

**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

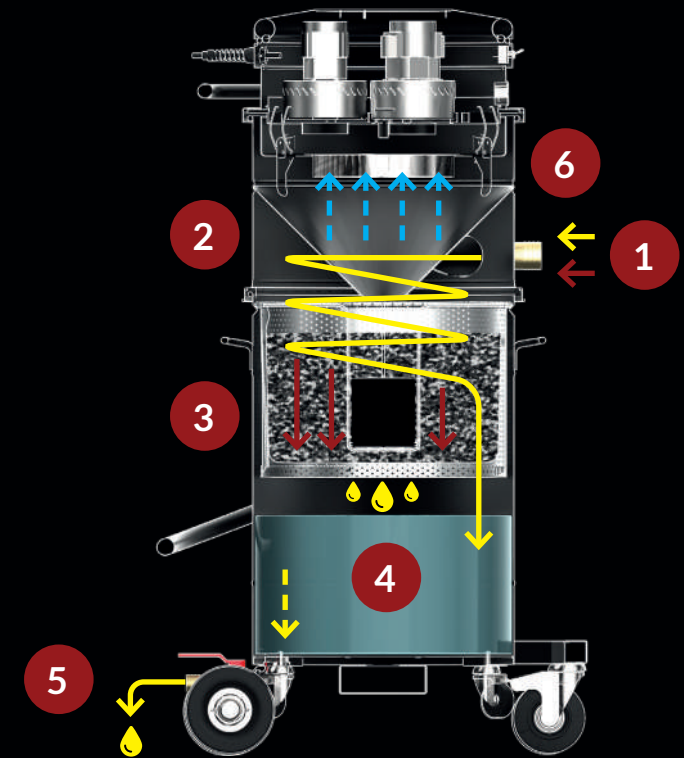


# WORKING PRINCIPLE

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 through an oil proof filter that traps the oil mist and protects the motors.

● Swarf ● Lubricant ● Air



## CLEAN AND REUSE



Recovery and reuse of clean lubricants, coolants and cutting oil



Saving on oil purchase and chips disposal costs



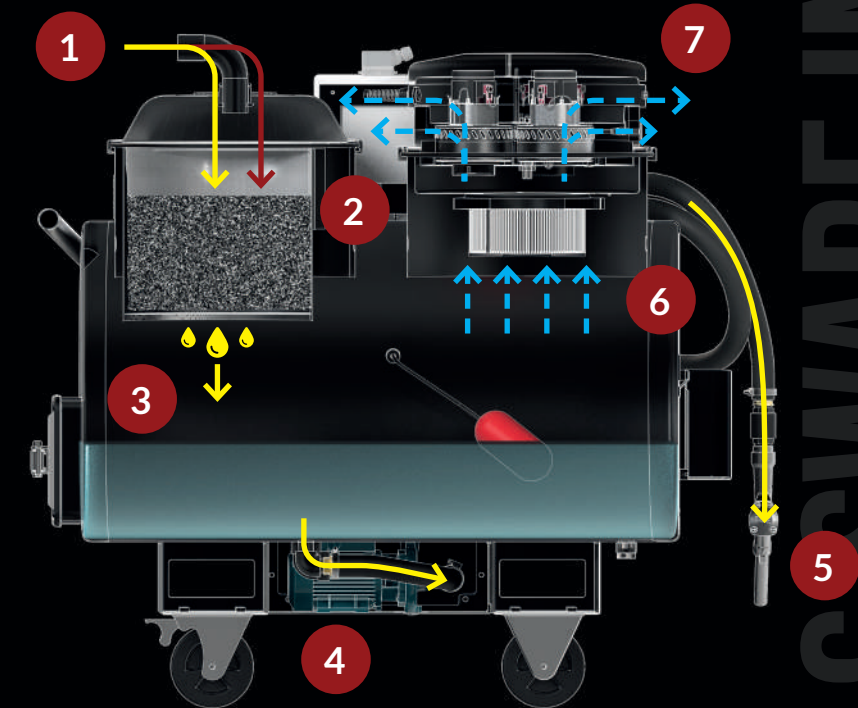
Maintenance time reduction and avoid downtimes



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 external 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 3 by-pass motors and gets out clean in the environment.

