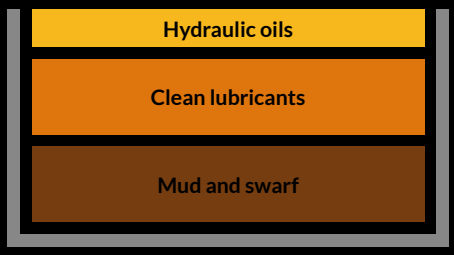
DEPURECO®
INDUSTRIAL VACUUMS

OIL & SWARF INDUSTRIAL VACUUMS

WHY USE AN INDUSTRIAL VACUUM?

Industrial manufacturing processes that involve metal cutting produce residual swarf mixed with cutting oil or lubricants that are commonly collected into tanks. Using an industrial vacuum for separating cutting oil and swarf is a practical and efficient solution for managing this material, allowing easy separation and collection for recycling or safe disposal. This helps to maintain a clean and safe work environment, improve machinery efficiency, and reduce the overall environmental impact of industrial manufacturing processes.



CLEAN AND REUSE

Recovery and reuse of clean lubricants, coolants and cutting oil

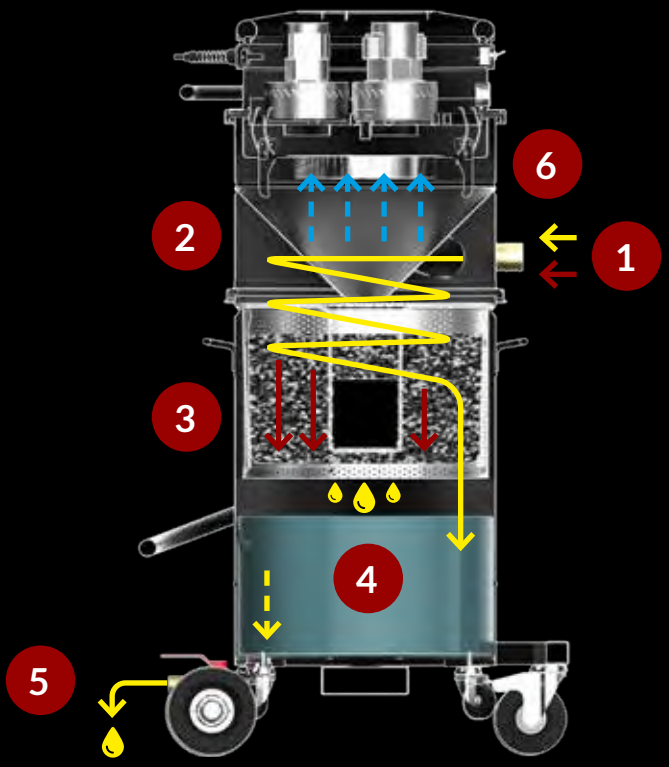
Saving on oil purchase and chips disposal costs

Maintenance time reduction and avoid downtimes

WORKING PRINCIPLE

WITH BIN

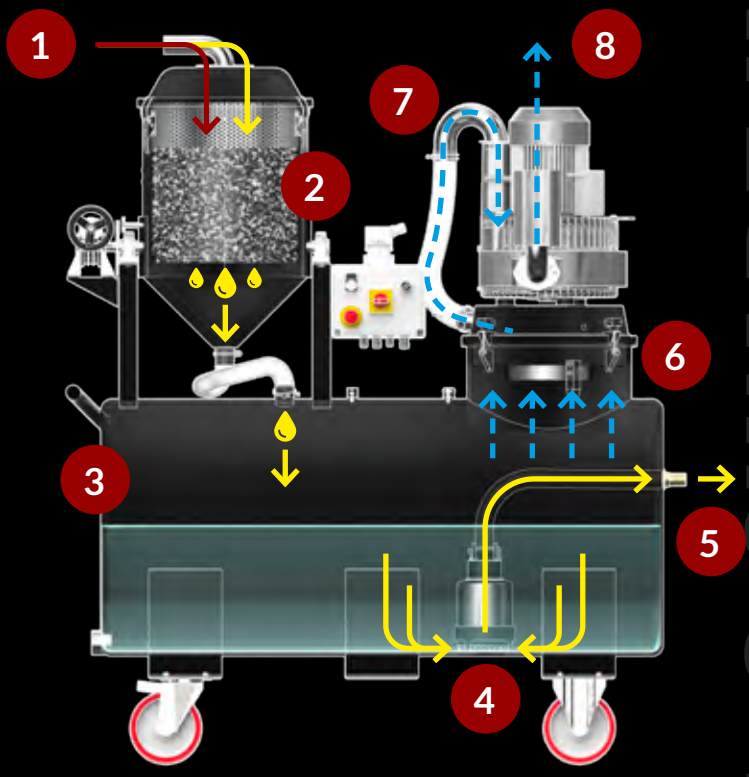
1. The oil and the swarf get sucked into the inlet.
2. The mixture travels around the cyclone in a circular motion.
3. The swarf gets separated from the oil with a metal basket and a PPL filter with 150 µ efficiency.
4. The clean oil gets collected in the 100 Lt metal bin.
5. The oil can easily be discharged to be collected and reused.
6. The air passes trough an oil proof filter that traps the oil mist and protects the motors.



