



For Metalworking Coolants & Cleaners

- Coalescing Oil Water Separators
- Coolant Recycling Systems
- Portable Coolant Recyclers
- Magnetic Separators
- Floating Suction Skimmers
- Sumpcleaners



CoolantLoop



CF-20



Sump Caddy

*J-Tube
Skimmer*



V3



Magnetic Separator

Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com

www.smartskim.com

SmartSkim® CoolantLoop™

Coolant Recycling Systems

THE INDUSTRY STANDARD

The CoolantLoop™ Coolant Recycling Systems are based on decades-long successful fluid treatment practices, using the award-winning, multipatented SmartSkim® Systems approach to solving problems.

SmartSkim is the industry leader in coolant recycling systems. By getting the fluids out of dirty sumps on a regular basis, all three types of coolant contamination problems - tramp oils, solids, and bacteria - can easily and effectively be removed. We incorporate the "best in class" coalescing and skimming technologies. Our oil separators and skimmers quickly promote the capture and separation of contaminated floating oils and suspended solids from your valuable machining coolants. Additionally, our FilterLoop process can polish the coolant to levels of 1 -10 micron. With the correct processes in place your coolant life can be extended exponentially.

The SmartSkim CoolantLoop can be used with virtually any coolant. Our mode of operation provides for continuous recirculation of the system which eliminates stagnation, provides aeration, and gives multi-pass filtration. Because of our open-channel coalescing technology, our system will not split weak emulsions or remove additive packages like other technologies.



Attributes:

- Designed for easy installation and minimal maintenance
- Highly reliable systems with little to no downtime
- Minimal operator involvement and training
- No need to budget for expensive consumables
- Runs on plant air only. No electrical panel necessary on standard systems
- System payback typically in less than 9 to 12 months
- Systems available for small, medium and large operations

Benefits:

- Reduce your cost of new coolant concentrate purchases by 35% to 65%
- Cut your cost of dirty coolant disposal by 50% to 90%
- Better control of coolant concentration levels
- Improve machine tool cleanliness and reduce misting
- Eliminate environmental risks and the liability of off-site disposal
- Improve tool life and product quality
- Reduce coolant supply pump maintenance
- Safeguard worker health and safety
- Improve coolant efficiency



Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com

SmartSkim® CoolantLoop™

Coolant Recycling Systems

CL400



CoolantLoop Systems include:

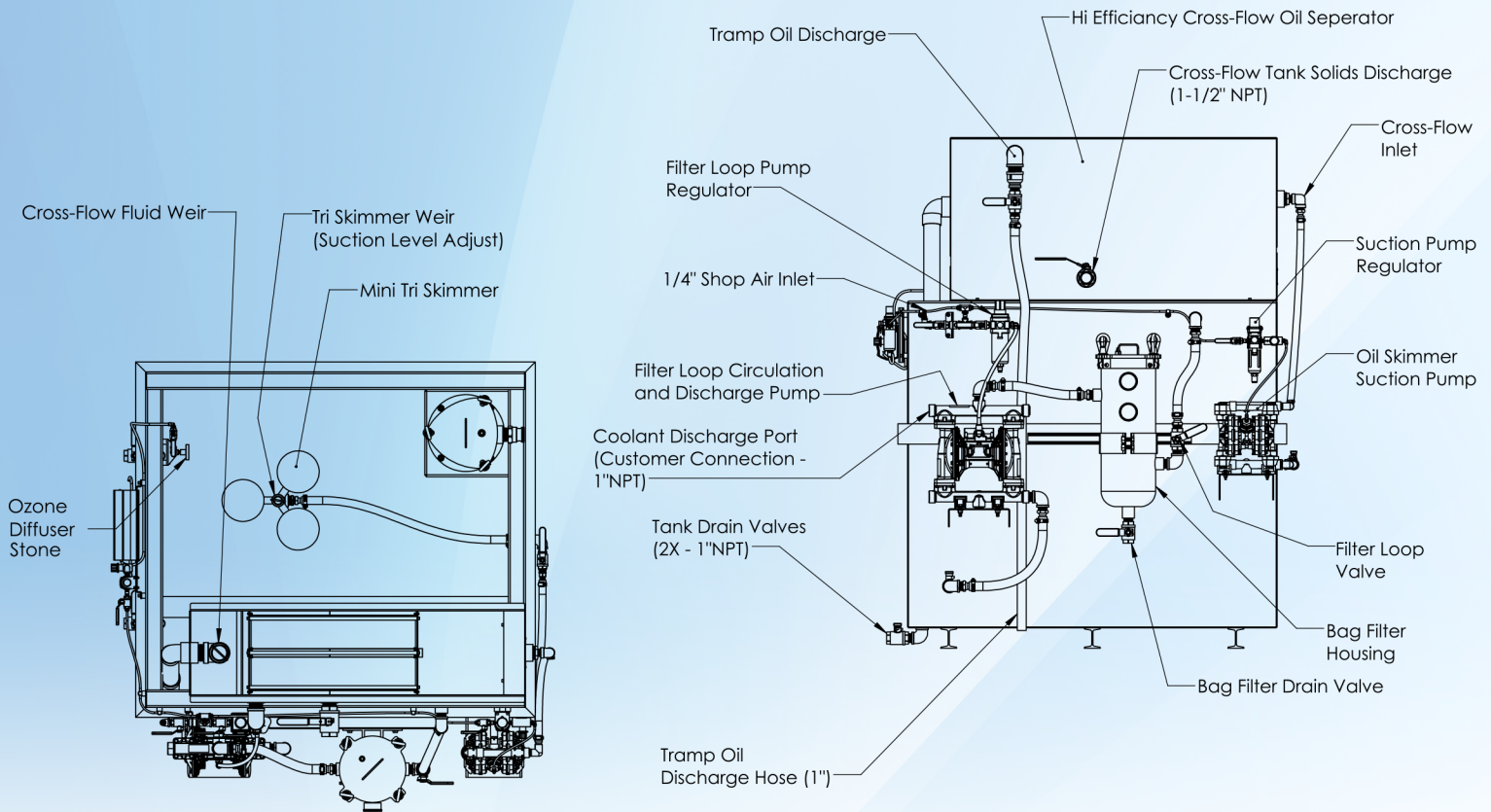
- Dual compartment processing tank for the storage of dirty coolant and a constant supply of immediately available clean recycled coolant (Note: CL400 system is a single compartment processing tank)
- Our patented floating suction skimmers for the most efficient skimming of the floating tramp oils
- Our patented oil separators for the most efficient separation of non-emulsified oils from your valuable water soluble coolant solution
- Various filters for the removal of particulates from the dirty coolant; filtration includes reusable filters for larger particulates and magnetic separators for ferrous fines
- Ozone generation via corona discharge technology and micro-bubbles from a special dispersion stone. The most efficient removal of bacteria and odors
- Air operated diaphragm pumps that provide for ease of maintenance and minimal air consumption
- SmartSkim provides retrofit components to improve the efficiencies of Hyde, Xybex, Sanborn, Deerpath and other outdated coolant recycling systems

