

**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.



Hydraulic oils

Clean lubricants

Mud and swarf

## CLEAN AND REUSE



Recovery and reuse of clean lubricants, coolants and cutting oil



Saving on oil purchase and chips disposal costs



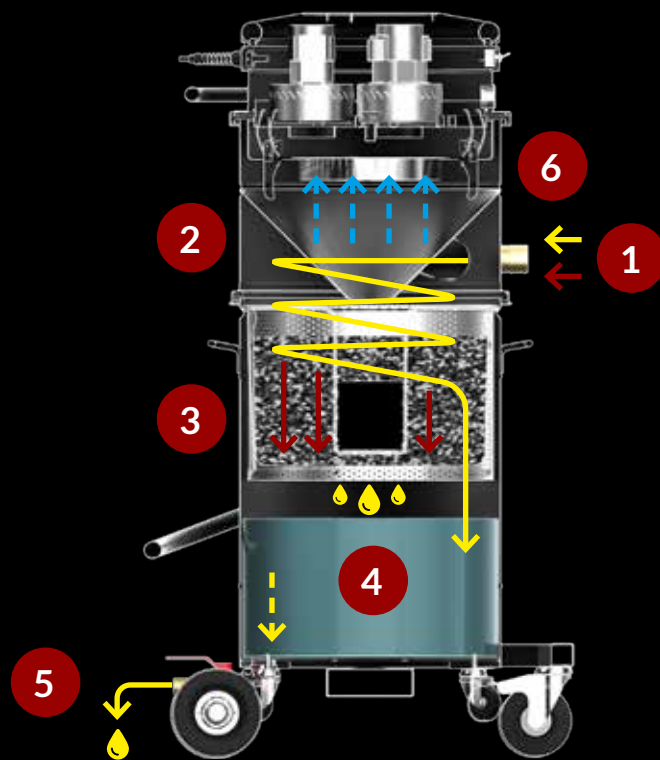
Maintenance time reduction and avoid downtimes



# WORKING PRINCIPLE

## WITH BIN

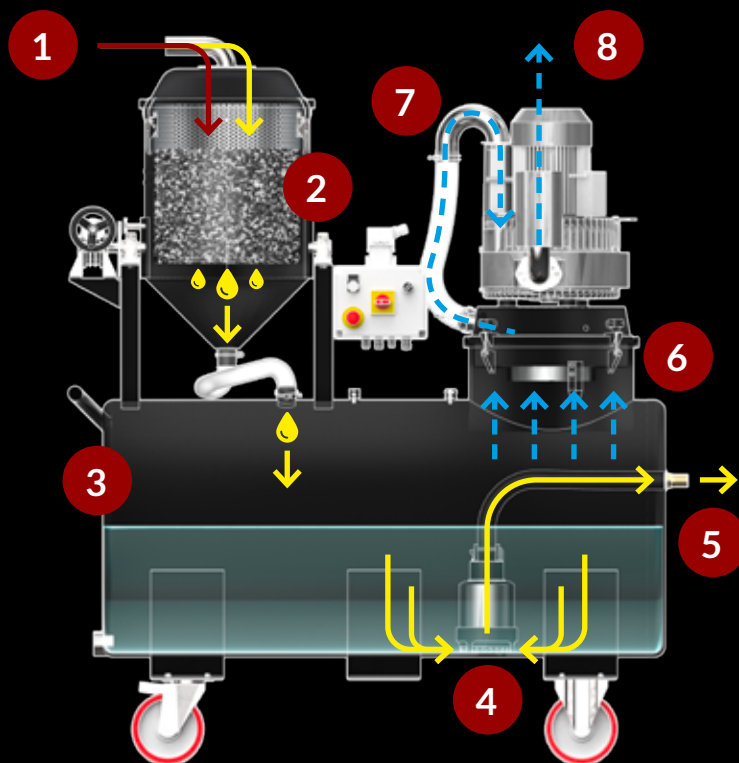
1. The oil and the swarf get sucked into the inlet.
2. The mixture travels around the cyclone in a circular motion.
3. The swarf gets separated from the oil with a metal basket and a PPL filter with 150  $\mu$  efficiency.
4. The clean oil gets collected in the metal bin.
5. The oil can easily be discharged to be collected and reused.
6. The air passes through 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. 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. The air is blown out clean in the environment.

