



Fan casing - 25 mm isolation, EC motor, safety switch and potentiometer type MVBL EC

Double skinned ventilation box with EC fan

Application

- The MVBL EC range consists of 6 sizes and 6 types and covers an air flow range from 500 up to 12.000 m³/h.
- Use for ventilation of buildings requesting medium to high air flow
- Can be used for air intake as well as exhaust
- Designed to meet the highest standards in thermal and acoustic insulation

Composition

- Structure with aluminum profiles
- Corners in reinforced polyamiden
- Removable and exchangeable panels
- Outer layer: prelacquered steel plate (RAL 7035) with protection sheet
- Insulation: high-quality glass wool (60 kg/m³) 25 mm with fire class A2-s1,d0 (M0)
- Inside: galvanized steel plate
- Built-in nuts for fastening on floor, wall or ceiling
- Round connections with lip seals
- Switch IP55 and potentiometer IP65 mounted at frontside of the panel
- Versions DIVA, LOBBY and MAC2 are equipped with a switch box IP55 with switch, as well as class of protection IP55
- Possibility to connect a manual remote control on/out or a clock
- The standard configuration of this deze fan casing is with horizontal suction and discharge (type HH) - other configurarions available on demand

Fan

- Direct driven EC current motor with electronic commutation (EC) with high efficiency, thermal protection IP44/F and integrated speed control
- The EC technology has brought together high efficient DC motors with low energetic consumption for the management, control and the supervision of the duty point (regulation of the air volume from 10 up to 100%)
- Low noise level for a better acoustic comfort
- Fan-motor mounted on vibration dampers

Options

- **MVBL EC DIVA:** Proportional modulation of air flow (between a set min. and max. flow) of each fan based on a built-in CO₂ measurement. CO₂ amount (ppm) can be regulated.
- **MVBL EC LOBBY:** constant pressure modulation of the air flow with an integrated transmitter
- **MVBL EC MAC2:** modulation for 1 or 2 constant air flows