● Swarf ● Lubricant ● Air

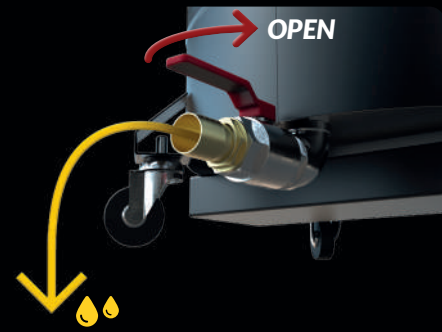


OIL & SWARF INDUSTRIAL VACUUMS



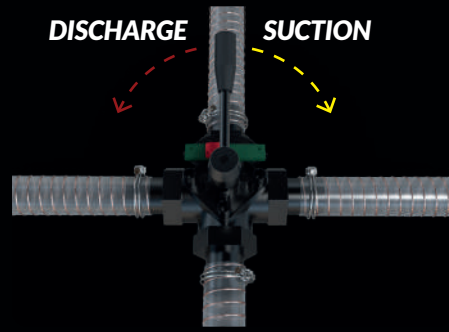
# HOW TO CHOOSE

## DISCHARGE SYSTEMS FOR LIQUIDS



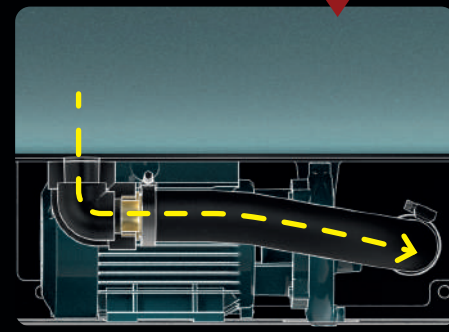
### GRAVITY

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.



### EXTERNAL PUMP

The vacuum cleaner is equipped with an external 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.

**SIMULTANEOUS SUCTION AND DISCHARGE!**

## 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.

## 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

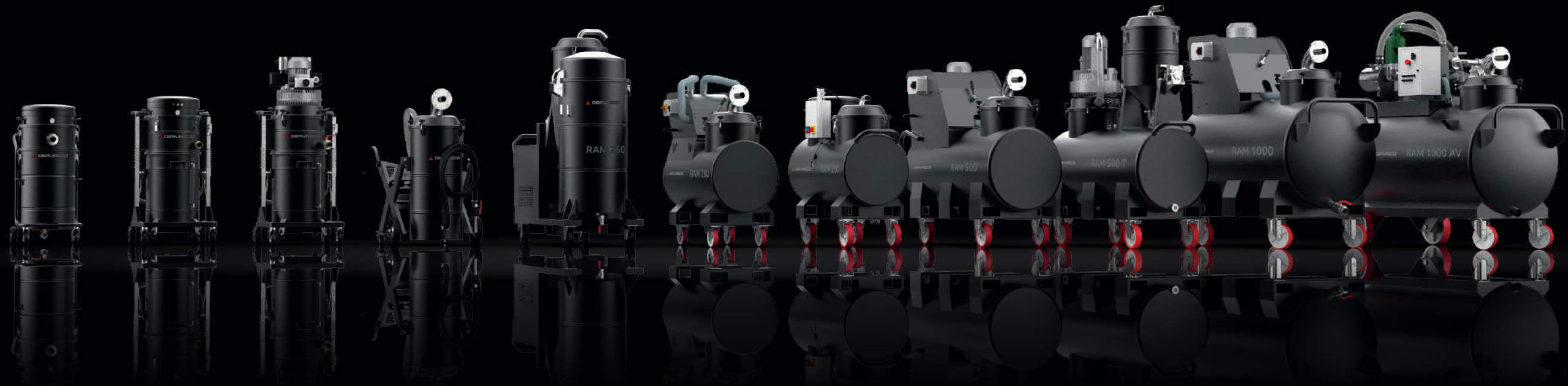
Above the vacuum's tank is installed a tiltable hopper. A metal basket, paired with a PPL filter, is placed inside the hopper. The two act as a sieve, separating any solid particle eventually present from the vacuumed liquid and allowing a comfortable and safe discharge of the swarf

