

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

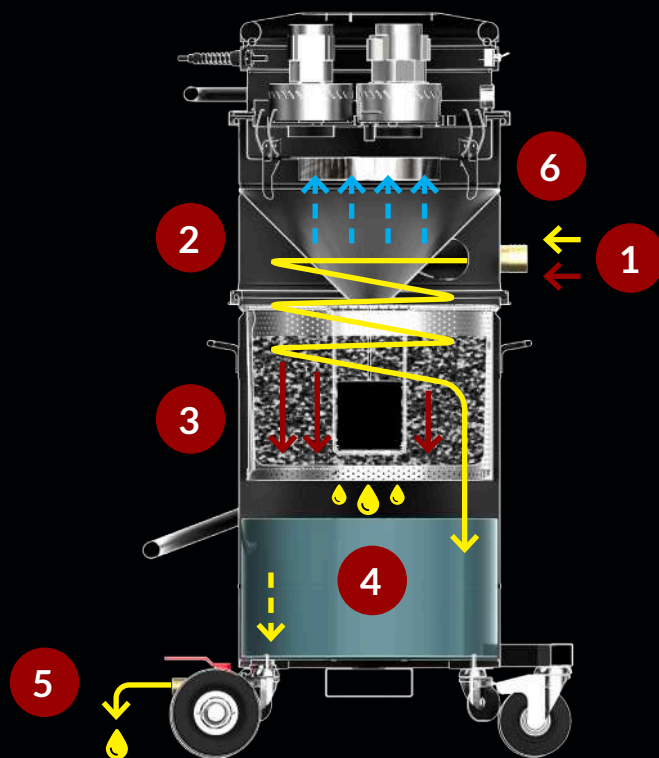


WORKING PRINCIPLE

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 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.

