

**ADDITIVE
MANUFACTURING
INDUSTRIAL
VACUUMS**



WHY USE AN INDUSTRIAL VACUUM?

Industrial vacuum cleaners are meticulously engineered to meet the demanding requirements of the modern manufacturing industry. With a focus on efficiency, safety, and sustainability, these advanced machines play a vital role in collecting unused powder during various additive manufacturing processes.



CLEAN AND REUSE



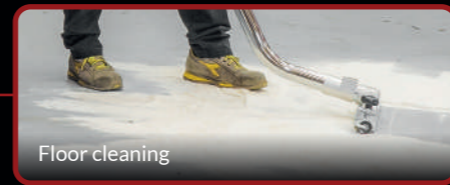
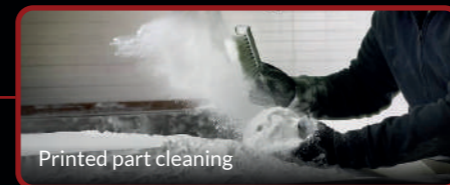
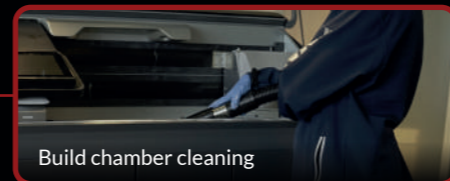
FAST AND EFFICIENT CLEANING
of the printer and its surroundings



UNUSED POWDER RECOVERY
for cost-saving on repurchase



PREVENT EXPLOSION RISKS
safety systems engineered to neutralize explosive powders



POWDER BED FUSION SOLUTIONS

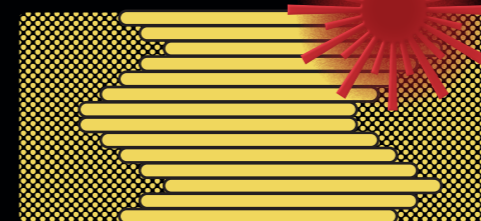


FOR POLYMERS

SLS SELECTIVE LASER SINTERING

LASER

POLYMER POWDER



FOR METALS

SLM SELECTIVE LASER MELTING

LASER

METAL POWDER



HOW TO CHOOSE



P13821 | P13935 | P13936

P11827

A2100

A115 | A221 | A165 | A231



A2160

A2220 | A2225

A1096

A1103

	CYCLON PRESEPARATOR	INERT PRESEPARATOR	M H PRO ACD	FOX
POLYMER OR METAL POWDER RECOVERY	■		■	■
METAL POWDER INERTIZATION		■		
POST-PROCESSING CLEANING				

M45 H ACD INERT	ECOBULL H ACD INERT	DF 22	DF 40
■	■		
		■	■

HOW TO CHOOSE POWDER RECOVERY

3D printing powders are expensive ingredients. By collecting them in suitable equipment, such as stainless steel containers, it becomes possible to reuse the powders after an appropriate sieving process that filters out the recoverable particles.