Standard CoolantLoop Systems

Model	Tank Size (gal) Clean/Dirty Side	Length (inches)	Width (inches)	Height (inches)
CL400	400 total	63	65	76
CL800	400/400	72	77	83
CL1200	600/600	101	77	83
CL2400	1,200/1,200	104	140	84

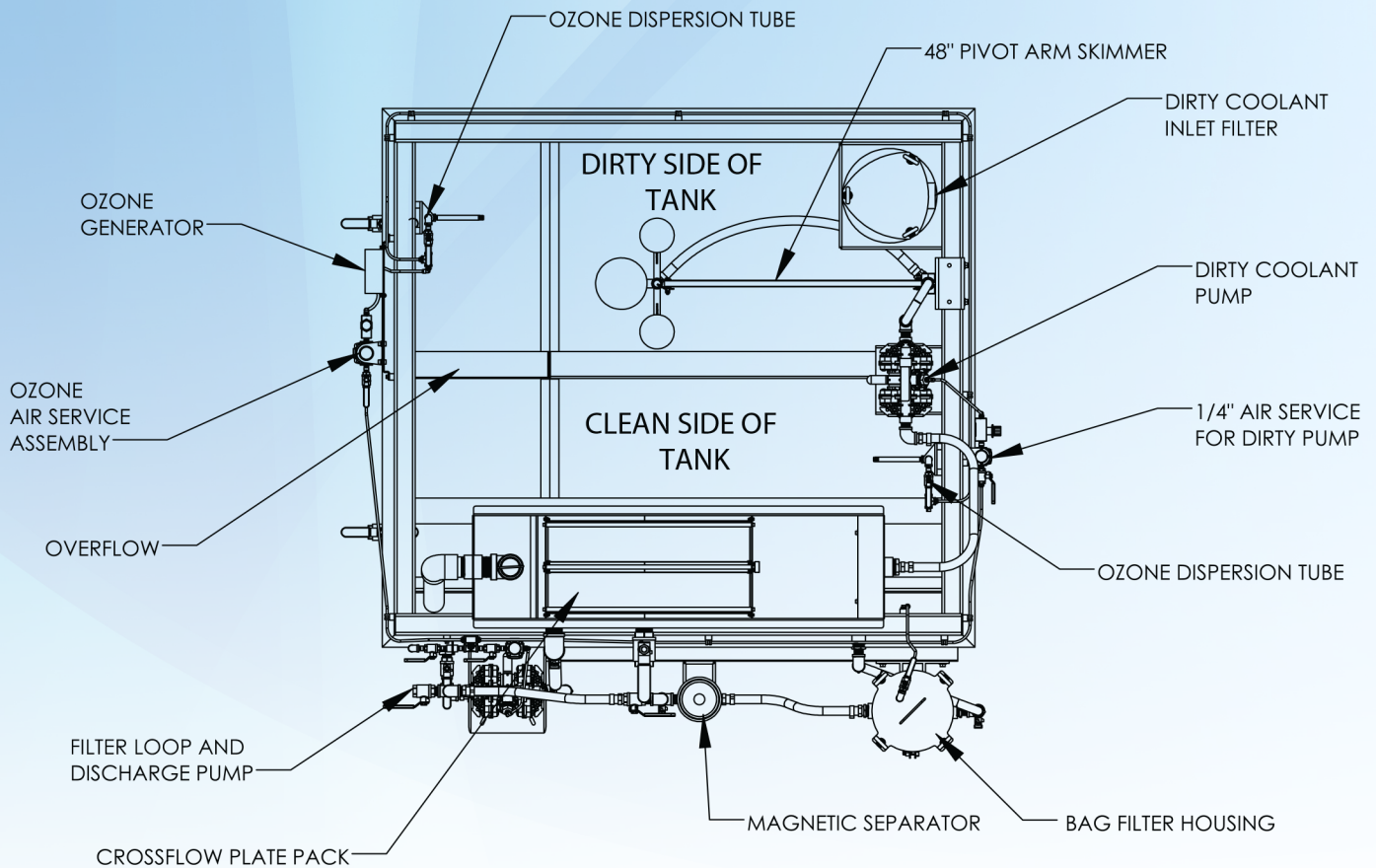


Floating suction skimmer



CL400 System Setup

CL800 / CL1200 System Setup



CoolantLoop™

Additional Features:

- ▶ **COOLANT RETURN SYSTEM:** Our larger FilterLoop pump allows for the flow of recycled coolant to a plant-wide distribution system.
- ▶ **INLET STRAINER/FILTERS:** Stainless steel strainer basket fitted with nylon reusable 100 or 250 micron filters.
- ▶ **OZONATOR:** Provides biological and odor control while minimizing or eliminating the use of expensive and dangerous biocides.

Optional Equipment:

- ▶ **MAGNETIC SEPARATOR:** Rare-earth magnetics for the Inlet Filter and/or on the FilterLoop for filtration down to 1 micron of ferrous fines.
- ▶ **COOLANT PROPORTIONER:** While a coolant proportioner is included as a standard feature on our recyclers, we also offer precision metering proportioners that ensure a greater level of coolant concentration control.
- ▶ **SUMP CLEANER/COOLANT DISPENSER:** Allows for the quick removal and easy transport of coolants to/from the sumps and our SmartSkim Recycler.
- ▶ **HOSE REELS:** Assist in the distribution of recycled coolant back to your sumps. One hose reel can effectively serve multiple machining centers.



