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energy efficiency modern design
temperature heating
intelligent climate control
air-conditioning
high purity



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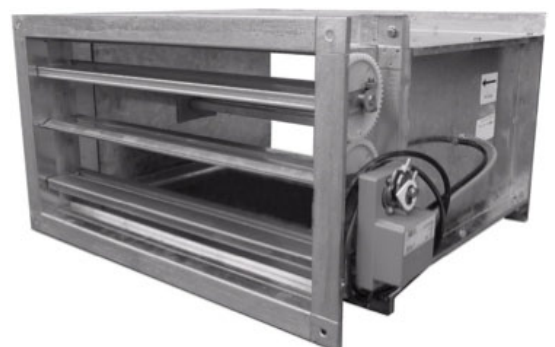
VFR-2

- rectangular variable flow regulators



Air Distribution Systems

PRODUCTS CATALOGUE



VFR-2

Variable flow regulators - VAV control units in galvanized steel

Variable flow regulators VFR-2 are used for regulating the air flow in the VAV systems. Due to the precise and controlled operation, they can be used in any VAV ducting system.



CONSTRUCTION

- Casing in galvanised steel Z200 with connecting flanges;
- Inlet section with ΔP dynamic sensor for the measurement and control of air flow;
- Aerofoil blades in galvanised steel Z200 with lateral and longitudinal seals;
- Different pressure range 20 to 1000 Pa;
- Completed with vav motor linearized;
- Acoustics data tested in according to UNI EN 25135 and ISO 3741.

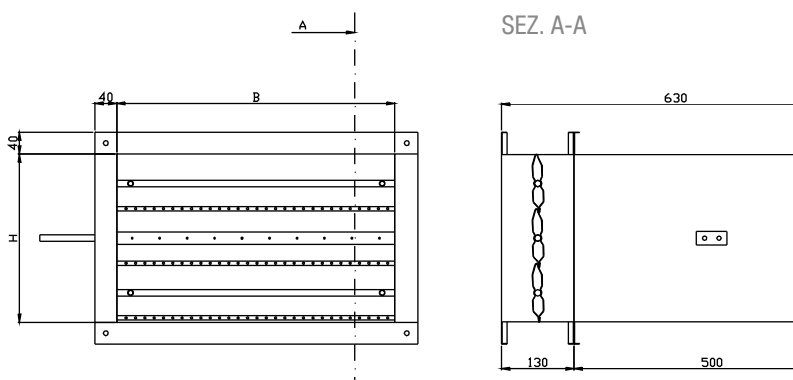
EXECUTION

- Belimo motor LMV-D2MPVC; NMVD2MPVC; NM24V+VRD2;
- Mounting on return for ΔP static control to guarantee negative or positive pressure depending of project requirements;
- Other motors available.

ACCESSORIES

- Secondary sound attenuators;
- Air tight DIN 1946/4 blade (VFR-T);
- Double acousting casing (VFR-I).

VFR-2 dimensional drawing and quick selection chart:



ATTENTION

In order to obtain precise functioning and equalibration of the system with max 5% tolerance, it is obligatory to have straight duct connection in same dimension as VFR-1 unit in minimum lenght of 2/3 of the B value.

Without respecting that, air volume may differ for up to 10-20% compared to the one, set in the laboratory!

AIRFLOW			
SIZE B x H	V min Siemens	V min Belimo	V max
200 x 110	75	225	750
400 x 110	150	450	1500
600 x 110	230	690	2300
400 x 210	300	900	3000
600 x 210	450	1350	4500
800 x 210	600	1800	6000
600 x 310	660	1980	6600
800 x 310	890	2670	8900
1000 x 310	1100	3300	11000
600 x 410	880	2640	8800
800 x 410	1180	3540	11800
1000 x 410	1450	4350	14500
V max	:Max in m³/h		
V min	:Max in m³/h		

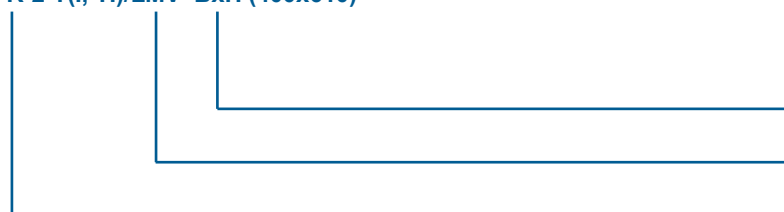
TECHNICAL DATA FOR VFR-2 VAV UNITS

Dimension

- Nominal “B” from 200 to 1200 [mm] each increment 50 [mm];
- Nominal “H” from 110 to 610 [mm] each increment 100 [mm];
- B = 200 – 600, Hmax = 610
- B = 650 – 800, Hmax = 510
- B = 850 – 1000, Hmax = 410
- B = 1050 – 1200, Hmax = 310

Ordering key

VFR-2-T(I, TI)/LMV BxH (400x610)



BxH

Dimension

Actuator model

VFR-2
VFR-2-T
VFR-2-I
VFR-2-TI

variable flow regulator
air tight by DIN 1946/4
insulated casing
air tight and insulated casing



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