

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



MODEL		DM30 ECO
Tension	Volts HZ	230 / 1phase 50 / 60
Power	KW / Hp	2,2 / 3
Max. Vacuum rate*	mm.H <sub>2</sub> O	3000
Max. Air flow rate**	M <sup>3</sup> /h	300
Filter surface (pocket filter)	Cm <sup>2</sup>	20.000
Filter efficiency	CAT BIA Micron	L / G > 3
Air load on filter	M <sup>3</sup> /M <sup>2</sup> /h	150
Capacity	Lt.	50
Suction inlet	Ø	80
Noise level	Db(A)	74
Protection	IP	55
Isolation	CL	F
Dimensions	cm.	58 x 60
Height	cm.	140
Weight	Kg.	80

\* Measured with fully closed suction inlet

\*\* Measured with fully open suction inlet

### Suction unit

The suction is provided by a **suction unit of the side channel blower type**, with **direct coupling** between the fan and the motor shaft and **no transmission system**. It is thus **completely maintenance free, fit for round-the-clock 24 hours duty, very silent** and provides **outstanding suction performances**; a **pressure relief valve protects the motor from overheating** in case of clogging of the filter or continuous duty at high depression.

### Filter unit

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 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 (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**.

### Collection unit

The vacuumed material is placed inside a **drop-down bin mounted on wheels (50 litres capacity)**, which makes it possible to **dispose easily and safely of the sucked material**, that can be collecting 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 cm <sup>2</sup> )
Fine dust	C	Pocket filter with 1 micron efficiency
Fine dust in big quantities	ELF /C	Extra large surface pocket filter (30.000 cm <sup>2</sup> ) with 1 micron efficiency, with TÜV conformità certificate for the suction of dust classified as “M” (fine dust)
Sticky dust and material	PTFE	PTFE 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
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 dust	A	Absolute filter (BIA certified) with 99,999% efficiency on dust as small as 0,3 micron
Fine dust (certificate TÜV)	TUV M	1 micron pocket filter, pressure relief valve, TÜV certificate for the suction of fine dust of class “M”
Fine explosive dust (certificate TÜV)	TUV M B1	1 micron pocket filter, pressure relief valve, electrical grounding, TÜV certificate for the suction of fine dust of class “M” and explosive dust B1 – Zone 22
Very fine and / or toxic dust (certificate TÜV)	TUV H	1 micron pocket filter, pressure relief valve, 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”.
Very fine and / or toxic dust (certificate TÜV)	TUV H/B1	1 micron pocket filter, pressure relief valve, electrical grounding, 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” and explosive dust B1 Zone 22
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)