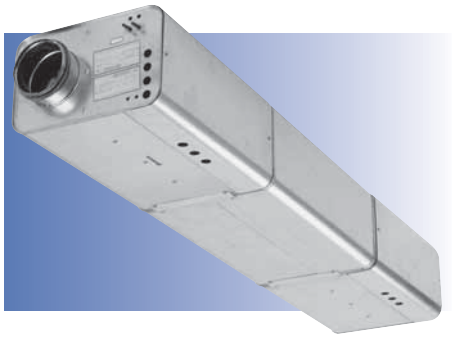


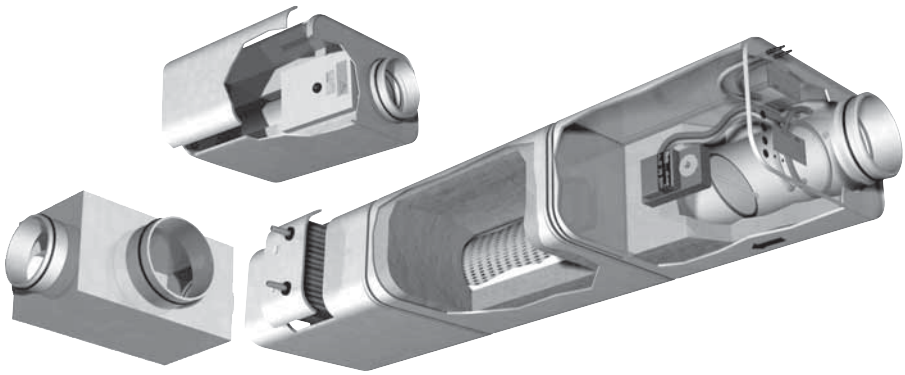
EMOS - EMOE

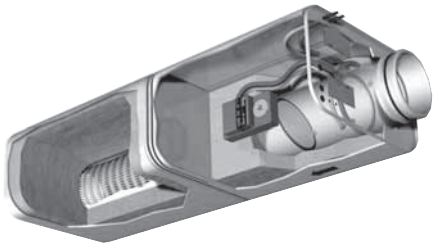
Flow variator for VAV systems

Product	EMOS	EMOE
Function	Supply air	Exhaust air
Construction material	Steel	Steel
Finishing	Galvanized	Galvanized

Flow variator EMO (S,E)

Terminal device for demand controlled control and control of the air flows in the supply air andor exhaust air system. The flow variator has a system for air flow measurement and a control damper which permits the connection of different types of control equipment to give a pressure independent air flow control within desired limits. All the control equipment is installed inside the apparatus casing and is accessible via an inspection hatch.
Manual measurement of the air flow can beperformed without disturbing the control circuit via a separate pressure outlet on the orifice plate of the flow variator.
All duct connections have spigot dimensions and are equipped with sealing rings made of rubber.

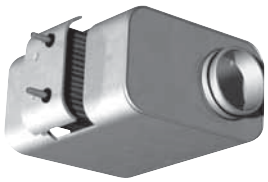




The control damper is made of galvanized sheet steel or alternatively acid resistant steel and with a sealing strip of EPDM rubber. Its shaft is mounted in maintenance free nylon bearings. The flow variator is supplied with an asymmetric sound attenuator, which can be selected in two different lengths. The internal surface of the sound attenuator is protected from fibre transference with fabric woven from staple fibres and perforated sheet metal. Reheaters with an electric or water coil, are supplied as installed accessories. The flow variator is insulated internally with mineral wool of at least 25 mm in thickness and with a density of at least di 60 kg/m^3.

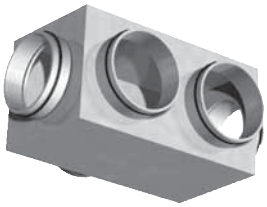
Water reheater EMOZ -13

The water battery consists of copper tubes and aluminium fins. The maximum working pressure is 1.0 MPa, and the maximum water temperature is 100 °C.
The battery is pressure tested at 2.1 MPa.



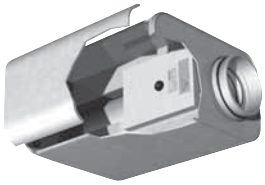
Multi outlet box EMOZ -14

The multi outlet box is not insulated internally and has four air outlets.
All duct connections are equipped with sealing rings made of rubber.