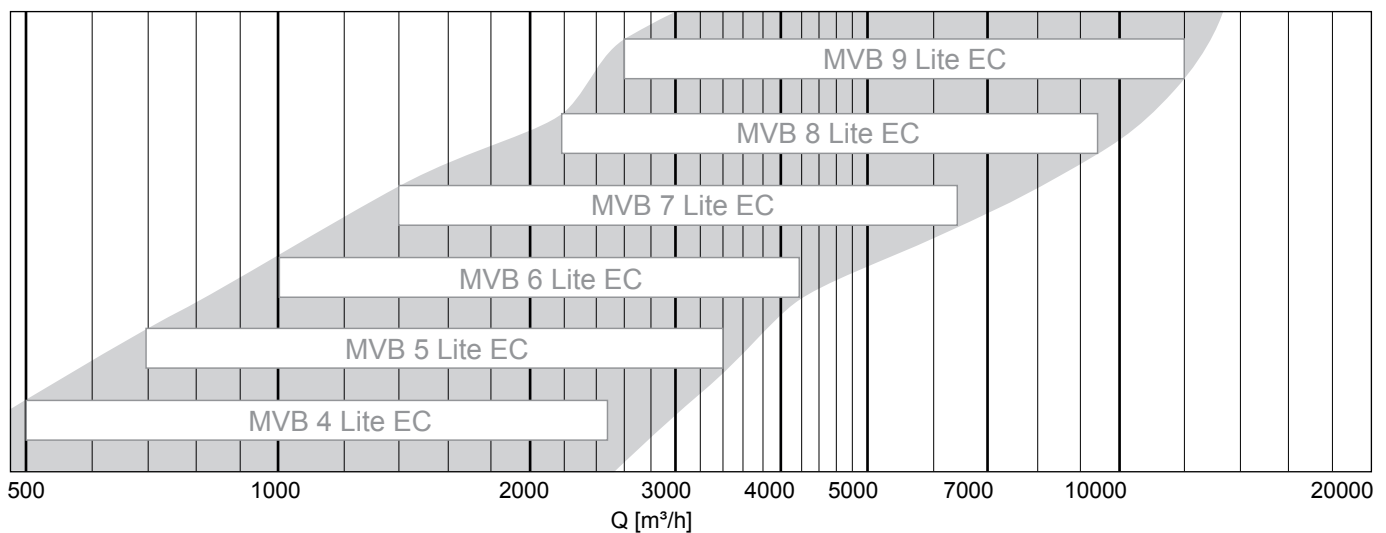
Accessories

- Roof **MXV-TCB** for outside use
- Canopy with guard **MXV-AGC**
- Damper to be motorised **MXV-RM**
- Flexible connectors **MTS**
- Filterbox **MXV-PF-M5** or **MXV-PF-F7**
- Electrical heating module **MXV-BE**
- Hot water heating module **MXV-BC**
- Chilled water module **MXV-BF**
- Direct expansion coil module **MXV-DX**
- VAV-boxes, type **VAV-CS**, **VAV-B** and **VAV-RS**
- External displays, type **E3-DSP** (only with MAC2 version)

Order example

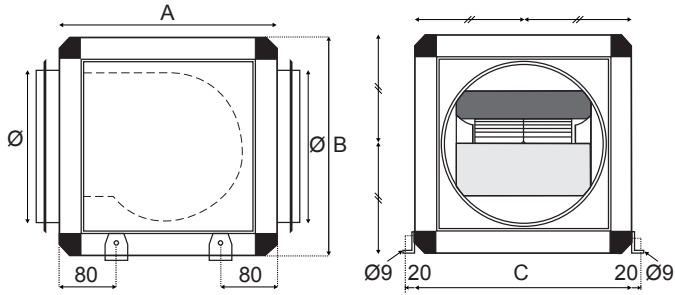
- **MVBL EC 5**
MVBL EC: type of fan

Air performance data										
	Q [m ³ /h]									
	100Pa	200Pa	300Pa	400Pa	500Pa	600Pa	700Pa	800Pa	900Pa	1000Pa
MVBL EC 4	2400	2400	2400	2500	2000	-	-	-	-	-
MVBL EC 5	-	3280	3150	3035	2890	2730	2500	-	-	-
MVBL EC 6	-	4170	4000	3750	3480	2825	2000	-	-	-
MVBL EC 7	-	5500	5330	5115	4860	4500	4000	3750	2910	-
MVBL EC 8	-	9425	8900	8380	7810	7235	6520	5660	4000	-
MVBL EC 9	11375	10705	9880	9000	8175	7230	5990	-	-	-

Selection curves

Technical data								
	U [V]	P [W]	I [A]	T _m [°C]	T _o [°C]	L _{wa} 5 [dB(A)]	L _{pa} @4m [dB(A)]	IP
MVBL EC 4	1 x 230	1070	4.3	40	-25	83	66	IP44 / F
MVBL EC 5	1 x 230	1040	4.5	40	-25	84	67	IP44 / F
MVBL EC 6	1 x 230	1030	4.4	40	-20	85	70	IP44 / F
MVBL EC 7	1 x 230	1790	7.5	40	-20	87	72	IP44 / F
MVBL EC 8	1 x 230	2310	10	40	-20	84	69	IP44 / F
MVBL EC 9	1 x 230	2110	8.8	40	-20	72	57	IP44 / F

- T_m = Maximum air temperature
- T_o = Minimum operating temperature
- L_{wa} 5 = Sound power level @inlet
- L_{pa} = Sound pressure level



	Dimensions				
	A [mm]	B [mm]	C [mm]	Ø [mm]	[kg]
MVBL EC 4	445	445	445	315	37
MVBL EC 5	545	545	545	400	52
MVBL EC 6	645	645	645	450	72
MVBL EC 7	745	745	745	500	95
MVBL EC 8	845	845	970	630	129
MVBL EC 9	945	945	1170	800	166

Configurations

