OIL AND SWARF
VACUUM SOLUTIONS

DEPURECO®
INDUSTRIAL VACUUMS

DEPURECO INDUSTRIAL VACUUMS

DESIGNS, MANUFACTURES AND SELLS INDUSTRIAL VACUUM CLEANERS

Vacuums in the OIL AND CHIP line were designed and built for the mechanical industrial industry for vacuuming lubricant oils, coolants, and emulsions mixed with chips. Each model was designed based on the different needs of the various mechanical workshops, with containment capacities ranging from 100 to 1000 litres, both in a single phase and triple phase version, with vacuum up to 8,000 mmH2O, able to vacuum at over 30 metres away from the machine tool, with a flexible hose.

The Depureco line meets the maintenance, cleaning, tank emptying, and emulsified oil reintegration, reducing emptying times for the lubricant/coolant, and cutting machine tool maintenance and cleaning time in half.

The average time needed for an operator to empty, clean, and reintegrate the oil emulsified inside a 1000 litre machine is about 4 hours. A proper Depureco vacuum cleaner uses about one hour. The OIL and CHIP series saves on oil, decreases machine down time, and reduces the machine tool maintenance cost.

Each vacuum cleaner is equipped with:
/ Separator basket in microperforated carbon steel
/ PPL filter that catches the chips and metal parts, with a filtration efficiency of 150 microns
/ Automatic stop when the vacuum container is full
/ Flow inversion or submersible pump to send the clean liquid back into the machine in the least amount of time possible

OUR CERTIFICATIONS

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001

CE

UL

Ex Z21 Z22

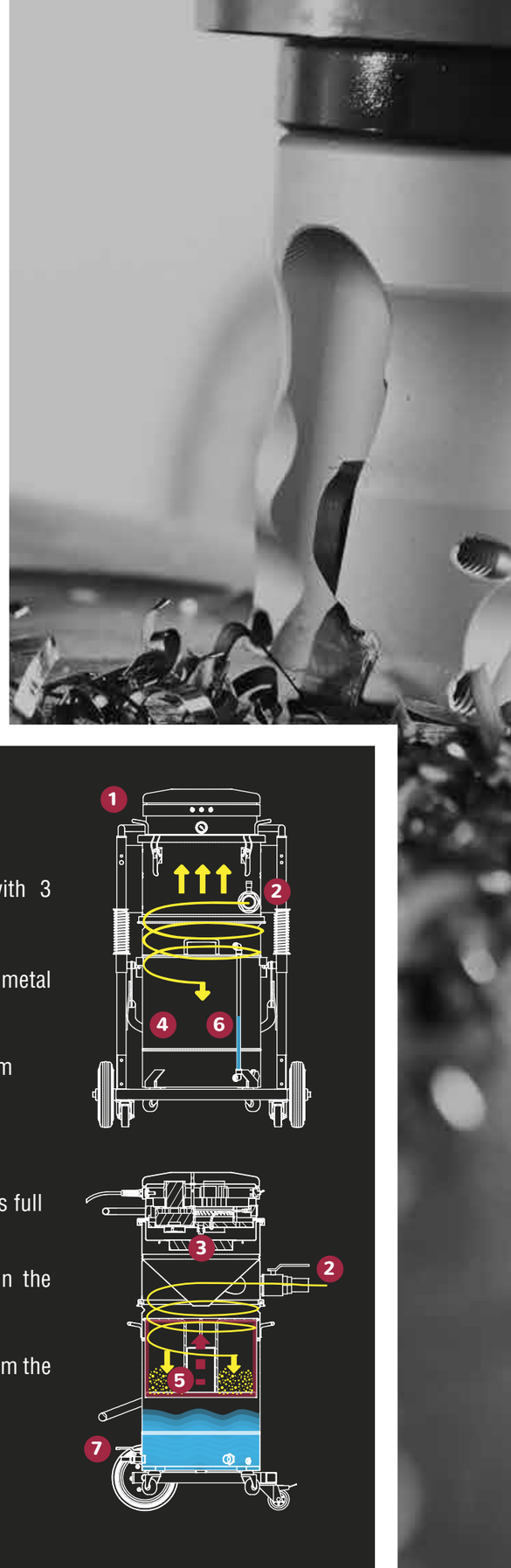
M 100 OIL

The M 100 OIL vacuum cleaner was designed to meet all the extraction and recovery needs for liquids, oils, and emulsions.

