

INDUSTRIAL VACUUM CLEANER FOR DUST, LIQUID AND SOLID MATERIAL



* Measured with suction inlet fully closed
 ** Measured with fully open suction inlet

Model		DG300 HD
Tension	Volt	400/690 50 / 60 HZ
Power	KW HP	20 28
Vacuum*	mm.H ₂ O	4500
Air flow**	M ³ /h	2200
Filter type	Pocket	Polyester
Filter surface	Cm ²	150.000
Filter cat.	Cat/ Micron	G >3
Airlod on filter	M ³ /m ² /h	146
Filter cleaning system	Automatic	Shaking
Compressor (for filter shaking)		Included
Container capacity	Lt.	220
Suction Inlet	Ø	100
Noise level	Db(A)	80
Protection	IP	65
Insulation	CL	F
Dimensions	cm.	92 x 220
Height ^a	cm.	225
Weight ^s	Kg.	600

Suction unit

The suction is provided by a **suction unit of the side channel blower type**, manufactured in Germany by **Siemens Nash-Elmo**, 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 **sturdy 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 **star-triangle soft start device**. A **vacuum indicator** enables **constant checking of the suction performance**, and **detecting possible clogging of the filter**. Two **pressure relief valves** protect 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 (150.000 cm²)**, and has a **high filtration efficiency (3 micron)**. An **automatic filter shaking device**, operated by an **installed compressor**, enables to **clean the filter efficiently and constantly**, by a vertical shaking movement (the frequency and length of which can be adjusted by means of a timer), so as to detach most of the dust and **maintain the filter clean, in order to increase its life and improve 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** (220 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
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
Big quantities of fine dust	PNEUMATIC	4 cartridge filters with pneumatic automatic filter cleaning
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)