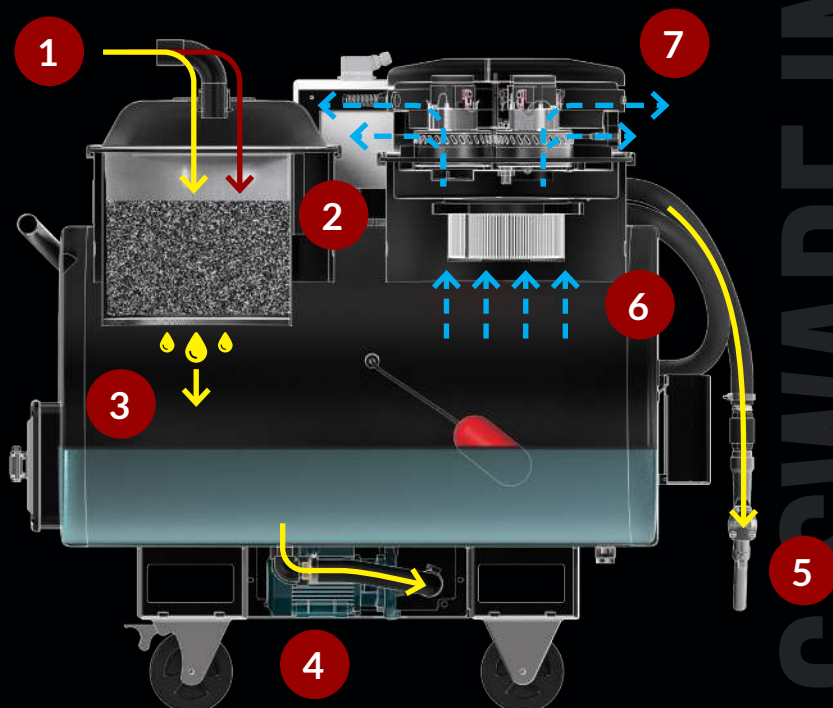
● Swarf ● Lubricant ● Air



WITH TANK

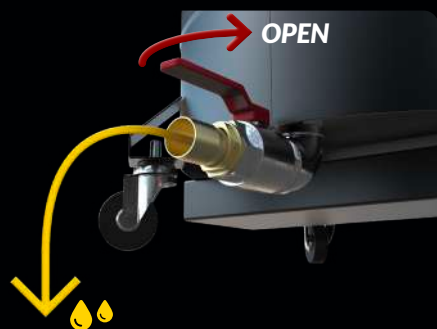
1. The oil and the swarf get sucked into the inlet.
2. The swarf gets separated from the oil in the metal basket.
3. The Oil it's collected into the vacuum tank.
4. The external pump blows out the oil.
5. The oil goes out of the tank to be collected and reused.
6. The air passes through an oil proof 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



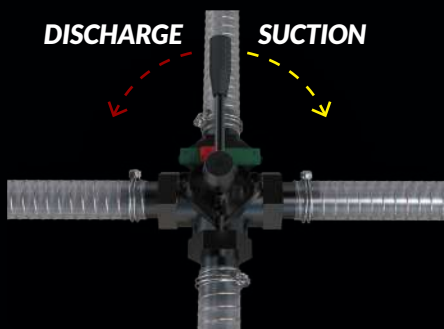
HOW TO CHOOSE DISCHARGE SYSTEMS FOR LIQUIDS

**SIMULTANEOUS
SUCTION AND
DISCHARGE!**



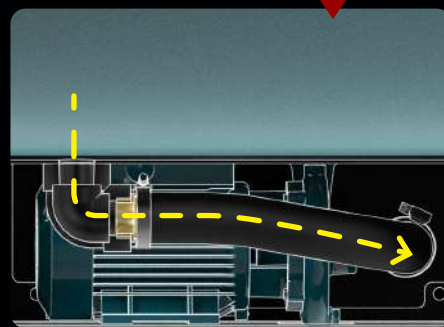
GRAVITY

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.



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.

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

OVERVIEW



	M 70 OIL	M 130 OIL P	M 100 OIL	CLEAN OIL	RAM 200 MP
MANUAL	Standard	Standard	Standard		Standard
REVERSE FLOW				Standard	
PUMP FOR CONTINUOUS DISCHARGE		Standard			Standard
LIQUID CAPACITY	70 Lt	130 Lt	100 Lt	100 Lt	200 Lt
SOLID CAPACITY	40 Lt	40 Lt	50 Lt	50 Lt	35 Lt



RAM 250	RAM 280	RAM 280 MP	RAM 500	RAM 500 T	RAM 1000	RAM 1000 AV
						
						
250 Lt 	280 Lt 	280 Lt 	500 Lt 	500 Lt 	1000 Lt 	1000 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



Dimensions: mm 650 X 450 X 1210 h



Scan the QR-Code
to watch the video



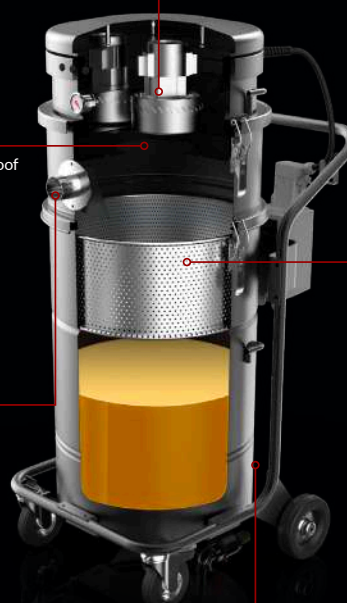
2 By-Pass motors



P12475: Oil proof
cartridge



P12355: Oil Kit PRO Ø50



Metal separation basket



Manual discharge
by gravity

M 130 OIL P



Power: 2,6 kW



Liquid capacity: 130 Lt
Solid capacity: 40 Lt



Dimensions: mm 650 X 450 X 1445 h



Scan the QR-Code
to watch the video



2 By-Pass motors



P12475: Oil proof
cartridge



P12355: Oil Kit PRO Ø50



Metal separation basket



Manual discharge
by gravity



PUMP: Immersion
discharge pump

M 100 OIL

Code: **A455**



Power: 3,9 kW



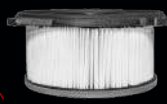
Liquid capacity: 100 Lt
Solid capacity: 50 Lt