The vacuum is generated by three single phase motors that work in parallel, ensuring excellent vacuum speed.
The container is equipped with a metal basket that separates the solid from the liquid and a 150 micron PPL filter for more efficient filtration of metal parts, when required. The floating level gauge automatically stops vacuum upon reaching maximum capacity. Outside of the container there is a level indicator that shows the amount of liquid present inside the machine.
It drains by gravity thanks to a 1" manual ball valve located on the bottom of the machine. The container mounted on 4 sturdy swivel wheels can be picked up with a forklift to facilitate emptying.

TECHNICAL DATA

POWER	kW I HP	3.9 I 5.2
VACUUM	mBar I inHg	250 I 7.38
AIR FLOW RATE	l/min I m3/h I CFM	9500 I 570 I 336
VOLTAGE	V-Hz	115/230 - 50/60
TANK CAPACITY	L/min	100
SOLIDS CONTAINER	L/min	50
VACUUM INLET	mm	50
SUCTION TIME	L/sec	100/26
SOUND LEVEL	dB(A)	72
WEIGHT	Kg	90
DIMENSIONS	Cm	70x45x140



DETAILS

DESCRIPTION

1. The vacuum is generated by a vacuum head with 3 single-phase bypass motors
2. The material enters tangentially, encounters a metal cyclone and loses speed, falling into the container
3. The filter stops the oily steams generated in the vacuum
4. The liquid is drawn into the 100 litre container
5. A safety float stops the vacuum when the container is full
6. An external level indicator shows the liquid level in the container
7. A 1" drain valve for fast efficient draining of liquid from the container

CLEAN OIL

The CLEAN OIL vacuum was designed for the separation of the oil from the chips, recovery of the oil, and quick emptying of the tank.

The vacuum is generated by a Siemens side channel turbine that allows continuous operation and ensures excellent vacuum with maximum reliability. Thanks to the small size, CLEAN OIL facilitates vacuum operations even in the narrowest spaces. The container is equipped with a metal basket that separates the solid from the liquid and a 150 micron PPL filter for more efficient filtration of metal parts. The floating level gauge automatically stops vacuum upon reaching maximum capacity. Outside of the container there is a level indicator that shows the amount of liquid present inside the machine. Drainage takes place thanks to a flow inversion system that allows quick reinte gration of all the lubricant/coolant.

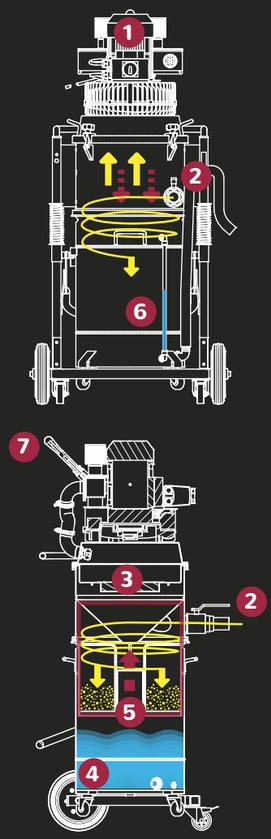
TECHNICAL DATA

POWER	kW I HP	3 I 4
VACUUM	mBar I inHg	320 I 9.45
CONTINUOUS CYCLE VACUUM	mBar I inHg	250 I 5.91
AIR FLOW RATE	l/min I m3/h I CFM	7000 I420 I294
VOLTAGE	V-Hz	400-50/60
TANK CAPACITY	L/min	100
SOLIDS CONTAINER	L/min	50
VACUUM INLET	mm	50
SUCTION TIME	L/sec	100/26
DISCHARGE TIME	L/sec	100/92
SOUND LEVEL	dB(A)	78
WEIGHT	Kg	110
DIMENSIONS	Cm	84x71x162

DETAILS

DESCRIPTION

1. The vacuum is run by a 3 kW lateral channel Siemens turbine capable of suctioning 100 litres in 38 seconds
2. The material enters tangentially, encounters a metal cyclone and loses speed, falling into the container
3. The filter stops the oily steams generated in the vacuum
4. The liquid is drawn into the 100 litre container
5. A safety float stops the vacuum when the container is full
6. An external level indicator shows the liquid level in the container
7. A 1” drain valve fast efficient draining of liquid from the container



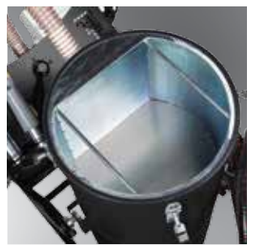
FROG

The FROG is the single phase vacuum in the OIL and CHIP line designed to separate and suction oil and metal chip from tanks in machining centres. The standard equipment allows speeding up of the cleaning operations re-use of the lubricants/coolants.