● Swarf ● Lubricant ● Air

WITH TANK

1. The oil and the swarf get sucked into the inlet.
2. The swarf gets separated from the oil in the metal basket.
3. The Oil it's collected into the vacuum tank.
4. 4. The submerged pump blows out the oil.
5. The oil goes out of the tank to be collected and reused.
6. The air passes through an oil proof filter that protects the motorhead from oil mists.
7. The filtered air gets to the side channel blower.
8. 8. The air is blown out clean in the environment.

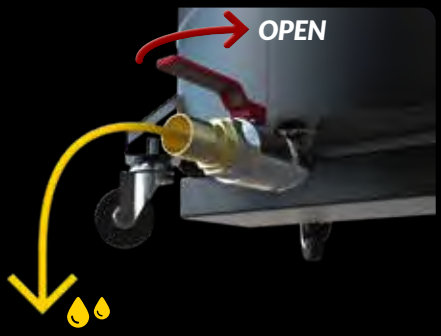


● Swarf ● Lubricant ● Air

OIL & SWARF INDUSTRIAL VACUUMS

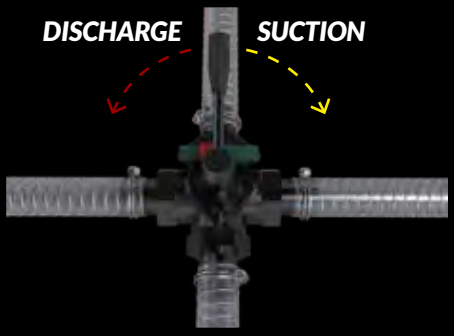
HOW TO CHOOSE

DISCHARGE SYSTEMS FOR LIQUIDS



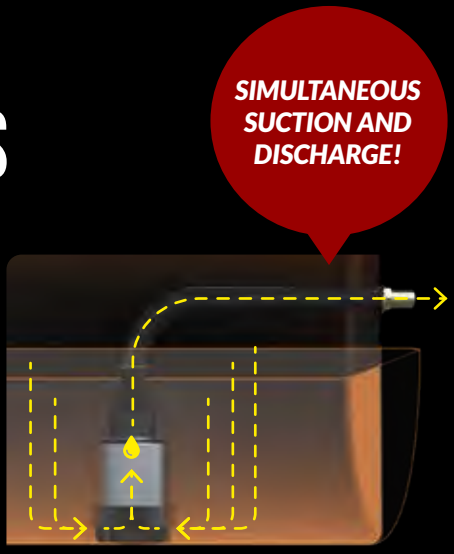
GRAVITY

The liquid is discharged by means of a manual ball valve placed at the bottom of the container.



REVERSE FLOW

A practical lever, installed on the rear part of the vacuum cleaner, allows to rapidly select between vacuuming or discharging operation mode. The reverse flow system uses the exhaust air from the turbine, ensuring the efficiency and speed of the operation.



SUBMERGED PUMP

The vacuum cleaner is equipped with a submerged pump in order to empty the tank. The pump's level sensor automatically interrupts intake upon reaching maximum capacity. In the same way, the level sensor instructs the machine to interrupt discharge operations once minimum level is reached.

DISCHARGE SYSTEMS FOR SOLIDS

MANUAL

A metal basket is installed inside the vacuum container, retaining all the swarf and letting the collected oil fall. Thanks to the 2 handles it's easy to lift and empty the metal basket manually or by means of web slings.

HOPPER

Above the vacuum's tank is installed a tiltable hopper. A metal basket, paired with a PPL filter, is placed inside the hopper. The two act as a sieve, separating any solid particle eventually present from the vacuumed liquid and allowing a comfortable and safe discharge of the swarf

VACUUM UNITS

SINGLEPHASE MOTOR

Generate high vacuum performances, conceived for non-continuous use. Each motor is managed by an independent switch, allowing the operator to control suction performances.
- Powerful and highly reliable
- Long lasting life, up to 1300 hours

SIDE CHANNEL BLOWER

The suction unit is a side channel blower with direct coupling between motor and impeller. The side channel blower is equipped with a safety valve to guarantee continued work in complete safety, without any maintenance.
- Continuous duty 24h and 7 days per week
- No need of maintenance

FILTERS

OIL PROOF CARTRIDGE

A filter designed to prevent the suction unit from being damaged by oil or other liquids that are being sucked up.

METAL BASKET WITH PPL FILTER

A PPL filter with a 150µ efficiency and a metal basket separate even the smallest solid particles, making the filtered liquid suitable for reuse. The PPL filter can be washed and reused easily.

EVERY VACUUM IS UNIQUE

Every Depureco vacuum has unique features to better suit your needs for your business. Choose the best combination to build your perfect Depureco Industrial Vacuum for the metalworking industry!

TANK CAPACITY

Choosing the right size tank size will fit your maintenance needs

OIL FILTRATION EFFICIENCY

To recover the largest quantity of oil possible

POWER SUPPLY

To perfectly adapt the product to your industry

DISCHARGE TYPE

To fit your disposal or recycling needs

OIL & SWARF INDUSTRIAL VACUUMS

OIL & SWARF
OVERVIEW

Standard

Optional

	M 70 OIL	M 100 OIL	CLEAN OIL	FROG	RAM 250
MANUAL	■	■			
REVERSE FLOW			■	■	
PUMP FOR CONTINUOUS DISCHARGE	□			□	■
LIQUID CAPACITY	70 Lt	100 Lt	100 Lt	130 Lt	250 Lt
SOLID CAPACITY	40 Lt	50 Lt	50 Lt	40 Lt	70 Lt