Dimensions: mm 700 X 450 X 1400 h



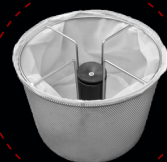
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P12475: Oil proof
cartridge



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 Ø50

CLEAN OIL T/M

Code: **A450/A452**



Power: 2,2/3 kW



Liquid capacity: 100 Lt
Solid capacity: 50 Lt



Dimensions: mm 840 X 710 X 1620 h



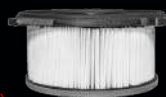
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Reverse Flow
Discharge system



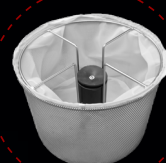
Side channel blower



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 Ø50

RAM 200 MP



Power: 3,9 kW



Liquid capacity: 200 Lt
Solid capacity: 35 Lt

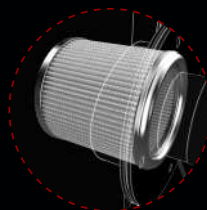


Dimensions: mm 619 X 1050 X 1670 h



360° Rotating inlet

Code: **A407**



P14684: Oil proof cartridge



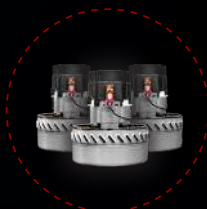
P12355: Oil Kit PRO Ø50



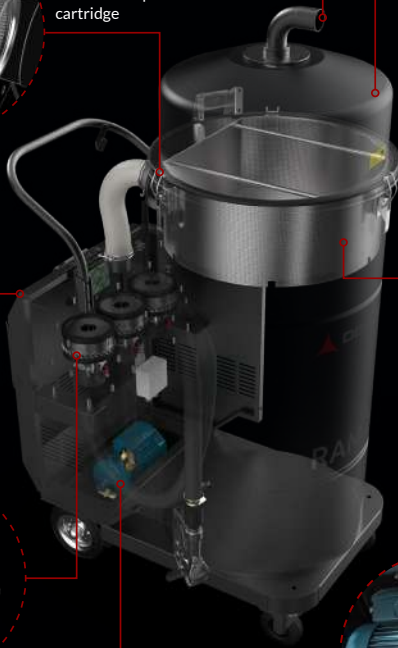
Accessory basket



Metal separation basket



3 By-Pass motors



PUMP: External discharge pump



Manual discharge by gravity



RAM OIL 250 T/S



Power: 3/5,5 kW



Liquid capacity: 250 Lt
Solid capacity: 70 Lt



Dimensions: mm 850 X 1550 X 1780 h



Tilttable discharging hopper

Code: **A404/405**



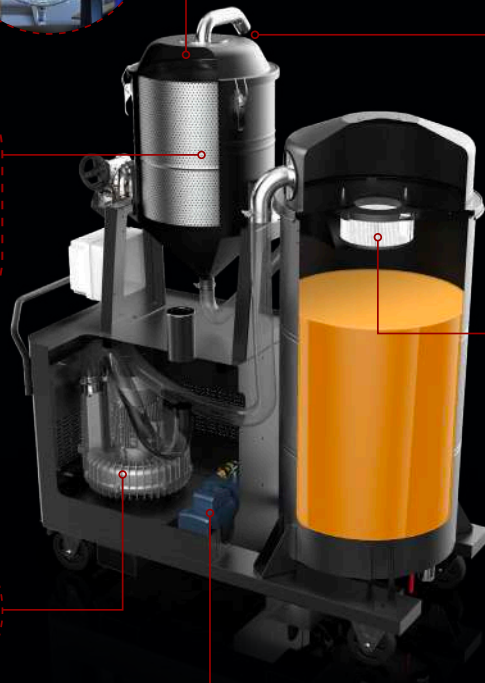
P09679: PPL Filter (150 µ)
+ Metal separation basket