Electric reheater EMOZ -12

Electrical heating elements are installed in the air duct. Two over heating cut out switches, one with automatic (60°C) and one with manual (120 °C) resetting, interrupt the power supply to the heating elements if the risk of overheating is present.
Heaters are provided for single-phase, two-phase and three-phase current and in a number of power variants.

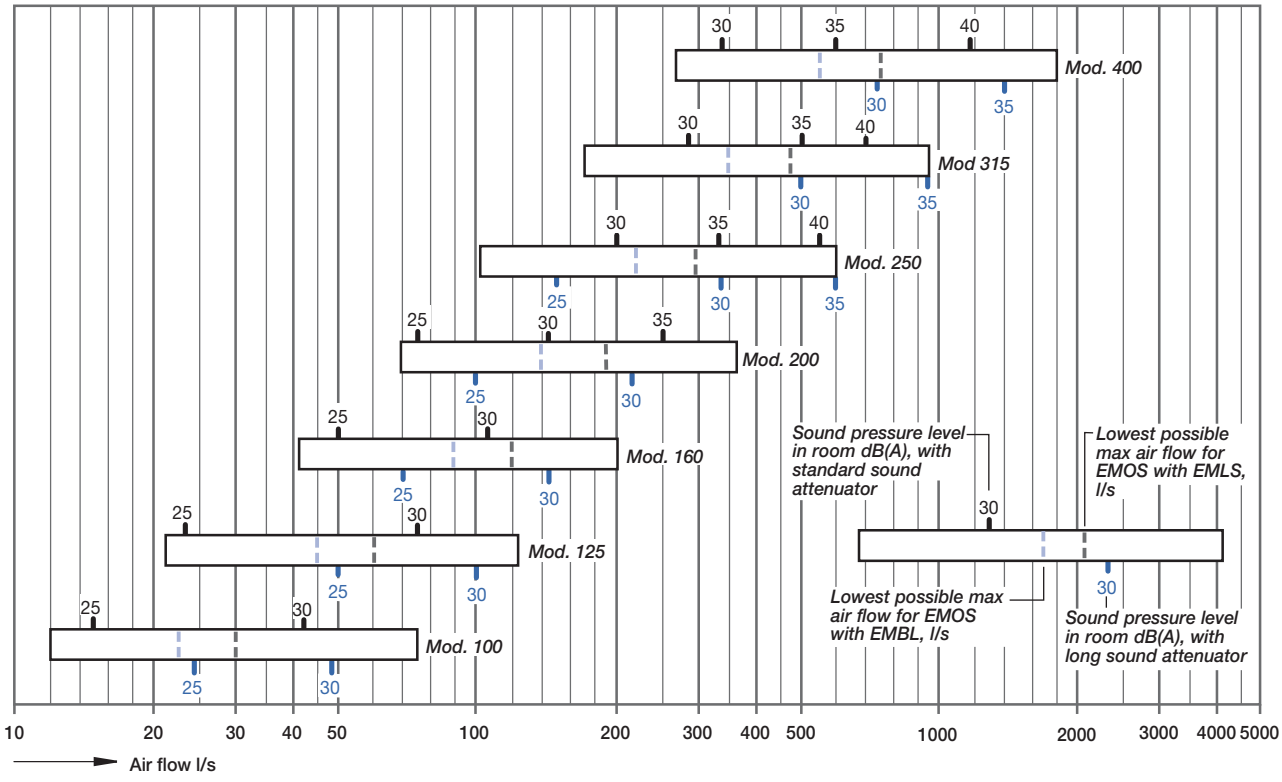


EMOS EMOE

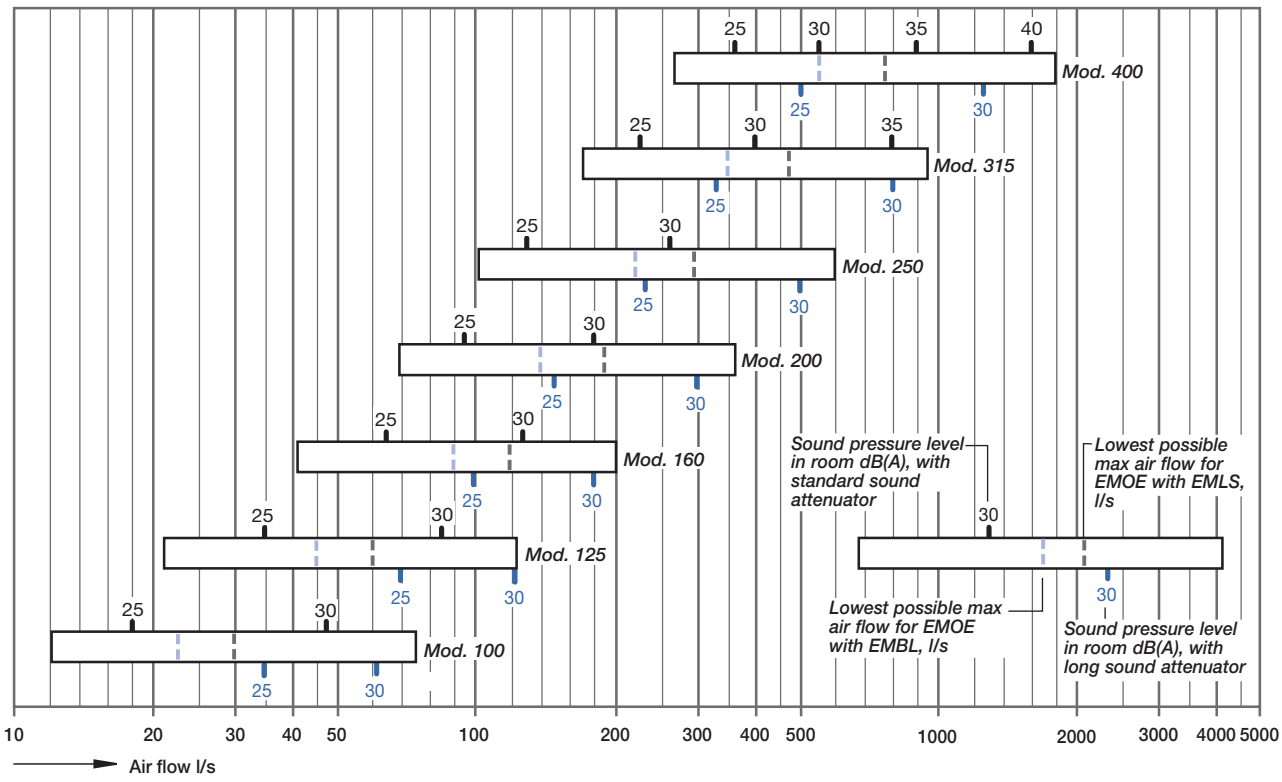
flow variator for VAV systems

Quick selection

EMOS flow variator for supply air



EMOE flow variator for exhaust air

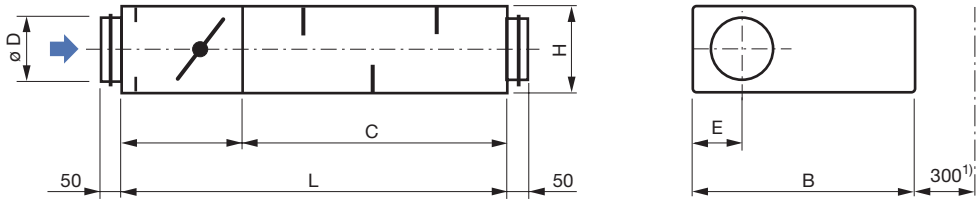


Noise levels are referred to a pressure differential of 250Pa

