

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

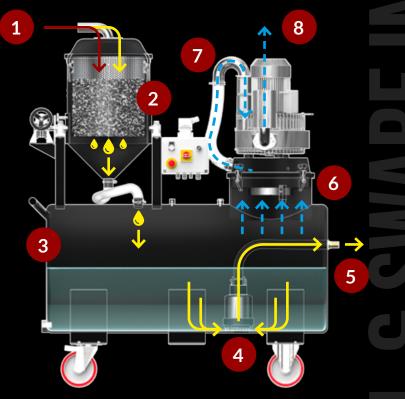


WORKING PRINCIPLE

- 1. The oil and the swarf get sucked into the inlet.
- 2. The mixture travels around the cyclone in a circular motion.
- 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

- 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.



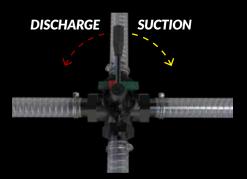
HOW TO CHOOSE DISCHARGE SYSTEMS FOR LIQUIDS

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

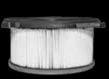


SINGLEPHASE MOTOR

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

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.



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



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



To perfectly adapt the product to your industry



To fit your disposal or recycling needs



OIL & SWARF



Optional

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



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
40Lt	40 Lt	40 Lt	40Lt	40Lt	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





2 By-Pass motors



Manual discharge by gravity **PUMP**: Immersion discharge pump

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Code: A454/A454 P

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



M 100 OIL



<u>Po</u>wer: 3,9 kW



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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







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

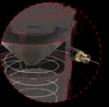


Manual discharge by gravity

17







Tangential inlet with cyclone



P12355: Oil Kit PRO Ø50

CLEAN OIL T/M



2 By-Pass motors

9

discharge pump

RAM OIL 250 T/S



Power: 3/5,5 kW



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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





SIde channel blower



Code: A375

P12352: Oil Kit Ø50

RAM OIL 280



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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



BIS: Inspection door

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

PUMP: Immersion discharge pump



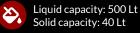
RAM OIL 280 MP

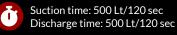


RAM OIL 500









Dimensions: mm 600 X 1510 X 1891 h



Scan the QR-Code to watch the video





BIS: Inspection door

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

P12352: Oil Kit Ø50

PUMP: Immersion discharge pump

BIS: Inspection door

Code: A378-001



RAM OIL T 500/T 555 Code: A378-003/A381 Tiltable discharging • Power: 4,3/5,5 kW hopper Liquid capacity: 500 Lt \mathfrak{L} Solid capacity: 70 Lt Suction time: 500 Lt/120 sec Discharge time: 500 Lt/120 sec SIde channel blower Dimensions: mm 600 X 1510 X 1780 h Scan the QR-Code to watch the video **Ρ09679**: PPL Filter (150 μ) + Metal separation basket P12475: Oil proof . cartridge PUMP: Immersion discharge pump **BIS:** Inspection door