The vacuum is generated by two single phase motors that work in parallel, ensuring maximum speed and power. The 150 micron filter ensures more efficient filtration of metal parts. In the 130 litre container there is a metal basket with a quick connection, that allows the separation of the solid from the liquid. The electric float inside shuts off the air flow upon reaching maximum capacity. There is a flow inversion drain system installed on this model that eliminates additional maintenance and the risks deriving from blockage of the pumps for transferring liquids. It is possible to install an immersion pump upon request, to ensure continuous emptying of liquids, without interruptions.

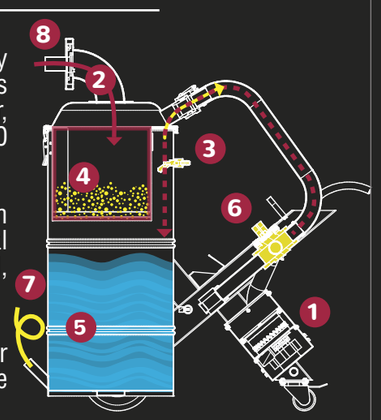
TECHNICAL DATA

POWER	kW I HP	2.4 I 3.2
VACUUM	mBar I inHg	250 I 6.79
AIR FLOW RATE	l/min I m3/h I CFM	5500 I 380 I 224
VOLTAGE	V-Hz	240-50/60
TANK CAPACITY	L	130
SOLIDS CONTAINER	L	40
VACUUM INLET	mm	50
SUCTION TIME	L/sec	130/30
DISCHARGE TIME	L/sec	130/50
SOUND LEVEL	dB(A)	70
WEIGHT	Kg	95
DIMENSIONS	Cm	70x118x132



DESCRIPTION

1. The vacuum is created by two single phase bypass motors with 2.4 kW of power, allowing the suction of 130 litres of liquid in 30 sec.
2. The material enters from above, encounters a metal cyclone and loses speed, falling into the container
3. An electric level sensor automatically shuts off the suction of the motors
4. The sieve separates the solids from the liquids
5. The liquid is drawn into the 130 litre container
6. The air flow inversion system at the motor output allows discharge of the collected liquid at a speed of 130 litres in 50 seconds
7. The liquid is discharged through a sturdy, oil-proof rubber tube and a manually adjusted valve
8. A check valve inside the input connector ensure that the liquids do not leak out during draining



RAM OIL 280 MP

The RAM OIL 280 MP is the largest single phase vacuum in its category. Thanks to the 280 litre tank and the cleaning and reintegration speed of the lubricants/coolants, it is largely used for cleaning tanks in machining centres where single phase current must be used.

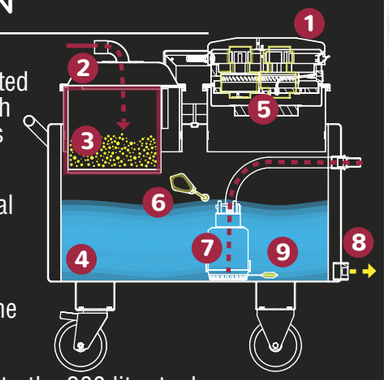
The vacuum is generated by three single phase motors that work in parallel, ensuring excellent vacuum speed. There is a quick-connection metal basket for separating the solid from the liquid. The 150 micron PPL filter ensures more efficient filtration of metal parts, increasing the average life of the lubricants/coolants. The electric float inside the container shuts off the air flow upon reaching maximum capacity. The RAM OIL 280 MP is equipped with a 260 litre/min pump for emptying the filtered liquids. The RAM OIL 280 MP allows the cleaning of large machining centres with reduced sizes and great suction power.

