

 **DEPURECO**  
INDUSTRIAL VACUUMS USA 

(800) 635-0298

Controlled Air Design

[www.controlledairdesign.com](http://www.controlledairdesign.com)

# **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

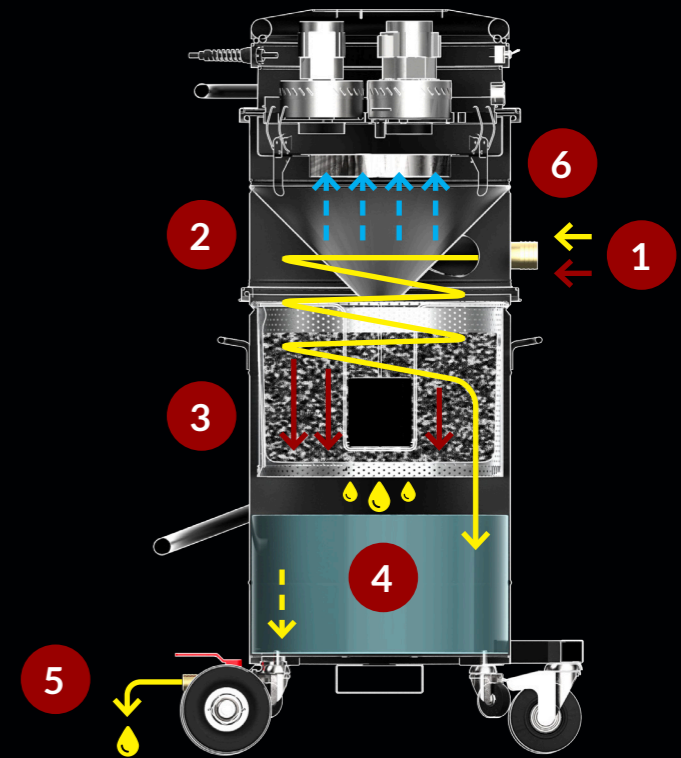


# WORKING PRINCIPLE

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 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.

