

Chip Trapper™

Filter the chips out of your used coolant and cutting oils!

Vacuums in the liquid with solids, pumps out only the liquid!



What Is The Chip Trapper?

The patented* Chip Trapper offers a fast, easy way to clean chips, swarf and shavings out of used coolants and other liquids. The Chip Trapper vacuums the coolant or liquid that is filled with debris and traps all the solids in a reusable filter bag. Only the liquid pumps back out. It is ideal for use on machines with sumps, parts washers, tanks and storage containers of contaminated liquids.



The Chip Trapper uses EXAIR's compressed air powered Reversible Drum Vac (included) that can fill or empty a 55 gallon drum in less than two minutes. Simply set the Reversible Drum Vac pump and directional flow control valve on top of the drum to "fill" for it to quickly vacuum the liquid with solids. Once the sump, pit or tank is empty, set the pump and directional valve to "empty" for it to pump out clean coolant/liquid. All the chips and other solids are trapped inside the reusable filter bag of the Chip Trapper.



Chips can accumulate in the sump, restricting coolant flow.

Why The Chip Trapper?

A sudden lack of coolant flow in a machining operation will likely damage the part and expensive tooling. Machine tools commonly discharge some chips and shavings into the coolant sump. As the chips accumulate and mound up, the coolant flow used to flood the part and tooling becomes restricted. Some high pressure coolant systems sound an audible alarm and abruptly shut down the machine when low coolant flow occurs. This results in downtime to fix the problem and clear the alarm. That isn't the case with standard machines where immediate damage can occur if the operator fails to spot the lack of coolant. Regular cleaning of the coolant sump with the Chip Trapper can quickly eliminate this very costly problem.



The Chip Trapper pumps the coolant back into the sump - free of chips and debris.



Chip Trapper filters out solids from parts washer fluids.

Applications

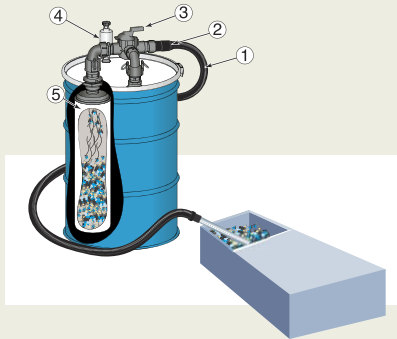
- CNC's
- Lathes
- Saws
- Mills
- Drills
- Parts washers
- Pits
- Tanks
- Containers
- Grinders

Advantages

- Removes unwanted solids from liquid
- Recycles coolants
- No moving parts
- No motors to clog or wear out
- Self priming stainless steel pump
- Safe - no electricity
- Built-in pressure/vacuum relief
- Drum is included
- Spill free - auto safety shutoff
- Quiet

*Patent #8153001 and #8268179

How The Chip Trapper Works



The vacuum hose (1) is attached to the barbed connection of the Chip Trapper (2). The directional flow control valve on top of the drum (3) and knob on the pump (4) are set to the "fill" position. The air supply valve is opened to permit compressed air at 80-100 PSIG (5.5 - 6.9 BAR) to flow through the pump which pulls the liquid through the hose, then into the reusable filter bag (5). When all liquid is in the drum, the air supply is turned off. The filtered liquid can then be pumped out by setting the directional flow control valve on top of the drum and the knob on the pump to the "empty" position. Once the air supply valve is opened, the air pushes the liquid back through the hose while all solids remain in the reusable filter bag.

Warning: Do not use with any material with a low flash point or with flammable liquids such as fuel oil, alcohol, mineral spirits, gasoline or kerosene.

Chip Trapper System Specifications

Pressure Supply 80 PSIG (5.5 BAR)	Air Consumption		Water Flow Rate		Sound Level
DESCRIPTION	SCFM	SLPM	GPM	LPM	86 dBA
CHIP TRAPPER	19	538	30	114	

The filter bag included with the system provides 5 micron filtration.