## 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!



# OIL & SWARF OVERVIEW



- Standard
- Optional

	M 70 OIL	M 100 OIL	CLEAN OIL	FROG	RAM 250	RAM 280	RAM 280 MP	RAM 500	RAM 500 T	RAM 1000	RAM 1000 AV
MANUAL	■	■									
REVERSE FLOW			■	■		■	■	■	■	■	■
PUMP FOR CONTINUOUS DISCHARGE	□			□	■	□	■	□	■	□	
LIQUID CAPACITY	70 Lt	100 Lt	100 Lt	130 Lt	250 Lt	280 Lt	280 Lt	500 Lt	500 Lt	1000 Lt	1000 Lt
SOLID CAPACITY	40 Lt	50 Lt	50 Lt	40 Lt	70 Lt	40 Lt	40 Lt	40 Lt	40 Lt	40 Lt	40 Lt



# M 70 OIL

- 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

Code: A454/A454 P



# CLEAN OIL T/M

- 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

Code: A450/A452



# M 100 OIL

- 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

Code: A455



# FROG

- 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

Code: A386





# RAM OIL 250 T/S

- 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

Code: A404/405



Tiltable discharging hopper



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



Side channel blower



Discharge pump



P12352: Oil Kit Ø50



P12475: Oil proof cartridge



Discharge pump



# RAM OIL 280 MP

- 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

Code: A374



P12475: Oil proof cartridge



3 By-Pass motors



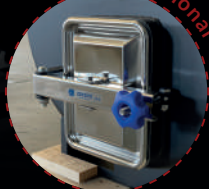
360° Rotating inlet



Accessory basket



PUMP: External discharge pump



BIS: Inspection door



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



# RAM OIL 280

- 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

Code: A375



Reverse Flow Discharge system



Side channel blower



PUMP: External discharge pump



P12352: Oil Kit Ø50



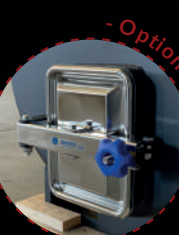
P09679: PPL Filter (150 µ)  
+ Metal separation basket



