MIDACO Vacuum Systems

for CNC Coolant, Oil and Chip Removal

MIDACO's Industrial Vacuum Systems are designed to meet the extraction and recovery needs for coolant, oils, and emulsions with efficient filtration of metal chips. Allows for easy disposal or quick reintegration of filtered lubricant and coolant. Decrease CNC machine downtime and reduce maintenance and oil replacement cost due to CNC clean up.

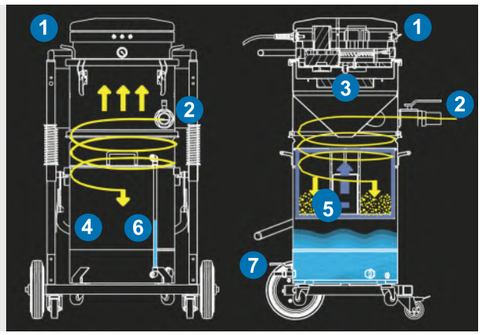
Midaco Corporation • www.midaco-corp.com • ph: (847) 593-8420

M264V Industrial Vacuum

Power	kW | HP	3.9 | 5.2
Vacuum	mBar | inHg	250 | 7.38
Air Flow Rate	l/min | m3/h | CFM	9500 | 570 | 336
Voltage	V-Hz	115/230 - 50/60
Tank Capacity	gal | L/min	26.4 | 100
Solids Container	gal | L/min	13.2 | 50
Vacuum Inlet	in | mm	1.96 | 50
Extraction Time	gal | L | sec	26.4 | 100 | 26
Sound Level	dB(A)	72
Weight	lbs | Kg	198.4 | 90
Dimensions	inches (Cm)	27.5"x17.7"x55" (70x45x140)

Description

1 - Vacuum head with 3 single-phase bypass motors.
2 - Material enters the "cyclone" and falls into the container.
3 - Filter stops the oily steam generated in the vacuum.
4 - Liquid is drawn into the 26.4 gal. (100L) container.
5 - Safety float stops the vacuum when the container is full.
6 - External indicator shows liquid level in the container.
7 - 1" (25.4mm) valve at base for quick draining.



M343VOS Industrial Vacuum with Flow Inversion

Power	kW | HP	2.4 | 3.2
Vacuum	mBar | inHg	250 | 6.79
Air Flow Rate	l/min | m3/h | CFM	5000 | 380 | 224
Voltage	V-Hz	240 - 50/60
Tank Capacity	gal | L	34.34 | 130
Solids Container	gal | L	10.56 | 40
Vacuum Inlet	in | mm	1.96 | 50
Extraction Time	gal | L | sec	34.34 | 130 | 30
Discharge Time	gal | L | sec	34.34 | 130 | 50
Sound Level	dB(A)	70
Weight	lbs | Kg	209.44 | 95
Dimensions	inches (Cm)	27.5"x46.5"x52" (70x118x132)


air flow inversion

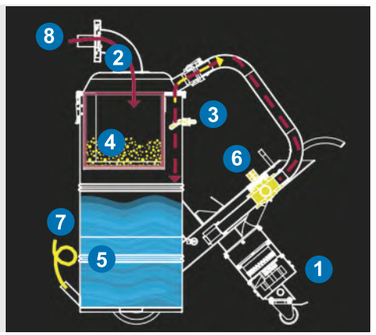

discharge nozzle


filter sieve


chip container

Description

1 - Vacuum is run by two single phase bypass motors with 2.4 kW of power.
2 - Material enters the "cyclone" and falls into the container.
3 - Electric sensor automatically shuts off the suction of the motors.
4 - Sieve separates solids and the liquid.
5 - Liquid is drawn into the container.
6 - The air flow inversion system allows discharge of the collected liquid.
7 - The liquid is discharged through a sturdy, oil-proof rubber tube and manually adjusted valve.
8 - A check valve inside the input connector ensures the liquids does not leak out during draining.

