

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



| MODEL                        |                                   | DM3                   |
|------------------------------|-----------------------------------|-----------------------|
| Voltage                      | Volt                              | 230 (opt. 110)        |
|                              | HZ                                | single phase<br>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   |
| Fine dust  | 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, 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)**