

DM3/100
INDUSTRIAL VACUUM CLEANER FOR DUST, LIQUID AND SOLID
MATERIAL

Voltage	Volts Hertz	230 (110) 50/60
By-pass motors	N.	3 (single phase)
Power	KW HP	3,4 4,6
Max Vacuum Rate*	mm.H2O	2300
Max Air Flow**	M3/h	600
Filter Surface	cm2	20000
Standard filter efficiency	CAT BIA Micron	L/G 3
Air load on filter	M3/m2/h	300
Capacity	Lt.	100
Suction inlet	Ø mm	80
Noise level	dB	78
Insulation	Cl	1

* Measured with fully closed suction inlet

** Measured with fully open suction inlet

Suction Unit

The suction is provided by three by-pass motors, using carbon brushes, operated by independent switches and placed inside a sturdy steel casing. The motor head is filled with noise reducing material, in order to limit as much as possible the level of noise, and designed in order to convey the exhaust air towards the ground, so as not to bother the user and not to raise possible dust in the neighbouring area. The control board includes the three independent switches and a vacuum indicator, useful to detect possible clogging of the filter. Two handles placed on the sides enable an easy lifting and removal of the motor head, for possible inspection or replacement of the underlying filter.

Filter

The filter is placed and protected inside the steel filter chamber; the filter is made of polyester, tailored with pockets in order to increase the filter surface (20.000 cm2), and has a high filtration efficiency (3 micron). A manual filter shaker enables the user to clean the filter efficiently, by a vertical shaking movement, so as to detach most of the dust and maintain the filter clean, in order to increase its life and maintain the suction performance of the machine. The frontal aluminium die-cast suction inlet (Ø80 mm. diameter), placed below the filter, makes it possible to vacuum at the same time dust, solid and liquid material (the latter only within the capacity of the container), with no need to change or take out the filter

Unit



Collection unit

The vacuumed material is placed inside a drop-down bin mounted on wheels (100 litres capacity), which makes it possible to dispose easily and safely of the sucked material, if need be collecting it directly into a plastic bag.

The vacuum is mounted on a sturdy steel chassis with two pivoting wheels, one of which with brakes; all metal parts of the vacuum are epoxy painted

Options:*

Application	Code	Description
Dust in big quantities	ELF	Extra large surface pocket filter (30.000 cm2)
Fine dust in big quantities	ELF/C	Extra large surface pocket filter (30.000 cm2) with 1 micron efficiency, with TÜV conformità certificate for the suction of dust classified as "M" (fine dust)
Sticky dust and material	TEFLON	Teflon treated pocket filter (reduces the adherence of the dust on the filter)
High temperature dust and material	NOMEX	Nomex flame proof filter, resistano up to 250 ° C temperatures
Very fine dust	A	Absolute filter (BIA certified) with 99,999% efficiency on dust as small as 0,3 micron
Dust and material subject to accumulate static electricity	ANT	Antistatic pocket filter
Fine dust subject to accumulate static electricity	ANT/C	Antistatic pocket filter, 1 micron efficiency
Very fine and / or toxic dust (certificate TÜV)	TUV H	1 micron pocket filter, absolute filter (BIA certified) with 99,999% efficiency on dust as small as 0,3 micron, TÜV certificate for the suction of very fine and toxic dust of class "H".
Fine dust (certificate TÜV)	TUV M	1 micron pocket filter, pressure relief valve, TÜV certificate for the suction of fine dust of class "M"
Corrosive dust and material	X	Stainless steel container AISI304
Corrosive dust and material	XX	Stainless steel container and filter chamber AISI304

* Different combinations of the above options are possible (e.g. ACX , vacuum with Absolute filter, 1 micron pocket filter and stainless steel container)