Hose Reel



Sump Cleaner



Coolant Dispenser

Site Requirements

Air: Systems needs 30 PSI of clean dry plant air. Entire system uses approximately 5-15 SCFM of air.

Electric: Ozonator supplied with standard 120V plug. (240v available upon request)

Water: ¾" NPT water line at 40 PSI for coolant makeup proportioner.

Maintenance: System should be cleaned periodically as needed depending on contamination loading, type of coolant used, pre-filtration available and maintenance practices of plant. Total system cleaning of once per year is recommended.

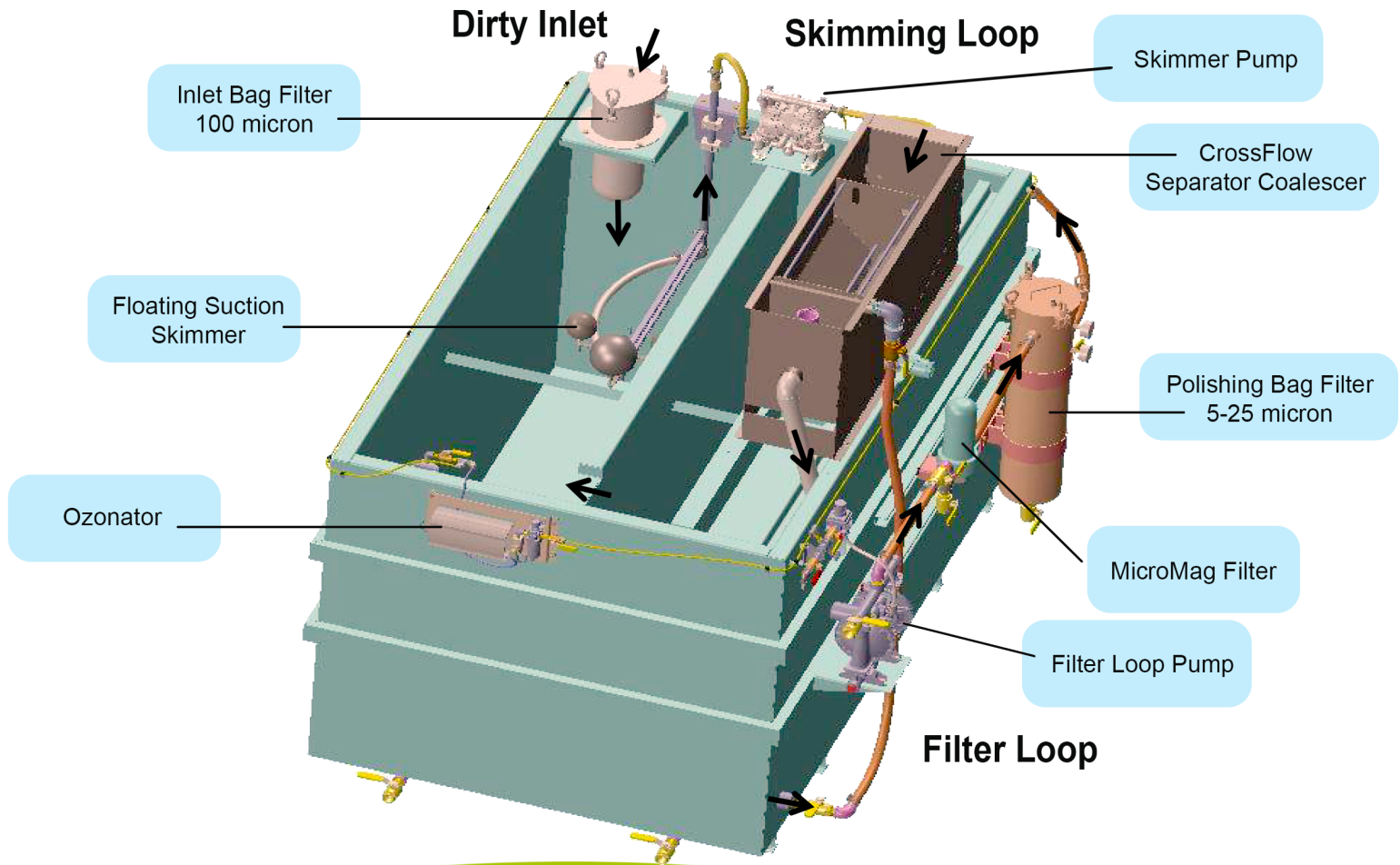
Materials of Construction

All CoolantLoop™ Systems are manufactured to industrial grade standards. Process tanks are welded inside and out and have a powder-coated exterior finish. All tanks are channel reinforced and tank bottoms have support beams. We use non-stalling air operated diaphragm pumps with poly or aluminum bodies and Buna-N wetted parts.

Standard filtration includes a size #1 or #2 bag filter housing, however, a number of optional polishing filtration devices are available based on the particular needs of your shop. All CoolantLoop systems incorporate the SmartSkim world renown 304 stainless steel floating suction skimmers and separators.

Systems are shipped complete with all fittings, piping, hoses and valves to make a complete assembly.

SmartSkim Coolant Recycler Process Flow



Process Description

Dirty coolant is introduced into the inlet side of the CoolantLoop System by a sump sucker (sumpcleaner), drum vacuum or a more manual process. Passing through the inlet strainer/filter will capture any large debris such as chips, ear plugs and other particulates that get into your coolants.

The multi-patented SmartSkim floating suction skimmer continuously skims the surface via a transfer pump which moves the skimmed fluids through the oil/water separator. The SmartSkim open channel coalescing design removes free and mechanically dispersed oils and gross solids. Clean treated fluids gravity flow from the oil/water separator into the clean tank which then allows the coolant to continuously overflow back into the dirty side for further processing (Note: the CL400 processing tank is just 1 compartment). This provides continuous aeration of the coolant and multi-pass filtration. There is no stagnant coolant in the CoolantLoop. Captured tramp oil will gravity drain into a customer provided drum or tote.