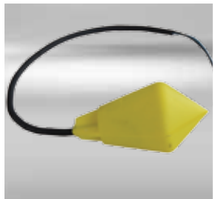
TECHNICAL DATA

POWER	kW I HP	3.9 I 5.2
VACUUM	mBar I inHg	250 I 7.38
AIR FLOW RATE	l/min I m3/h I CFM	9500 I 570 I 336
VOLTAGE	V-Hz	115/230 -50/60
TANK CAPACITY	L	280
SOLIDS CONTAINER	L	40
VACUUM INLET	mm	50
SUCTION TIME	L/sec	280/63
DISCHARGE TIME	L/sec	280/60
SOUND LEVEL	dB(A)	72
WEIGHT	Kg	220
DIMENSIONS	Cm	70x145x140

DESCRIPTION

1. The vacuum is generated by a vacuum head with 3 single-phase bypass motors
2. The suctioned material falls from above into the sieve
3. The sieve separates the solids from the liquid
4. The liquid is drawn into the 280 litre tank
5. The filter stops the oily steams generated in the vacuum
6. A level sensor automatically stops the vacuum upon reaching maximum capacity
7. The immersion pump ensures continuous emptying of liquids, without interruptions. The drain speed is 280 litres in 74 seconds
8. The liquid that was collected is discharged through a sturdy, oil-proof rubber tube and a manually adjusted valve
9. The level sensor installed on the pump, automatically stops the drainage upon reaching the minimum liquid level





RAM OIL 280 | 500 | 1000

Thanks to the 280, 500, and 1000 litre tanks, the RAM OIL vacuums are widely used in cleaning tanks in medium and large machining centres.

Thanks to the suction power and the easy reintegration of the lubricants/coolants in the tanks, they are among the most efficient in the OIL and CHIP range. The suction is generated by a Siemens side channel blower that ensures excellent suction and liquid discharge speed. There is a quick-connection metal basket for separating the solid from the liquid. The 150 micron filter ensures more efficient filtration of metal parts, increasing the average life of the lubricants/coolants. The electric float inside the container shuts off the air flow upon reaching maximum capacity. For emptying liquids, the models have the flow inversion system. This system prevents potential risks from blockage of the pumps for transferring liquids. The vacuum has a series of accessory kits for oil that are perfect for operations in machining centres.

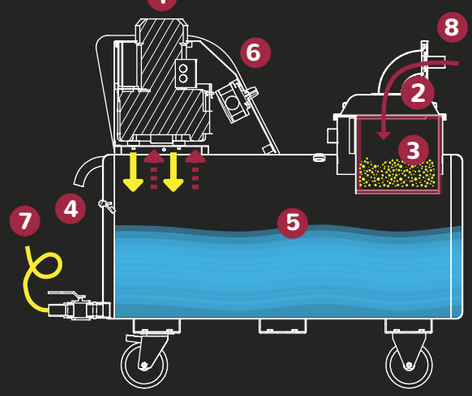
It is possible to install an immersion pump upon request, to ensure continuous emptying of liquids, without interruptions.

TECHNICAL DATA

		280	500	1000
POWER	kW I HP	2.2 I 3	4.3 I 5.8	5.5 I 7.5
VACUUM	mBar I inHg	280 I 8.27	420 I 12.4	480 I 14.17
CONTINUOUS	mBar I inHg	220 I 7.94	360 I 10.63	420 I 12.99
CYCLE VACUUM				
AIR FLOW RATE	l/min I m3/h I CFM	3670 I 220 I 148	5350 I 320 I 235	5350 I 320 I 235
VOLTAGE	V-Hz	400 - 50/60	400 - 50/60	400 - 50/60
TANK CAPACITY	L	280	500	1000
SOLIDS CONTAINER	L	40	40	40
VACUUM INLET	mm	50	50	50
SUCTION TIME	L/sec	280/80	500/120	1000/200
DISCHARGE TIME	L/sec	280/80	500/120	1000/200
SOUND LEVEL	dB(A)	72	72	76
WEIGHT	Kg	220	220	250
DIMENSIONS	Cm	70x145x140	60x151x178	95x185x245

DETAILS

DESCRIPTION



1. The vacuum is run by a lateral channel Siemens turbine capable of suctioning 500 litres in 57 seconds
2. The material enters from above, encounters a metal cyclone, and loses speed, falling into the container
3. The sieve separates the solids from the liquids
4. An electric level sensor automatically shuts off the suction of the motor
5. The liquid is drawn into a 280 | 500 | 1000 litre container
6. The air flow inversion system at the motor output allows discharge of collected liquid at a speed of 280 litres in 50 seconds
7. The liquid is discharged through a sturdy, oil-proof rubber tube and a manually adjusted valve
8. A check valve inside the input connector ensure that the liquids do not leak out during draining