PUMP: External discharge pump



Scan the QR-Code to watch the video



BIS: Inspection door

# RAM OIL 500

- 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

Code: A378-001



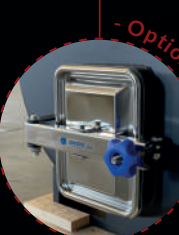
Reverse Flow Discharge system



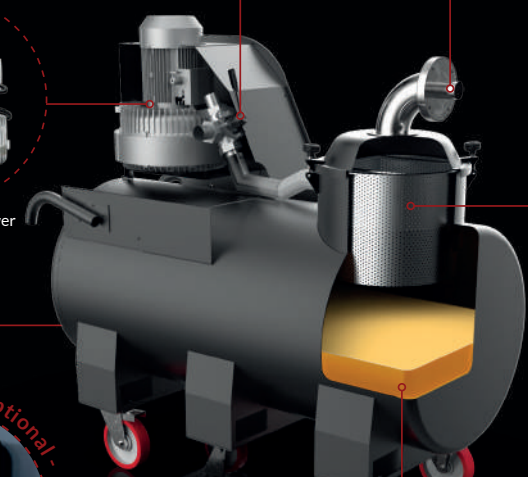
Side channel blower



Scan the QR-Code to watch the video



BIS: Inspection door



PUMP: External discharge pump



P12352: Oil Kit Ø50



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