EMOS EMOE

flow variator for VAV systems

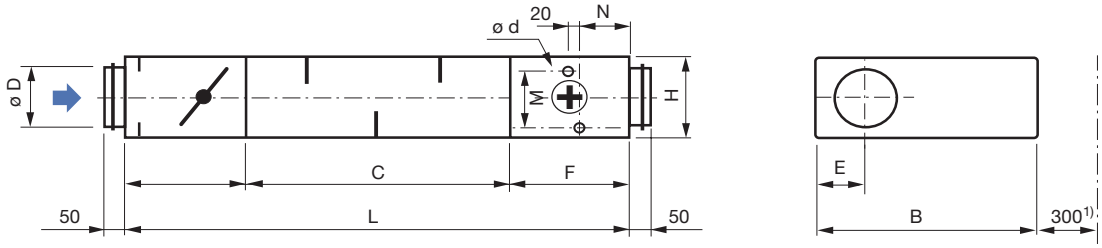
Size



1) Free space for inspection and service

Size	Dimensions (mm)									Weight	
		with sound attenuator					with sound attenuator			with sound attenuator	
	ø D	L		B	H	A	C		E	kg	
		standard	long				standard	long		standard	long
100	99	1000	1300	310	230	500	500	800	80	9	12
125	124	1100	1400	360	230	500	600	900	95	12	17
160	159	1200	1500	410	230	500	700	1000	110	16	21
200	199	1300	1650	460	270	500	800	1150	130	24	32
250	249	1400	1800	510	320	500	900	1300	155	32	48
315	314	1500	2000	560	380	600	900	1400	190	53	71
400	399	1600	2200	610	470	600	1000	1600	230	78	98