FOX Z20/22

Internal ATEX zone 20 certified chamber for suction of conductive dust type IIIC

ANTISTATIC STAR FILTER
M CLASS



35.000 cm²

SIDE CHANNEL BLOWER
from 2,2 kW to 7,5 kW

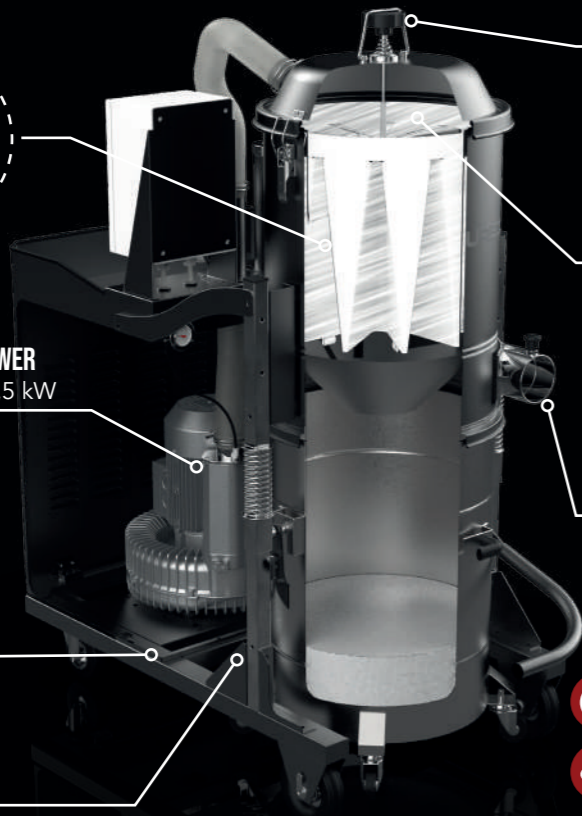


COMPLETE GROUNDING OF THE UNIT



STAINLESS STEEL BIN
AISI 304

Lt 100



MANUAL FILTER CLEANING SYSTEM



[OPTIONAL]
HEPA H14
CARTRIDGE



22.000 cm²

TANGENTIAL INLET WITH CYCLON



Power: from 2,2 kW to 7,5 kW

Capacity: 100 Lt

Dimensions: mm 660 X 1200 X 1510 h

M H PRO ACD



M CLASS
ANTISTATIC
STAR FILTER



COMPLETE GROUNDING OF THE UNIT

STAINLESS STEEL BIN
AISI 304

Lt 45



X2
BY-PASS MOTORS
230 V

PRESSURE GAUGE
Dirty filter indicator.

STANDARD
FILTER CARTRIDGE
HEPA H14



INLET
WITH DEFLECTOR

Power: 2,6 kW

Bin capacity: 45 Lt

Dimensions: mm 516 X 545 X 1250 h

CYCLON PRE-SEPARATOR

Compact and robust powder-coated steel pre-separator is a game-changer for industries seeking to optimize their cleaning processes. By effectively separating all the debris from the airflow and collecting up to 95% of dust prior to reach the main filter of the vacuum cleaner.

- Convenient collection of fine powders
- Maximum flexibility of use of the dust extraction system

AVAILABLE IN
3 SIZES



45_{Lt} - 65_{Lt} - 100_{Lt}



AIR

DUST

EXTEND THE
LONGEVITY OF THE
VACUUM CLEANER'S
MAIN FILTER

HOW TO CHOOSE POWDER INERTIZATION

Unused powder inside the 3D powder bed fusion printer must be vacuumed safely with appropriate equipment to avoid explosion. Depureco developed a sophisticated collection system that immerses the collected powder into an inert liquid, eliminating any risk of explosion and allowing safe disposal of the now inert powder.



METAL POWDER



M45 H ACD INERT

- ATEX CERTIFIED AVAILABLE**
Brushless head and side channel blower
- PATENTED CONNECTION AND QUICK RELEASE SYSTEM OF THE IMMERSION NOZZLE**
- COMPLETE GROUNDING OF THE UNIT**
- LIQUID DISCHARGE VALVE**
- BY-PASS MOTORS X2**
230 V
- STANDARD FILTER CARTRIDGE HEPA H14**
- STANDARD HYDROGEN VENT**
Pressure relief valve
- INERT LIQUIDS BIN WITH INSPECTION WINDOW**
- STAINLESS STEEL AISI 304**
Lt **45**
- Power: 1,8 kW
- Dimensions: mm550 X 620 X 1400 h

INERT BIN

- Patented quick-release suction inlet
- Submerged nozzle
- Nylon filter
- Metal grid
- Stainless steel AISI 304 bin
- Inert liquid

ECOBULL ACD INERT

- STANDARD SAFETY VALVE**
- PATENTED CONNECTION AND QUICK RELEASE SYSTEM OF THE IMMERSION NOZZLE**
- COMPLETE GROUNDING OF THE UNIT**
- LIQUID DISCHARGE VALVE**
- SIDE CHANNEL BLOWER**
Up to 4 kW
- ALSO AVAILABLE WITH ATEX CERTIFICATION**
- STANDARD HYDROGEN VENT**
Pressure relief valve
- INERT LIQUIDS BIN WITH INSPECTION WINDOW**
- STAINLESS STEEL AISI 304**
Lt **100**
- Power: Up to 4 kW
- Dimensions: mm 660 X 800 X 1630 h

HOW TO CHOOSE POST-PROCESSING

Dust collectors play a crucial role in post-processing, offering an effective solution to clean printed parts and significantly enhance the overall quality of the final products.



