

## Mod. D/G100

### INDUSTRIAL HEAVY DUTY WET & DRY VACUUM CLEANER



MODEL		DG 100
Voltage	Volts HZ	400 3~ 50/60
Power	KW / Hp	7,5 / 10
Max. Vacuum rate	mm.H <sub>2</sub> O	4500
Max. vacuum rate – continuous duty	mm.H <sub>2</sub> O	2700
Max. Air flow rate	M <sup>3</sup> /h	800
Filter surface (pocket filter)	Cm <sup>2</sup>	49.000
Filter efficiency	CAT BIA Micron	L > 3
Air load on filter	M <sup>3</sup> /M <sup>2</sup> /h	163
Capacity	Lt.	100
Suction inlet	∅	80
Noise level	Db(A)	74
Protection	IP	55
Dimensions	cm.	63 x 123
Height	cm.	170
Weight		200

#### Suction unit

The suction is provided by a **suction unit of the side channel blower type**, manufactured in **Germany by Rietschle**, 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 casing, in a safe position at the back, and includes **two independent ON and OFF switches (protection IP55)**, a **safety emergency stop button** and a **soft start device, to reduce the amp drawing when starting the motor**. A **safety cartridge 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 other blockings in the suction system; a **diffuser filter** reduces the speed and noise of the air on the exhaust outlet.

#### Filter unit

The filter is placed and protected inside the steel filter chamber; ; the **polyester star filter** provides a **filter surface of 49.000 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 tangential **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**. 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
Dust in big quantities	ELF	Extra large surface star filter ( 70.000 cm <sup>2</sup> )
Fine dust in big quantities	ELF /C	Extra large surface star filter (70.000 cm <sup>2</sup> ) with 1 micron efficiency, with conformity certificate for the suction of dust classified as "M" (fine dust)
Fine dust	C	Pocket filter, 1 micron efficiency, class M
Sticky dust and material	PTFE	PTFE treated pocket filter (reduces the adherence of the dust on the filter), class M
High temperature dust and material	NOMEX	Nomex flameproof and heat resistant filter
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, class M
Dust and material subject to accumulate static electricity	MT	Total electrical grounding of metal parts
Very fine dust	A	Absolute filter (BIA certified) with Efficiency 99,995% particle size 0,18 µm standard EN 1822, class H
Very fine and / or toxic dust	A/C (CLASS H)	1 micron pocket filter, absolute HEPA filter (BIA certified) with efficiency 99,995% particle size 0,18 µm standard EN 1822, for the suction of very fine and toxic dust of class "H".
Big quantities of fine dust	PNEUMATIC	4 cartridge filters with pneumatic automatic filter cleaning , class M
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
Highly Corrosive vapours, dust and material	XXX	Complete stainless steel construction, including chassis and most internal metal parts, 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)