Built To Last

The stainless steel pump has no motors or impellers to clog or wear out and there is no electricity or shock hazard! Safe operation is assured with a built-in pressure/vacuum relief and an automatic safety shutoff valve that prevents spills or overflowing.



The Chip Trapper includes the pump assembly with directional flow valve, a 30, 55 or 110 gallon drum, 10' (3m) chemical resistant hose, 20' (6.1m) compressed air hose, aluminum chip wand, (2) reusable 5 micron filter bags and drum dolly.

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Chip Trapper Systems

Model #	Description
6198	55 Gallon Chip Trapper System includes the Reversible Drum Vac pump assembly, directional flow valve, 55 gallon drum, lever lock drum lid, shutoff valve, 10' (3m) flexible vacuum hose (1-1/2"/38mm I.D.), 20' (6.1m) compressed air hose, chip wand, (2) filter bags and drum dolly.
6198-30	30 Gallon Chip Trapper System - same as Model 6198 except includes a 30 gallon drum
6198-110	110 Gallon Chip Trapper - same as Model 6198 except includes a 110 gallon drum.
6091	Reversible Drum Vac Only - included in all systems listed above.

Accessories

Model #	Description	Model #	Description
901060-1	Replacement Filter Bag, 1 micron	901060-200	Replacement Filter Bag, 200 micron
901060	Replacement Filter Bag, 5 micron	901060-SP	Filter Bag Sample Pack- Includes one each 1, 25, 50, 100 & 200 micron bags
901060-25	Replacement Filter Bag, 25 micron	6901	Spill Recovery Kit includes a one-piece 54" (1372mm) ABS wand and 14" (356mm) double blade squeegee tool
901060-50	Replacement Filter Bag, 50 micron		
901060-100	Replacement Filter Bag, 100 micron	9001	Auto Drain Filter Separator, 3/8 NPT, 65 SCFM (1,841 SLPM)

High Lift Chip Trapper™

Filter chips and solids out of used coolant and liquids from below grade sumps or elevated tanks!

Vacuum in liquid with solids and pump out only the liquid, with 15 feet of lift!

What Is The High Lift Chip Trapper?

The patented* High Lift Chip Trapper offers a fast, easy way to clean chips, swarf and shavings out of used coolants and other liquids. The High Lift Chip Trapper vacuums the coolant or liquid that is filled with debris and traps all the solids in a reusable filter bag. Only the liquid pumps back out. It is ideal for use on pits, wells, below grade sumps, tanks and storage containers of contaminated liquids.



Why The High Lift Chip Trapper?

EXAIR's compressed air operated High Lift Chip Trapper System attaches quickly to the included 30, 55 or 110 gallon drum lid. Its high powered vacuum is able to lift liquids up to 15 feet or pump liquids from as far as 20 feet and fill a 55 gallon drum in less than 85 seconds. With the simple turn of a knob, the same stainless steel pump quickly empties the drum. The High Lift Chip Trapper has the extra power you need to move liquids from below grade work areas, sumps or tanks.

Wells, pits, below grade or elevated tanks can accumulate debris. This debris can cause problems when the liquid is transferred into a machine or process. Waste oil for heating or recycled lubricants which are suitable for dirtier jobs can be used without worry of solids damaging equipment. The heavy duty power of the High Lift Chip Trapper is capable of moving high viscosity liquids up to 1400 centipoise.

If you need assistance choosing the right High Lift Chip Trapper System, please contact an Application Engineer to discuss your application.