RAM OIL T 500

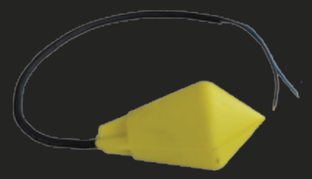
Thanks to the 500 litre tank for liquids and the separator basket of over 70 litres, the RAM OIL T 500 is the perfect machine for vacuuming, separating, and re-using or disposing of oil mixed with metal chips from tool tanks.

The suction is generated by a Siemens side channel blower that ensures excellent suction speed. The hopper for collection the chips is equipped with a metal basket for separating the solid from the liquid and a 150 micron PPL filter for more efficient filtration of metal parts, increasing the average life of the lubricant/coolant oils. The hopper tipping and unloading system allows the filtered residue to be unloaded directly from the machine, without risking manually lifting the container. Two electrical level indicators, shuts off the suction flow upon reaching the minimum and maximum capacity. RAM OIL T 500 is equipped with a 270 l/min pump for emptying the filtered liquids. This operation allows liquids and sludge to be suctioned and at the same time as draining of the emulsified and filtered liquids.

TECHNICAL DATA

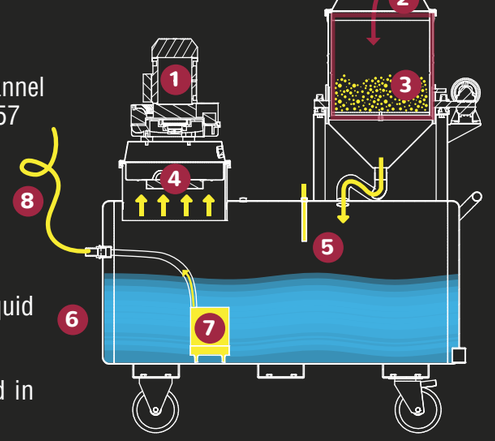
		500	555
POWER	kW I HP	4.3 I 5.8	5.5 I 7.5
VACUUM	mBar I inHg	420 I 12.4	480 I 14.17
CONTINUOUS CYCLE VACUUM	mBar I inHg	360 I 10.63	420 I 12.99
AIR FLOW RATE	l/min I m3/h I CFM	5350 I 320 I 235	5350 I 320 I 235
VOLTAGE	V-Hz	400-50/60	400 - 50/60
TANK CAPACITY	L	500	500
SOLIDS CONTAINER	L	70	70
VACUUM INLET	mm	50	50
SUCTION TIME	L/sec	500/120	500/110
DISCHARGE TIME	L/sec	500/120	500/120
SOUND LEVEL	dB(A)	72	76
WEIGHT	Kg	320	350
DIMENSIONS	Cm	60x151x178	60x151x178

DETAILS



DESCRIPTION

1. The vacuum is run by a 4.3 kW lateral channel Siemens turbine capable of suctioning 500/57
2. The material enters from above, encounters a metal cyclone, and loses speed, falling into the container
3. The sieve separates the solids from the liquid and tilts to facilitate emptying
4. The filter stops the oily steams generated in the vacuum
5. An electric level sensor automatically stops the suction of the motor
6. The liquid is drawn into the 500 litre container
7. Inside the container there is a stainless steel, submersible pump
8. The liquid is discharged through a sturdy, oil-proof rubber tube and a manually adjusted valve



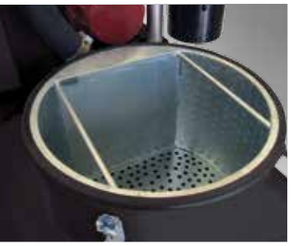
RAM OIL 1000 AV

The RAM 1000 AV vacuum is the largest and most powerful vacuum in the OIL and CHIP line. Thanks to the vane pump, it generates a vacuum of over 800 mBars, capable of suctioning oil and chips with over 30 metres of flexible pipe.