# 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

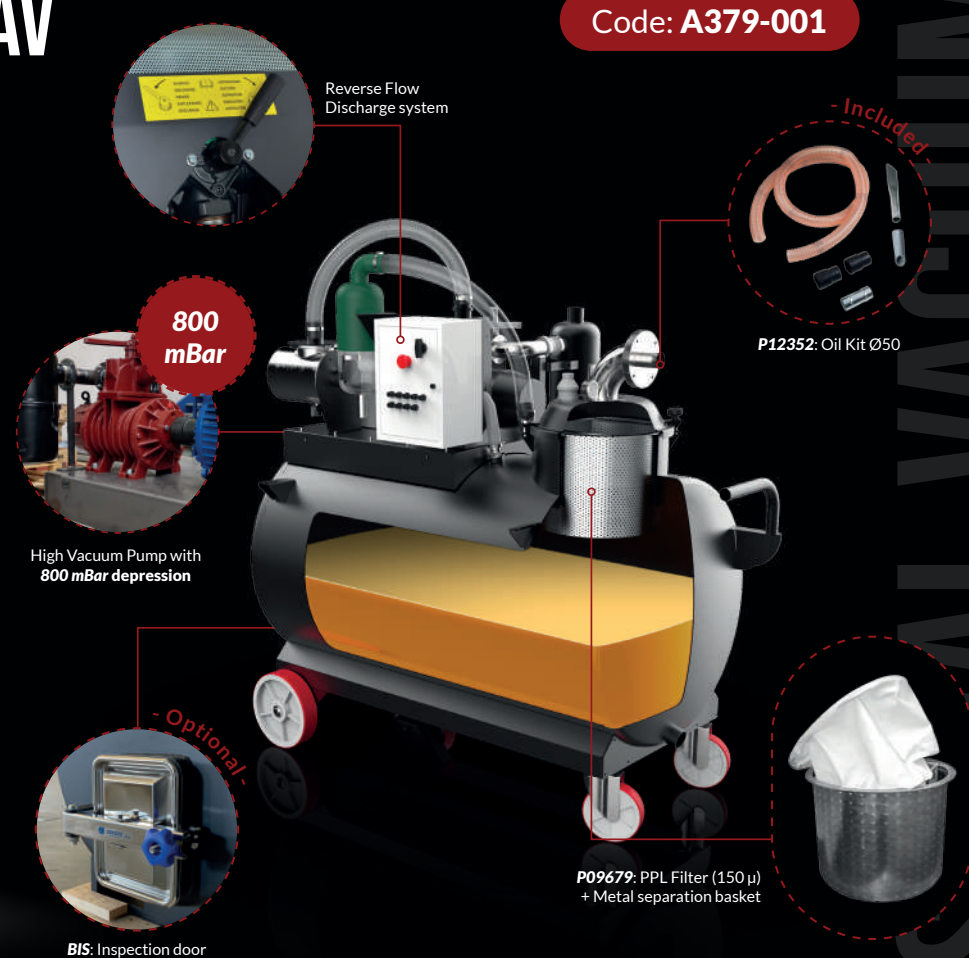


# RAM OIL 1000 AV

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

Scan the QR-Code to watch the video



# RAM OIL 1000

Code: A379

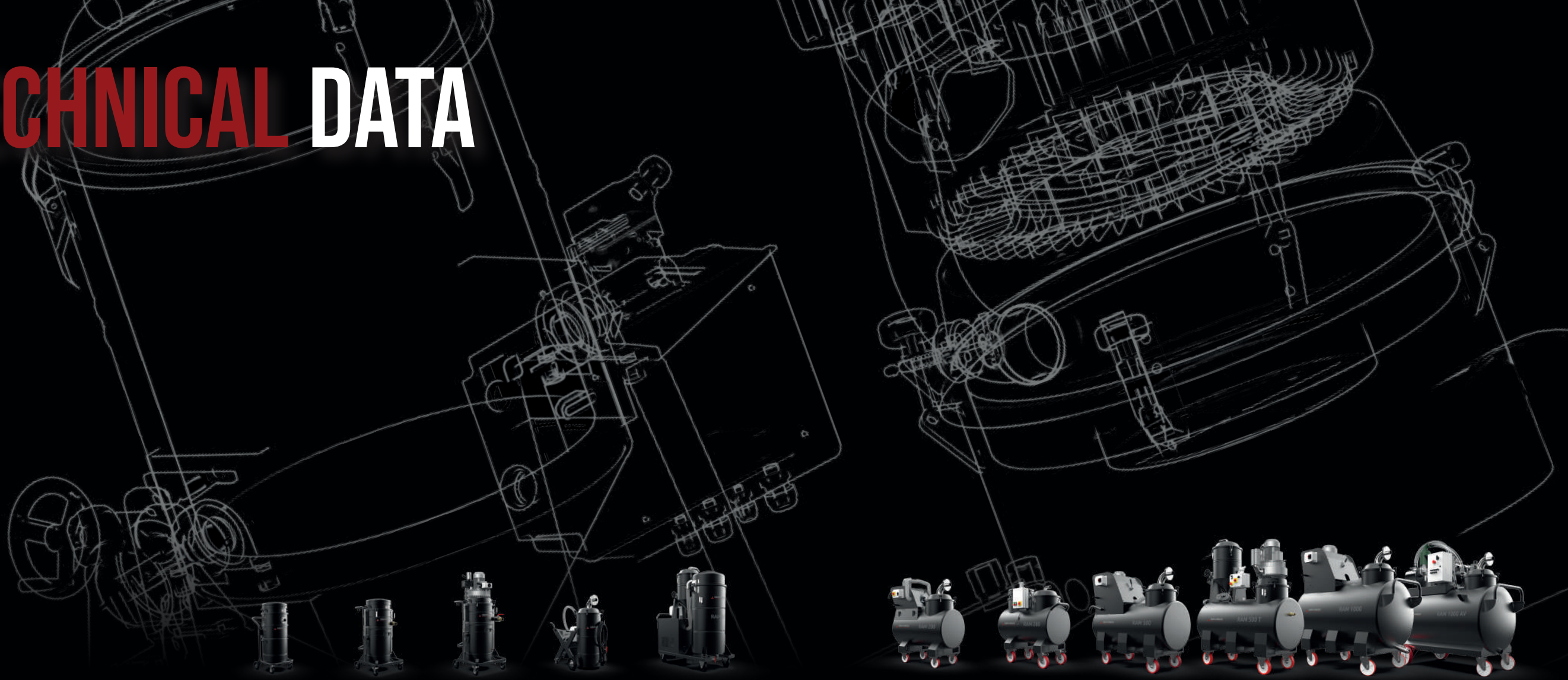
- Power: 5,5 kW
- Liquid capacity: 1000 Lt  
Solid capacity: 40 Lt
- Suction time: 1000 Lt/200 sec  
Discharge time: 1000 Lt/200 sec
- Dimensions: mm 950 X 1850 X 1891 h

