ATEX AND ACD VACUUM CLEANERS

# PUMA 20 SP DEX 1/3D

## ATEX EXPLOSION-PROOF INDUSTRIAL VACUUM CLEANER




**POWER**
15 kW - 20 HP

**APPLICATION**
Combustible dusts

**CAPACITY**
175 Lt

## FEATURES

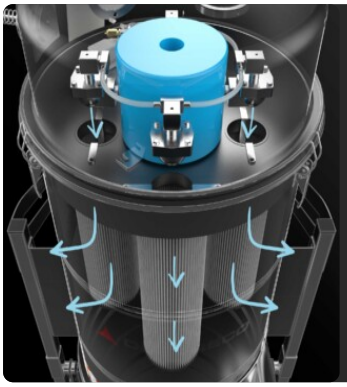
- Suitable and safe for intensive work in Atex 22 zones
- Maximum power thanks to the Atex certified blower
- High efficiency antistatic filtration with integrated automatic cleaning system and grounding
- Ideal for large centralized suction systems

## HIGHLIGHTS



### SUCTION UNIT

The suction unit is a manufacturer-certified Atex side channel blower with direct coupling between motor and impeller. The Side Channel Blower is equipped with a safety valve that ensures continuous work, without any maintenance.



### SP FILTER CLEANING SYSTEM

Automatic filter cleaning system in reverse flow of air at 6 bar (compressed air not supplied as standard). Each filter is cleaned at regular, alternately adjustable intervals without interrupting suction. Ideal for fine and difficult dust.




### INTERNAL CERTIFICATION CAT 1D - ZONE 20

Thanks to its 1D - Zone 20 certified chamber, the vacuum cleaner guarantees maximum safety and compliance when vacuuming combustible or conductive dusts (Group IIIC), even when these are contained within the unit.



### COLLECTION UNIT

The material is collected inside an AISI 304 stainless steel container, complete with a metal handle that allows its release, to avoid any sparks that could be generated by the electrostatic charge.

## TECHNICAL DATA

### MOTOR

| | |
|---|---|
| **Typologies** | Atex 3D side channel blower |
| **Power** | 15 kW - 20 HP |
| **Frequency** | 50/60 Hz |
| **Voltage** | 400 V |
| **Vacuum in continuous run** | 350 mBar |
| **Maximum air flow** | 920 m3/h |
| **Insulation class** | 65 \| F IP |
| **Noise level** | 74 dB(A) |

### MACHINE

| | |
|---|---|
| **Atex marking** | II 1/3D Ex htc IIIC T140°C Da/Dc |
| **EX category** | 1/3D |
| **Operating temperature** | -10/+40 C° |
| **Suction inlet** | 100 Ø mm |
| **Collection system** | AISI304 stainless steel container |
| **Capacity** | 175 Lt |
| **Dimensions** | 850 x 1550 mm |
| **Height** | 1980 mm |
| **Weight** | 290 Kg |
| **Safety valve** | Pressure relief valve |

### FILTRATION

| | |
|---|---|
| **Primary filter type** | 4x Cartridges |
| **Filter surface** | 120000 cm2 |
| **EN 60335-2-69 filtration class** | M |
| **Media** | Antistatic polyester |
| **Filter Cleaning System** | Automatic SP |

# FEATURES




### THIRD PARTY ATEX CERTIFICATION




### DRY TYPE VACUUM CLEANER
Atex-certified vacuum cleaner with dry dust filtration, as per EN17348



### ELECTRICAL PANEL
Electrical panel, implementable with additional functions



### 4-PIN ATEX INDUSTRIAL PLUG



### ANTISTATIC FILTRATION
Antistatic filtration to discharge static energy



### VACUUM GAUGE
Vacuum gauge for indication of filter clogged or in need of replacement



### POWER SUPPLY CABLE



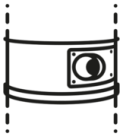
### WHEEL WITH BRAKE
Non-marking wheel with integrated brake



### WHEELS
Non-marking pivoting wheels



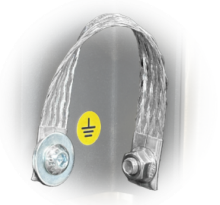
### STEEL CONSTRUCTION
Rugged industrial coated steel construction



### CYCLONIC EFFECT
Tangential inlet and cyclone installed



### PRV
Pressure relief valve installed



### GRD
Grounding



### BX
Stainless steel bin AISI 304

# OPTIONS

## AVAILABLE FILTER CLEANING SYSTEMS



### SP

Automatic reverse jet cleaning system
Antistatic M class filter (EN 60335-2-69), 4
Polyester filter cartridges, 12 m² filter surface

## AVAILABLE FILTER MEDIA



### HEPA 14

Absolute filter (EN 1822)
110.000 cm² filter surface
H14 Class Filter (EN 1822)
Glass fiber




### PTFE ANT

Antistatlc PTFE filter (M class EN 60335-2-69)

# STRUCTURE AND OPTIONS

60HZ

### 60HZ
Available in 60Hz version



### 3 YEARS WARRANTY
Purchasing the replacement filter along with the vacuum



### CONTAINER TILTABLE KIT
System for easy container emptying using forklift lifting.



### FLAMELESS VENT
A valve that contains the flame and the overpressure generated by a possible explosion.



### PANEL VENT FOR DIRECTIONAL EXPLOSION
An explosion vent designed to break at a specific pressure and release the explosive pressure in a safe area.
Panel vent for explosion



### FKL
Forklift bracket



### GX
Stainless steel bin and chamber AISI 304