OIL & SWARF INDUSTRIAL VACUUMS

RAM 280	RAM 280 MP	RAM 500	RAM 500 T	RAM 1000	RAM 1000 AV
■		■		■	■
□	■	□	■	□	
280 Lt	280 Lt	500 Lt	500 Lt	1000 Lt	1000 Lt
40 Lt	40 Lt	40 Lt	40 Lt	40 Lt	40 Lt

M 70 OIL

Code: **A454/A454 P**

- Power: 2,6 kW
- Liquid capacity: 70 Lt
  Solid capacity: 40 Lt
- Suction time: 70 Lt/18 sec
  Discharge time: 70 Lt/20 sec
- Dimensions: mm 650 X 450 X 1205 h

2 By-Pass motors

- Recommended -

P12355: Oil Kit PRO Ø50

P09679: PPL Filter (150 µ)
+ Metal separation basket

Manual discharge
by gravity

PUMP: Immersion
discharge pump

- Optional -

M 100 OIL

Code: **A455**

- Power: 3,9 kW
- Liquid capacity: 100 Lt
  Solid capacity: 50 Lt
- Suction time: 100 Lt/26 sec
- Dimensions: mm 700 X 450 X 1400 h

Scan the QR-Code
to watch the video

P12475: Oil proof
cartridge

3 By-Pass motors

P09679: PPL Filter (150 µ)
+ Metal separation basket
+ Floating system to automatically stop suction

Tangential inlet with cyclone

Manual discharge
by gravity

- Recommended -

P12355: Oil Kit PRO Ø50

CLEAN OIL T/M

Code: **A450/A452**

- Power: 2,2/3 kW
- Liquid capacity: 100 Lt
  Solid capacity: 50 Lt
- Suction time: 100 Lt/26 sec
  Discharge time: 100 Lt/92 sec
- Dimensions: mm 840 X 710 X 1620 h

Scan the QR-Code
to watch the video

Reverse Flow
Discharge system

P12475: Oil proof
cartridge

P09679: PPL Filter (150 µ)
+ Metal separation basket
+ Floating system to automatically stop suction

SIde channel blower

Tangential inlet with cyclone

- Recommended -

P12355: Oil Kit PRO Ø50

FROG

Code: **A386**

- Power: 2,6 kW
- Liquid capacity: 130 Lt
  Solid capacity: 40 Lt
- Suction time: 130 Lt/30 sec
  Discharge time: 130 Lt/50 sec
- Dimensions: mm 700 X 1180 X 1320 h

Reverse Flow
Discharge system

2 By-Pass motors

- Included -

P12352: Oil Kit Ø50

P09679: PPL Filter (150 µ)
+ Metal separation basket

- Optional -

PUMP: Immersion
discharge pump

OIL & SWARF INDUSTRIAL VACUUMS

RAM OIL 250 T/S

Code: **A404/405**

- Power: 3/5,5 kW
- Liquid capacity: 250 Lt
  Solid capacity: 70 Lt
- Suction time: 250 Lt/52 sec
  Discharge time: 250 Lt/100 sec
- Dimensions: mm 850 X 1550 X 1780 h

Tiltable discharging hopper

P09679: PPL Filter (150 µ)
+ Metal separation basket

Slde channel blower

- Included -

P12352: Oil Kit Ø50

P12475: Oil proof
cartridge

Discharge pump

RAM OIL 280

Code: **A375**

- Power: 2,2 kW
- Liquid capacity: 280 Lt
  Solid capacity: 40 Lt
- Suction time: 280 Lt/80 sec
  Discharge time: 280 Lt/80 sec
- Dimensions: mm 700 X 1450 X 1400 h

Scan the QR-Code
to watch the video

Reverse Flow
Discharge system

Slde channel blower

- Optional -

BIS: Inspection door

- Included -

P12352: Oil Kit Ø50

P09679: PPL Filter (150 µ)
+ Metal separation basket

- Optional -

PUMP: Immersion
discharge pump

RAM OIL 280 MP

Code: **A374**

- Power: 3,9 kW
- Liquid capacity: 280 Lt
  Solid capacity: 40 Lt
- Suction time: 280 Lt/60 sec
  Discharge time: 280 Lt/60 sec
- Dimensions: mm 700 X 1450 X 1400 h

