

Air flow units

RPRT



Description

- RPRT: rectangular VAV units
- casing in galvanised steel
 - aluminium damper DIN 1946/4 and according to EN 1751 Class 4
 - dynamic Δp probe for measuring and maintaining the required flow rate
 - operating range from 20 to 1000 Pa
 - flow adjustment and control with dedicated compact VAV actuator
 - acoustic tests according to UNI EN 25135

Accessories

Additional rectangular sound attenuator with 100 mm thick baffles; in this case the length of the baffles will be L 1000 – 200 mm

Assembly:

- install a straight section of duct upstream with the same size as the VAV unit and a length equal to 2 ÷ 3 times the largest dimension

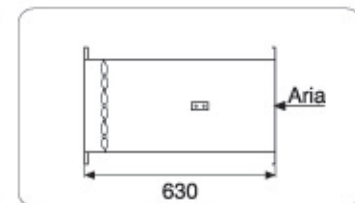
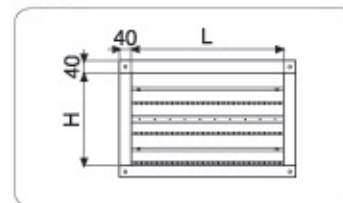
Executions

- RPRT-B: with Belimo actuator LMV-D3-MP
- RPRT-BLON: with Belimo actuator LMV-D3-LON
- RPRT-BMOD: with Belimo actuator LMV-D3-MOD
- RPRT-SM: with Siemens actuator GDB181.1E/3
- RPRT...STE: with Sauter actuator
- RPRT...LL: with HONEYWELL actuator with integrated controller
- RPRT...JH: with JOHNSON CONTROLS actuator with integrated DDC controller (BACnet MS/TP)
- RPRT...CP: to check room or duct pressure (on request)
- RPRT...I: insulated casing
- RPRT... : with fast actuator (on request)
- ATEX execution (on request)
- Execution in AISI 304 stainless steel (list price x2.5) / AISI 316 (list price x3)

Rapid selection

LxH	NOISE GENERATED					
	Flow rate m ³ /h		Lp(A) max	Lp(A) max	Lp(A) min	Lp(A) min
	max	min.	Δp_{st} 200 Pa	Δp_{st} 500 Pa	Δp_{st} 200 Pa	Δp_{st} 500 Pa
200 x 110	750	150	57	68	53	58
400 x 110	1500	300	59	70	55	60
600 x 110	2300	460	61	72	57	62
400 x 210	3000	600	61	69	52	61
600 x 210	4500	900	63	71	54	63
800 x 210	6000	1200	64	72	55	64
600 x 310	6600	1320	62	70	57	63
800 x 310	8900	1780	63	71	58	64
1000 x 310	11000	2200	64	72	59	65
600 x 410	8800	1760	64	72	55	66
800 x 410	11800	2360	65	73	56	67
1000 x 410	14500	2900	66	74	57	68

RPRT



RCV



RCV...I



Dimensions

DN	P	S	L	C
125	8	0.6	370	0.8
160	8	0.6	415	0.8
200	12	1.2	470	0.8
250	12	1.2	540	0.8
315	12	1.2	630	0.8
355	12	1.2	685	0.8
400	12	1.2	750	0.8

Description

RCV: like RPRT in circular version

Accessories

SA: additional sound attenuator L = 900 mm

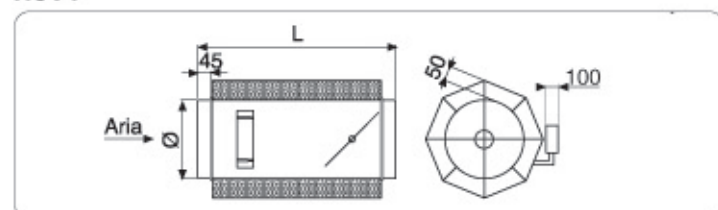
Executions

- RCVB: with Belimo actuator LMV-D3-MP
- RCVB-LON: with Belimo actuator LMV-D3-LON
- RCVB-MOD: with BELIMO actuator LMV-D3-MOD
- RCVSM: with Siemens actuator GDB181.1E/3
- RCV...STE: with Sauter actuator
- RCV...LL: with HONEYWELL actuator with integrated controller
- RCV...JH: with JOHNSON CONTROLS actuator with integrated DDC controller (BACnet MS/TP)
- RCV...CP: to check room or duct pressure
- RCV...I: insulated closing
- ATEX execution (on request)
- Execution in AISI 304 stainless steel (list price x2.5) / AISI 316 (list price x3)