Flow variator with sound attenuator and water reheater



1) Free space for inspection and service

Size	Dimensions (mm)													Weight	
		with sound attenuator					with sound attenuator							with sound attenuator	
	ø D	L		B	H	A	C		F	E	ø d	M	N	kg	
		standard	long				standard	long						standard	long
100	99	1500	1800	310	230	500	500	800	500	80	15	150	260	14	17
125	124	1600	1900	360	230	500	600	900	500	95	15	150	260	19	24
160	159	1700	2000	410	230	500	700	1000	500	110	15	150	260	23	28
200	199	1800	2150	460	270	500	800	1150	500	130	15	183	260	34	42
250	249	1900	2300	510	320	500	900	1300	500	155	15	217	260	45	61
315	314	2000*	2500*	560	380	600	900	1400	500	190	22	283	310	72	90
400	399	2100*	2700*	610	470	600	1000	1600	500	230	22	383	310	102	124

** with electric reheater + 100 mm*

How to order

EMOS - EMOE flow variator for VAV systems

Product code

E	M	O	a	b	b	b	c

Flow variator with standard sound attenuator

supply air **S**
exhaust air **E**

Size:
100, 125, 160, 200, 250, 315, 400

Material
corrosivity class C 3 (environmental class M2), **1**
galvanized steel sheet
corrosivity class C 4 (environmental class M3), **2**
applies to parts in contact with the ventilation air

Ordering example

Flow variator supply air with standard sound attenuator	EMOS - 160 - 1
Reheater, water, fitted	EMOZ - 13 - 160 - 2 - 1
Multi outlet box	EMOZ - 14 - 160 - 125

Plus code

E	M	O	Z	1	1	a	a	a	b

Sound attenuator, long

Size:
100, 125, 160, 200, 250, 315, 400

Material
corrosivity class C 3 (environmental class M2), **1**
galvanized steel sheet
corrosivity class C 4 (environmental class M3), **2**
applies to parts in contact with the ventilation air

E	M	O	Z	1	3	a	a	a	b	c

Reheater, water
only corrosivity class 3
(environmental class M 2)

Size:
100, 125, 160, 200, 250, 315, 400

Battery depth:
1 pipe row **1**
2 pipe rows **2**

Insulation:
uninsulated **1**
insulated **2**

E	M	O	Z	1	2	a	a	a	b	c	d

Reheater, electrical
casing uninsulated.
Corrosivity class C3
(environmental M2)

Size:
100, 125, 160, 200, 250, 315, 400

Voltage:
1-phase, 230 V **1**
2-phase, 400 V **2**
3-phase, 400 V **3**

Output variant:
1 - 3 (see table below)

Size	Voltage	*Output variant (kW)* 1	2	3
100	1-ph 230 V	0,4		
125	1-ph 230 V	0,6	1,2	
160	1-ph 230 V	0,6	1,2	2,1
200	1-ph 230 V	1,2	2,1	3,0
250	1-ph 230 V	2,1	3,0	
315	1-ph 230 V	3,0		
200	2-ph 400 V	3,0		
250	2-ph 400 V	3,0		
315	2-ph 400 V	3,0		
200	3-ph 400 V	3,0		
250	3-ph 400 V	3,0	6,0	
315	3-ph 400 V	3,0	6,0	
400	3-ph 400 V	6,0	9,0	12,0

Thyristor:
without **0**
with **1**

E	M	O	Z	1	4	a	a	a	b	b	b

Multi outlet box
uninsulated with four air outlets.
Supplied loose, not installed.
Only corrosivity C3
(environmental M2)

Unit size [1] **- outlet diameters:**
125 - 100, 125 - 125, 160 - 125,
160 - 160, 200 - 160, 200 - 200,
250 - 200, 250 - 250, 315 - 250,
315 - 315, 400 - 315, 400 - 400.
1) inlet diameter

EMOZ - 18
Suspension lugs
Sets of 4