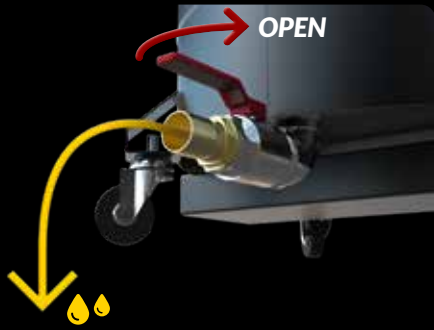


● Swarf ● Lubricant ● Air



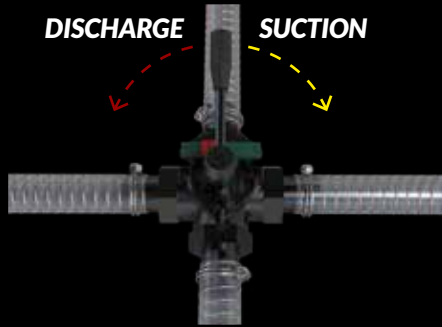
# HOW TO CHOOSE DISCHARGE SYSTEMS FOR LIQUIDS

**SIMULTANEOUS  
SUCTION AND  
DISCHARGE!**



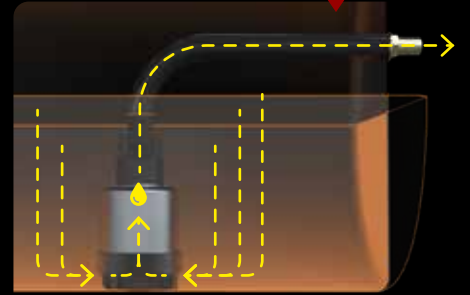
## GRAVITY

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 & SWAB 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	18 gal <span style="color: lightblue;">■</span>	26 gal <span style="color: lightblue;">■</span>	26 gal <span style="color: lightblue;">■</span>	34 gal <span style="color: lightblue;">■</span>	66 gal <span style="color: lightblue;">■</span>
SOLID CAPACITY	10 gal <span style="color: gray;">■</span>	13 gal <span style="color: gray;">■</span>	13 gal <span style="color: gray;">■</span>	11 gal <span style="color: gray;">■</span>	18 gal <span style="color: gray;">■</span>



RAM 280 MP	RAM 500 MP	RAM 500 T	RAM 500 T MP	RAM 1000 AV
				■
■	■	■	■	
74 gal	74 gal	132 gal	132 gal	264 gal
11 gal	11 gal	11 gal	18 gal	11 gal

# M 70 OIL

Code: **A454/A454 P**

-  Power: 2.2 HP
-  Liquid capacity: 18 gal  
Solid capacity: 10 gal
-  Suction time: 18 gal/18 sec  
Discharge time: 18 gal/20 sec
-  Dimensions: in 28 X 18 X 57 h



2 By-Pass motors



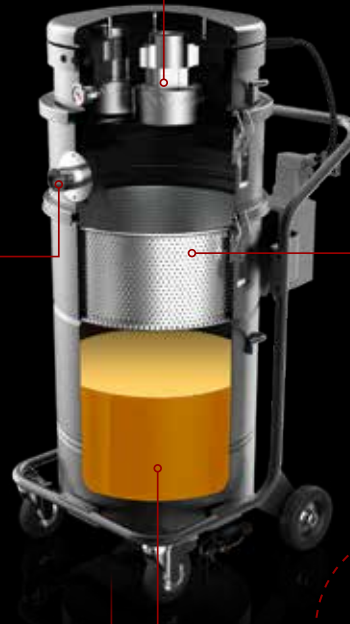
**P12355:** Oil Kit PRO Ø2



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



Manual discharge  
by gravity







**PUMP:** Immersion  
discharge pump



- Optional -

# M 100 OIL

Code: **A455**

-  Power: 3.3 HP
-  Liquid capacity: 26 gal  
Solid capacity: 13 gal
-  Suction time: 26 gal/26 sec
-  Dimensions: in 27 X 18 X 55 h