Scan the QR-Code to watch the video





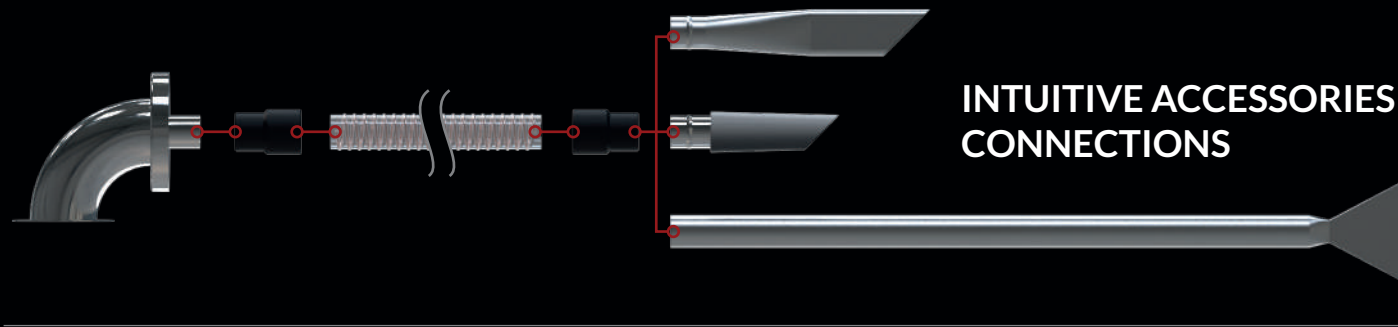
# TECHNICAL DATA



Technical data	Units	M 70 Oil / P	M 100 Oil	Clean Oil T / M	Frog Oil	Ram 250 T / S	Ram 280	Ram 280 MP	Ram 500	Ram 500 T / 555 T	Ram 1000	Ram 1000 AV
Code		A454   A454 P	A455	A450   A452	A386	A404   A405	A375	A374	A378-001	A378-003   A381	A379	A379-001
Motor type		2   By-Pass	3   By-Pass	Side Channel Blower	2   By-Pass	Side Channel blower	Side Channel Blower	3   By-Pass	Side Channel Blower	Side Channel Blower	Side Channel blower	Rotary vane pump
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	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
Voltage   Frequency	V   Hz	240   50-60	230   50/60	400   50-60	240   50-60	400   50-60	400   50-60	230   50-60	400   50-60	400   50-60	400   50-60	400   50-60
IP   Insulation class		---	---	55   F	---	55   F	55   F	---	55   F	55   F	55   F	55   F
Maximum vacuum	mBar	250	250	320	250	290 / 510	280	250	420	420 / 480	480	900
Vacuum in continuous run	mBar	---	---	250 / 180	---	260 / 440	220	---	360	360 / 420	420	800
Maximum air flow	m³/h	380	570	350	380	320 / 330	220	570	320	320	320	300
Suction time	L/sec	70/18	100/26	100/26	130/30	250/50	280/80	280/63	500/120	500/120	1000/200	1000/220
Dumping time	L/sec	70/20	---	100/92	130/50	250/100	280/80	280/60	500/120	500/120	1000/200	1000/240
Suction inlet	Ø mm	50	50	50	50	50	50	50	50	50	50	50
Noise level - (EN ISO 3744)	dB (A)	70	72	78 / 74	70	72	72	72	72	72 / 76	76	82
Liquid capacity	Lt	70	100	100	130	250	280	280	500	500	1000	1000
Solid capacity	Lt	40	50	50	40	70	40	40	40	70	40	40
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	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
Weight	Kg	90	90	110	95	240	220	135	220	320 / 350	250	460
Primary discharge type		Gravity	Gravity	Reverse flow	Reverse flow	Discharge pump	Reverse flow	Discharge pump	Reverse flow	Discharge pump	Reverse flow	Reverse flow
Optional discharge type		Discharge pump	---	---	Discharge pump	---	Discharge pump	---	Discharge pump	---	Discharge pump	---
<b>Primary filter</b>												
Type		Oil Proof cartridge	Oil Proof cartridge	Oil Proof cartridge	---	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	PPL Filter	PPL Filter	PPL Filter	PPL Filter	PPL Filter	PPL Filter



