



DET+DETV EXHAUST/SUPPLY AIR VALVE AIR MANAGEMENT SYSTEMS

PRODUCT DESCRIPTION

This ingenious architectural valve is suitable for homes as well as for offices. You can choose between a ceiling or a wall installation.

This product is not only pleasing to the eye, it combines also exceptional air technical performances at an extremely low noise level.

You can use this residential valve easily as supply or exhaust, in new buildings and for renovation. Also servicing is done in a flash.

The residential diffuser consists of two parts:

- The base valve (available with mounting bracket or springs)
- The deflector plate (available in different shapes and surface finishings)

A simple screw joint couples both parts faultlessly. Each valve has a double lip seal. In this way your ductwork gets a class D airtightness (EN1751).

Next to that a static pressure measurement can easily be done.

Because every detail is important, you can choose for the primer version. (standard RAL9010) You can paint your residential diffuser in your favorite color and give a personal touch to the design and your home!

APPLICATION	Product Direction airflow Type airflow	DET*** Radial Supply or exhaust
CONSTRUCTION	Volume control Front plate	Damper, pressure measurement possible Different shapes possible
MATERIAL	Standard material Standard finishing	PP (Base), powdercoated aluminium (Damper plate) RAL9010
INSTALLATION	Mounting options	Mounting springs, mounting bracket

DETL-125 - Valve Ø125mm large frontplate with mounting bracket

- DETQ-125 Valve Ø125mm square frontplate with mounting bracket
- DETS-125 Valve Ø125mm small frontplate with mounting bracket

DETVL-125 - Valve Ø125mm large frontplate with mounting springs DETVQ-125 - Valve Ø125mm square frontplate with mounting springs DETVS-125 - Valve Ø125mm small frontplate with mounting springs

QUICK SELECTION TABLE

RESIDENTIAL VALVE SUPPLY 125mm					
Lw					
20 dB(A)	25 dB(A)	30 dB(A)	35 dB(A)		
73 m³/h	86 m³/h	104 m³/h	125 m³/h		
RESIDENTIAL VALVE EXHAUST 125mm					
Lw					
20 dB(A)	25 dB(A)	30 dB(A)	35 dB(A)		
73 m³/h	86 m³/h	102 m³/h	121 m³/h		



Front plate



LIABILITY:

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PLEASE NOTICE:

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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SUPPLY SOUND POWER, PRESSURE DROP



CRITICAL DISTANCE



THROW



TEMPERATURE





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EXHAUST SOUND POWER, PRESSURE DROP



Symbol	Unit	
ΔP _{tot}	[Pa]	total pressure loss
Xcrit	[m]	critical distance at which the jet detaches from the ceiling because of $\Delta T0$
Qv	[m³/h] / [l/s]	airflow
ΔT _x	[K]	difference between ambiant temperature and jet centreline temperature at distance x
ΔT_0	[K]	temperature difference between ambiant air and supply air
LW	[NR] / [dB(A)]	sound power
Lt0.2	[m]	distance at which the jet centreline velocity decreases to 0.2 m/s
0	[mm]	aperture
Х	[m]	distance measured from the diffuser's centre

MEASUREMENTS







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MOUNTING INSTRUCTIONS

DETV

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With mounting springs. Suitable for With mounting ring. Suitable plaster ceiling up to 16 mm thick. for all other ceilings. 0119 @190 Base DETV ۵ Front panel

S/L/Q



DET

0119

@190

PREPARATION

Make an opening in the ceiling Minimal hole size = 128 mm for installation in a duct and 135 mm for a flexible duct Maximum size of the hole = 140 mm.

NOTE

Use a hole saw - Ø 140 mm

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TOOLS (*only for the DET with mounting bracket)

*9 х3

x 3





DETV EXHAUST/SUPPLY AIR VALVE AIR MANAGEMENT SYSTEMS

INSTALLATION DETV - WITH MOUNTING SPRINGS (only for plaster ceilings)





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MONTAGE DET - WITH MOUNTING RING (for all other ceilings)





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