

Sump Cleaners

REMOVE CHIPS, SLUDGE & SOLIDS WITH MINIMAL DOWNTIME



Eriez Sump Cleaners

Eriez Sump Cleaners rapidly remove fluid, sludge and chips from the sump, filter the sludge and chips from the fluid via the reusable integral filter liner, and return the filtered fluid to the sump. A polypropylene filter sleeve filters to a nominal 50 microns. For finer filtration, a single-use paper filter sleeve (to 20 microns nominal) can be inserted into the chip basket.

In just ten to fifteen minutes, a CNC machine tool sump with 50 gallons of coolant and 20 pounds of sludge can be completely cleaned and the filtered coolant returned to the sump.

Features

- Power sources: LP gas, electric or air
- Capacities ranging from 50 to 1,000 US gallons
- Single and twin tank units with capacities of up to 500 gallons each
- Push-around configurations with center mounted wheels and casters
- Everything self contained for easy portability
- Towable units include end mount casters and tow bar



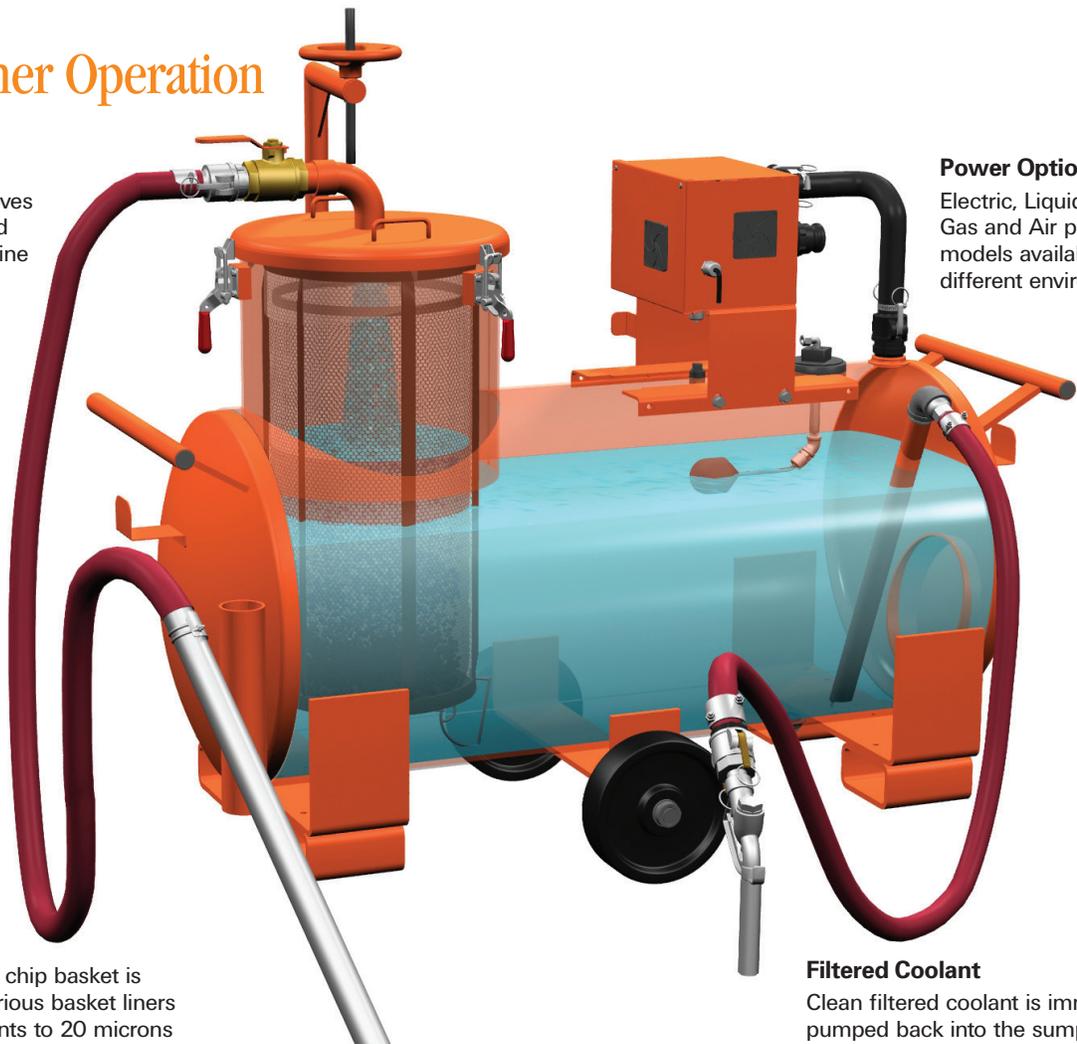
Machine tool coolant, chips and sludge are easily vacuumed out of the sump.