P12352: Oil Kit Ø50



Slide channel blower



P12475: Oil proof cartridge



Discharge pump

RAM OIL 280



Power: 2,2 kW



Liquid capacity: 280 Lt
Solid capacity: 40 Lt



Dimensions: mm 700 X 1450 X 1400 h



Scan the QR-Code
to watch the video



Reverse Flow
Discharge system



Side channel blower



BIS: Inspection door

Code: **A375**



P12352: Oil Kit Ø50



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



PUMP: External
discharge pump

RAM OIL 280 MP



Power: 3,9 kW



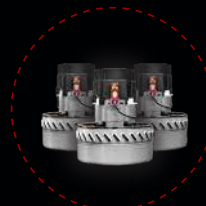
Liquid capacity: 280 Lt
Solid capacity: 40 Lt



Dimensions: mm 700 X 1450 X 1400 h



P12475: Oil proof
cartridge



3 By-Pass motors



Accessory basket



360° Rotating inlet



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



PUMP: External
discharge pump



BIS: Inspection door

Code: **A374**

RAM OIL 500



Power: 4,3 kW



Liquid capacity: 500 Lt
Solid capacity: 40 Lt



Dimensions: mm 600 X 1510 X 1891 h



Scan the QR-Code
to watch the video



Reverse Flow
Discharge system



Side channel blower



BIS: Inspection door

Code: **A378-001**



P12352: Oil Kit Ø50



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



PUMP: External
discharge pump

RAM OIL T 500/T 555



Power: 4,3/5,5 kW



Liquid capacity: 500 Lt
Solid capacity: 70 Lt



Dimensions: mm 600 X 1510 X 1780 h



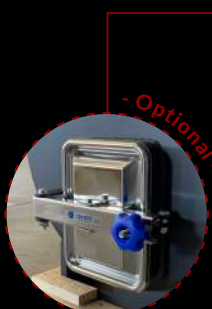
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Tiltable discharging
hopper



