



APPLICATION

The VRE / MB fan is a compact mobile small-size fan of plastic material. It has been developed especially for the universal ventilation (aeration and deaeration) of small and medium-size workplaces.

Low weight, small size and low power consumption qualify the fan for mobile use in workshops and laboratories and building sites as well.

Workplace environment can be improved at very favourable cost by exhausting through flexible hoses directly from the source of harmful substances.

The use of plastic materials leads to excellent chemical resistivity.

Examples of use

- Exhausting from mobile workplaces
- Workplace ventilation during soldering, gluing, varnishing and similar work
- Ventilation of tanks and containers such as for inspection work
- Drying processes in rooms and stores

DESIGN FEATURES

- welded impeller with 8 vanes curved backward, optionally of PVC or PPs
- spiral casing optionally of PVC or PPs, with elastic connections and protective grating
- light-weight stable steel tube frame with plastic sliding elements
- vibration-damped fan suspension in the frame
- motor outside the flow conveyed
- mains connection by collar-type switch-plug combination with integrated switch fastened directly on the motor (explosion-proof versions are connected to the explosion-proof safety switch or directly to the motor terminal box)

CONDITION OF USE

permissible ambient temperature: -30 °C ... 40 °C (EX motors -20 °C ... 40 °C)

permissible temperature of medium conveyed: -30 °C ... 40 °C

Higher temperatures depend on the design size, material, and speed rate and are subject to consultation with the manufacturers.

The applied materials have good **chemical resistance** against many substances. It should be considered, however, that even plastic materials are attacked by certain chemicals.

In laboratories and stockrooms for chemicals PPs can be used without any problem in most cases. Critical applications may occur in the process-technological industry - surface refinement, pickling plants, process exhaust air in microelectronics.

For selection of suitable materials the purpose of use of the fan and the type of medium conveyed should be specified in requests or orders.

EXPLOSION PROTECTION

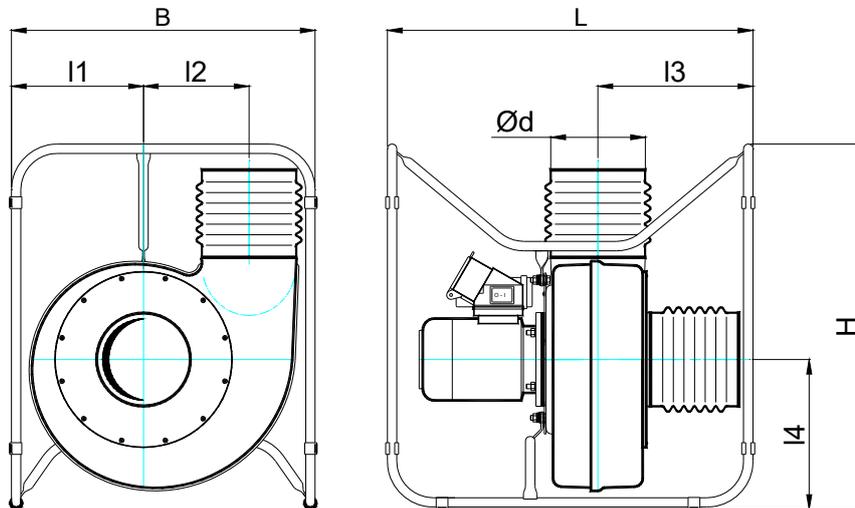


Fans VRE / MB are also available with explosion protection. This fans meet the demands of ATEX and safety instructions according to DIN EN 14986 and DIN EN ISO 80079. Motors in Ex eb II are employed and thus the following ignition protections are possible:

Zone 1 (inside and outside): II 2G Ex h IIB+H2 T3 Gb

Zone 2 (inside and outside): II 3G Ex h IIB+H2 T3 Gc

PRINCIPAL DIMENSIONS (measures in mm)



fan size	Ø d	B	L	H	I1	I2	I3	I4
VRE 100 / MB	110	356	426	426	158	119	170	178
VRE 160 / MB	160	515	620	620	224	179	263	252

MOTOR VERSIONS for single-phase motor 1~230V/50Hz

(Data for other motors, such as three-phase, polechanging or Ex, upon inquiry.)

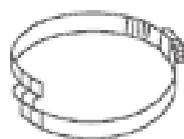
fan type	speed rpm	volumetric flow m ³ /h with a hose length of			power required kW	nom. motor power kW	nom. motor current 1) A	weight with motor kg	2) L _{A3m} dB(A)
		3m	6m	12m					
VRE 100/MB W1450	1450	180	155	125	0,0045	0,12	0,73	9,5	45
VRE 100/MB W2900	2900	350	310	250	0,035	0,18	0,88	10	51
VRE 160/MB W 950	950	550	450	400	0,014	0,09	0,76	17	39
VRE 100/MB W1450	1450	800	700	600	0,045	0,12	0,87	17	44
VRE 100/MB W2800	2900	1600	1400	1200	0,31	0,37	2,70	19	60

- 1) The rated current can deviate slightly.
- 2) L_{A3m} = A - weighted sound pressure level at distance of 3 m

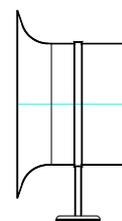
ACCESSORIES



flexible plastic hoses with stable shape
(see mietzsch.de/pdf/w_llt_rund.pdf)



spiral hose clamp



intake nozzle
(also with magnetic holder)