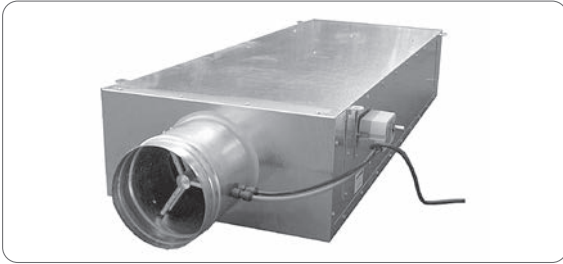


## BMV



### Description

- BMV:** single duct variable flow box
- casing in galvanised steel suitable for tie rod assembly
- Leakage damper according to DIN 1946/4 - Class 4 EN 1751
- Acoustic double-density rock wool material lined with black glass veil, fire-resistance M0; A1 according to EN 13501-1
- dynamic  $\Delta p$  probe for measuring and maintaining the required flow rate
- operating range from 20 to 1500 Pa
- flow adjustment and control with dedicated compact VAV actuator
- acoustic tests according to UNI EN 23741

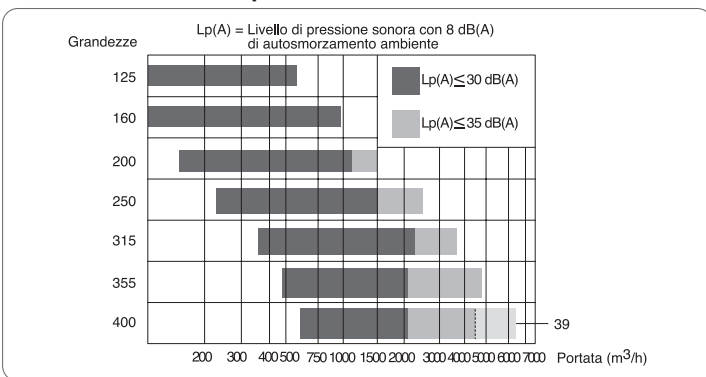
### Accessories

- BAC2RR:** water post-heating coil (page 3)
- BAE:** electric post heating coil (on request)
- SA:** additional sound attenuator
- SA-HY OSPEDALIERO:** additional airtight sound attenuator with VDI 6022 glass tissue cover
- RF:** wire equaliser for assembly near curve or junction box (on request)

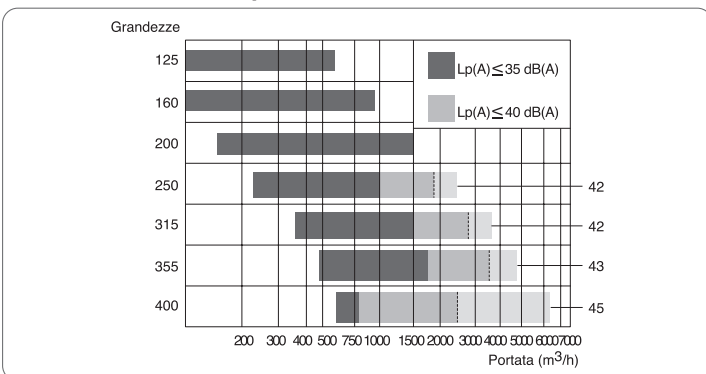
### Executions

- BMVB:** with Belimo actuator LMV-D3-MP
- BMVLON:** with Belimo actuator LMV-D3-LON
- BMVBMOD:** with Belimo actuator LMV-D3-MOD
- BMVSM:** with Siemens actuator GDB181.1E/3
- BMV...JH:** with JOHNSON CONTROLS actuator with integrated DDC controller (BACnet MS/TP) - F4-CVM
- BMV...STE:** with Sauter actuator
- BMV...LL:** with HONEYWELL actuator with integrated controller
- BMV...HY:** made with VDI 6022 certified hygienic standard acoustic material line with glass tissue
- BMV...CP:** to check room or duct pressure
- BMV...I:** double casing (B+100 x H+100)
- BMV...A:** execution for return (price same as supply)
- BMV...R:** with micro-expanded mesh
- BMV... :** with fast actuator (on request)

### Box noise level with $\Delta p_{st} = 200$ Pa



### Box noise level with $\Delta p_{st} = 500$ Pa



All prices are list prices for local market, for a quotation please contact us.