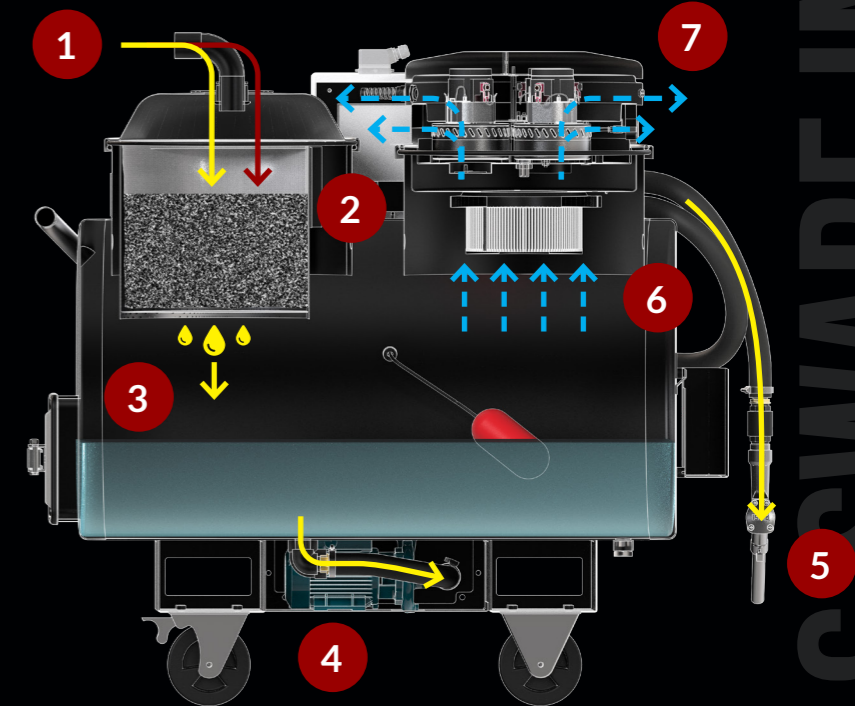
● Swarf ● Lubricant ● Air



WITH TANK

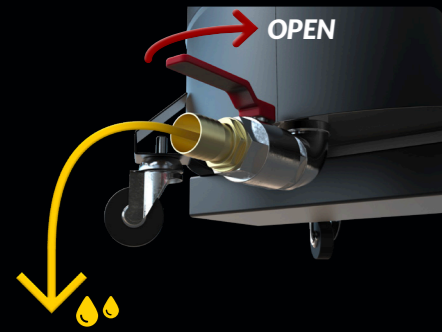
1. The oil and the swarf get sucked into the inlet.
2. The swarf gets separated from the oil in the metal basket.
3. The Oil it's collected into the vacuum tank.
4. The external pump blows out the oil.
5. The oil goes out of the tank to be collected and reused.
6. The air passes through an oil proof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



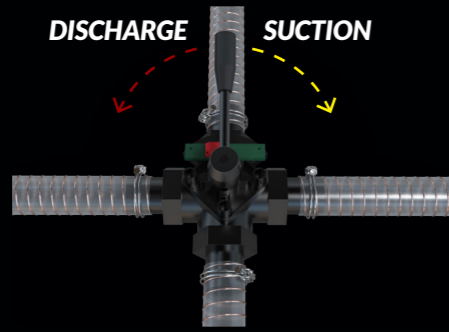