Rapid selection

DN	NOISE GENERATED					
	Flow rate m ³ /h		Lp(A) max	Lp(A) max	Lp(A) min	Lp(A) min
	max	min.	Δp_{st} 200 Pa	Δp_{st} 500 Pa	Δp_{st} 200 Pa	Δp_{st} 500 Pa
125	570	60	50	59	35	44
160	950	100	53	61	36	45
200	1530	150	54	62	37	46
250	2300	230	55	63	39	48
315	3650	360	56	64	40	48
355	4800	480	57	65	40	48
400	6300	630	59	66	41	49

RCV I



RCV Type: like RCV I without external insulation

Air flow units

LMV-D3-MP



Description

- LMV-D3-MP:** VAV-Compact actuator 5 Nm
- AC/DC 24V, modulating, communicating
 - MP-Bus communication
 - operating field 0/2...10V variable
 - feedback volume/position/diff. pressure 0/2...10V variable
 - IP54, manual control with button, fixed or temporary
 - 1 m PVC cable connection
 - mechanical interface, universal clamp 6...20 mm

LMV-D3-MOD



Description

- LMV-D3-MOD:** VAV-Compact actuator 5 Nm
- AC/DC 24 V, modulating, communicating, hybrid
 - BACnet MS/TP, Modbus RTU, MP-Bus communication
 - IP54, manual control with button, fixed or temporary
 - 1 m PVC cable connection
 - mechanical interface, universal clamp 6...20 mm

LMV-D3-LON



Description

- LMV-D3-LON:** VAV-Compact actuator 5 Nm
- AC/DC 24 V, communicating
 - LON communication (FTT-10A)
 - IP54, manual control with button, fixed or temporary
 - 1 m PVC cable connection
 - mechanical interface, universal clamp 6...20 mm

"KNX" VERSION AVAILABLE

CP



Description

CP: system for adjusting the pressure and flow rate. The system includes the pairing of differential pressure probes combined with actuators.

Pressure range:

- -75 / +75 Pa
- 0 / 500 Pa
- 0 / 600 Pa

MP-Bus functions:

- MP-Bus
- Modbus
- BACnet MS/TP

SIEMENS



Description

- GDB181. 1°/3:** compact VAV actuators for systems with variable or constant air flows
- integrated high-precision differential pressure sensor, actuator and configurable digital air volume regulator
 - AC 24V operating voltage for nominal torque of 5 or 10 Nm, angular rotation of the air damper mechanically adjustable between 0 and 90°
 - optional configuration as a compact VAV controller or combined actuator / differential pressure sensor
 - pre-cabled with 0.9 m connection cable
 - operating field 0/2...10V variable
 - feedback volume/position/diff. pressure 0/2...10V variable

JOHNSON CONTROLS®



Description

JOHNSON CONTROLS®: F4-CVM3050 the CVM03050 controllers work on RS-485 BACnet® MS / TP bus like an advanced BACnet (B-AAC) application controller are integrated in Johnson Controls® systems and third-party BACnet.

The CVM03050 controllers have an actuator for the integrated damper, a DPT (Differential Pressure Transmitter) digital sensor and a 32-bit microprocessor.

The CVM03050-0P model is fitted with an integrated potentiometer to detect the actual position of the VAV damper box.

SAUTER



Description

- SAUTER ASV 205 B...:** compact system for measuring and controlling the flow in VAV systems
- BACnet MS/TP communication system

HONEYWELL



Description

- HONEYWELL W7751...Smart VAV::** compact system for measuring and controlling the flow in VAV systems
- Echelon - LonWorks communication system