Scan the QR-Code  
to watch the video



**P12475:** Oil proof  
cartridge



3 By-Pass motors



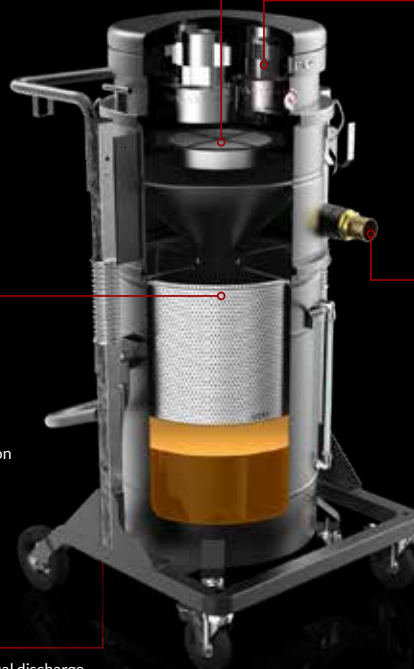
**P09679:** PPL Filter (150 µ)  
+ Metal separation basket  
+ Floating system to automatically stop suction



Tangential inlet with cyclone



Manual discharge  
by gravity







**P12355:** Oil Kit PRO Ø2

- Recommended -



# FROG





Code: **A386**

-  Power: 2.2 HP
-  Liquid capacity: 34 gal  
Solid capacity: 11 gal
-  Suction time: 34 gal/30 sec  
Discharge time: 34 gal/50 sec
-  Dimensions: in 28 X 47 X 52 h



# RAM OIL 280/500 MP





Code: **A373/US | A730/US**

-  Power: 3.3 HP
-  Liquid capacity: 74/132 gal  
Solid capacity: 11 gal
-  Suction time: 74 gal/60 sec  
Discharge time: 74 gal/60 sec
-  Dimensions: in 28 X 57 X 55 h  
in 24 X 59 X 55 h



# CLEAN OIL T

Code: **A450/US**

-  Power: 4.63 HP
-  Liquid capacity: 26 gal  
Solid capacity: 13 gal
-  Suction time: 26 gal/26 sec  
Discharge time: 26 gal/92 sec
-  Dimensions: in 33 X 28 X 64 h

 Scan the QR-Code to watch the video



Reverse Flow Discharge system



Side channel blower



P12475: Oil proof cartridge



Tangential inlet with cyclone







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



P12355: Oil Kit PRO Ø2

# RAM OIL 250 T

Code: **A404/405**

-  Power: 4 HP
-  Liquid capacity: 66 gal  
Solid capacity: 18 gal
-  Suction time: 66 gal/52 sec  
Discharge time: 66 gal/100 sec
-  Dimensions: in 33 X 61 X 70 h