# HOW TO CHOOSE

## DISCHARGE SYSTEMS FOR LIQUIDS



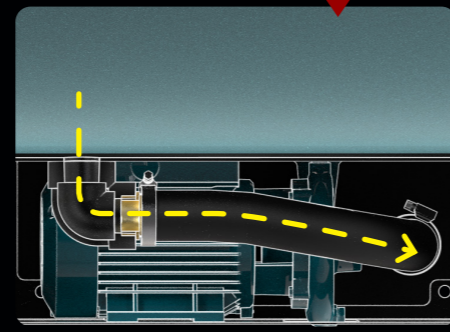
### GRAVITY

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.

## 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

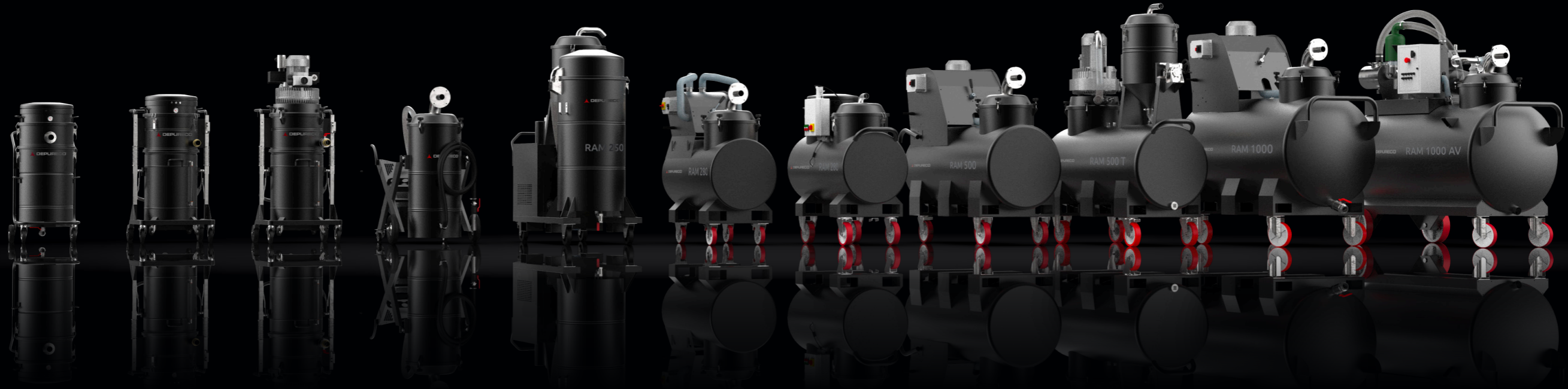
Above the vacuum's tank is installed a tiltable hopper. A metal basket, paired with a PPL filter, is placed inside the hopper. The two act as a sieve, separating any solid particle eventually present from the vacuumed liquid and allowing a comfortable and safe discharge of the swarf