The FilterLoop includes a polishing bag filter(s) and an optional rare-earth magnetic separator. The FilterLoop pump is used to supply recycled coolant back into your operations either via a portable transport (totes, drums) or via an overhead distribution piping system.

An ozonator is supplied to inject active oxygen into your contaminated coolant to minimize/kill any biological build-up and its associated odors that were generated while in the CNC sumps.

New coolant is made up into the system as required with a proportionator. A Hydrominder is provided as the standard unit, and a Dosatron as an upgraded option.

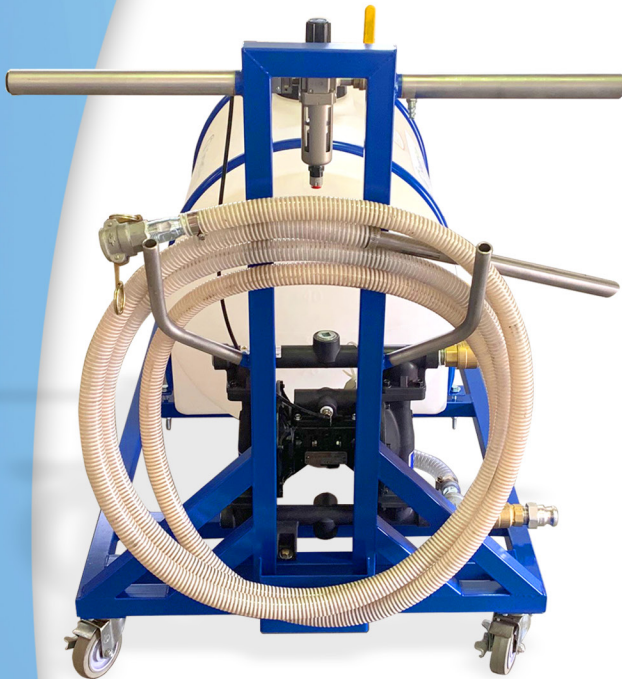


SmartSkim[®] Fluid Management

INTRODUCING THE NEW

SmartSkim Mobile Fluid Dispensing Cart

- Easy to move 65 gallon capacity tank with air-operated pump
- Ideal for daily coolant sump top-offs
- Pumping rate of up to 50 GPM
- Gravity flow of fluid when plant air is not available



Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com



SmartSkim® Sump Caddy

The Portable Sump-Side Coolant Filtration
and Tramp Oil Separator System



Sump Caddy Jr

Before



After



Attributes:

- Portable - Engineered to be easily moved around
- Runs on plant air, no electricity needed
- Made of durable mild steel, not cheap plastic
- Requires minimal maintenance
- In most cases will use less than \$100 per year in consumable filters
- Includes our new Slotted Pipe Suction Skimmer with quick connects (other skimmers available where required)
- Easy to use and understand, no intensive training required
- Incorporates the time proven SmartSkim coalescing technology

Benefits:

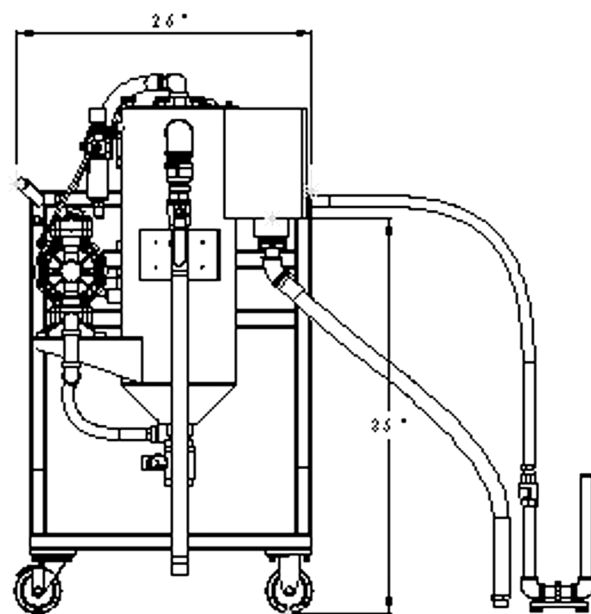
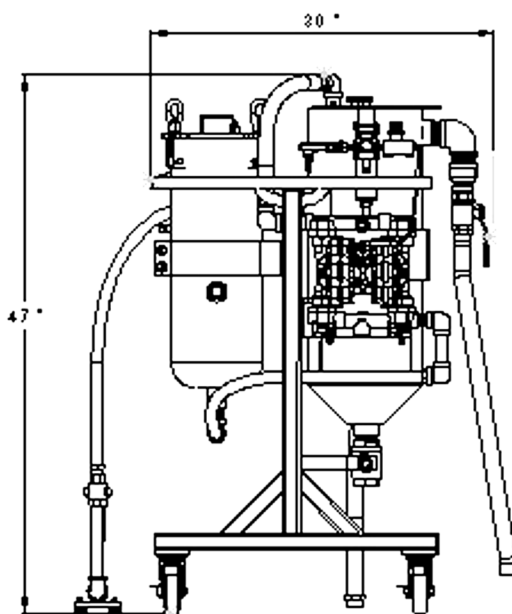
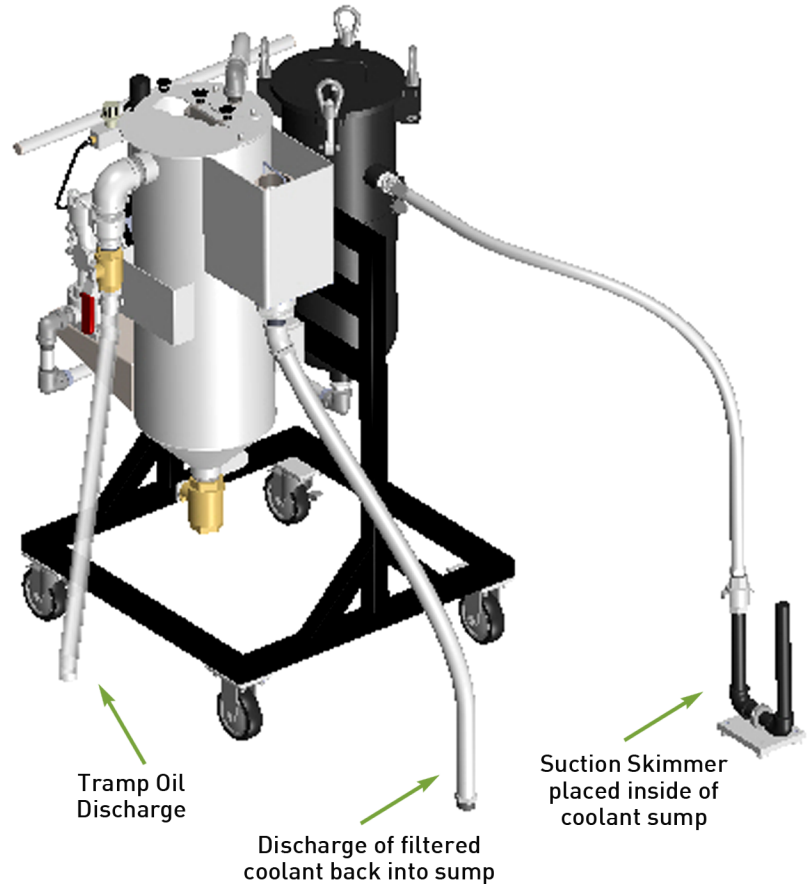
- Extends the life of your expensive machining coolants
- Greatly reduces your costs associated with having dirty coolants hauled off-site
- Removes particulates that can damage your coolant lines and tooling
- Removes tramp oils that are breeding grounds for odorous bacteria
- System can be used as part of a coolant recycling system/sump sucker program
- Improved parts quality due to the elimination of tramp oils and particulates
- Helps keep machine tools cleaner
- Eliminates labor intensive and inefficient skimming processes



Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com

Sump Caddy System includes:

- SmartSkim's patented and proven V1.5 vertical coalescer
- Suction Skimmer – slotted pipe arrangement to handle fluid levels from 4" and higher
- Filter housing for particulate removal with optional rare-earth magnetic separator; also provides protection to pump
- Starter pack of 100 micron and 250 micron filter bags
- Diaphragm pump with poly body and viton internals
- Pneumatics to control pump (air filter regulator, ball valve, needle valve)
- Easy-to-move durable steel cart with industrial rubber caster wheels and stainless steel push handle
- 10' each of both suction and discharge hoses with quick connect for suction skimmer
- Fluid processing rate of up to 3 gallons per minute
- Sumps up to 35" in height can easily be serviced



Other SmartSkim products:

- Centralized Coolant Recycling Systems
- Oil Water Separators
- Floating Suction Skimmers
- High Powered Rare-earth Magnets for Fluid Filtration
- Ozone Generator Systems for Bacteria Control

SmartSkim CF-20 CrossFlow Separator

Tramp Oil Control for Industrial Fluids



The SmartSkim CF-20 CrossFlow Separator is a double plate pack design utilizing the same performance reliability as the standard CrossFlow Separator in operation in metal-working plants around the world. When you need a higher processing rate for tank turnover and/or surface skimming, or require greater oil removal capabilities for larger systems, the CF-20 is built to last. It is designed as a simple, trouble-free solution for removing free floating and mechanically dispersed tramp oils from large wash tanks, individual machine coolant sumps, central coolant systems, and many other manufacturing process fluids.

Based on gravity flow and coalescence, the CF-20 Separator can reduce tramp oils to less than 1% in a single pass. The SmartSkim “non-clogging” design allows for the separation of oils and settling of solids in one step. Applications include water soluble, semi-synthetic & synthetic coolants from machining and grinding, rolling and drawing coolants, alkaline and acidic washwaters, stamping fluids, wastewater pre-treatment, aqueous quench pits, die casting mold release fluids, and any application where separation of two immiscible fluids is required.

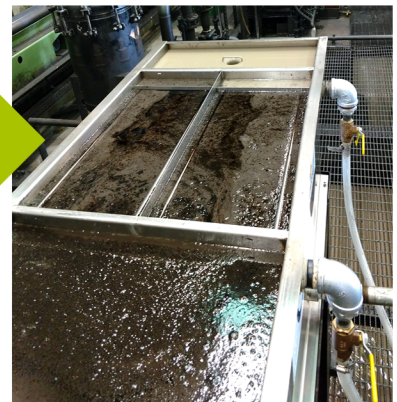
Attributes:

- Open Channel coalescing technology is low maintenance. Frequency of cleaning is a fraction of what is required with competitive tortuous path plastic media coalescers
- Non plugging design means no worries about overflowing of the unit and spills
- Robust and industrial grade for a lifetime of use
- Sloped bottom for easy removal of solids and sludge
- Quick system payback
- Automated system for continuous operation
- Can be supplied with SmartSkim’s industry leading floating suction skimmers — all stainless steel design and no hoses that kink, harden or collapse.
- 304 stainless steel platepack is a lifetime purchase and easy to clean. No need to ever replace
- Gentle flow through the system won’t split weak emulsions or remove additives. Can be used with virtually any coolant or cleaner
- System can handle temperatures up to 250 degrees and flow rates up to 20 gpm based on chemistry

Benefits:

- Reduce new fluid purchases by extending the life of your industrial fluids
- Reduce waste volumes by 50% - 90%
- Extend the bath life of parts washers & conserve water
- Improve sump life, tooling, and parts quality in CNC operation
- Reduce misting & improve machine cleanliness
- Manage environmental waste, bacteria levels, and associated odors
- Remove oils prior to subsequent waste processing operations such as evaporation, waste water treatment, and sewer disposal
- Minimize tramp oil levels in large central coolant systems