Industrial Housekeeping

Applications

- Below grade coolant sumps
- Deep wells
- Underground storage tanks
- Pits
- Drains
- Deep hole broaching
- Bulk storage tanks
- Cisterns

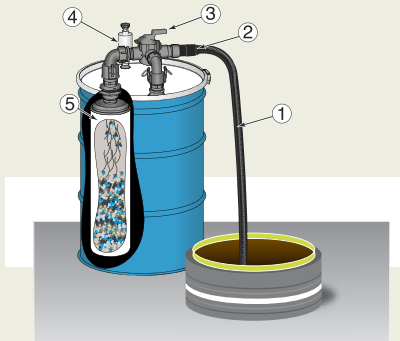
Advantages

- Removes unwanted solids from liquid
- Recycles coolants
- No moving parts
- No motors to clog or wear out
- Self priming stainless steel pump
- Safe - no electricity
- Built-in pressure/vacuum relief
- Spill free – auto safety shutoff
- Quiet

*Patent #8153001 and #8268179

High Lift Chip Trapper

How The High Lift Chip Trapper Works



The vacuum hose (1) is attached to the barbed connection of the High Lift Chip Trapper (2). The directional flow control valve on top of the drum (3) and knob on the pump (4) are set to the "fill" position. The air supply valve is opened to permit compressed air at 80-100 PSIG (5.5 – 6.9 BAR) to flow through the pump which pulls the liquid through the hose, then into the reusable filter bag (5). When all liquid is in the drum, the air supply is turned off. The filtered liquid can then be pumped out by setting the directional flow control valve on top of the drum and the knob on the pump to the "empty" position. Once the air supply valve is opened, the air pushes the liquid back through the hose while all solids remain in the reusable filter bag.

Warning: Do not use with any material with a low flash point or with flammable liquids such as fuel oil, alcohol, mineral spirits, gasoline or kerosene.

High Lift Chip Trapper System Specifications

DESCRIPTION	Air Consumption		Lift		Water Flow Rate		Sound Level
	SCFM	SLPM	"H ₂ O	mm Hg	GPM	LPM	
HIGH LIFT CHIP TRAPPER	43	1,218	180	336	30	114	83 dBA

Built To Last

The stainless steel pump has no motors or impellers to clog or wear out and there is no electricity or shock hazard! Safe operation is assured with a built-in pressure/vacuum relief and an automatic safety shutoff valve that prevents spills or overflowing.



See page 4 for complete details.



The High Lift Chip Trapper includes the pump assembly with directional flow valve, a 30, 55 or 110 gallon drum, 20' (6.1m) chemical resistant hose, 20' (6.1m) compressed air hose, chip wand, (2) reusable 5 micron filter bags and drum dolly.



The 5 micron filter bag traps all the chips so no solids get pumped back out of the drum.

High Lift Chip Trapper Systems

Model #	Description
6190	55 Gallon High Lift Chip Trapper System includes the High Lift Reversible Drum Vac pump assembly, directional flow valve, 55 gallon drum, lever lock drum lid, shutoff valve, 20' (6.1m) flexible vacuum hose (1-1/2"/38mm I.D.), 20' (6.1m) compressed air hose, chip wand, (2) filter bags and drum dolly.
6190-30	30 Gallon High Lift Chip Trapper System - same as Model 6190 except includes a 30 gallon drum.
6190-110	110 Gallon High Lift Chip Trapper - same as Model 6190 except includes a 110 gallon drum.
6095	High Lift Reversible Drum Vac Only- Included in all systems listed above.

Accessories

Model #	Description	Model #	Description
901060-1	Replacement Filter Bag, 1 micron	901060-200	Replacement Filter Bag, 200 micron
901060	Replacement Filter Bag, 5 micron	901060-SP	Filter Bag Sample Pack- Includes one each 1, 25, 50, 100 & 200 micron bags
901060-25	Replacement Filter Bag, 25 micron	6901	Spill Response Kit includes a one-piece 54" (1372mm) ABS wand and 14" (356mm) double blade squeegee tool
901060-50	Replacement Filter Bag, 50 micron		
901060-100	Replacement Filter Bag, 100 micron	9001	Auto Drain Filter Separator, 3/8 NPT, 65 SCFM (1,841 SLPM)