## 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 MP	RAM 500 MP	RAM 500 T	RAM 500 T MP	RAM 1000 AV
MANUAL	■	■								
REVERSE FLOW			■	■						■
PUMP FOR CONTINUOUS DISCHARGE	□			□	■	■	■	■	■	
LIQUID CAPACITY	18 gal 	26 gal 	26 gal 	34 gal 	66 gal 	74 gal 	74 gal 	132 gal 	132 gal 	264 gal 
SOLID CAPACITY	10 gal 	13 gal 	13 gal 	11 gal 	18 gal 	11 gal 	11 gal 	11 gal 	18 gal 	11 gal 

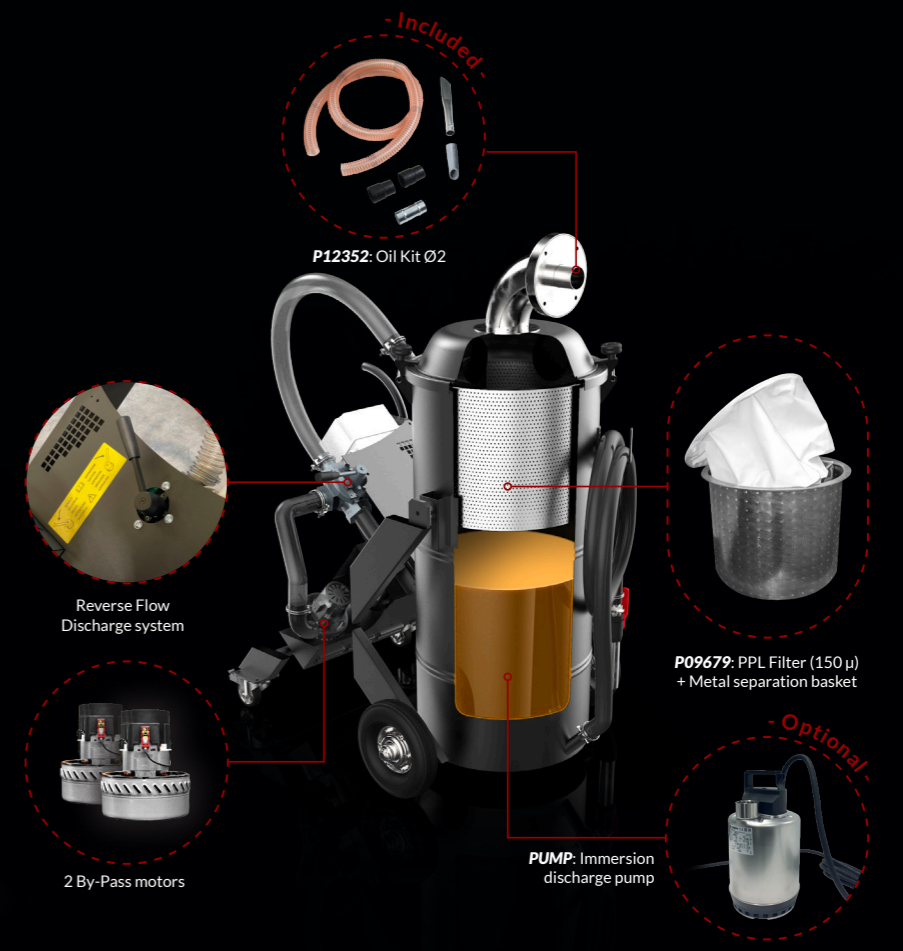
# M 70 OIL

- Power: 2.7 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



# FROG

- Power: 2.7 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



# M 100 OIL

- Power: 4 HP
- Liquid capacity: 26 gal  
Solid capacity: 13 gal
- Suction time: 26 gal/26 sec
- Dimensions: in 27 X 18 X 55 h