Tiltable discharging hopper



P12352: Oil Kit Ø2



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



P12475: Oil proof cartridge







Side channel blower



Discharge pump

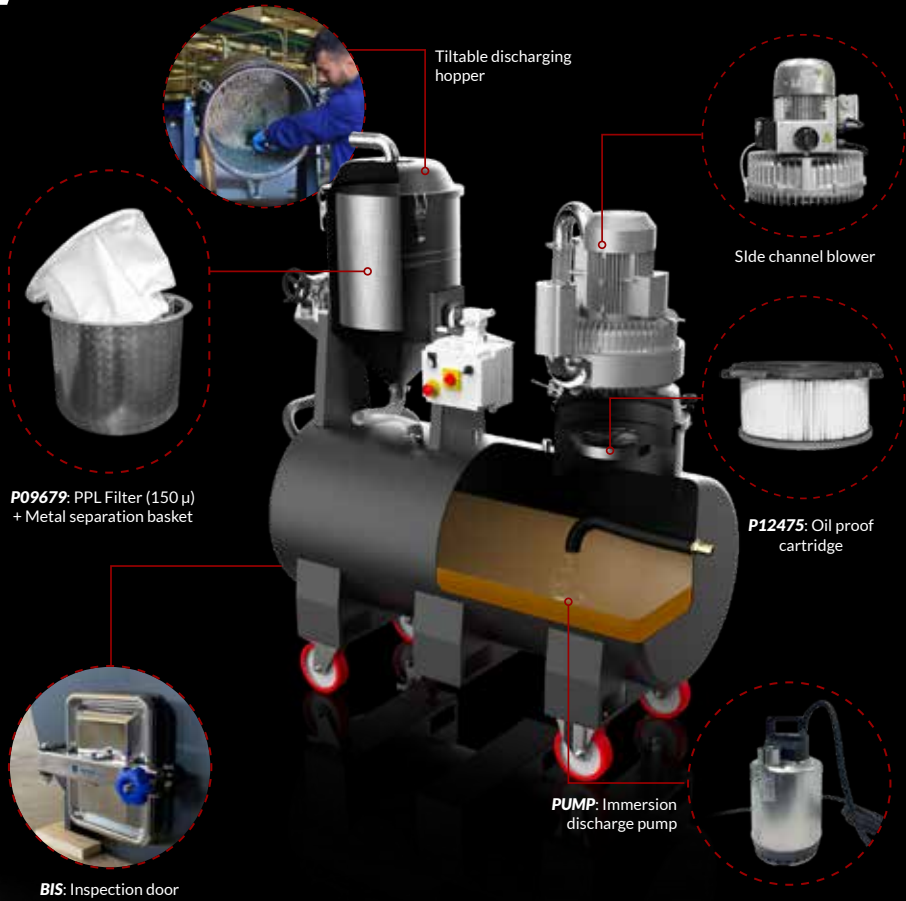
# RAM OIL T 500/T 500 MP

Code: **A378/US | A406/US**

-  Power: 6.5/3 HP
-  Liquid capacity: 132 gal  
Solid capacity: 18 gal
-  Suction time: 132 gal/120 sec  
Discharge time: 132 gal/120 sec
-  Dimensions: in 24 X 59 X 70 h



Scan the QR-Code to watch the video



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

**BIS:** Inspection door

Tiltable discharging hopper





Slide channel blower

**P12475:** Oil proof cartridge

**PUMP:** Immersion discharge pump

# RAM OIL 1000 AV

Code: **A379-001**

-  Power: 7.5 HP
-  Liquid capacity: 264 gal  
Solid capacity: 11 gal
-  Suction time: 264 gal/220 sec  
Discharge time: 264 gal/240 sec
-  Dimensions: in 37 X 65 X 74 h