- Included -
P12352: Oil Kit Ø50

P12475: Oil proof cartridge

3 By-Pass motors

P09679: PPL Filter (150 µ)
+ Metal separation basket

- Optional -
PUMP: Immersion discharge pump

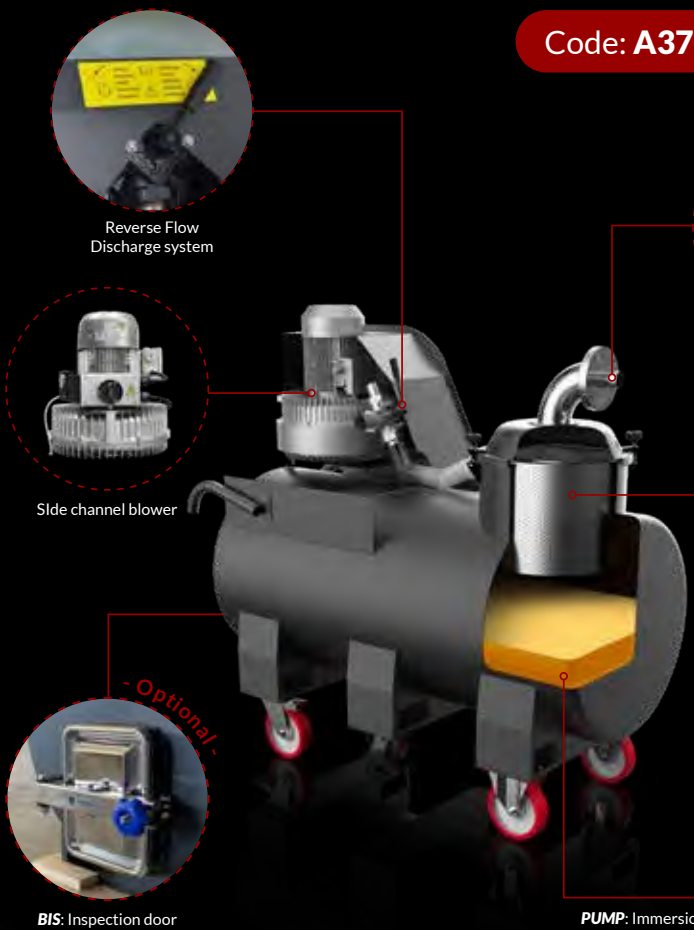
BIS: Inspection door

RAM OIL 500

Code: **A378-001**

- Power: 4,3 kW
- Liquid capacity: 500 Lt
  Solid capacity: 40 Lt
- Suction time: 500 Lt/120 sec
  Discharge time: 500 Lt/120 sec
- Dimensions: mm 600 X 1510 X 1891 h

Scan the QR-Code
to watch the video



Reverse Flow
Discharge system

- Included -
P12352: Oil Kit Ø50

Slde channel blower

P09679: PPL Filter (150 µ)
+ Metal separation basket

- Optional -
BIS: Inspection door

PUMP: Immersion
discharge pump

- Optional -

INDUSTRIAL VACUUMS

RAM OIL T 500/T 555

Code: **A378-003/A381**

- Power: 4,3/5,5 kW
- Liquid capacity: 500 Lt
  Solid capacity: 70 Lt
- Suction time: 500 Lt/120 sec
  Discharge time: 500 Lt/120 sec
- Dimensions: mm 600 X 1510 X 1780 h

Scan the QR-Code
to watch the video

Tiltable discharging
hopper

P09679: PPL Filter (150 µ)
+ Metal separation basket

Slde channel blower

P12475: Oil proof
cartridge

- Optional -

BIS: Inspection door

PUMP: Immersion
discharge pump

RAM OIL 1000

Code: **A379**

- Power: 5,5 kW
- Liquid capacity: 1000 Lt
  Solid capacity: 40 Lt
- Suction time: 1000 Lt/200 sec
  Discharge time: 1000 Lt/200 sec
- Dimensions: mm 950 X 1850 X 1891 h

Scan the QR-Code
to watch the video

Reverse Flow
Discharge system

Slde channel blower

P09679: PPL Filter (150 µ)
+ Metal separation basket

- Included -

P12352: Oil Kit Ø50

- Optional -

BIS: Inspection door

- Optional -

PUMP: Immersion
discharge pump

RAM OIL 1000 AV

Code: **A379-001**

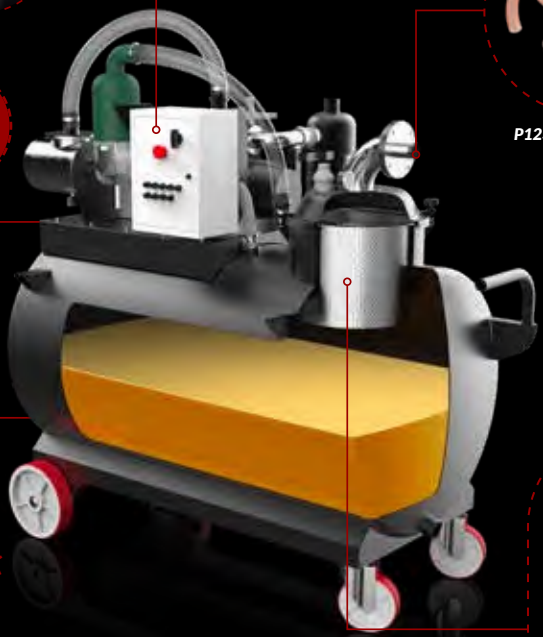
- Power: 5,5 kW
- Liquid capacity: 1000 Lt
  Solid capacity: 40 Lt
- Suction time: 1000 Lt/220 sec
  Discharge time: 1000 Lt/240 sec
- Dimensions: mm 940 X 1650 X 1880 h

