

Mod. MISTRAL 150 ECO / M

INDUSTRIAL VACUUM CLEANER FOR DUST AND DRY MATERIAL



MODEL		MISTRAL 150 ECO M
Tension	Volt Hertz	230 single phase 50/60
Power	KW HP	1,5 2,2
Max. vacuum rate*	mm.H ₂ O	2750
Max air flow**	M ³ /h	200
Filter type		Polyester Pocket filter
Pocket filter surface	Cm ²	20.000
Pocket filter efficiency	CAT (BIA) / micron	L/G >3
Air load on filter	M ³ /M ² /h	100
Capacity	Lt.	35
Suction inlet	Ø	80
Noise level	Db(A)	74
Protection	IP	55
Isolation	Cl	F
Dimensions	cm.	50 x 60
Height	cm.	130
Weight	Kg.	40

*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 (working at 230 volt single phase)**, 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**; 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)**, and a safety emergency stop button; 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 (20.000 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 . A sturdy **80 mm. Ø suction inlet** (reductions available down to 40 mm.) enables to suck up the material in a position below the filter, thus reducing its impact and clogging effect.

Collection unit

The vacuumed material is placed inside a **drop-down bin mounted on wheels** (35 litres capacity), operated **by user- friendly handles** placed at operator's height, 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 turning wheels**, one of which with brakes; basic accessories in Ø 50 mm. are included.





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
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
Explosive dust (low risk)	ATEX 22	Explosion proof conformity according to European ATEX standards, for zone 22 (rare presence of explosive dust)
Explosive dust (high risk)	ATEX 21	Explosion proof conformity according to European ATEX standards, for zone 21 (frequent presence of explosive dust)
Continuous duty / fine dust	AA1250	Automatic filter cleaning by vibration system
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)