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 through a micro-perforated carbon steel basket. This 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)

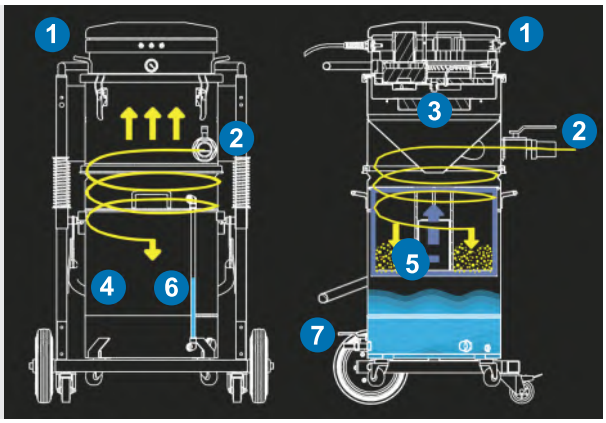
easily move with forklift

oil steam filter

valve handle at base

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. Safety float stops the vacuum when the container is full.
5 - Micro-perforated carbon steel basket separates solids and the liquid. *(includes a 150 micron PPL filter for very fine chips)*
6 - External indicator shows liquid level in the container.
7 - 1" (25.4mm) valve at base for quick draining.

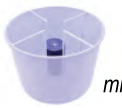


M264VOS Industrial Vacuum with Flow Inversion

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)

valve handle at top

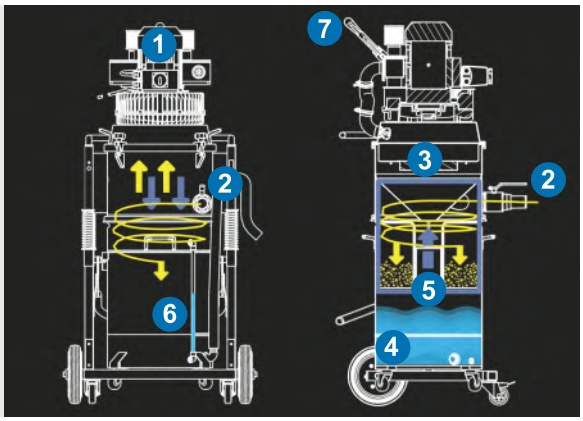
discharge nozzle



micro-perforated carbon steel basket

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. Safety float stops the vacuum when the container is full.
5 - Micro-perforated carbon steel basket separates solids and the liquid. *(includes a 150 micron PPL filter for very fine chips)*
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

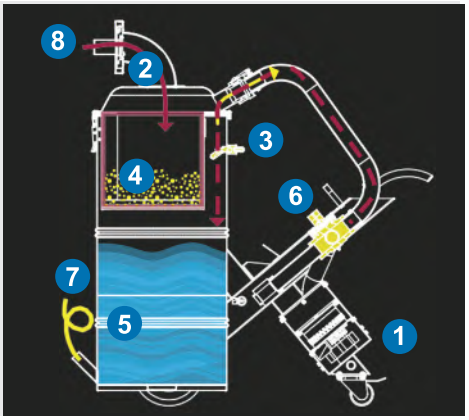
discharge nozzle

filter for very fine chips

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 - Micro-perforated carbon steel basket separates solids and the liquid.
(includes a 150 micron PPL filter for very fine chips)
5 - Liquid is drawn into the 34.34 gal. (130L) container.
6 - The air flow inversion system allows discharge of the collected liquid.
7 - Liquid is discharged through an 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.



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)

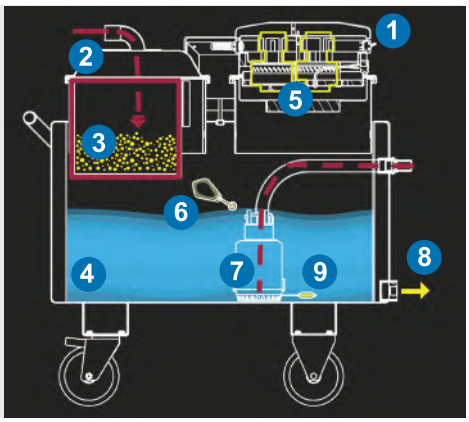
3 single-phase bypass motors

immersion pump

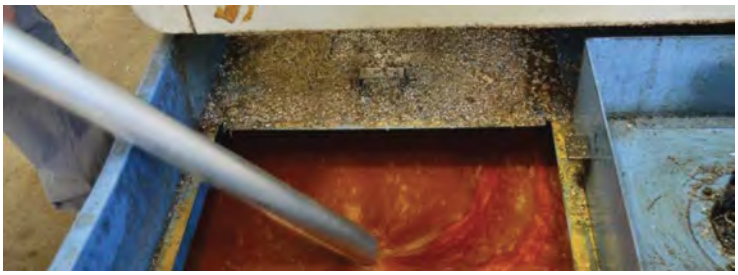
micro-perforated carbon steel basket

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 - Micro-perforated carbon steel basket separates solids and the liquid.
(includes a 150 micron PPL filter for very fine chips)
4 - Liquid is drawn into the 73.97 gal. (280L) container.
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 - A level sensor on the pump automatically stops drainage upon min. 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 machining center 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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