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

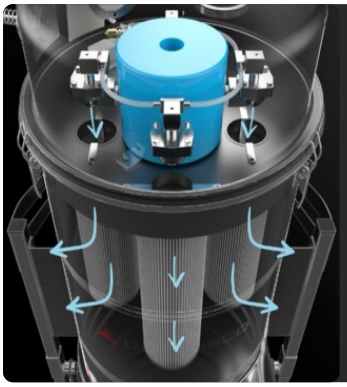
FEATURES

- 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

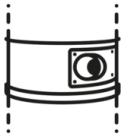
VACUUM GAUGE
Vacuum gauge for indication of filter clogged or in need of replacement

POWER SUPPLY CABLE

WHEEL WITH BRAKE
Non-marking wheel with integrated brake

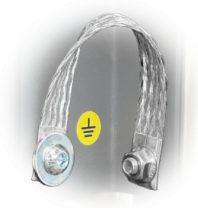
WHEELS
Non-marking pivoting wheels

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