DF 22 + DF 40

SUCTION UNIT
Atex certified fan.

[OPTIONAL] FILTER CARTRIDGE HEPA H14
 • 120.000 cm²
 • 160.000 cm²

STAR FILTER M CLASS
 • 24.000 cm²
 • 45.000 cm²

MANUAL FILTER SHAKER
Manually shake the filter to clean it.

COMPLETE GROUNDING OF THE UNIT

ATEX Extraction arm

INLET WITH DEFLECTOR
To connect the extraction Arm or a flexible hose.

Power: Up to 4 kW

Bin capacity: 65/100 Lt

Dimensions: mm 630 X 1100 X 2150 h

STAINLESS STEEL BIN AISI 304
Lt **65/100**

HOW TO CHOOSE CENTRALIZED VACUUM SYSTEMS

Optimize the cleaning and maintenance of multiple 3D printers by utilizing centralized vacuum systems, efficiently collecting debris in one container. Simplify post-processing tasks, enhance productivity, and maintain a cleaner work environment effortlessly.

CENTRALIZED VACUUM UNIT
with ATEX certified side channel blower

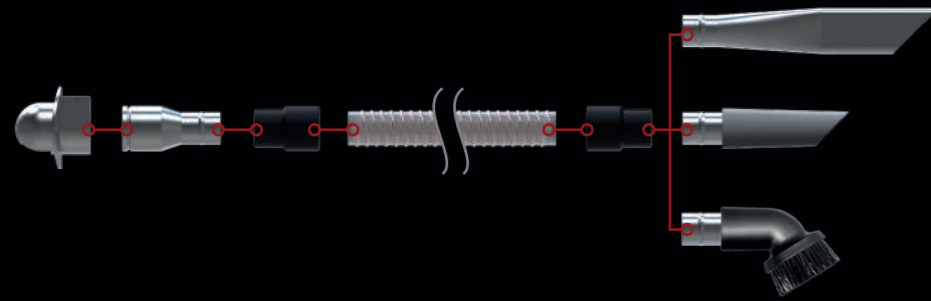
MULTIPLE SUCTION POINTS

BUILDING CHAMBER CLEANING

ALL VACUUMED POWDER GETS COLLECTED INSIDE A STAINLESS STEEL BIN TO BE SIEVED AND REUSED.