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



BIS: Inspection door



Side channel blower



P12475: Oil proof
cartridge



PUMP: External
discharge pump

Code: **A378-003/A381**

RAM OIL 1000



Power: 5,5 kW



Liquid capacity: 1000 Lt
Solid capacity: 40 Lt



Dimensions: mm 950 X 1850 X 1891 h



Scan the QR-Code
to watch the video

Code: **A379**



RAM OIL 1000 AV



Power: 5,5 kW



Liquid capacity: 1000 Lt
Solid capacity: 40 Lt



Dimensions: mm 940 X 1650 X 1880 h

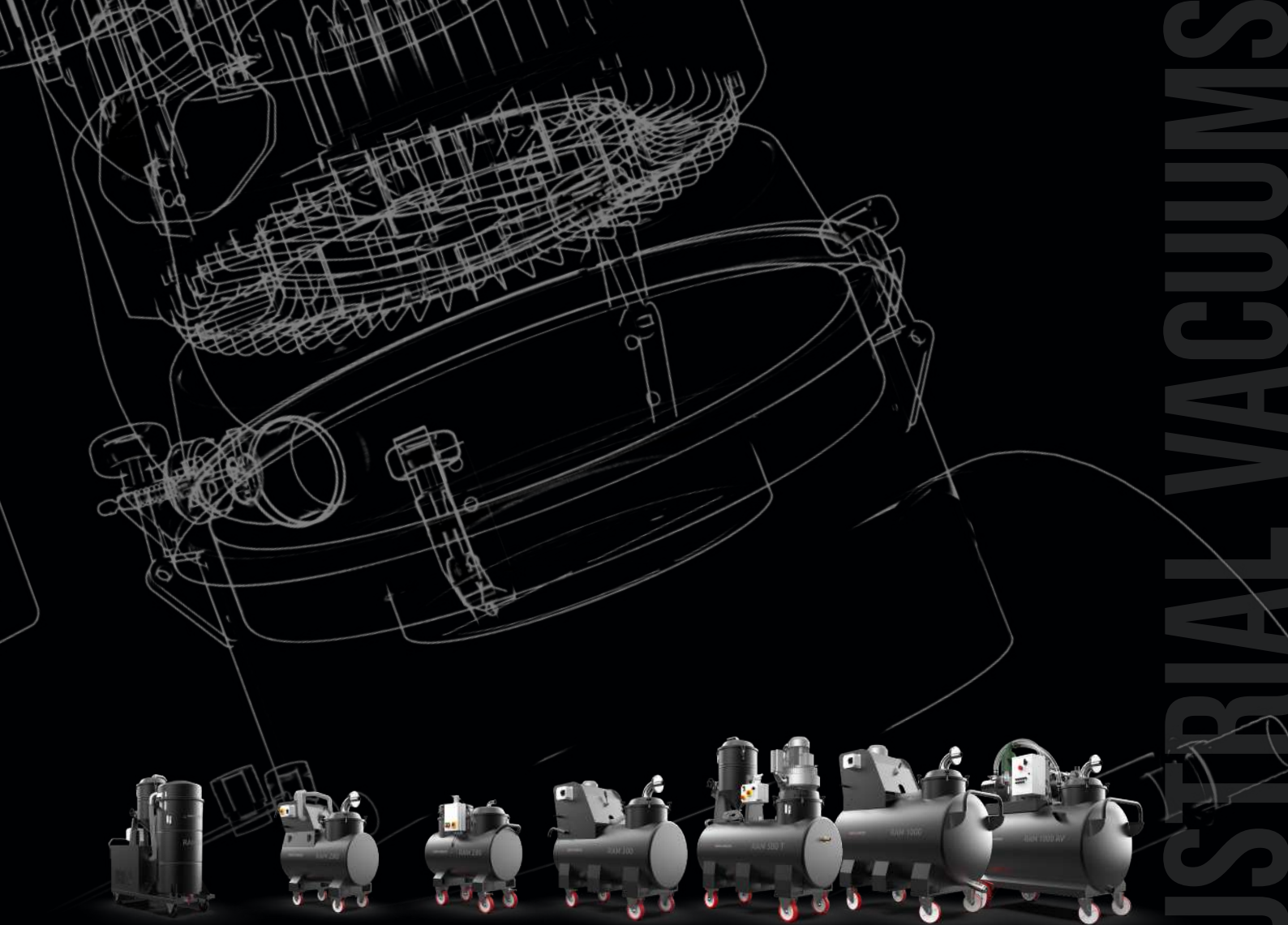
Code: **A379-001**



TECHNICAL DATA

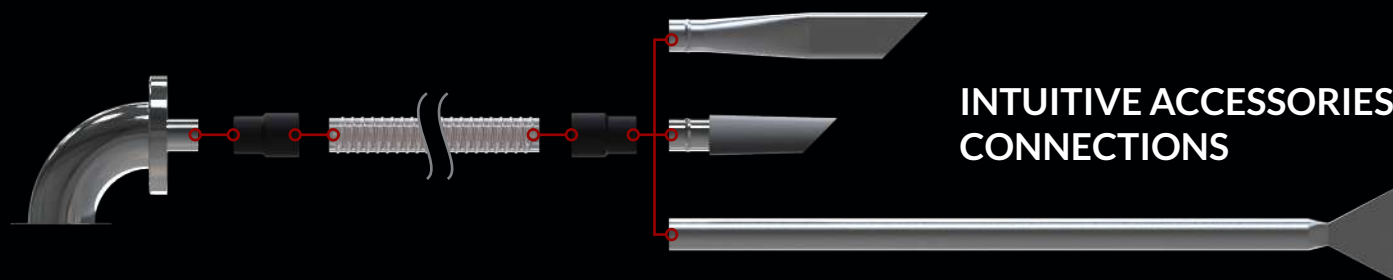


Technical data	Units	M 70 Oil	M 130 Oil P	M 100 Oil	Clean Oil T / M	Ram 200 MP
Code		A454	A445	A455	A450 A452	A407
Motor type		2 By-Pass	2 By-Pass	3 By-Pass	Side Channel Blower	3 By-Pass
Power	kW - HP	2,6 - 3,5	2,6 - 3,5	3,9 - 5,2	3 - 4 / 2,2 - 3	3,9 - 5,2
Voltage Frequency	V Hz	240 50-60	240 50-60	230 50/60	400 50-60	240 50-60
IP Insulation class		---	---	---	55 F	---
Maximum vacuum	mBar	250	250	250	320	250
Vacuum in continuous run	mBar	---	---	---	250 / 180	---
Maximum air flow	m³/h	380	380	570	350	570
Suction inlet	Ø mm	50	50	50	50	50
Noise level - (EN ISO 3744)	dB (A)	70	70	72	78 / 74	72
Liquid capacity	Lt	70	130	100	100	200