Reverse Flow
Discharge system

- Included -

P12352: Oil Kit Ø50

High Vacuum Pump with
***800 mBar* depression**



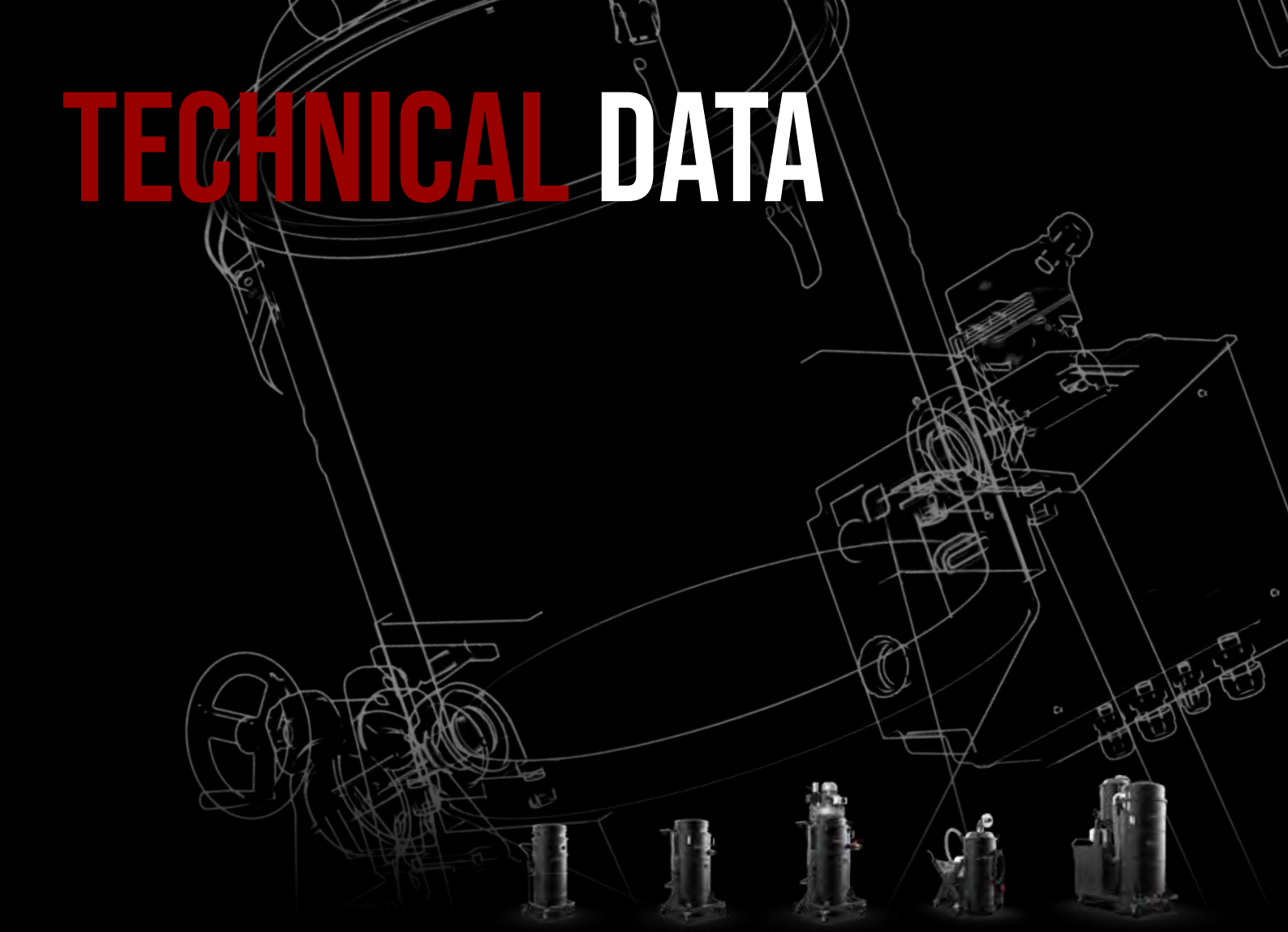
- Optional -

BIS: Inspection door

P09679: PPL Filter (150 µ)
+ Metal separation basket

INDUSTRIAL VACUUMS

TECHNICAL DATA



Technical data	*Units*	*M 70 Oil / P*	*M 100 Oil*	*Clean Oil T / M*	*Frog Oil*	*Ram 250 T / S*
Code		A454 | A454 P	A455	A450 | A452	A386	A404 | A405
Motor type		2 | By-Pass	3 | By-Pass	Side Channel Blower	2 | By-Pass	Side Channel blower
Power	kW - HP	2,6 - 3,5	3,9 - 5,2	3 - 4 / 2,2 - 3	2,6 - 3,5	3 - 4 / 5,5 - 7,5
Voltage | Frequency	V | Hz	240 | 50-60	230 | 50/60	400 | 50-60	240 | 50-60	400 | 50-60
IP | Insulation class		---	---	55 | F	---	55 | F
Maximum vacuum	mBar	250	250	320	250	290 / 510
Vacuum in continuous run	mBar	---	---	250 / 180	---	260 / 440
Maximum air flow	m^3/h	380	570	350	380	320 / 330
Suction time	L/sec	70/18	100/26	100/26	130/30	250/50
Dumping time	L/sec	70/20	---	100/92	130/50	250/100
Suction inlet	Ø mm	50	50	50	50	50
Noise level - (EN ISO 3744)	dB (A)	70	72	78 / 74	70	72
Liquid capacity	Lt	70	100	100	130	250
Solid capacity	Lt	40	50	50	40	70
Dimensions	mm	700 X 450 X 1440 h	700 X 450 X 1440 h	840 X 710 X 1620 h	700 X 1180 X 1320 h	850 X 1550 X 1780 h
Weight	Kg	90	90	110	95	240
Primary discharge type		Gravity	Gravity	Reverse flow	Reverse flow	Discharge pump
Optional discharge type		Discharge pump	---	---	Discharge pump	---
Primary filter						
Type		Oil Proof cartridge	Oil Proof cartridge	Oil Proof cartridge	---	Oil Proof cartridge
Secondary Filter						
Type		PPL Filter	PPL Filter	PPL Filter	PPL Filter	PPL Filter

