the dampers when they are in the open position ('on' cycle).

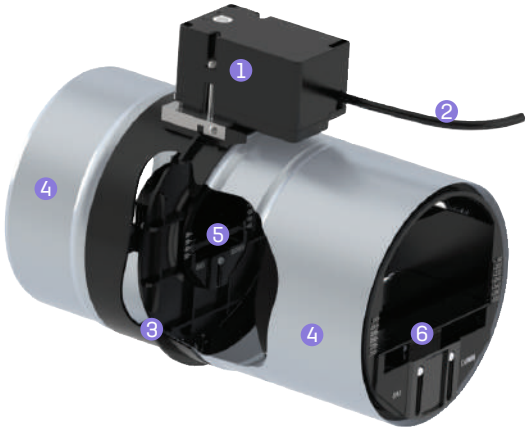
The dampers are returned to their original position (minimum flow) by a spring when the motor is powered off.

Available flow rates

The maximum and minimum flow rates possible with RM-ME dual-flow motorised dampers are given in the table opposite.

RM-ME dual-flow damper	Min. flow rate ('off' cycle)	Max. flow rate ('on' cycle)
dia. 125	15 to 50 m³/h	50 à 180 m³/h
dia. 150/160 mm	15 to 100 m³/h	100 à 300 m³/h
dia. 200	15 to 100 m³/h	100 à 500 m³/h

Components



1. Electric motor unit
2. Connection cable (approx. length: 20 cm)
3. Body and blade made of plastic (class M1)
4. Galvanised steel casings
5. Flow regulator built into the blade (minimum flow rate)
6. Upstream flow regulator (maximum flow rate)

Characteristics

- 230 V power supply (or 24 VAC/DC)
- Power consumption: 2.5 W (1.2 W at 24 VAC/DC)
- Operating pressure: P ≤ 250 Pa
- Number of duty cycles: 30,000
- Maximum operating temperature: 60°C
- Power cable: two 0.75 mm² wires
- Torque: 0.3 Nm

Response time	
Open	8 seconds
Close	8 seconds

Installation

Adjustment of flows

The minimum and maximum flowrates of air flow regulators can be calibrated.

Flowrates	Setpoint intervals	RM-ME dual flowrate		
		Ø 125	Ø150/160	Ø 200
15 to 50 m³/h	5 m³/h	•	•	•
50 to 100 m³/h	10 m³/h		•	•

Adjustment of the minimum flow of the regultor placed into the blade :

1 - Remove the maximum flow regulator from the register connection sleeve as shown opposite

2 - Access to the regulator located into the blade to calibrate, being careful not to press the blade (the regulator must not be removed frome the blade)

3 - Calibrate the regulator :

- Using a T10 Torx screwdriver, loosen the screw on theadjustment module by one-quarter turn.
- Set the cursor (on the left or right) to the desired flow rate.
- Retighten the adjustment module locking screw.

4 - Insert the maximum flow regulator in the damper connection sleeve, respecting the air flow direction indicated on the sleeve as well as the DOWN direction of the regulator.

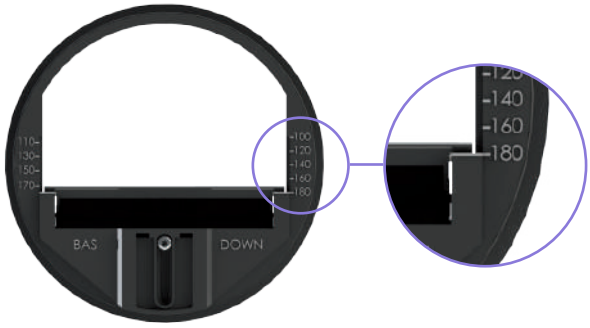
Air flow regulator
Ø 80 and 100 mm

Example of 50 m³/h setting :
regulator set at the «50» mark on the left

Adjustment of the maximum flow :
Calibrate the maximum flow regulator using the same method as for the minimum flow regulator.

Flowrates	Setpoint intervals	RM-ME dual flowrate		
		Ø 125	Ø150/160	Ø 200
50 to 100 m³/h	10 m³/h	•		
100 to 180 m³/h	10 m³/h	•	•	•
180 to 300 m³/h	10 m³/h		•	•
300 to 500 m³/h	25 m³/h			•

Air flow regulator
Ø 125 to 200 mm

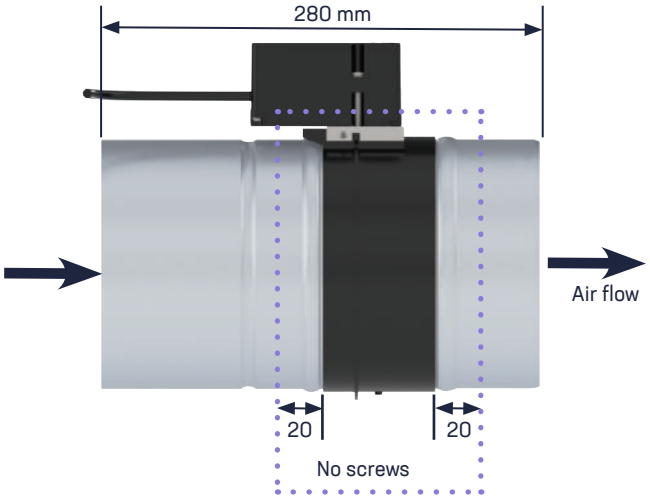


Example of 180 m³/h setting :
regulator set at the «180» mark on the right

Installation

Recommendations

These dampers fit all 120-200 mm round ducts. They must remain easily accessible for maintenance.
Slide the ends of the ducts over the metal casings up to the edges of the plastic body of the damper. Secure the ducts with mastic, adhesive tape, or clamps.



If the dampers are fitted in horizontal ducts, make sure that the DOWN marking on the front of the regulator is facing in the correct direction (motor at top).

Identify the correct air flow direction indicated on the dampers before fitting.

Do not insert screws into the plastic body or into a 20 mm area on either side of it. Doing so may jam the damper blade. Screws with a maximum length of 20 mm may be inserted beyond this area.

Never turn the blade by hand. Doing so may damage the motor.

Never remove the metal casings from the plastic body of the damper.

These dampers are set to be fully open or fully closed. They cannot be placed in intermediate positions. Do not fit stops to prevent the dampers from fully opening or closing.

Never operate the dampers for extended periods in conditions of high humidity and never above a relative humidity of 90%.90% HR.

Electrical connections

For safety purposes, install a 1-amp phase-neutral circuit breaker in the distribution board.

Caution: Always disconnect the power to the circuits of the dampers before attempting to service them.

Connect the cable to a nearby junction box.

Characteristics

Product codes

For information on the characteristics of the RDR flow regulators, refer to the technical documentation.

230 V POWER SUPPLY

Description	Code
RM-ME - dual flow - dia. 125 mm - 230 V	**1331**
RM-ME - dual flow - dia. 150 mm - 230 V	**1332**
RM-ME - dual flow - dia. 160 mm - 230 V	**1333**
RM-ME - dual flow - dia. 200 mm - 230 V	**1335**

24 VAC/DC POWER SUPPLY

Description	Code
RM-ME - dual flow - dia. 125 mm - 24 V	**1341**
RM-ME - dual flow - dia. 150 mm - 24 V	**1342**
RM-ME - dual flow - dia. 160 mm - 24 V	**1343**
RM-ME - dual flow - dia. 200 mm - 24 V	**1345**

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