Solid capacity	Lt	40	40	50	50	35
Dimensions	mm	700 X 450 X 1210 h	700 X 450 X 1445 h	700 X 450 X 1440 h	840 X 710 X 1620 h	619 X 1050 X 1670 h
Weight	Kg	90	90	90	110	120
Primary discharge type		Gravity	Discharge pump	Gravity	Reverse flow	Discharge pump
Optional discharge type		---	---	---	---	---
Primary filter						
Type		Oil Proof cartridge	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



Ram 250 T/S	Ram 280	Ram 280 MP	Ram 500	Ram 500 T/ 555 T	Ram 1000	Ram 1000 AV
A404 A405	A375	A374	A378-001	A378-003 A381	A379	A379-001
Side Channel blower	Side Channel Blower	3 By-Pass	Side Channel Blower	Side Channel Blower	Side Channel blower	Rotary vane pump
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
400 50-60	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	55 F
290 / 510	280	250	420	420 / 480	480	900
260 / 440	220	---	360	360 / 420	420	800
320 / 330	220	570	320	320	320	300
50	50	50	50	50	50	50
72	72	72	72	72 / 76	76	82
250	280	280	500	500	1000	1000
70	40	40	40	70	40	40
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
240	220	135	220	320 / 350	250	460
Discharge pump	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	Oil Proof cartridge	---
PPL Filter	PPL Filter	PPL Filter	PPL Filter	PPL Filter	PPL Filter	PPL Filter