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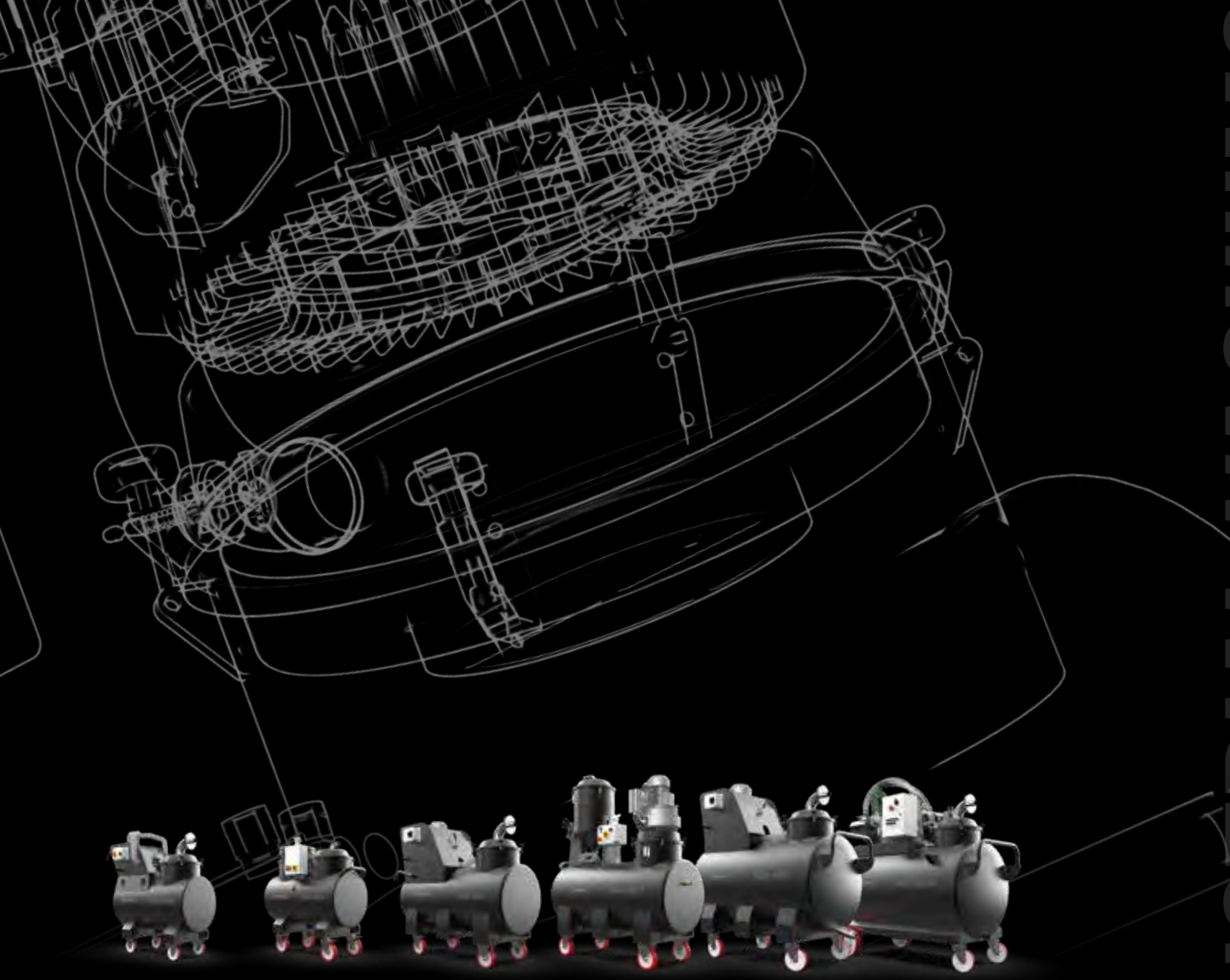

Ram 280	*Ram 280 MP*	*Ram 500*	*Ram 500 T / 555 T*	*Ram 1000*	*Ram 1000 AV*
A375	A374	A378-001	A378-003 | A381	A379	A379-001
Side Channel Blower	3 | By-Pass	Side Channel Blower	Side Channel Blower	Side Channel blower	Rotary vane pump
2,2 - 3	3,9 - 5,2	4,3 - 5,8	4,3 - 5,8 / 5,5 - 7,5	5,5 - 7,5	5,5 - 7,5
400 | 50-60	230 | 50-60	400 | 50-60	400 | 50-60	400 | 50-60	400 | 50-60
55 | F	---	55 | F	55 | F	55 | F	55 | F
280	250	420	420 / 480	480	900
220	---	360	360 / 420	420	800
220	570	320	320	320	300
280/80	280/63	500/120	500/120	1000/200	1000/220
280/80	280/60	500/120	500/120	1000/200	1000/240
50	50	50	50	50	50
72	72	72	72 / 76	76	82
280	280	500	500	1000	1000
40	40	40	70	40	40
700 X 1450 X 1400 h	700 X 1450 X 1400 h	600 X 1510 X 1780 h	600 X 1510 X 1780 h	950 X 1850 X 1891 h	940 X 1650 X 1880 h
220	135	220	320 / 350	250	460
Reverse flow	Discharge pump	Reverse flow	Discharge pump	Reverse flow	Reverse flow
Discharge pump	---	Discharge pump	---	Discharge pump	---
---	Oil Proof cartridge	---	Oil Proof cartridge	Oil Proof cartridge	---
PPL Filter	PPL Filter	PPL Filter	PPL Filter	PPL Filter	PPL Filter

