

ATEX AND ACD VACUUM CLEANERS

# PUMA 20 1/2D Z20/21

## EXPLOSION-PROOF ATEX INDUSTRIAL VACUUM CLEANER



**POWER**  
15 kW - 20 HP



**APPLICATION**  
Combustible dusts

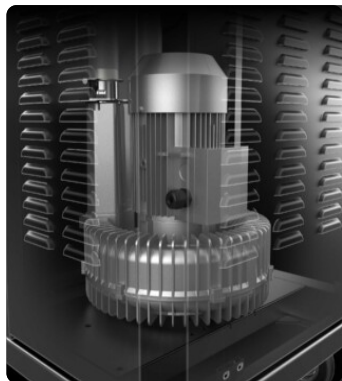


**CAPACITY**  
175Lt

## FEATURES

- Suitable and safe for intensive work in Atex 21 zones
- Maximum safety thanks to antistatic filtration and complete earthing
- Maximum power thanks to the Atex certified blower
- Ideal for large centralized suction systems

## HIGHLIGHTS



### SUCTION UNIT

The suction unit is a side channel blower with direct coupling between motor and impeller. The turbine is equipped with a safety valve to ensure continuous, maintenance-free work. A metal silencer is included as standard in the turbine to ensure a low noise level.



### FILTER UNIT

The tangential inlet facilitates the cyclonic effect to deposit the collected material in the container. Filtration is ensured by a polyester star filter in class M (filtering efficiency 1 micron) with high filtering surface area, which guarantees air passage even with a dirty filter.



### FILTER CLEANING SYSTEM

An ergonomic manual filter shaker allows the filter to be cleaned easily and quickly, removing dust and debris from the surface of the filter.



### 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 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 1/2D Ex htc IIIC T140°C Da/Dc
EX category	1/2D
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	Star
Filter surface	45000 cm2
EN 60335-2-69 filtration class	M
Media	Antistatic polyester
Filter Cleaning System	Manual

## FEATURES



### THIRD PARTY ATEX CERTIFICATION



### 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 m<sup>2</sup> filter surface

### AVAILABLE FILTER MEDIA



#### HEPA 14

Absolute filter (EN 1822)  
 110.000 cm<sup>2</sup> filter surface  
 H14 Class Filter (EN 1822)  
 Glass fiber



#### PTFE ANT

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

## STRUCTURE AND OPTIONS

**60<sup>Hz</sup>**

**60HZ**

Available in 60Hz version



**3 YEARS WARRANTY**

Purchasing the replacement filter along with the vacuum



**CONTAINER EMPTYING 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



**6X**

Stainless steel bin and chamber AISI 304