

INDUSTRIAL VACUUM CLEANER FOR DUST, LIQUID AND SOLID MATERIAL



| MODEL | | DG 150 |
|--------------------------------|-----------------------------------|-------------------|
| Tension | Volts HZ | 400 /690 50/60 |
| Power | KW / Hp | 12,5 / 18 |
| Max. Vacuum rate* | mm.H ₂ O | 4200 |
| Max. Air flow rate** | M ³ /h | 1100 |
| Filter surface (pocket filter) | Cm ² | 49.000 |
| Filter efficiency | CAT BIA Micron | G 3 |
| Air load on filter | M ³ /M ² /h | 224 |
| Capacity | Lt. | 100 |
| Suction inlet | Ø | 80 |
| Noise level | Db(A) | 76 |
| Protection | IP | 65 |
| Insulation | CL | F |
| Dimensions | cm. | 77 x 140 |
| Height | cm. | 180 |
| Weight | | 250 |

* 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**, manufactured in **Germany by Siemens**, 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 **safety thermic switch cuts off the motor in case of overheating**. The **control board** is placed inside a metal casing, in a safe position at the back, and include **two independent ON and OFF switches (protection IP65)**, a safety **emergency stop button** and a **soft start device**. A safety **absolute filter**, placed between the motor and the main filter, **protects the motor from contact with dust** in case of dust accidentally passing through the main filter; a **vacuum indicator** enables **constant checking of the suction performance**, and **detecting possible clogging of the filter**. 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 (49.000 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 tangential **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**. A **cyclone welded inside the filter chamber** conveys most of the dust directly in the container, and protects the filter from cutting or tearing.

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 |
|---|-----------|---|
| Fine dust | C | Pocket filter, 1 micron efficiency |
| 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 |
| 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 zone 22 (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 and explosive dust zone 22 (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 |
| Explosive dust | ATEX 22 | Explosion proof conformity according to European ATEX standards, for zone 22 (rare presence of explosive dust) |
| Explosive dust | ATEX 21 | Explosion proof conformity according to European ATEX standards, for zone 21 (frequent presence of explosive dust) |
| Big quantities of fine dust | PNEUMATIC | 4 cartridge filters with pneumatic automatic filter cleaning |
| Big quantities of liquid | FLOTTEUR | Floating device to stop the suction when container is full |
| 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 co)