



## Mod. D/M3 100 AIR



### AIR OPERATED WET AND DRY INDUSTRIAL VACUUM



MODEL		DM3 100 AIR
Suction unit	Type	Venturi
Operating pressure	Bar	6
Air supply required	M <sup>3</sup> /h	150
Max. Vacuum rate*	mm. H <sub>2</sub> O	5000
Max. Air flow rate**	M <sup>3</sup> /h	300
Filter type	Star	Polyester
Filter surface	Cm <sup>2</sup>	30.000
Filter efficiency	CAT (BIA) / micron	L >3
Air load on filter	M <sup>3</sup> /M <sup>2</sup> /h	100
Bin collection capacity	Lt.	100
Suction inlet	Ø	80
Noise level	dB(A)	75
Dimensions	cm.	62 x 62
Height	cm.	160
Weight	Kg.	80

\* Measured with fully closed suction inlet, calculated at a constant pressure of 6 Bars measured on the vacuum's pressure gauge

\*\* Measured with fully open suction inlet, calculated at a constant pressure of 6 Bars measured on the vacuum's pressure gauge

#### Suction unit

The vacuum cleaner DM3 AIR is a compressed air vacuum cleaner powered by two powerful Venturi suction units, (using no electric or mechanical components), placed inside a sturdy steel casing, and thus protected against any external damage; special noise buffers reduce the noise within the safety standards of work and the exhausted air is conveyed towards the ground, so as not to bother the user and not to raise possible dust in the neighbouring area. The control board includes an air pressure gauge (to check the pressure of the incoming air supply) and vacuum indicator, useful to detect possible clogging of the filter. Two handles placed on the sides enable an easy lifting and removal of the suction head, for possible inspection or replacement of the underlying filter.

#### Filter unit

The filter is placed and protected inside the steel filter chamber; the **polyester star filter provides a filter surface of 30.000 cm<sup>2</sup>**, and high **filtration efficiency (class L, 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, unless the machine is provided with floating systems), 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 (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. A compressor (not included) is needed to operate the vacuum.



## Options\*

Application	Code	Description
Sticky dust and material	PTFE	PTFE treated star filter (reduces the adherence of the dust on the filter), 1 micron efficiency
High temperature dust and material	NOMEX	Nomex flame proof filter, resistano 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
Dust and material subject to accumulate static electricity	MT	Grounding of metal parts in order to make them electrically conductive
Very fine dust	A	Absolute filter (BIA certified) with Efficiency 99,995% particle size 0,18 µm standard EN 1822
Fine dust	C / TUV M	1 micron star filter, certificate for the suction of fine dust of class "M"
Very fine and / or toxic dust	TUV H	1 micron star filter, absolute filter (BIA certified) with 99,999% efficiency on dust as small as 0,3 micron, safety disposal system 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
Highly corrosive dust and material, corrosive vapours	XXX	Complete AISI304 stainless steel construction, including chassis, most internal metal parts, container and filter chamber

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