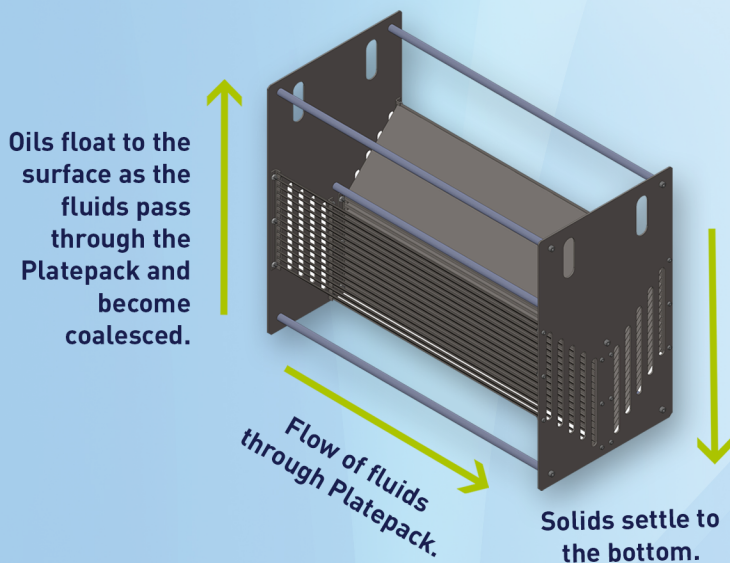
Top view of
CF-20 in
operation



Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com

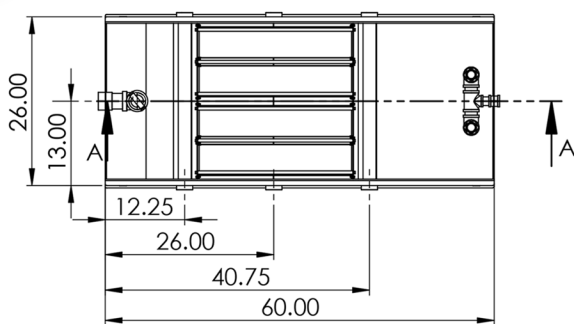
Our multi-patented SmartSkim Suction skimmer is mounted in your tank and continuously removes the topmost oily layer. Skimmed oily fluids are pumped through the separator where floating contaminants are separated. Clean fluids return by gravity to the source tank. Inside the SmartSkim CF-20, there is no plastic coalescer media, filters, or consumables of any kind.

Our proprietary open channel platepack system separates and removes floating oils and solids by gravity only. This makes maintenance fast and easy. Open channels do not plug. SmartSkim systems just run and run. Oil that is captured inside the separator gravity drains to an oil collection drum. This oil is typically dry enough to sell or recycle. No electrical panels or hook ups are necessary. Just plug and play!

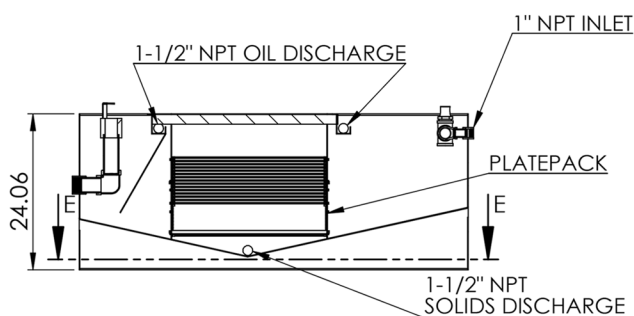


CF-20 Footprint

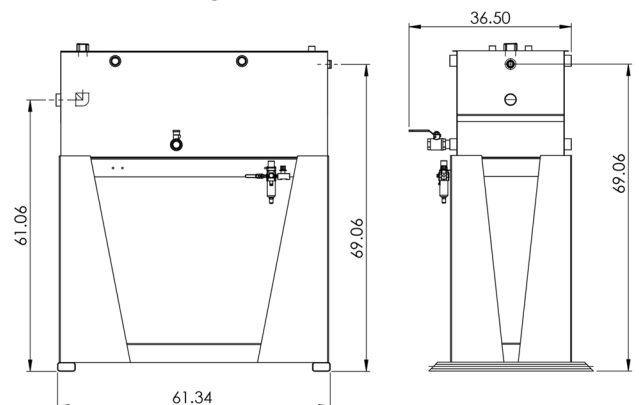
The CF-20 Separator takes up very little floor space. The unit measures 60" long x 28" wide x 28" tall. In most instances the separator can be attached to existing parts washers or other structures. We sell an optional stand that provides for ease of installation. Due to the nature of the gravity discharge, our separator needs to be installed with the outlet port above the level of the fluid that it is cleaning.



Top view



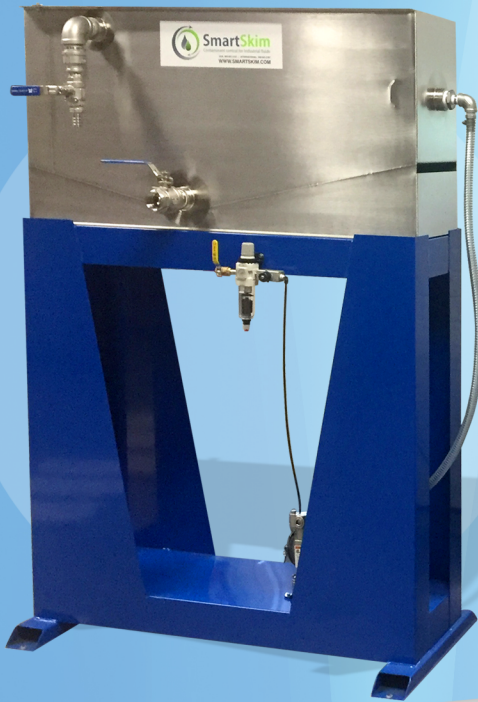
Side view



Dimensions with Optional Stand

SmartSkim CrossFlow Separator

Tramp Oil Control for Industrial Fluids



The SmartSkim CrossFlow System sets the industry standard for skimming and separating floating oils and solids from industrial fluids. It is designed as a simple, trouble-free solution for removing free floating and mechanically dispersed tramp oils from wash tanks, individual machine coolant sumps, central coolant systems, and many other manufacturing process fluids.

Based on gravity flow and coalescence, the CrossFlow Separator can reduce tramp oils to less than 1% in a single pass. The SmartSkim “non-clogging” design allows for the separation of oils and settling of solids in one step.

Applications include water soluble, semi-synthetic & synthetic coolants from machining and grinding, rolling and drawing coolants, alkaline and acidic washwaters, stamping fluids, wastewater pre-treatment, aqueous quench pits, die casting mold release fluids, and any application where separation of two immiscible fluids is required.