Sump Cleaner Operation

Dirty Coolant

Powerful suction removes heavy solids, chips and sludge from any machine tool sump at a rate up to 100 GPM



Power Options

Electric, Liquid Propane Gas and Air powered models available for different environments

Chip Basket

Heavy-duty perforated chip basket is removed via crane. Various basket liners can further filter coolants to 20 microns

Filtered Coolant

Clean filtered coolant is immediately pumped back into the sump



The reusable polypropylene filter sleeve is inserted into the chip basket to filter coolant to 50 microns. Finer filtration of 20 microns nominal can be achieved with a single use paper filter sleeve.



Once filtered, coolant is returned to the sump at a rate of 20 to 40 GPM.

TSUBAKI AUTOMOTIVE

“The Eriez Sump Cleaner literally paid for itself in the first use.”

“With the Eriez Sump Cleaner, it now takes two hours to do the complete job, where it used to take 8 to 11 hours per machine. We re-use the filtered oil at least one time over, which saves us 50 percent on oil consumption. We save almost \$70,000 per year in cutting oil alone. Add in labor savings and reduction in downtime and the total payback is over \$150,000 per year.”

Sump Cleaners

Eriez offers the widest assortment of sump cleaners to keep machine tools operating at peak performance, with capacities to 1,000 gallons and three power options.

Tank capacities:

Single tank units – 50, 65, 100, 175, 300, 400, 500, 1000 gallons

Twin tank units – 50/50, 100/100, 150/150, 200/200, 300/300, 400/400, 500/500 gallons

Features

- 3.5 cubic foot chip basket in 65 and 100 gallon units and 5.3 cubic foot chip basket for 175 gallon and larger units. Both with 800 pound capacity and hinged trap door bottom
- Two reusable polyfiber sleeves for chip basket
- 20' long 2" diameter suction and 1-1/2" diameter discharge hoses
- Heavy duty tank with 14" easy on/off manhole cleanout on end of tank. Easy lift chip basket lid on 65 gallon and above units.
- Push-around configuration, including center mounted 12" x 3" wheels and 4" x 2" casters mounted on each end, plus forklift brackets for 100 gallon units and above
- One 3' x 2" cleaning tool



Chip basket captures chips and sludge from dirty coolant during cleaning.



Easy access to the discharge hose connection.

Electric Sump Cleaner

120 volt single phase unit

These sump cleaners utilize a 120-volt motor assembly that generates 10" HG vacuum with suction rates up to 85 GPM while being able to pick up chips, sludge, grinding swarf and other solids. A discharge pressure of 5 PSI for discharge rates up to 40 GPM.

3 Phase (208, 240, 480, 575 volt) units

Utilize cast iron 3MP positive displacement blower coupled to a 5 HP motor that generates 12-15" HG vacuum power with suction rates up to 100 GPM while being able to pick up chips sludge, grinding swarf and other solids. A discharge pressure of 5-7 PSI for discharge rates up to 40 GPM.



LP Gas Driven Cleaner

The LP Gas (Liquefied Petroleum Gas) powered Sump Cleaner utilizes a cast iron 3MP positive displacement blower coupled to a 25 HP electric start LP gas engine that generates 12-15" HG vacuum power with suction rates up to 100 GPM while being able to pick up chips, sludge, grinding swarf, etc. Discharge pressure of 5-7 PSI for discharge rates up to 40 GPM.



Air Venturi Sump Cleaner

An Air Venturi vacuum generator creates vacuum levels up to 13" HG for suction rates up to 110 GPM while being able to pick up chips, sludge, grinding swarf and other solids. A pre-set air pressure regulator for discharge is set for 5-7 PSI, with tank depressurization valve for discharge rates up to 40 GPM.



Note: Air Venturi requires a 1/2" ID air line.



Twin Compartment Sump Cleaner

Eriez Twin Compartment Sump Cleaners have one tank for dirty fluid and one for new or recycled fluid.

The operator fills the clean side with new or recycled fluid, goes to the machine tool sump, and pumps out the dirty fluid, solids and chips into the dirty side of the unit. The operator then refills the machine tool sump with the clean fluid from the clean side of the sump cleaner.

