



ATEX VACUUM CLEANERS

Employers are required by law to classify areas where hazardous explosive atmospheres may occur into zones and these areas must be protected from sources of ignition. The classification given to a particular zone, depends on the likelihood of an explosive atmosphere occurring and its persistence if it does. All equipment (electrical or mechanical) for use in zoned areas must meet the requirements of the ATEX Directive.

The directive covers a large range of equipment, in a wide variety of industries including fixed offshore platforms, petrochemical plants, mines, flour mills and other areas where a potentially explosive atmosphere may be present.

Once the equipment has been tested and certified, it is then marked by the 'CE' and 'EX' symbols.



Explosion proof
vacuums certified
to ATEX standards
for the collection
and disposal of
hazardous dust



The ATEX directive consists of two EU directives designed to protect employees in explosive atmospheres:

ATEX 95 EQUIPMENT DIRECTIVE 94/9/EC

Equipment and protective systems intended for use in potentially explosive atmospheres

ATEX 137 WORKPLACE DIRECTIVE 99/92/EC

Minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres

WHAT CLASSIFIES AS A HAZARDOUS AREA?

The hazardous places are classified into zones based on the frequency and duration of a hazardous explosive atmosphere: Gas, Mists or Vapours.

Zone 0 - An atmosphere where a mixture of air and flammable substances in the form of gas, vapour or mist is present frequently, continuously or for long periods.

Only Category I equipment can be used in Zone 0.

Zone 1 - An atmosphere where a mixture of air and flammable substances in the form of gas, vapour or mist is likely to occur in normal operation occasionally.

Only Category I and II equipment can be used in Zone 1.

Zone 2 - An atmosphere where a mixture of air and flammable substances in the form of gas, vapour or mist is not likely to occur in normal operation but, if it does occur, will persist for only a short period.

Category I, II and III equipment can be used in Zone 2.

Dust

Zone 20 - An atmosphere where a cloud of combustible dust in the air is present frequently, continuously or for long periods.

Only Category I equipment can be used in Zone 20.

Zone 21 - An atmosphere where a cloud of combustible dust in the air is likely to occur in normal operation occasionally.

Only Category I and II equipment can be used in Zone 21.

Zone 22 - An atmosphere where a cloud of combustible dust in the air is not likely to occur in normal operation but, if it does occur, will persist for only a short period.

Category I, II and III equipment can be used in Zone 22.

Category I equipment - equipment with a very high level of protection.

Category II equipment - equipment with a high level of protection.

Category III equipment - equipment with a normal level of protection.



TECHNICAL DATA

SKU		SV1-425-MINI-Z22
Suction Type		Brushless Motor
Atex Marking		II 3 D EX HTC IIIB T140°C DC
Power	kW-HP	1,1
Voltage Frequency	V Hz	110 / 230 50 / 60
Maximum Vacuum	mBar	230
Maximum Air Flow	m³/h	220
Relief Valve		No
Inlet	ø mm	50
Noise Level (ENI SO 3744)	dB(A)	72
Bin Capacity	Lt	45
Dimensions	mm	516 x 545
Height	mm	1050
Weight	Kg	38
Primary Filter		
Type		Star Filter
Surface Area	cm²	6.000
(Class E N 60336-2-69)		M Class
Media		Antistatic Polyester
Filter Cleaning		Air Pulse
Absolute Filter - Optional		
Surface Area	cm²	22.000
(Class - EN 1822)		H14
Media		Fiberglass