Attributes:

- Open Channel coalescing technology is low maintenance. Frequency of cleaning is a fraction of what is required with competitive tortuous path plastic media coalescers
- Non plugging design means no worries about overflowing of the unit and spills
- Robust and industrial grade for a lifetime of use
- Sloped bottom for easy removal of solids and sludge
- Quick system payback
- Automated system for continuous operation
- Can be supplied with SmartSkim's industry leading floating suction skimmers — all stainless steel design and no hoses that kink, harden or collapse.
- 304 stainless steel platepack is a lifetime purchase and easy to clean. No need to ever replace
- Gentle flow through the system won't split weak emulsions or remove additives. Can be used with virtually any coolant or cleaner
- System can handle temperatures up to 250 degrees and flow rates up to 10 gpm based on chemistry

Benefits:

- Reduce new fluid purchases by extending the life of your industrial fluids
- Reduce waste volumes by 50% - 90%
- Extend the bath life of parts washers & conserve water
- Improve sump life, tooling, and parts quality in CNC operation
- Reduce misting & improve machine cleanliness
- Manage environmental waste, bacteria levels, and associated odors
- Remove oils prior to subsequent waste processing operations such as evaporation, waste water treatment, and sewer disposal

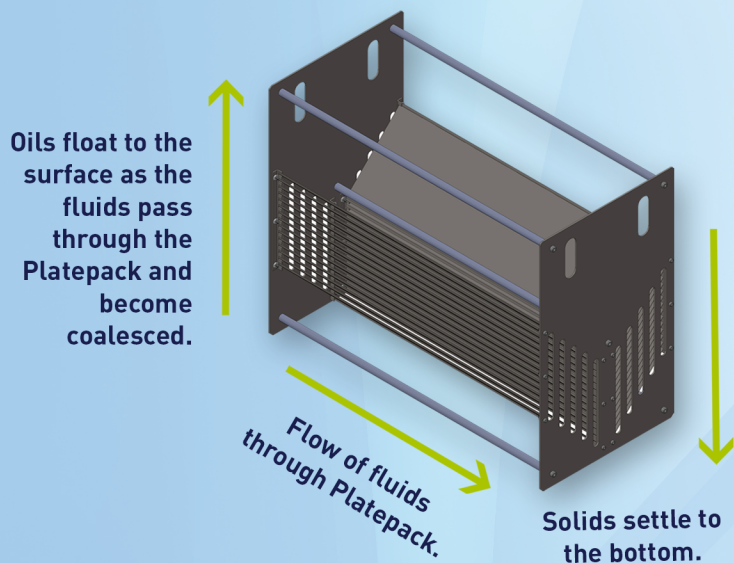
Top view of separator



Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com

Our multi-patented SmartSkim Suction skimmer is mounted in your tank and continuously removes the topmost oily layer. Skimmed oily fluids are pumped through the separator where floating contaminants are separated. Clean fluids return by gravity to the source tank. Inside the SmartSkim CrossFlow, there is no plastic coalescer media, filters, or consumables of any kind.

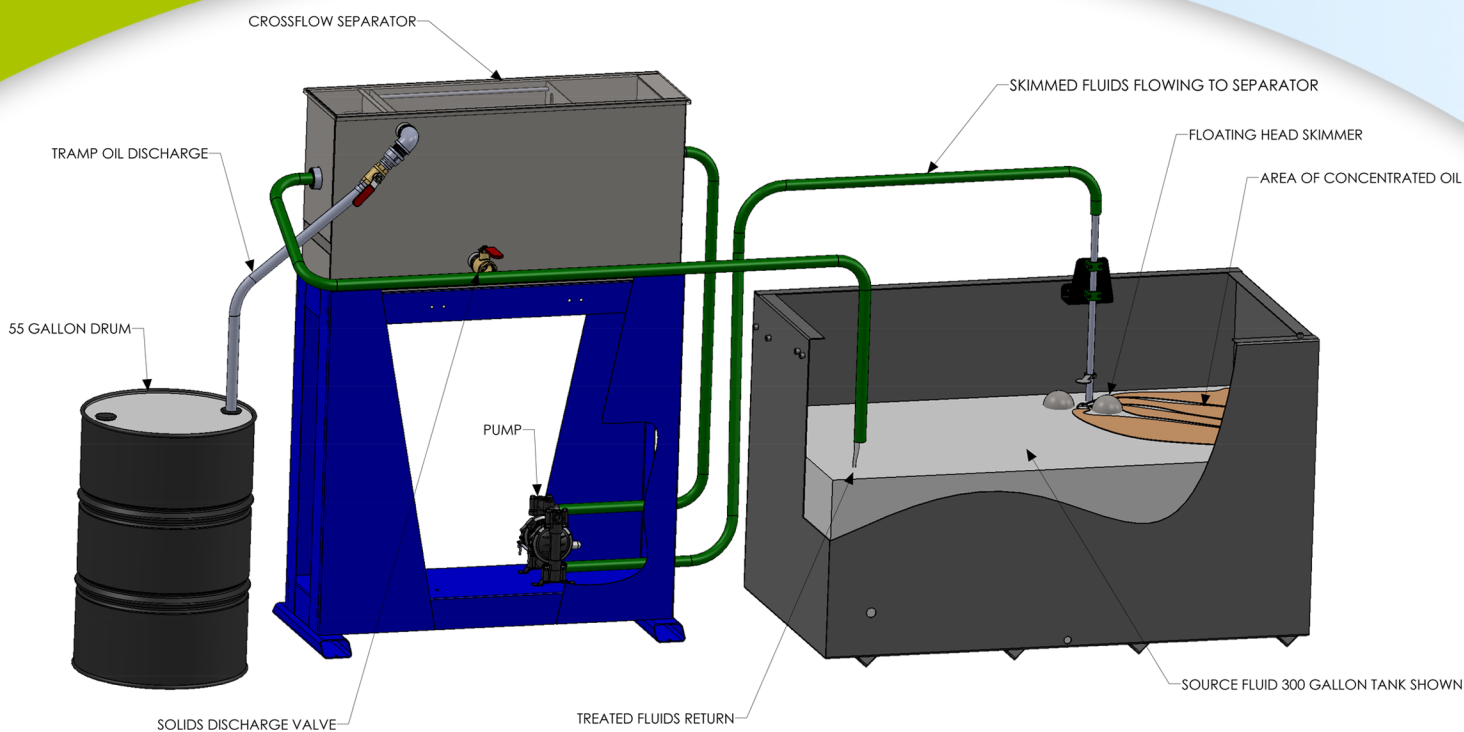
Our proprietary open channel platepack system separates and removes floating oils and solids by gravity only. This makes maintenance fast and easy. Open channels do not plug. SmartSkim systems just run and run. Oil that is captured inside the separator gravity drains to an oil collection drum. This oil is typically dry enough to sell or recycle. No electrical panels or hook ups are necessary. Just plug and play!