### Price list

DN TYPE	BMV... B	BMV... HY B	BMV... I B	BMV... SM	BMV... HY SM	BMV... I SM	SA	SA-HY HOSP.
125	676	696	871	690	711	885	207	248
160	733	756	950	747	770	965	207	248
200	841	870	1116	855	885	1130	266	319
250	933	967	1257	947	981	1271	266	319
315	1050	1090	1429	1064	1105	1443	321	385
355	1157	1203	1614	1171	1217	1629	321	385
400	1276	1328	1793	1290	1342	1808	389	467

Execution in 304 stainless steel = x 2

Execution in 316 stainless steel = x 2.5

**N.B.:** when ordering, indicate the signal type 0-10 (0=min / 10=max) or 2-10 (2=min / 10=max) minimum and maximum volume control

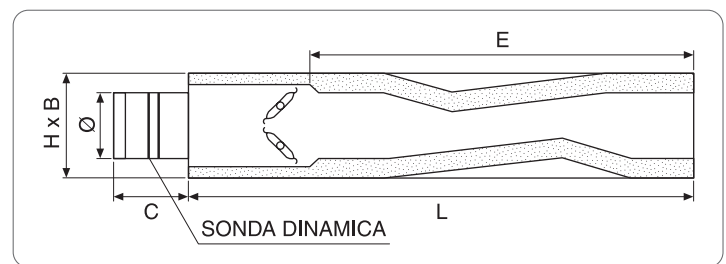
### Rapid selection

DN	Flow rate m <sup>3</sup> /h		$\Delta p_{st}$ min of operation Pa	
	max	min		
125	570	60	80	20
160	950	100	80	20
200	1530	150	80	20
250	2300	230	80	20
315	3650	360	80	20
355	4800	480	80	20
400	6300	630	80	20

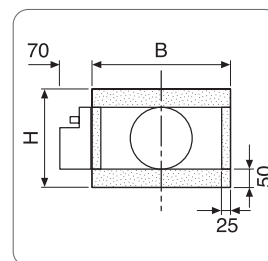
### BMV dimensions

$\emptyset$ (mm)	B (mm)	H (mm)	L (mm)	E (mm)	C (mm)
125	250	260	1200	920	150
160	350	260	1200	920	180
200	530	260	1400	1070	200
250	530	360	1500	1170	250
315	750	360	1500	1170	310
355	750	460	1800	1470	350
400	950	460	1800	1470	400