High Vacuum Pump with **354 inH<sub>2</sub>O** depression

**BIS:** Inspection door

Reverse Flow Discharge system

**354 inH<sub>2</sub>O**

**P12352:** Oil Kit Ø2

- Included

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

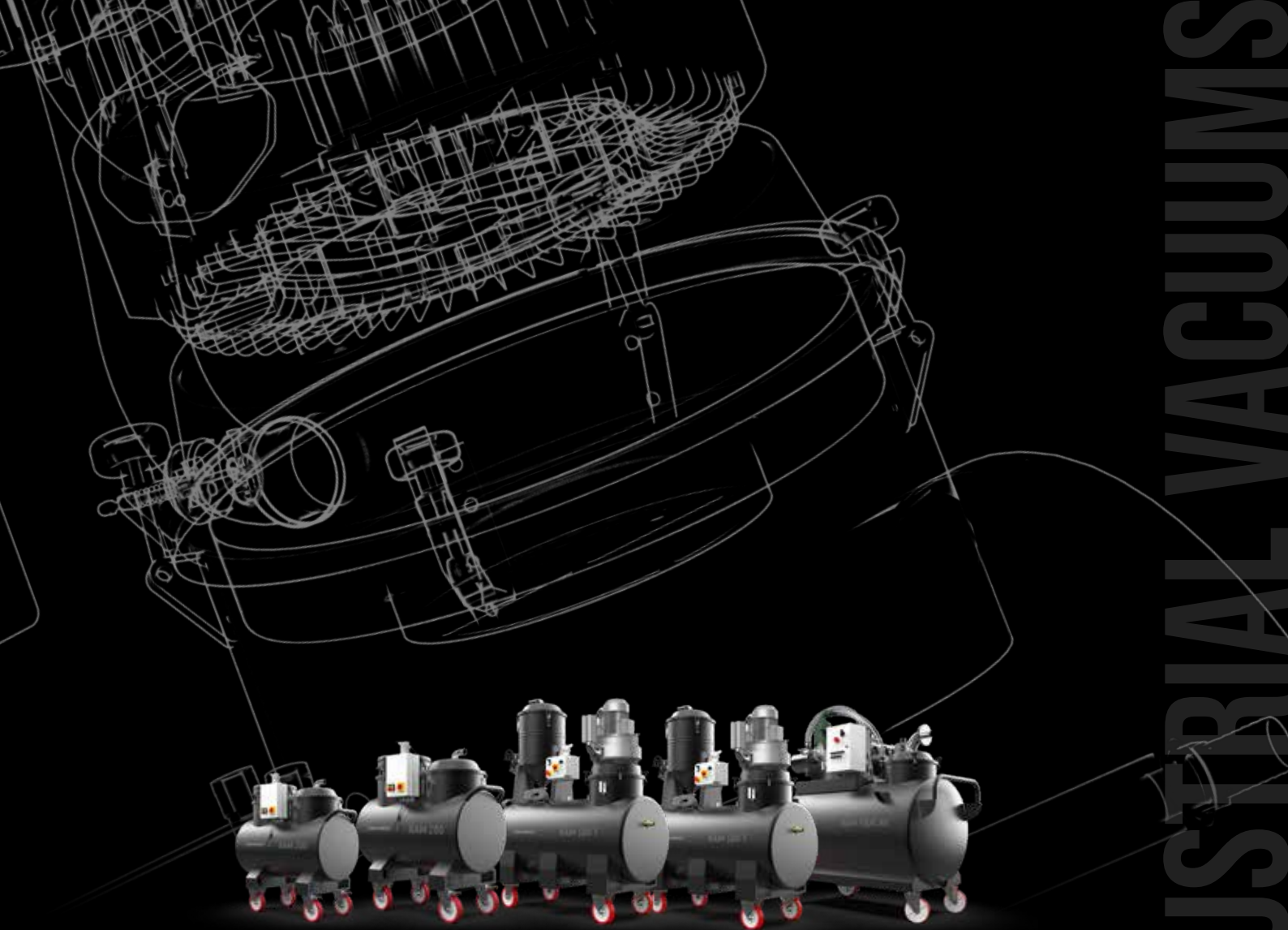
OIL & SWAB INDUSTRIAL VACUUMS

# TECHNICAL DATA



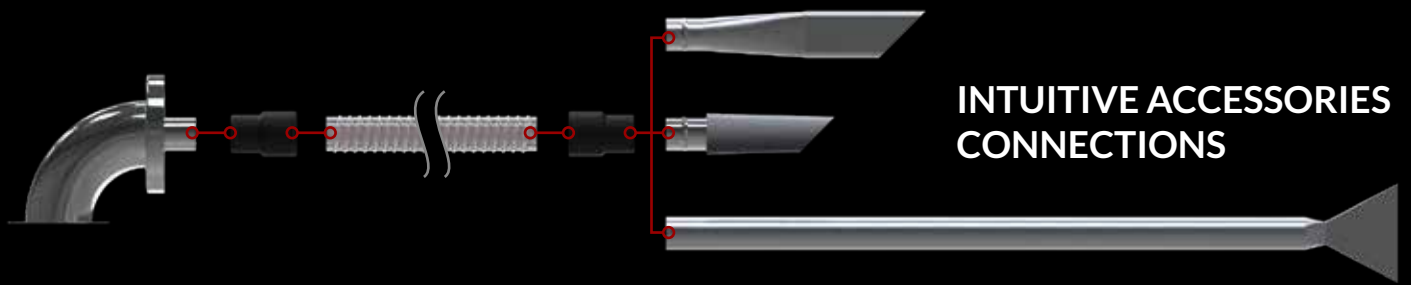
Technical data	Units	M 70 Oil / P	M 100 Oil	Clean Oil T	Frog Oil	Ram 250 T
Code		A454   A454 P	A455	A450/US	A386	A404/US
Motor type		2   By-Pass	3   By-Pass	Side Channel Blower	2   By-Pass	Side Channel blower
Power	HP	2.2	3.3	4.63	2.2	4
Voltage   Frequency	V   Hz	110   60	110   60	480   60	110   60	480   60
IP   Insulation class		---	---	55   F	---	55   F
Maximum vacuum	inH <sub>2</sub> O	98	98	90	98	116
Vacuum in continuous run	inH <sub>2</sub> O	---	---	80	---	104
Maximum air flow	CFM	224	336	300	224	198
Suction time	gal/sec	18/18	26/26	26/26	34/30	66/50
Dumping time	gal/sec	18/20	---	26/92	34/50	66/100
Suction inlet	Ø in	2	2	2	2	2
Noise level - (EN ISO 3744)	dB (A)	70	72	78	70	72
Liquid capacity	gal	18	26	26	34	66
Solid capacity	gal	10	13	13	11	18
Dimensions	in	28 X 18 X 57 h	27 X 18 X 55 h	27 X 18 X 55 h	28 X 47 X 52 h	33 X 61 X 70 h