# RAM OIL 280/500 MP

- Power: 4 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



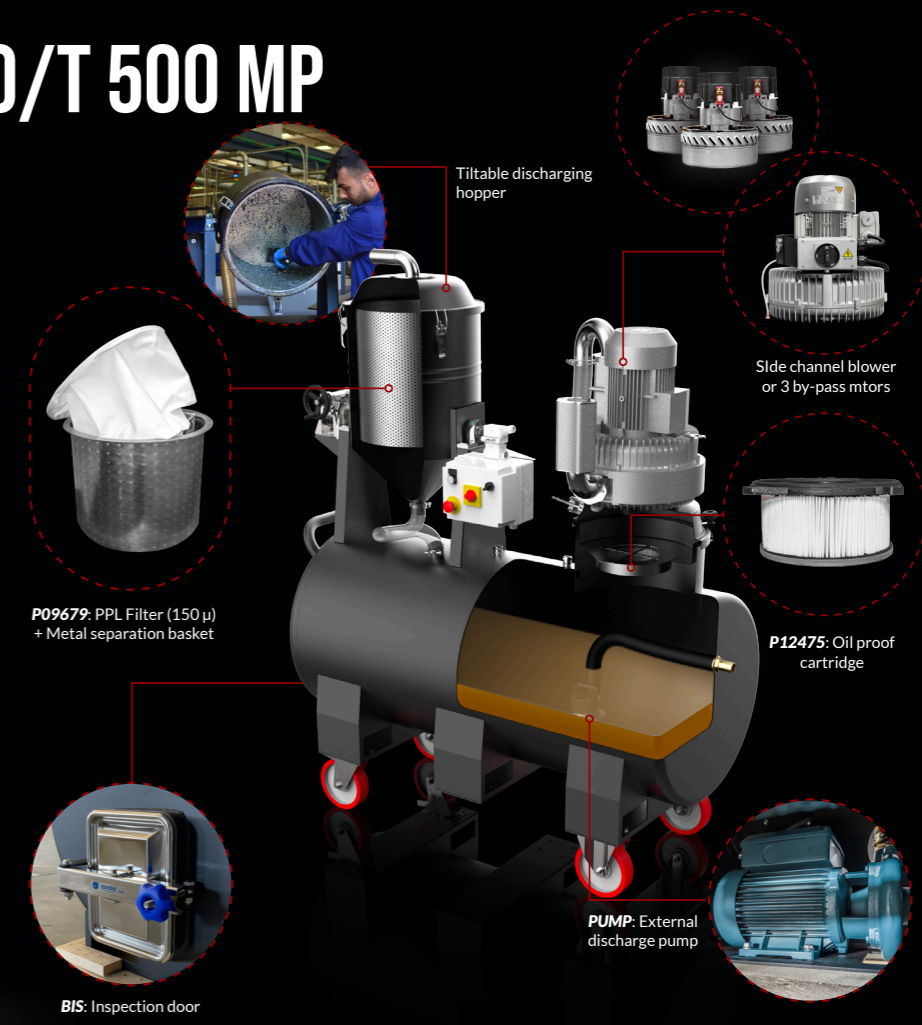
# CLEAN OIL T

- 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



# RAM OIL T 500/T 500 MP

- Power: 6.5/4 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



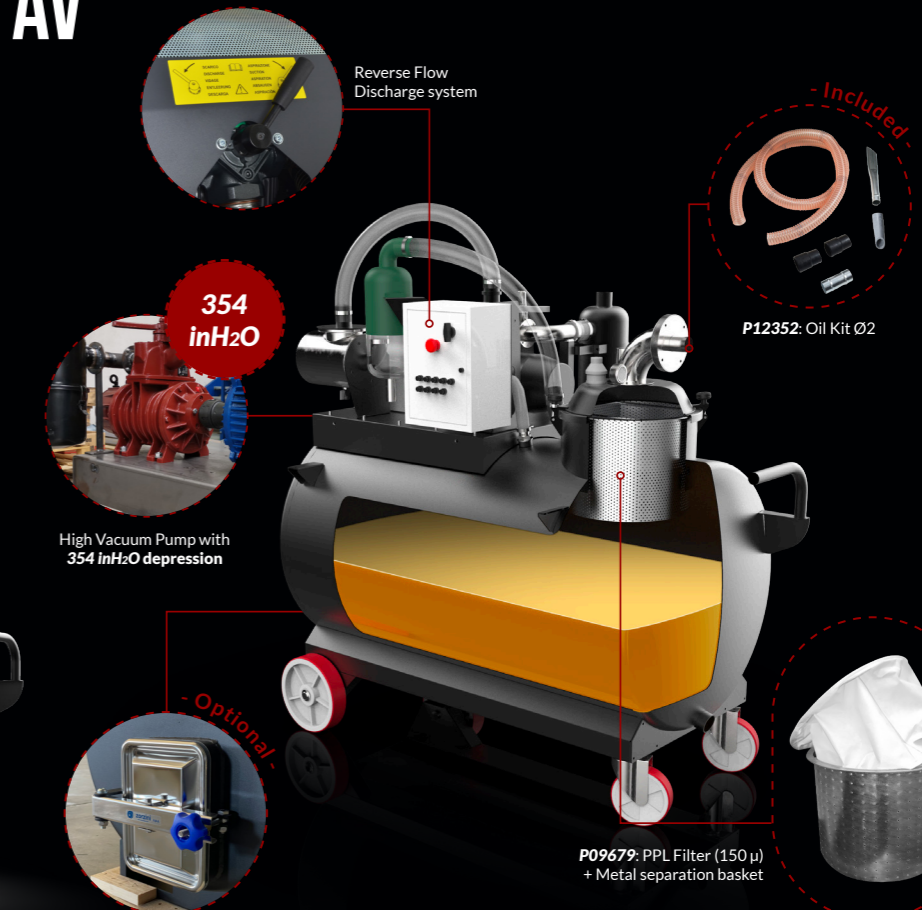
# RAM OIL 250 T

- 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

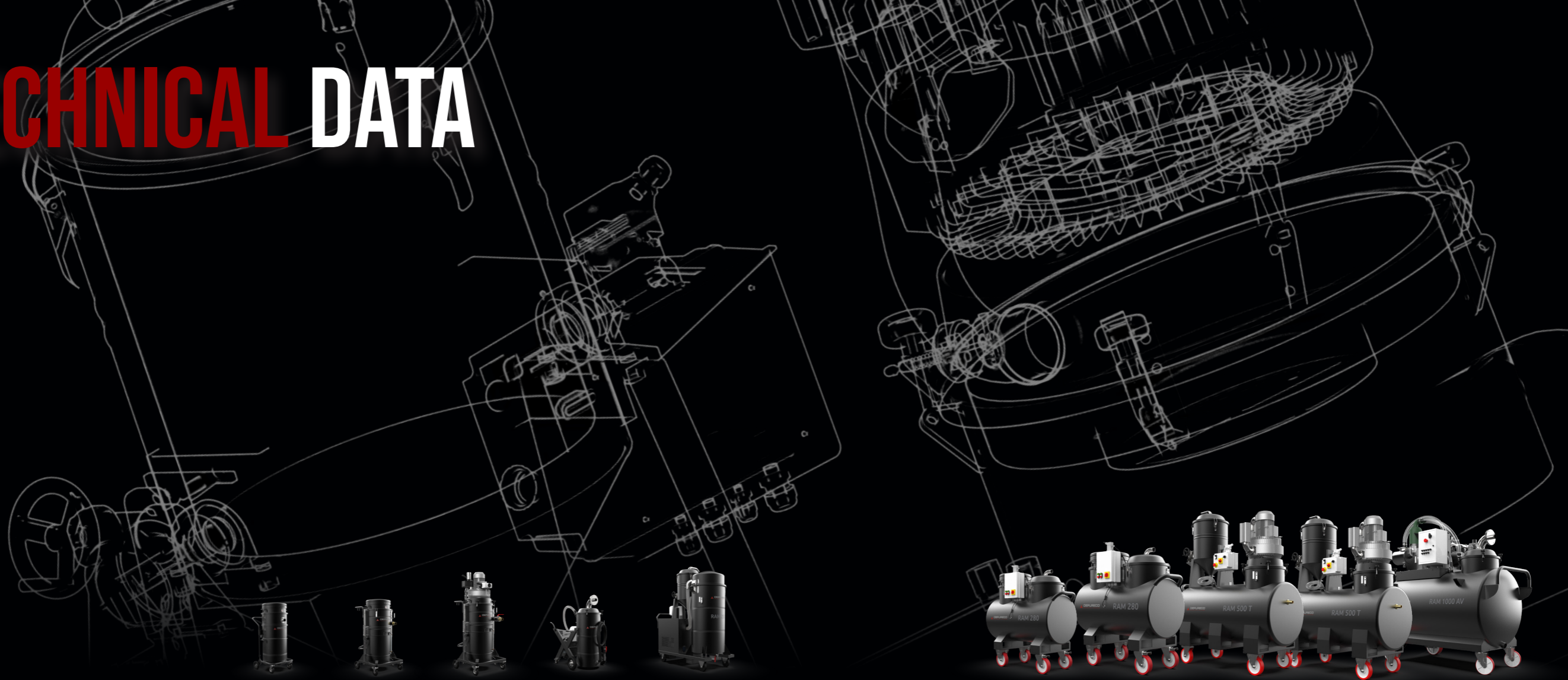


# RAM OIL 1000 AV

- 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

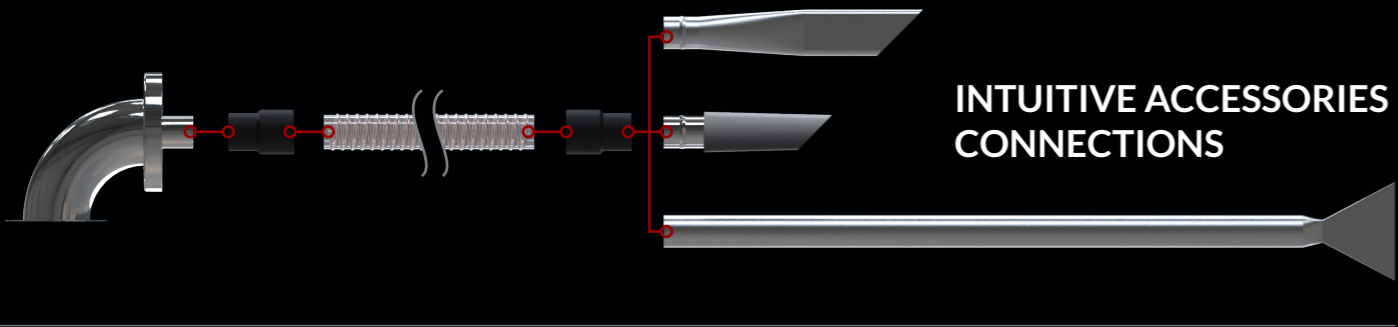


# TECHNICAL DATA







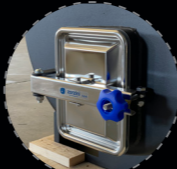
Technical data	Units	M 70 Oil / P	M 100 Oil	Clean Oil T	Frog Oil	Ram 250 T	Ram 280 MP	Ram 500 MP	Ram 500 T	Ram 500 TMP	Ram 1000 AV