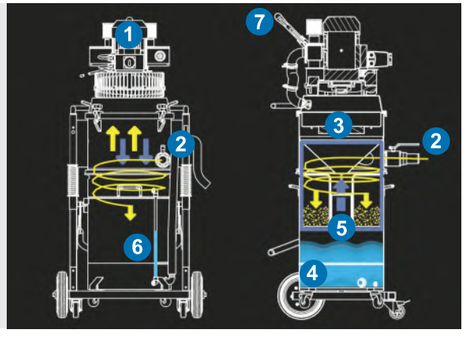


M264VOS Industrial Vacuum with Flow Inversion

Power	kW | HP	3 | 4
Vacuum	mBar | inHg	320 | 9.45
Cont.Cycle Vacuum	mBar | inHg	250 | 5.91
Air Flow Rate	l/min | m3/h | CFM	7000 | 420 | 294
Voltage	V-Hz	400 - 50/60
Tank Capacity	gal | L/min	26.4 | 100
Solids Container	gal | L/min	13.2 | 50
Vacuum Inlet	in | mm	1.96 | 50
Extraction Time	gal | L | sec	26.4 | 100 | 38
Discharge Time	gal | L | sec	26.4 | 100 | 92
Sound Level	dB(A)	78
Weight	lbs | Kg	242.5 | 110
Dimensions	inches (Cm)	33"x28"x63.8" (84x71x162)

Description

1 - Vacuum is run by a 3 kW lateral channel Siemens turbine.
2 - Material enters the "cyclone" and falls into the container.
3 - Filter stops the oily steam generated in the vacuum.
4 - Liquid is drawn into the 26.4 gal. (100L) container.
5 - Safety float stops the vacuum when the container is full.
6 - External indicator shows liquid level in the container.
7 - 1" (25.4mm) valve at base for quick draining.



M740VOS Industrial Vacuum with Flow Inversion

Power	kW | HP	3.9 | 5.2
Vacuum	mBar | inHg	250 | 7.38
Air Flow Rate	l/min | m3/h | CFM	9500 | 570 | 336
Voltage	V-Hz	115/230 - 50/60
Tank Capacity	gal | L	73.97 | 280
Solids Container	gal | L	10.57 | 40
Vacuum Inlet	in | mm	1.96 | 50
Extraction Time	gal | L | sec	73.97 | 280 | 63
Discharge Time	gal | L | sec	73.97 | 280 | 60
Sound Level	dB(A)	72
Weight	lbs | Kg	485 | 220
Dimensions	inches (Cm)	27.5"x57"x55" (70x145x140)

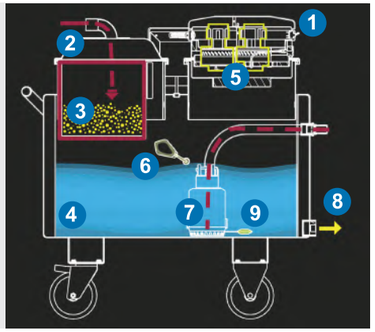

3 single-phase bypass motors


immersion pump

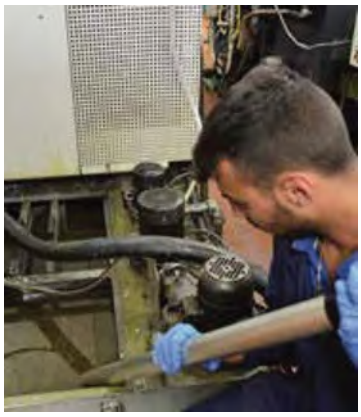
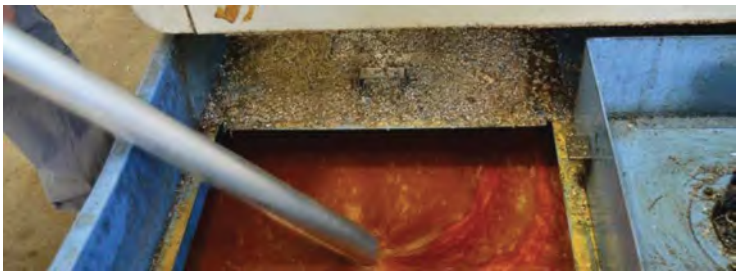

level sensor

Description

1 - Vacuum is generated by a head with 3 single-phase bypass motors.
2 - Material is suctioned from above and falls into the sieve.
3 - Sieve separates solids and the liquid.
4 - Liquid is drawn into the tank.
5 - Filter stops oily steam 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.
8 - The liquid is discharged through 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.



MIDACO Vacuum Systems



Efficiency is essential in any machine shop to maintain productivity. Time spent during maintenance and cleaning your machine tool cuts into production time. The average time needed for an operator to empty, clean and reintegrate the oil emulsified inside a 1000 liter machine is about 4 hours. Using a proper industrial vacuum can cut that time in half.

Midaco Vacuum Systems decrease machine down time, reduce machine tool maintenance cost. Systems with liquid recovery and reintegration features save on cost of oil and coolant.

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