It is widely used in cleaning tanks in large machining centres thanks to the cleaning and reintegration speed of the lubricant/coolant oils in the tanks and the suctioning of the chips and metal parts. The tank is equipped with a quick-connection metal basket for separating the solid from the liquid and a 150 micron PPL filter for more efficient filtration of metal parts, increasing the average life of the lubricant/coolant oils. The electronic float inside the container shuts off the air flow upon reaching maximum capacity. For emptying liquids, Depureco uses air flow inversion. This system eliminates additional maintenance and the risks deriving from blockage of the liquid transfer pumps. The vacuum has a series of accessory kits for oil that are perfect for operations in machining centres. It is possible to install an immersion pump upon request, to ensure continuous emptying of liquids, without interruptions.

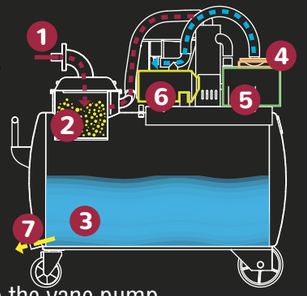
TECHNICAL DATA

POWER	kW I HP	5.5 I 7.5
VACUUM	mBar I inHg	900 I 26.58
CONTINUOUS CYCLE VACUUM	mBar I inHg	800 I 23.62
AIR FLOW RATE	l/min I m3/h I CFM	5170 I 300 I 188
VOLTAGE	V-Hz	400-50/60
TANK CAPACITY	L	1000
SOLIDS CONTAINER	L	40
VACUUM INLET	mm	50
SUCTION TIME	L/sec	1000/220
DISCHARGE TIME	L/sec	1000/240
SOUND LEVEL	dB(A)	82
WEIGHT	Kg	360
DIMENSIONS	Cm	94x165x188



DESCRIPTION

1. The material enters through a metal connector with a check valve
2. The suctioned material falls from above into the sieve
3. The liquid is drawn into the 1000 litre container
4. Cartridge filter in AISI 304 stainless steel
5. Electric motor connected to the vane pump
6. High vacuum suction pump
7. The liquid is discharged through a sturdy, oil-proof rubber tube and a manually adjusted valve



CLEAN AIR

The CLEAN AIR filtering unit was designed to purify the air in work environments contaminated by oily mist. The applications include: lathes for multiple applications, threading machines, gear-cutting machines, grinding machines, cold presses, vegetable oil sprayers, and also typographic rotary presses (in mists).

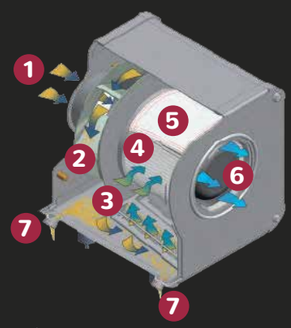
The CLEAN AIR separator is extremely compact thanks to the internal electric fan. This allows easy adaptability to any machine tool. The filtered oil is collected in the bottom of the separator and comes out of the drainage outlet. Filtration is ensured by a special cartridge with a very large filtering surface (IFA-BGIA certified, "M" classification, 98% yield, DIN 60335-2 directive), coated with a special regenerating coalescent pad. This practical filtering system is able to capture the remaining micro-mist extremely efficiently, decreasing any maintenance time and increasing the average life of the filter. The double draining system of the recondensed lubricant/coolant ensure perfect and efficient draining in any situation.

TECHNICAL DATA

		800	1200	2000
POWER	kW I HP	0.37 I 0.5	0.55 I 0.75	0.75 I 1
AIR FLOW RATE	m3/h I CFM	800 I 471	1200 I 706	2000 I 1177
VOLTAGE	V-Hz	400-50/60	400-50/60	400-50/60
FILTER SURFACE	cm2	60000	60000	120000
VACUUM INLET	mm	150	150	200
SOUND LEVEL	dB(A)	66	67	68
WEIGHT	Kg	40	41	54
DIMENSIONS	Cm	71x46x46	71x46x46	102x61x61

DESCRIPTION

1. Oily mist inlet
2. Reversed paddle impeller
3. Labyrinth prefiltering
4. Cellulose filter cartridge
5. Coalescent in polypropylene with high absorbing power
6. Filtered air outlet
7. Oil drain



TX

The three-phase industrial vacuum in the TX line is particularly suited to industries that need great suction power, for example, to suction heavy chips, to suction and clean the tables or turntables of the machine tools, to clean and remove chips from lathed and processed pieces, and whenever there is a need for high performance vacuuming and filtration.