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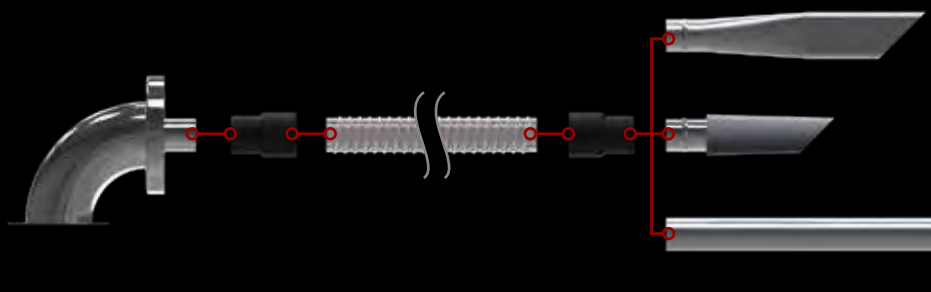
OIL & SWARF INDUSTRIAL VACUUMS

ACCESSORIES



INTUITIVE ACCESSORIES CONNECTIONS

ACCESSORIES KIT

P12352 50 mm Oil & Swarf KIT Ø50

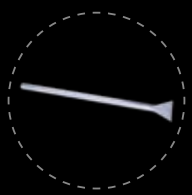
P12355 50 mm Oil & Swarf KIT PRO Ø50

CONNECTIONS

P09214 50 mm Rubber sleeve for hoses

FINAL ACCESSORIES

P11933/50 50 mm Reinforced abrasion proof hose



P00329 50 mm Scraping suction pipe

P00301 50 mm Flat pipe

P10410 50 mm Oil proof rubber scraper

P00308 50 mm Oil proof rubber conic nozzle

P00649 50 mm "S" Handgrip for floor brush

P00783 50 mm Extension pipe with handle

P01038 50 mm Floor squedgee with rubber strips

OPTIONALS

P09679

PPL filter
150µ efficiency

P09678

TNT disposable filter

P12475

Oil proof cartridge

PUMP

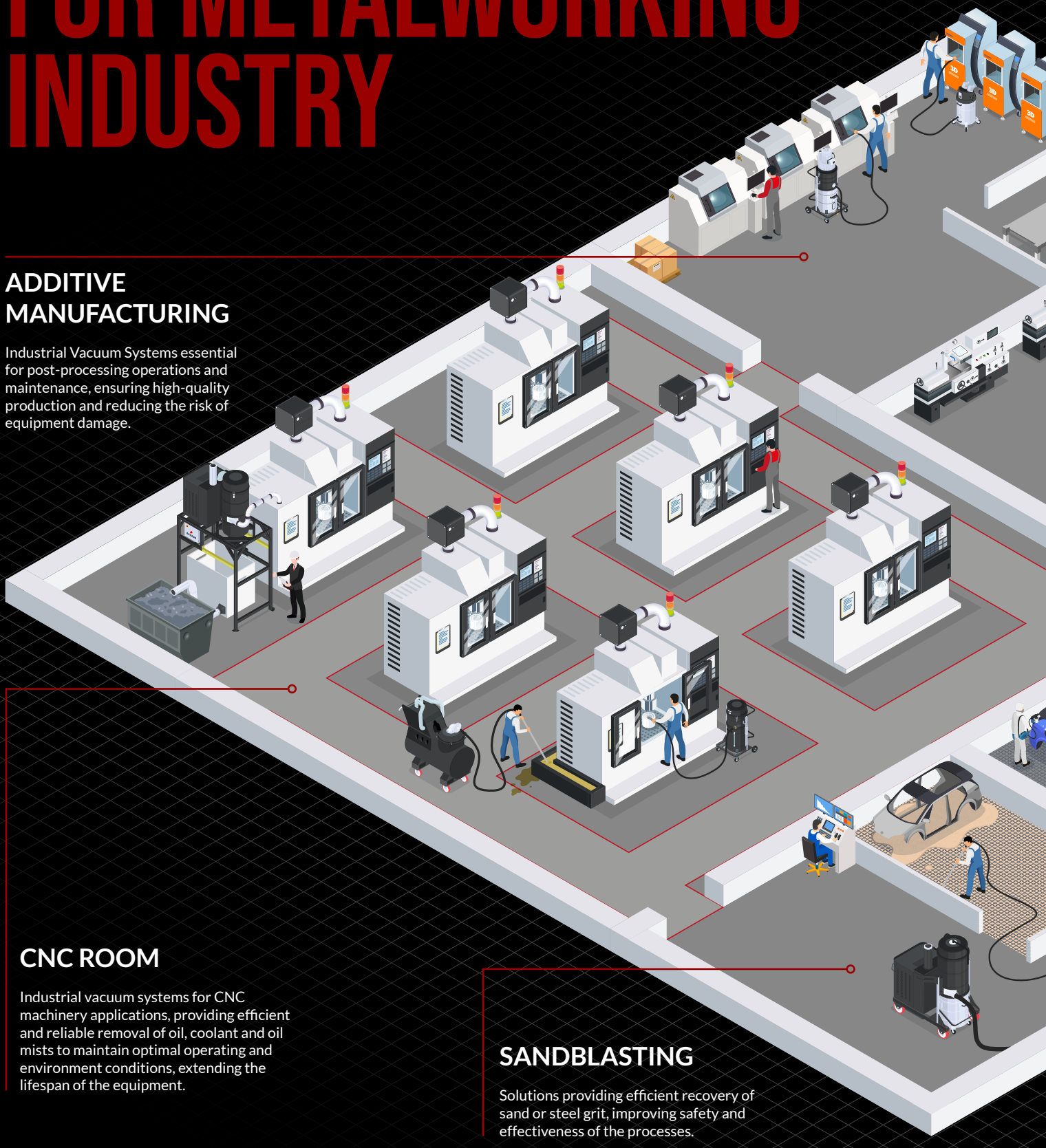
Continuous
discharge pump

BIS

Inspection door