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

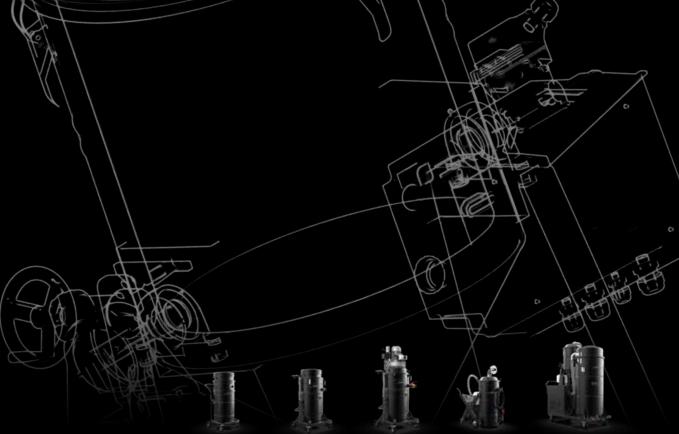




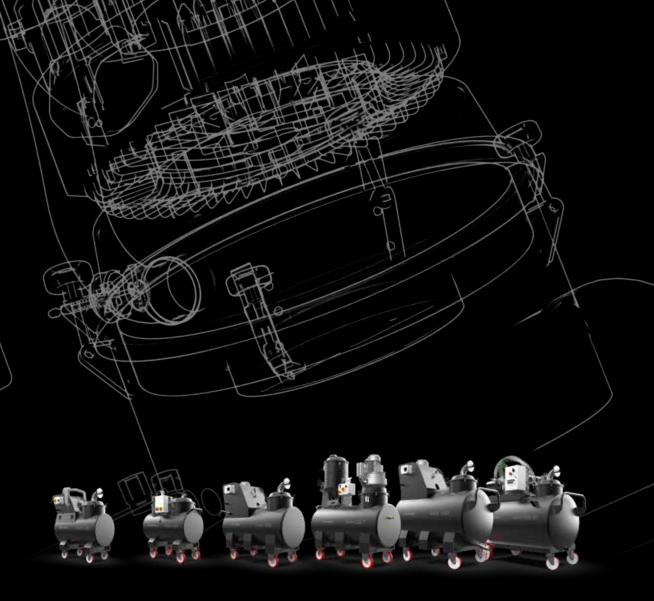
RAM OIL 1000 AV



TECHICAL DATA

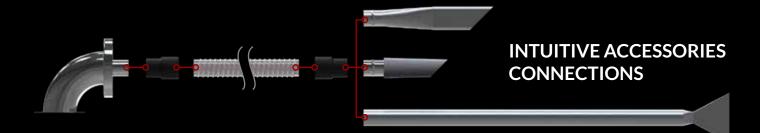


Technical data	Units	M 70 Oil / P	M 100 Oil	Clean Oil T / M	Frog Oil	Ram 250 T / S
Code		A454 A454 P	A455	A450 A452	A386	A404 A405
Motortype		2 By-Pass	3 By-Pass	Side Channel Blower	2 By-Pass	Side Channel blower
Power	kW - HP	2,6 - 3,5	3,9 - 5,2	3-4/2,2-3	2,6 - 3,5	3 - 4 / 5,5 - 7,5
Voltage Frequency	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	m³/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	Ømm	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						
Туре		Oil Proof cartridge	Oil Proof cartridge	Oil Proof cartridge		Oil Proof cartridge
Secondary Filter						
Туре		PPL Filter				
		Pag.8	Pag.8	Pag.9	Pag.9	Pag.10



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
Pag.10	Pag.11	Pag.11	Pag.12	Pag.12	Pag.13

ACCESSORIES



ACCESSORIES KIT



50 mm Oil &

Oil & Swarf KIT Ø50



CONNECTIONS





Rubber sleeve for hoses

FINAL ACCESSORIES

P11933/50	50 mm	Reinforced abrasion proof hose	P	00329	50 mm	Scraping suction pipe
P00301	50 mm	Flat pipe		10410	50 mm	Oil proof rubber scraper
P00308	50 mm	Oil proof rubber conic nozzle		00649	50 mm	"S" Handgrip for floor brush
P00783	50 mm	Extension pipe with handle		01038	50 mm	Floor squedgee with rubber strips

OPTIONALS



PPL filter 150µ efficiency

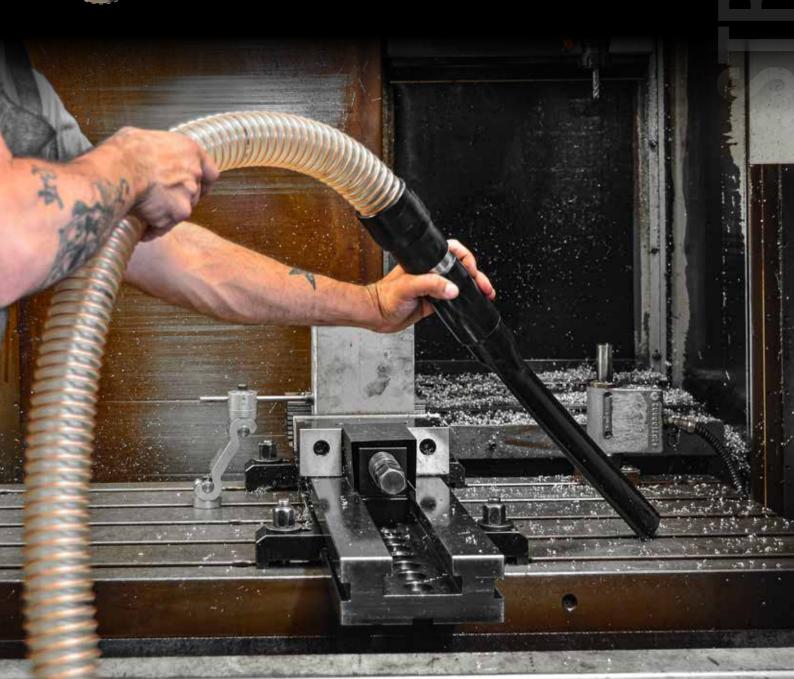
Oil proof cartridge



TNT disposable filter

Continuous discharge pump

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.

IIIIIIIII

METALWORKING

Highly efficient, large collection and costeffective 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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