

## INDUSTRIAL VACUUM CLEANER FOR DUST, LIQUID AND SOLID MATERIAL



MODEL		DM3
Voltage	Volt	230 (opt. 110)
	HZ	single phase 50-60
By-pass motors	N.	3
Power	KW	3,4
	HP	4,6
Max. Vacuum rate*	mm.H <sub>2</sub> O	2.500
Max. Air flow rate**	M <sup>3</sup> /h	540
Filter surface (star filter)	Cm <sup>2</sup>	20.000
Filter efficiency	CAT (BIA) /	L
	micron	> 3
Air load on filter	M <sup>3</sup> /M <sup>2</sup> /h	270
Bin collection capacity	Lt.	75 (opt. 100)
Suction inlet	∅	80
Noise level	dB(A)	76
Isolation	CL	1
Dimensions	cm.	80 x 65
Height	cm.	146
Weight	Kg.	70

\* 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 with warning light**, 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 unit

The filter is placed and protected inside the steel filter chamber; the **filter is made of polyester**, tailored with **stars in order to increase the filter surface (20.000 cm<sup>2</sup>)**, 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 (∅80 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**

### Collection unit

The vacuumed material is placed inside a **drop-down bin mounted on wheels** (75 litres capacity, optional 100 lt.), 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, and includes a basket for accessories; **all metal parts of the vacuum are epoxy painted**.



## Options\*

Application	Code	Description
Dust in big quantities	ELF	Extra large surface star filter ( 30.000 cm <sup>2</sup> )
Sticky dust and material	PTFE	PTFE treated star filter (reduces the adherence of the dust on the filter), class M
High temperature dust and material	NOMEX	Nomex flame proof filter, resistant up to 250° C temperatures
Dust and material subject to accumulate static electricity	ANT	Antistatic star filter
Fine dust subject to accumulate static electricity	ANT/C	Antistatic star filter, 1 micron efficiency
Fine dust	C	Pocket filter, 1 micron efficiency
Very fine dust	A	Absolute HEPA filter (BIA certified) with efficiency 99,995% particle size 0,18 µm standard EN 1822
Very fine and / or toxic dust	AC (CAT. H)	1 micron star filter, additional absolute HEPA filter (BIA certified) with efficiency 99,995% particle size 0,18 µm standard EN 1822, certificate for the suction of very fine and toxic dust of class "H"
Corrosive dust and material	X	Stainless steel container AISI304
Corrosive dust and material	XX	Stainless steel container and filter chamber AISI304
Big quantities of liquid	FLOTTEUR	Floating device to stop the suction when container is full
Dust and material subject to accumulate static electricity	MT	Total electrical grounding of all metal parts

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