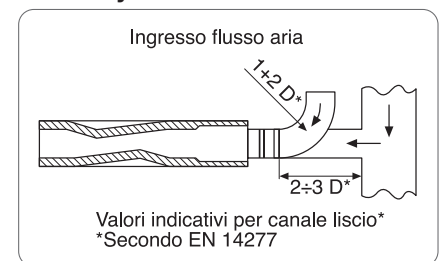
### BMV



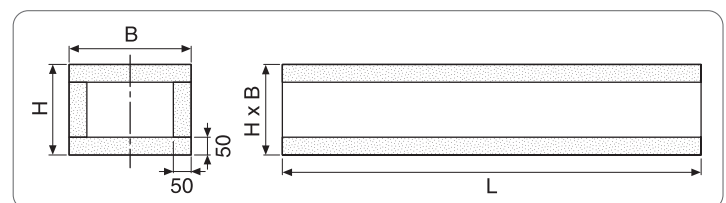
### BMV



### Assembly



### SA



### Additional sound attenuator

L = 900 up to GR 200

L = 1200 from GR 250

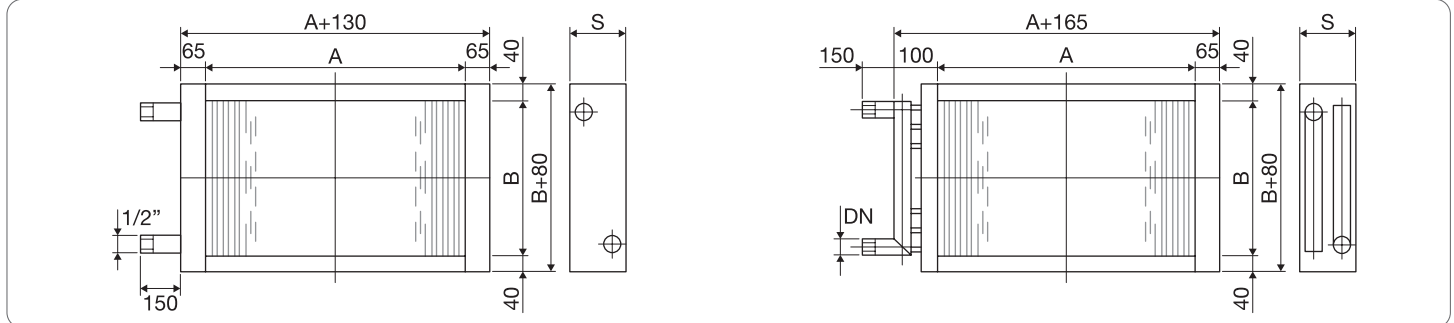
## POST HEATING COIL FOR VAV

### Description

#### Hot water coil

- casing in galvanised steel
- copper piping
- aluminium blades

### Dimensions



### Selection table and price list

All prices are list prices for local market, for a quotation please contact us.

Size VAV	40 % nominal			80 % nominal			Water flow rate (l/s)	Ti water (°C)	To water (°C)	Δp Water (kPa)	Power (kW)	Ø water	AxB (mm)	S (mm)	Dim. Outer flange	Type coil pitch	List price €
	Air flow rate (m³/h)	Air Ti (°C)	Air To (°C)	Δp 1 air (Pa)	Δp 2 air (Pa)	Air flow rate (m³/h)											
125	230	16	32	28	112	460	0.03	75	65	0.3	1.26	1/2"	200x160	130	330x240	P40 16 2R	365
			32	34	136		0.03	60	50	0.3	1.26	1/2"		130	330x240	P40 16 2R	294
			32	80	320		0.03	45	35	0.5	1.26	1/2"		220	330x240	P40 16 5R	489
160	380	16	32	23	92	760	0.05	75	65	0.5	2.08	1/2"	300x160	100	430x240	P40 16 1R	346
			32	40	160		0.05	60	50	0.8	2.08	1/2"		130	430x240	P40 16 2R	384
			32	77	308		0.05	45	35	1.3	2.08	1/2"		190	430x240	P40 16 4R	481
200	610	16	32	22	88	1230	0.08	75	65	1.3	3.34	1/2"	480x160	100	610x240	P40 16 1R	365
			32	34	136		0.08	60	50	2	3.34	1/2"		130	610x240	P40 16 2R	406
			32	78	312		0.08	45	35	3.5	3.34	1/2"		190	610x240	P40 16 4R	526
250	920	16	32	22	88	1850	0.12	75	65	4	5.03	1/2"	480x240	100	610x320	P60 16 2R	432
			32	27	108		0.12	60	50	5.6	5.03	1/2"		130	610x320	P60 16 3R	474
			32	51	204		0.12	45	35	8.7	5.03	1/2"		190	610x320	P60 16 5R	608
315	1460	16	32	25	100	2950	0.2	75	65	10.6	7.99	1/2"	700x240	100	830x320	P60 16 1R	485
			32	30	120		0.2	60	50	14.9	7.99	1/2"		130	830x320	P60 16 3R	533
			32	59	236		0.2	45	35	23.6	7.99	1/2"		190	830x320	P60 16 5R	702
355	1920	16	32	12	48	3850	0.26	75	65	30	10.5	1/2"	700x360	100	830x440	P60 16 2R	522
			32	18	72		0.26	60	50	30	10.5	1/2"		100	830x440	P60 16 2R	548
			32	48	192		0.26	45	35	30	10.5	1"		190	805x440	P60 16 5R	937
400	2520	16	32	17	68	5050	0.34	75	65	30	13.78	1"	900x360	100	1005x440	P60 16 2R	642
			32	19	76		0.34	60	50	30	13.78	1"		100	1005x440	P60 16 2R	657
			32	49	196		0.34	45	35	30	13.78	1"		190	1005x440	P60 16 5R	1038

#### Key:

Air Ti: air inlet temperature

Air To: air output temperature

Air Δp1: air side pressure drop at a flow rate of 40% of the nominal rate

Air Δp2: air side pressure drop at a flow rate of 80% of the nominal rate

Ti water: water inlet temperature

Water Tu: water outlet temperature

Power: power in kW

AxB: coil air passage

S: coil depth

## 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<sup>1</sup>/<sub>3</sub>:** 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