Weight	lb	198	198	242	209	485
Primary discharge type		Gravity	Gravity	Reverse flow	Reverse flow	Discharge pump
Optional discharge type		Discharge pump	---	---	Discharge pump	---
<b>Primary filter</b>						
Type		Oil Proof cartridge	Oil Proof cartridge	Oil Proof cartridge	---	Oil Proof cartridge
<b>Secondary Filter</b>						
Type		PPL Filter	PPL Filter	PPL Filter	PPL Filter	PPL Filter





<b>Ram 280 MP</b>	<b>Ram 500 MP</b>	<b>Ram 500 T</b>	<b>Ram 500 T MP</b>	<b>Ram 1000 AV</b>
A373/US	A730/US	A378/US	A406/US	A379-001
3   By-Pass	3   By-Pass	Side Channel Blower	Side Channel Blower	Rotary vane pump
3.3	3.3	6.5	3.3	7.5
110   60	110   60	480   60	480   60	480   60
---	---	55   F	55   F	55   F
98	98	160	98	354
---	---	138	---	314
336	336	180	336	176
74/63	132/63	132/120	132/120	264/220
74/60	132/60	132/120	132/120	264/240
2	2	2	2	2
72	72	72	72	82
74	132	132	132	264
11	11	18	18	11
28 X 57 X 55 h	24 X 59 X 55 h	24 X 59 X 70 h	24 X 59 X 70 h	37 X 65 X 74 h
485	650	705	705	1015
Discharge pump	Discharge pump	Discharge pump	Discharge pump	Reverse flow
---	---	---	---	---
Oil Proof cartridge	Oil Proof cartridge	Oil Proof cartridge	Oil Proof cartridge	---
PPL Filter	PPL Filter	PPL Filter	PPL Filter	PPL Filter