The sump cleaner is then used to transport the dirty coolant to an Eriez Coolant Recycling System for further processing or to a coolant disposal tank. Twin tank option is available with all power supplies.



50 Gallon Sump Cleaner

120 volt 3 stage motor assembly that generates 10" HG vacuum with suction rates up to 85 GPM while being able to pick up chips, sludge, grinding swarf and other solids. A discharge pressure of 5 PSI for discharge rates up to 40 GPM.

Features

- Electric switch to shut off motor when unit is full
- 10' long x 2" ID suction and 1-1/2" discharge hoses
- 1.6 cubic foot (.45 cubic meter) rectangular chip basket with polyfiber sleeve
- Push-around configuration with two 4" x 2" swivel and two rigid casters
- Dimensions: 44" (1118 mm) long x 23.5" (597mm) wide x 51" (1295mm) high
- Weight: Approximately 350 pounds (159kg)
- Electrical: 120 volt, 60 Hz, 20 amp outlet (running amp draw is 14 amps)



Drum Top Vacuum

The Drum Top Vacuum is an inexpensive vacuum device capable of vacuuming chips and solids from machine tools and work areas as well as emptying coolant sumps of liquids and solids. The unit is designed to be used on an open top 55 gallon drum.

Features

- Heavy duty drum cover plate
- Air venturi vacuum generator that mounts to cover plate
- Manual float switch to be used if unit will be used to vacuum liquids
- Fluid/solids deflector that mounts to underside of bottom plate
- 10' suction hose
- Hose to cover adapter
- 36" cleaning tool

Utility Requirements

Compressed air: 60-90 PSI, 32-47 CFM

Air hose: 1/2" ID unrestricted



Chip Basket Liners

Eriez' Sump Cleaners filter sludge and chips from cutting fluid via a reusable integral filter liner. The polypropylene filter sleeve filters to a nominal 50 microns. For finer filtration, a single use paper filter sleeve (to 20 microns nominal) can be inserted into the chip basket.



Eriez Sump Cleaners

Capacity in gallons	Power	Length	Width	Height	Empty weight	Suction rate on water based fluids	Suction rating	Depth of pits able to vacuum fluid from	Discharge rate
50	120 volt electric	43"	21.5"	48.5"	390	85 GPM	9-10" Hg	4'	20-40 GPM
50	Air Venturi	43"	21.5"	48.5"	390	100 GPM	13.5" Hg	15'	20-40 GPM
65	120 volt electric	64"	25.5"	52"	650	85 GPM	10" Hg	4'	20-40 GPM
65	Air Venturi	64"	25.5"	52"	650	100 GPM	13.5" Hg	10'	20-40 GPM
100	120 volt electric	84"	34.5"	62"	975	85 GPM	9-10" Hg	4'	20-40 GPM
100	Air Venturi	84"	34.5"	62"	975	100 GPM	13.5" Hg	15'	20-40 GPM
100	3 phase electric	84"	34.5"	62"	1200	100 GPM	15" Hg	15'	20-40 GPM
100	LP gas	84"	34.5"	62"	1300	100 GPM	15" Hg	15'	20-40 GPM
175	120 volt electric	79"	36"	68.5"	1000	85 GPM	9-10" Hg	4'	20-40 GPM
175	Air Venturi	79"	36"	68.5"	1000	100 GPM	13.5" Hg	15'	20-40 GPM
175	3 phase electric	79"	36"	68.5"	1225	100 GPM	15" Hg	15'	20-40 GPM
175	LP gas	79"	36"	68.5"	1325	100 GPM	15" Hg	15'	20-40 GPM
275	Air Venturi	82"	39.5"	72"	1125	100 GPM	15" Hg	15'	20-40 GPM
275	3 phase electric	82"	39.5"	72"	1350	100 GPM	15" Hg	15'	20-40 GPM
275	LP gas	82"	39.5"	72"	1450	100 GPM	15" Hg	15'	20-40 GPM

Single compartment units larger than 275 gallons come with a tow package, forklift base, or for mounting on industrial trucks. These units are available in Air Venturi, 3 phase electric, and LP gas power in capacities of 300, 400, 500 and 1000 gallons

Twin tank units are available in Air Venturi, 120 volt electric, 3 phase electric and LP gas power in capacities of 50/50, 100/100, 150/150, 200/200, 250/250, 300/300, 400/400 and 500/500 gallons.



WORLD AUTHORITY IN SEPARATION TECHNOLOGIES



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