Motor type		2   By-Pass	3   By-Pass	Side Channel Blower	2   By-Pass	Side Channel blower	3   By-Pass	3   By-Pass	Side Channel Blower	Side Channel Blower	Rotary vane pump
Power	HP	2.7	4	4.63	2.7	4	4	4	6.5	4	7.5
Voltage   Frequency	V   Hz	120   60	120   60	480   60	120   60	480   60	120   60	120   60	480   60	120   60	480   60
IP   Insulation class		---	---	55   F	---	55   F	---	---	55   F	55   F	55   F
Maximum vacuum	inH <sub>2</sub> O	94	94	90	94	116	94	94	160	94	354
Vacuum in continuous run	inH <sub>2</sub> O	---	---	80	---	104	---	---	138	---	314
Maximum air flow	CFM	230	345	300	230	198	345	345	180	345	176
Suction time	gal/sec	18/18	26/26	26/26	34/30	66/50	74/63	132/63	132/120	132/120	264/220
Dumping time	gal/sec	18/20	---	26/92	34/50	66/100	74/60	132/60	132/120	132/120	264/240
Suction inlet	Ø in	2	2	2	2	2	2	2	2	2	2
Noise level - (EN ISO 3744)	dB (A)	70	72	78	70	72	72	72	72	72	82
Liquid capacity	gal	18	26	26	34	66	74	132	132	132	264
Solid capacity	gal	10	13	13	11	18	11	11	18	18	11
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	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
Weight	lb	198	198	242	209	485	333	425	705	705	1015
Primary discharge type		Gravity	Gravity	Reverse flow	Reverse flow	Discharge pump	Discharge pump	Discharge pump	Discharge pump	Discharge pump	Reverse flow
Optional discharge type		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	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

# ACCESSORIES



INTUITIVE ACCESSORIES CONNECTIONS


# OPTIONALS

	<b>P09679</b>	PPL filter 150µ efficiency		<b>P09678</b>	TNT disposable filter
	<b>P12475</b>	Oil proof cartridge		<b>PUMP</b>	Continuous discharge pump
	<b>BIS</b>	Inspection door			