# ACCESSORIES



## ACCESSORIES KIT



**P12352**

2 in

Oil & Swarf  
KIT Ø2



**P12355**

2 in

Oil & Swarf  
KIT PRO Ø2

## CONNECTIONS



**P09214**

2 in

Rubber sleeve for  
hoses

## FINAL ACCESSORIES



**P11933/50**

2 in

Reinforced abrasion  
proof hose



**P00329**

2 in

Scraping suction pipe



**P00301**

2 in

Flat pipe



**P10410**

2 in

Oil proof rubber  
scraper



**P00308**

2 in

Oil proof rubber  
conic nozzle



**P00649**

2 in

"S" Handgrip for floor  
brush



**P00783**

2 in

Extension pipe  
with handle



**P01038**

2 in

Floor squedge with  
rubber strips

# OPTIONALS



**P09679**

PPL filter  
150 $\mu$  efficiency



**P09678**

TNT disposable filter



**P12475**

Oil proof cartridge



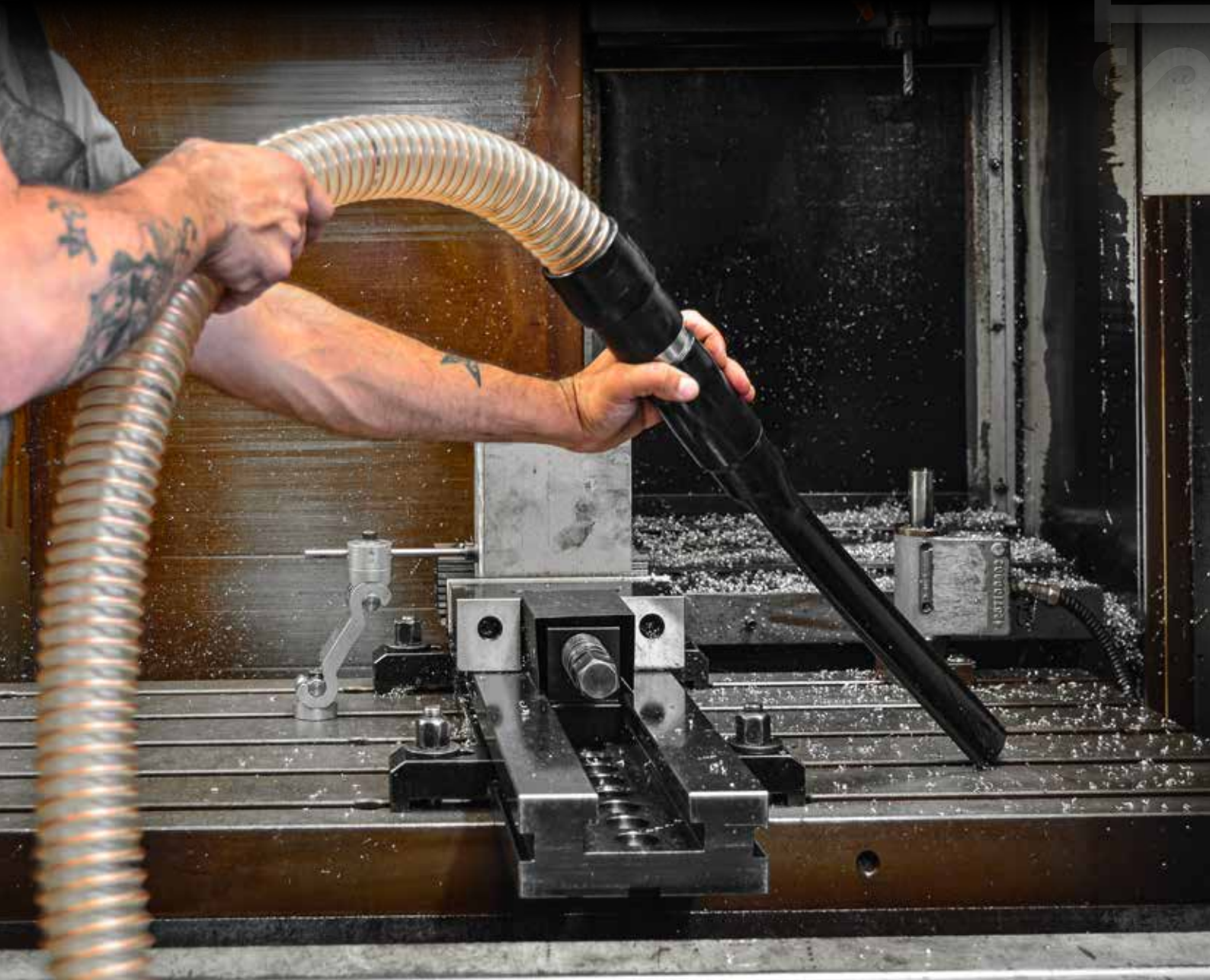
**PUMP**

Continuous  
discharge pump



**BIS**

Inspection door





# 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

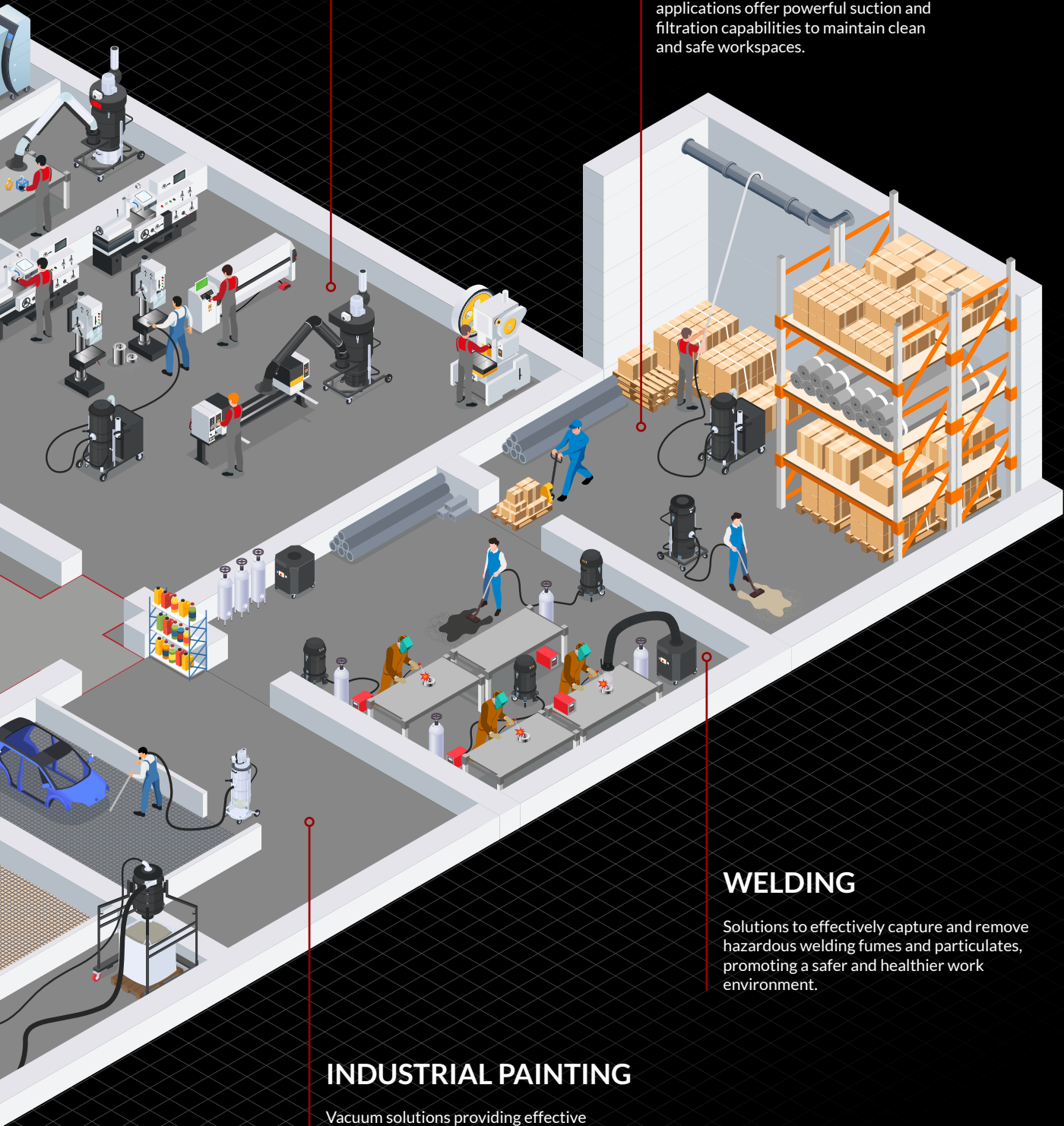
Versatile and effective solutions for general cleaning or overhead applications offer powerful suction and filtration capabilities to maintain clean and safe workspaces.

## 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.



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