ADDITIVE MANUFACTURING INDUSTRIAL VACUUMS

ACCESSORIES



INTUITIVE ACCESSORIES CONNECTIONS

ACCESSORIES KIT



P13641

40 mm

Antistatic Starter kit



P13642

40 mm

Antistatic kit Pro

CONNECTIONS



P12302

40/50 mm

Rubber sleeve for "EVA" hoses



P12301

40/50 mm

Rubber sleeve for "PUR" hoses

P12334/100

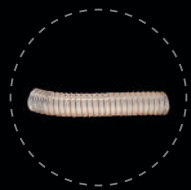
100 mm

Connection for ATEX extraction arm

P12334

160 mm

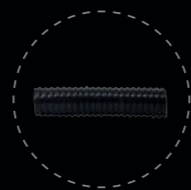
FINAL ACCESSORIES



P11841/40

40 mm

"PUR" conductive hose



P12316

40 mm

"EVA" conductive hose



P00299

40 mm

Antistatic Flat pipe



P13600/EX

40 mm

PVC Flat pipe



P10475

40 mm

Antistatic rubber conic nozzle



P00640/A

40 mm

"S" Handgrip for floor brush



P11495

40 mm

Antistatic brush with brass bristles



P01042/EX

50 mm

Antistatic floor brush with brass bristles

TECHNICAL DATA



Technical data	Units	MH PRO ACD	FOX	M45 H ACD INERT	ECOBULL H ACD INERT M T
ATEX marking		ACD	II 1/3D Ex htc IIIC T140°C Da/Dc	ACD	ACD
Code		A2100	A115 A221 A165 A231	A2160	A2220 A2225
Motor type		X2 By-Pass motors	Side Channel Blower	X2 By-Pass motors	Side Channel Blower
Power	kW	2,6	2,2 - 4 - 5,5 - 7,5	2,6	1,8 - 3
Voltage Frequency	V Hz	230 50-60	400 50-60	230 50-60	230 - 400 50-60
IP Insulation class		54 F	---	54 F	55 F
Continuous vacuum	mBar	250	200 - 230 - 240 - 280	250	230
Max air flow	m³/h	380	320 - 450 - 550 - 550	380	240 - 340
Overpressure valve		---	Included	Included	Included
Suction inlet	Ø mm	50	80	50	50
Capacity	Lt	45	100	45	65/100
Liquid filter		---	---	Polypropylene150µ	Polypropylene150µ
Powder separation		---	---	Metal grid	Metal grid
Spark trap filter		---	---	Metal mesh filter	Metal mesh filter
Discharge valve		---	---	Included	Included
Dimensions	mm	516 X 545 X 1250 h	660 X 1200 X 1510 h	550 X 620	660 X 800 X 1630 h
Weight	Kg	38	142 - 257 - 177 - 242	1400	95 - 120
Primary filter					
Type - Polyester		M Class Antistatic filter	M Class Antistatic filter	M Class Cartridge	---
Filtering surface	cm²	6.000	24.000	35.000	---
Secondary filter					
Type - Glass fiber		H14 cartridge	H14 cartridge	H14 conical cartridge	H13 conical cartridge
Filtering surface	cm²	22.000	28.000	22.000	35.000



Technical data	Units	DF 22 Z22	DF 40 Z22	Technical data	Units	CYCLONIC PRESEPARATOR	INERT PRESEPARATOR
ATEX marking		II3GDExhtcIIIB T140°C GcDc		Code		P13821 P13935 P13936	P11827
Code		A1096	A1103	Overpressure valve		---	Included
Motor type		Electric fan	Electric fan	Suction inlet	Ø mm	50	50
Power	kW - HP	2,2 - 3	4 - 5,5	Capacity	Lt	45 65 100	100
Voltage Frequency	V Hz	400 50-60	400 50-60	Liquid filter		---	Polypropylene150µ
IP Insulation class		55 F	55 F	Powder separation		---	Metal grid
Max vacuum	mBar	352 350 350	370 340 270	Spark trap filter		---	Metal mesh filter
Static depression	mBar	340 320 280	300 270 200	Discharge valve		---	Included
Max air flow	m³/h	800 1000 1400	1500 2100 2700				
Suction inlet	Ø mm	^ 100 120 150 ^	^ 150 180 200 ^				
Capacity	Lt	65/100	65/100				
Dimensions	mm	660 X 800 X 1630 h	630 X 1100 X 2150 h				
Weight	Kg	80	145				
Primary filter							
Type - Polyester		M Class Antistatic star filter					
Filtering surface	cm²	24.000	45.000				
Optional filter							
Type - Glass fiber		H13 conical cartridge	H13 conical cartridge				
Filtering surface	cm²	120.000	160.000				

ATEX CERTIFIED VARIANTS



Explore our wide range of opportunities to increase your business

DEPURECO SOLUTIONS FOR METALWORKING INDUSTRY

B. ADDITIVE MANUFACTURING

Industrial Vacuum Systems are essential for post-processing operations and maintenance, ensuring high-quality production and reducing the risk of equipment damage.

A. CNC ROOM

Industrial Vacuum Systems for CNC machinery applications, providing efficient and reliable removal of oil, coolant and oil mists to maintain optimal operating and environment conditions, extending the lifespan of the equipment.

D. SANDBLASTING

Solutions providing efficient recovery of sand or steel grit, improving safety and effectiveness of the processes.

C. METALWORKING

Highly efficient, large collection and cost-effective solutions for keeping workspaces clean and safe.

G. WAREHOUSE

Versatile and effective solutions for general cleaning or overhead applications offer powerful suction and filtration capabilities to maintain clean and safe workspaces.

F. WELDING

Solutions to effectively capture and remove hazardous welding fumes and particulates, promoting a safer and healthier work environment.

E. INDUSTRIAL PAINTING

Vacuum solutions providing effective removal of overspray, dust, and debris, resulting in high-quality finishes and reduced contamination, ensuring a safe and healthy work environment.



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