# ACCESSORIES



## ACCESSORIES KIT



**P12352**

50 mm Oil & Swarf KIT Ø50



**P12355**

50 mm Oil & Swarf KIT PRO Ø50

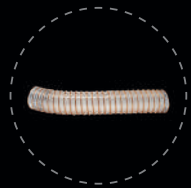
## CONNECTIONS



**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 squeegee with rubber strips

# OPTIONALS



**P09679**

PPL filter  
150µ efficiency



**P09678**

TNT disposable filter



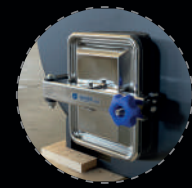
**P12475**

Oil proof cartridge



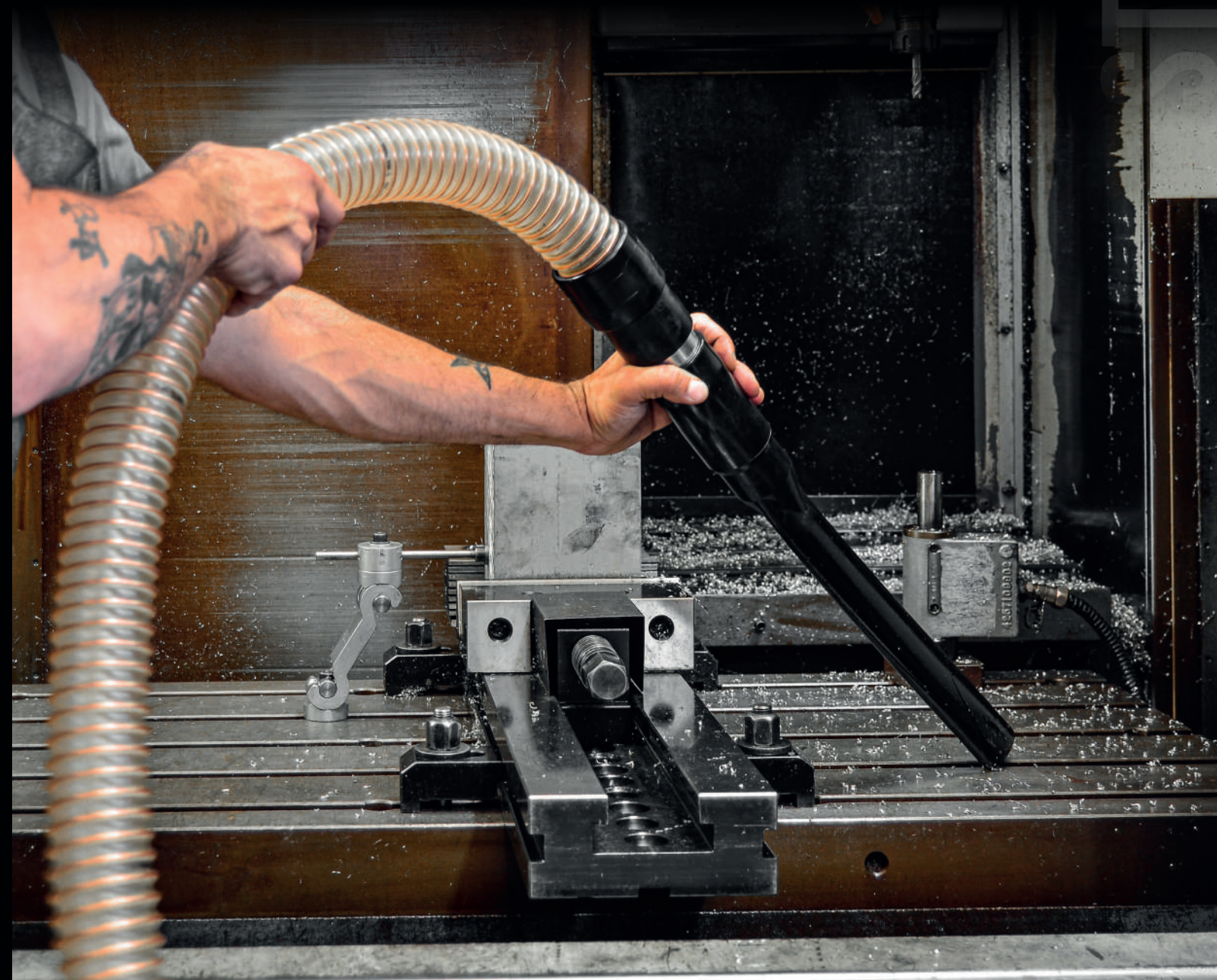
**PUMP**

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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