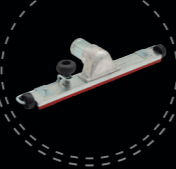
## ACCESSORIES KIT

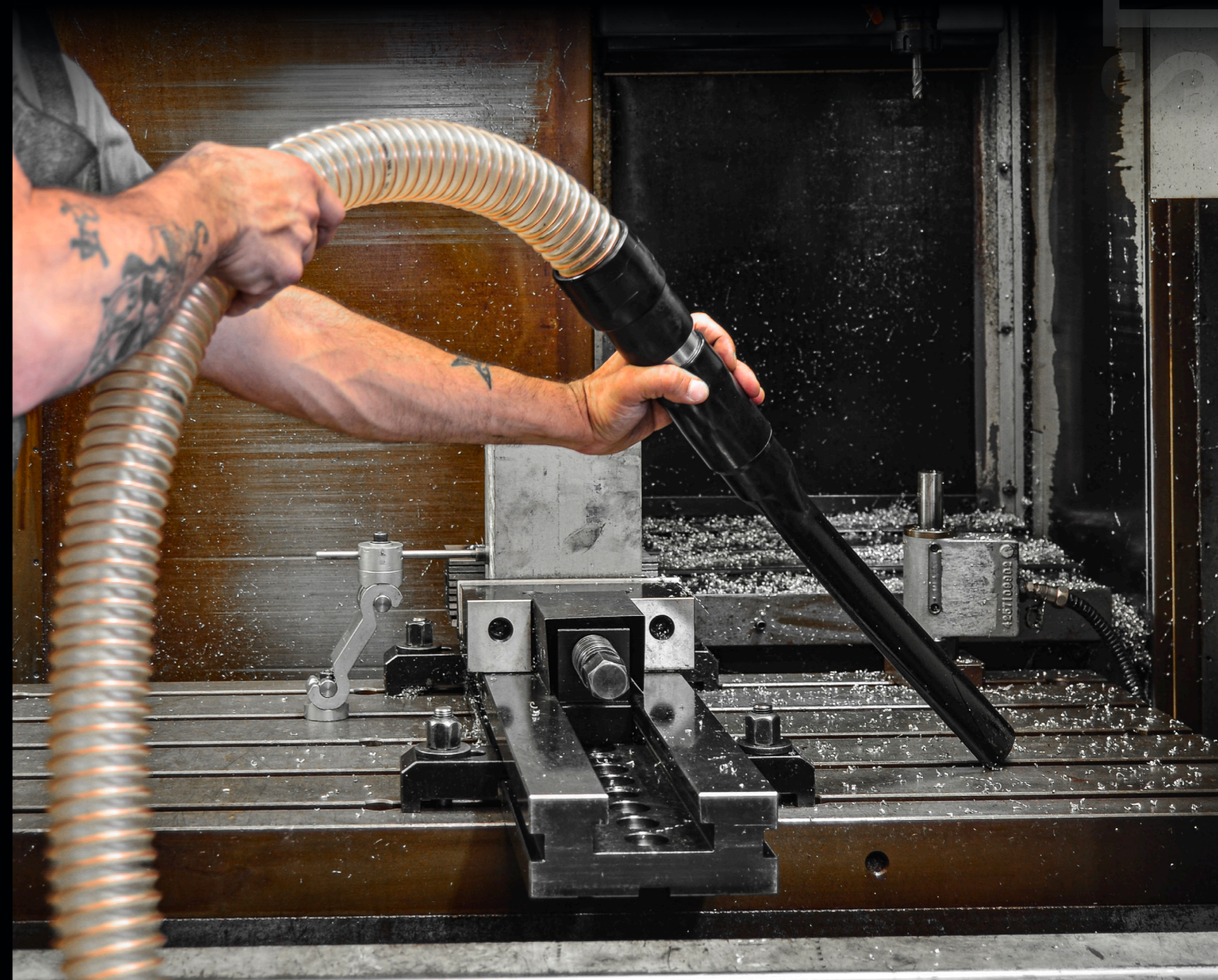
	<b>P12352</b>	2 in	Oil & Swarf KIT Ø2		<b>P12355</b>	2 in	Oil & Swarf KIT PRO Ø2
--	---------------	------	-----------------------	---	---------------	------	---------------------------

## CONNECTIONS

	<b>P09214</b>	2 in	Rubber sleeve for hoses
---	---------------	------	----------------------------

## FINAL ACCESSORIES

	<b>P11933/50</b>	2 in	Reinforced abrasion proof hose		<b>P00329</b>	2 in	Scraping suction pipe
	<b>P00301</b>	2 in	Flat pipe		<b>P10410</b>	2 in	Oil proof rubber scraper
	<b>P00308</b>	2 in	Oil proof rubber conic nozzle		<b>P00649</b>	2 in	"S" Handgrip for floor brush
	<b>P00783</b>	2 in	Extension pipe with handle		<b>P01038</b>	2 in	Floor squeegee with rubber strips





# 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.

**MORE THAN 180**  
**INDUSTRIAL VACUUMS**  
**DISCOVER MORE ON**  
**DEPURECOUSA.COM**





19121 Marketplace Avenue  
Building 1, Suite 165  
Plum Creek Business Park  
Kyle, Texas 78640

Phone 737 70 44 347  
[www.depurecousa.com](http://www.depurecousa.com)  
[info@depurecousa.com](mailto:info@depurecousa.com)

