

INDUSTRIAL VACUUM CLEANER FOR DUST, LIQUID AND SOLID MATERIAL



MODEL		DG 2
Tension	Volts HZ	230/400 50/60
Power	KW / Hp	5,5 / 7,5
Max. Vacuum rate*	mm.H ₂ O	5000
Max. Air flow rate**	M ³ /h	600
Filter surface (pocket filter)	Cm ²	30.000
Filter efficiency	CAT BIA Micron	G 3
Air load on filter	M ³ /M ² /h	200
Capacity	Lt.	100
Suction inlet	Ø	80
Noise level	Db(A)	74
Protection	IP	55
Insulation	CL	F
Dimensions	cm.	64 x 103
Height	cm.	170
Weight	cm.	160

* 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 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 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**.

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 (30.000 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 (Ø100 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 (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
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	2 Cartridges with automatic pneumatic 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
Highly corrosive dust and material	XXX	Complete body (Chassis, container and filter chamber) in stainless steel AISI304

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