ACCESSORIES



INTUITIVE ACCESSORIES CONNECTIONS

ACCESSORIES KIT



P12352

50 mm

Oil & Swarf
KIT Ø50



P12355

50 mm

Oil & Swarf
KIT PRO Ø50

CONNECTIONS

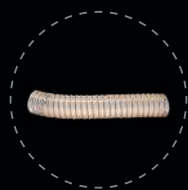


P09214

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
150 μ efficiency



P09678

TNT disposable filter



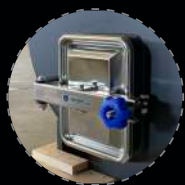
P12475

Oil proof cartridge



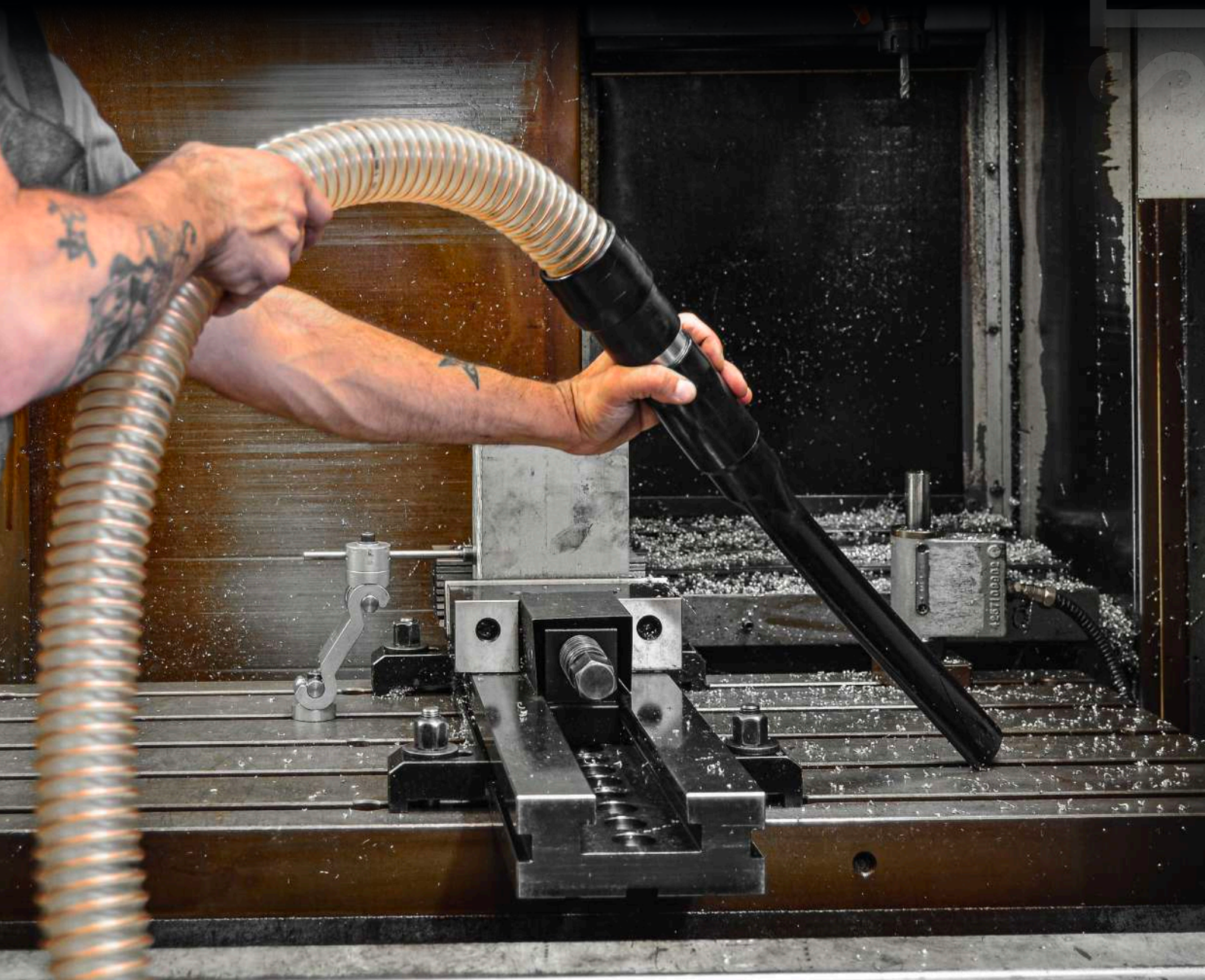
PUMP

Continuous
discharge pump



BIS

Inspection door



DEPURECO SOLUTIONS FOR METALWORKING INDUSTRY

An isometric illustration of a metalworking factory floor. The scene is filled with various industrial machines, including large vacuum systems, CNC machines, and sandblasting equipment. Workers in blue uniforms are shown operating the machinery. The floor is marked with red lines, and the background is a dark grid pattern.

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.



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

www.depureco.com
depureco@depureco.com

