DEC INTERNATIONAL TECHNICAL SPECIFICATIONS



DMR MODULO CONSTANT VOLUME DAMPER AIR MANAGEMENT SYSTEMS

PRODUCT PROPERTIES

Constant Airflow Regulator multi-airflow

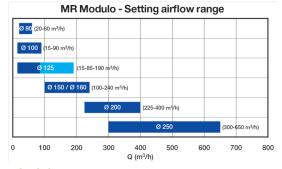
The DMR Modulo regulates to an adjustable airflow. One code corresponds to several airflow setting options. The DMR MODULO incorporates a rotating ring for a tool-free airflow settina.

7 diameters (mm): 80, 100, 125, 150, 160, 200 and 250.

- Best constant airflow regulation thanks to the silicone membrane (avoids clogging).
- Optimum silent operation (no mechanical clatter or other noise interference due to variations in pressure).

Airflow accuracy

+/- 5 m3/h for nominal flow \leq 50 m3/h. +/-10% for nominal flow > 50 m3/h. Operating differential pressure range: Standard range: 50 - 250 Pa. Temperature range of use: -10 to 60°C.

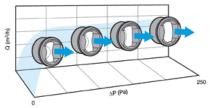


Principle

Operating

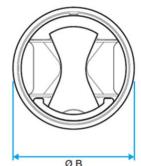
They fit easily into a part of the circular ductwork to maintain constant and reliable airflow within a wide range of differential pressure (50 - 250 Pa) for the standard version and for the high-pressure version (150 - 650 Pa).

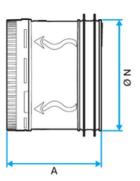
Its flexible membrane inflates and deflates according to the difference in pressure between the upstream and downstream flow, thus modifying the airflow. This principle of operation guarantees constant airflow regardless of the pressure variations in the ductwork.



Dimensions - weight

Difficition	iis weight			
Ø Duct (mm)	ØN (mm)	ØB (mm)	A (mm)	W (kg)
080	76	85	65	0.07
100	92	105	70	0.11
125	116	132	70	0.17
125	116	132	110	0.22
150	147	153	118	0.30
160	153	167	118	0.34
200	190	210	144	0.65
250	238	262	179	1.20





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The following information is indicated directly on the

- product:
- Airflow direction
- Diameter in mm and inch
- Operating differential
- pressure range
- Product code
- Traceability data
- Ouality control
- The airflow setting range correlation table (in m3/h and cfm).

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The right balance in aeraulic networks

Modern constructions need to be airtight in order to be energy efficient.

In addition to thermal comfort (heating or cooling) airconditioning systems are now specifically sized to guarantee a supply of fresh air into the building for health purposes (notably in terms of oxygen content).

Therefore it is increasingly important to ensure that operating airflows correspond to the ones calculated for the HVAC system sizing (air balancing).

Correct air balancing is key to a properly commissioned HVAC system and to avoid side effects generated by over-ventilation (noise, high temperatures, high energy consumption) or by under-ventilation (deteriorated air quality and uncomfotably cold temperatures...)



LIABILITY:

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PLEASE NOTICE:

The consultant is responsible for the actual installation and mounting of The product. The mentioned values with respect to temperatures are not appropriate to be used to determine the physical properties. These properties are also dependent on humidity and the temperature of the air inside and outside of the H.V.A.C. system.

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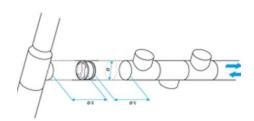
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Typical applications

Airflow stabilization for a ventilation or air-conditioning ductwork section

2



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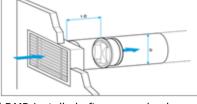
Exhaust airflow stabilization.

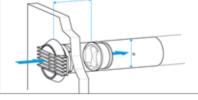
In air extraction, we recommend a 1-diameter distance between the terminal and the DMR to allow homogenization of air velocities in the duct and thus avoid acoustic or aeraulic disturbances.

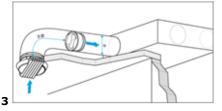
DMR MODULO

AIR MANAGEMENT SYSTEMS

CONSTANT VOLUME DAMPER







1

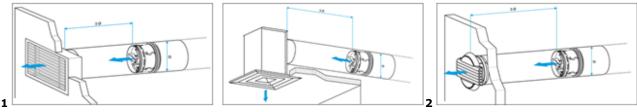
1/ DMR installed after a supply plenum box

2/ DMR installed after a BIM-type grille

3/ DMR installed before a fan coil

Supply airflow stabilisation.

In air supply, we also recommend a distance of 3 diameters between the terminal and the DMR to allow homogenization of the air velocities in the duct and thus avoid acoustic or aeraulics disturbances.

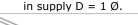


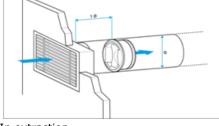
- 1/ DMR installed before a supply plenum box
- 2/ DMR installed before a BIM-type grille

IMPLEMENTATION

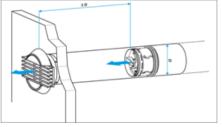
DMR Modulo will push-fit into circular ducts in close proximity to a take-off or a terminal.

- Observe the installation direction (corresponding to airflow) directly indicated with an arrow on the MR.
- Can be mounted either horizontally or vertically. There is no recommendation regarding the positioning of the membrane.
- In order to avoid acoustic and aeraulic interference it is recommended to respect a minimal distance between the DMR and • the terminal (grille / diffuser / inlet):
 - in extraction D = 3 Ø,





In extraction



In supply

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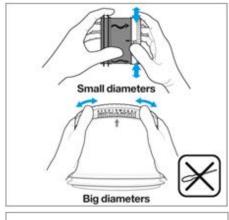
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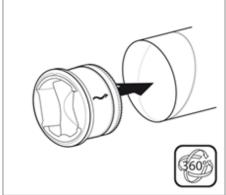


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DMR Modulo installation





DMR MODULO CONSTANT VOLUME DAMPER AIR MANAGEMENT SYSTEMS

1. Adjust the airflow setting

Rotate the adjustment ring for a tool-free airflow setting until the desired airflow is reached.

2. Position the MR Modulo

Introduce the DMR in the duct according to the arrow showing the airflow direction. Minimum straight upstream and downstream distances must be observed.



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