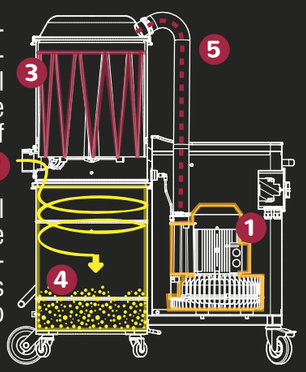
Thanks to its power and large, 38,000 cm2 bag filter, it can vacuum large quantities of material very quickly which maintaining high levels of manoeuvrability and adaptability. They are available painted or in AISI 304 stainless steel. They are equipped with a three phase lateral channel turbine, compensation valve (optional), manual filter shaker, magnetothermal switch, additional silencer, and “M” class filter to suction even very fine dust, greater or equal to 1 micron.

TECHNICAL DATA

		300	550 P
POWER	kW I HP	3 I 4	5.5 I 7.5
VACUUM	mBar I inHg	310 I 9.45	330 I 9.74
CONTINUOUS CYCLE VACUUM	mBar I inHg	210 I 5.91	260 I 6.2
AIR FLOW RATE	m3/h I CFM	420 I 294	530 I 354
VOLTAGE	V-Hz	400 I 50/60	400 I 50/60
SOLIDS CONTAINER	L	100	100
VACUUM INLET	mm	70	70
SOUND LEVEL	dB(A)	74	76
WEIGHT	Kg	130	155
DIMENSIONS	Cm	65x110x140	65x110x140

DESCRIPTION

1. The vacuum is generated by a high performance lateral channel turbine that can arrive at up to 7.5 kW of power
2. The vacuumed material enters from the suction inlet, encounters a deflector, loses speed, and falls into the container
3. The class “M” bag filter, with a filter surface of 38,000 m2, stops even the most difficult dusts
4. The lateral filter shaker allows the filter to be cleaned easily at the end of work, ensuring functionality, safety, and vacuum performance
5. The solid material is deposited in the hook container mounted on wheels, with a containment capacity of 100 litres
6. The passage of clean air to the turbine, that will be issued in the environment



HF

The HF vacuum is installed normally on the machine evacuator, with automatic discharge, in order to use the vacuum to clean small metal parts.

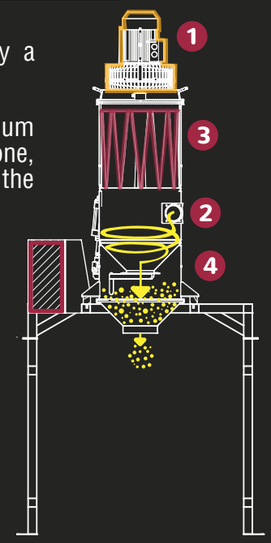
HF allows material to be vacuumed in several locations at the same time, transporting the vacuumed material from one zone to another through a series of fixed piping. The operator turns the vacuum on automatically by lifting the vacuum nozzle from its housing and can use it to clean, automatically discharging all the particulate directly on the machine tool evacuator, without the management time of common mobile vacuums. The metal chips and material enter inside the filter chamber, meet a cyclone that reduces its speed and allows to decant the heavier part inside the cone to discharge the suctioned material. An automatic filter cleaning system ensure continuous system operation. The HF vacuum can be customized based on the customer’s needs, with power of up to 25 kW. It is available with different material filtering and discharge systems as needed and depending upon the specific operating conditions.

TECHNICAL DATA

		430	850
POWER	kW I HP	4.3 I 5.8	8,5 I 12
VACUUM	mBar I inHg	420 I 12.4	220 I 6.5
CONTINUOUS CYCLE VACUUM	mBar I inHg	360 I 10.63	190 I 4.72
AIR FLOW RATE	m3/h I CFM	320 I 235	1050 I 765
VOLTAGE	V-HZ	400 - 50/60	400 - 50/60
SOLIDS CONTAINER	L	100	100
VACUUM INLET	mm	80	100
SOUND LEVEL	dB(A)	72	74
WEIGHT	Kg	185	375
DIMENSIONS	Cm	137x68x275	180x112x343

DESCRIPTION

1. The vacuum is generated by a lateral channel turbine
2. The material enters the vacuum inlet, encounters a metal cyclone, loses speed, and falls into the collection hopper
3. The filter protects the motor from any material that could return towards the turbine
4. The material collected is discharged automatically. It is possible to choose the most suitable discharge system for your needs



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