INDUSTRIAL VACUUMS

DEPURECO SOLUTIONS FOR METALWORKING INDUSTRY



ADDITIVE MANUFACTURING

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

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.

SANDBLASTING

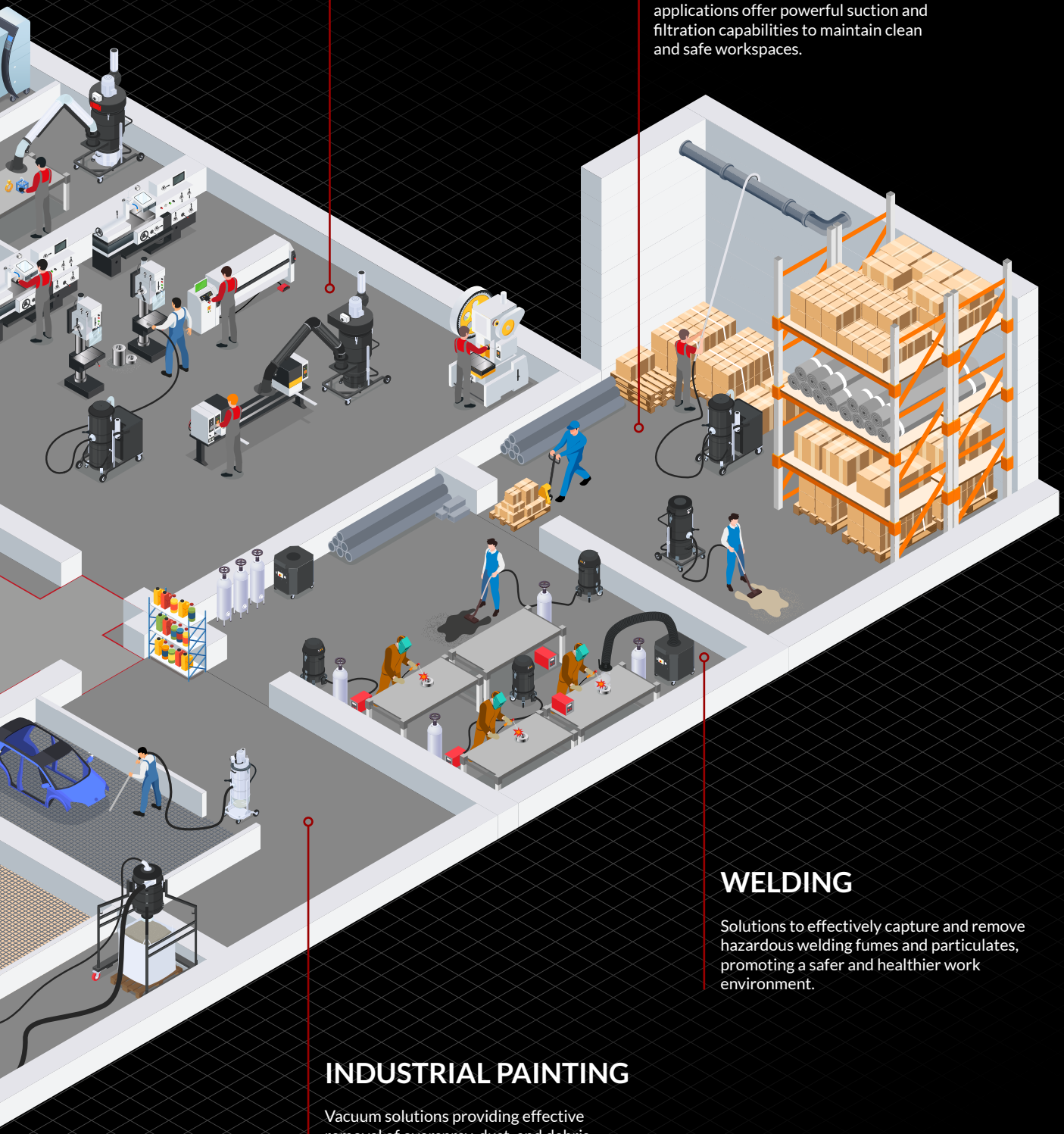
Solutions providing efficient recovery of sand or steel grit, improving safety and effectiveness of the processes.

METALWORKING

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

WAREHOUSE

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



WELDING

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

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.

COMPLETE METALWORKING SOLUTIONS

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www.ahbinc.com
customerservice@ahbinc.com

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Via Venezia, 32 - 10088 Volpiano (TO)
Tel. +39 011 98.59.117

www.depureco.com
depureco@depureco.com