CrossFlow Footprint

The CrossFlow Separator takes up very little floor space. The unit measures 48" wide x 14" deep x 24" tall. In most instances the separator can be attached to existing parts washers or other structures. We sell an optional stand that provides for ease of installation. Due to the nature of the gravity discharge, our separator needs to be installed with the outlet port above the level of the fluid that it is cleaning.

The standard suction skimmer that is included with our systems requires an area of 12" x 12" x 18" deep within the source tank where it will be installed. Other suction skimmers are available to deal with restricted space constraints, shallow fluid levels and large fluid level fluctuations.

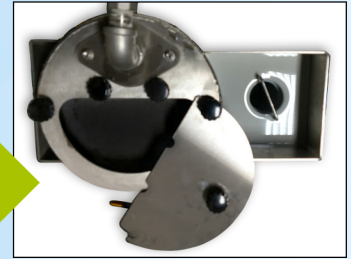


CrossFlow Separator Process Flow

SmartSkim V Series Separator System

V1.5 Separator

SmartSkim V Series Vertical Separator Systems set the industry standard for skimming and separating floating oil and solids from industrial fluids. It is designed as a simple, trouble-free solution for removing free floating and mechanically dispersed tramp oils from wash tanks, individual machine coolant sumps and many other manufacturing process fluids. Based on gravity flow and coalescence, the V Series Separator can reduce tramp oils to less than 1% in a single pass.



Top view of SmartSkim V Series

The SmartSkim “non-clogging” design allows for the separation of oils and settling of solids in one step. Applications include water soluble, semi-synthetic & synthetic coolants from machining and grinding, alkaline washwaters, stamping fluids, wastewater pre-treatment, aqueous quench pits, die casting mold release fluids, and any application where separation of two immiscible fluids is required.

V3 Separator

Setting the Industry Standard

Attributes:

- Open Channel coalescing technology is low maintenance and non plugging. Frequency of cleaning is a fraction of what is required with competitive tortuous path plastic media coalescers
- The V Series System is manufactured of stainless steel. It's robust and industrial grade for a lifetime of use
- Cone bottom for easy removal of solids and sludge
- Quick system payback
- Automated system for continuous operation
- World's best floating suction skimmer is included - all stainless steel design and no hoses that kink, harden or collapse. Easily set and minimal adjustments

Benefits:

- Reduce new fluid purchase costs up to 75% by extending the life of those fluids
- Reduce waste volumes by 50% - 90%
- Reduce cost of wash water detergent, heating & disposal costs
- Use as pre-treatment for other devices like evaporators
- Consistently cleaner parts
- Improve sump life, tooling, and parts quality
- Reduce misting and smoke, machine cleanliness, environmental waste disposal, bacteria levels and their associated odors.
- Separated tramp oils can be sold or recycled



Sentry Equipment Corp.

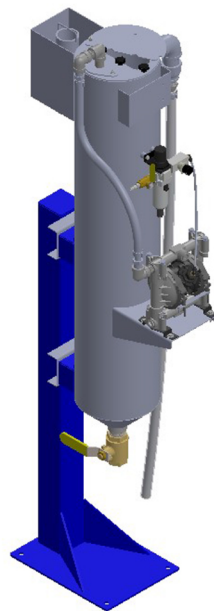
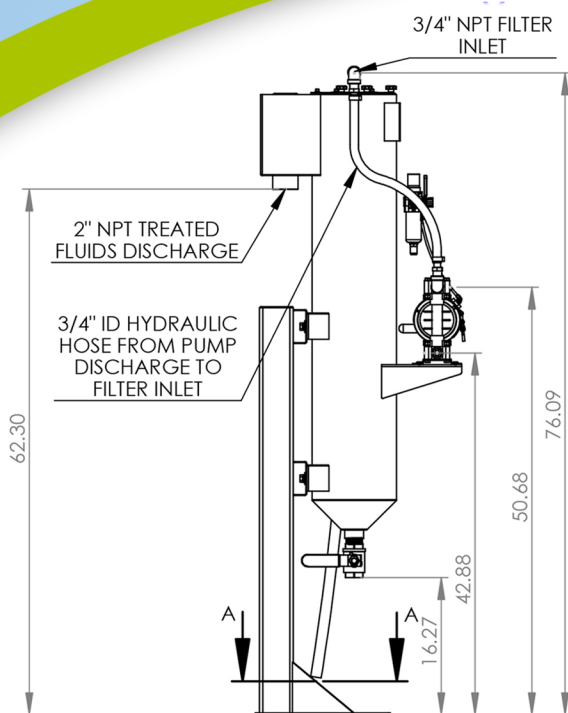
262-567-7256

sales@sentry-equip.com

www.smartskim.com

Our multi-patented SmartSkim suction skimmer is mounted in your tank and continuously removes the topmost oily layer. Skimmed oily fluids are pumped through the separator where floating contaminants are separated. Clean fluids return by gravity to the source tank.

Inside the SmartSkim V Series Separator, there are no plastic coalescer media, filters, or consumables of any kind. Our proprietary open channel system separates and removes floating oils and solids by gravity only. This makes maintenance fast and easy. Open channels do not plug.



SmartSkim systems just run and run. Oil that is captured inside the separator gravity drains automatically to a capture drum. This oil is typically dry enough to sell or recycle. No electrical panels or hook ups are normally necessary.

The V Series System is entirely pneumatic. It runs on plant air, typically using just 1-3 CFM. Just plug and play!

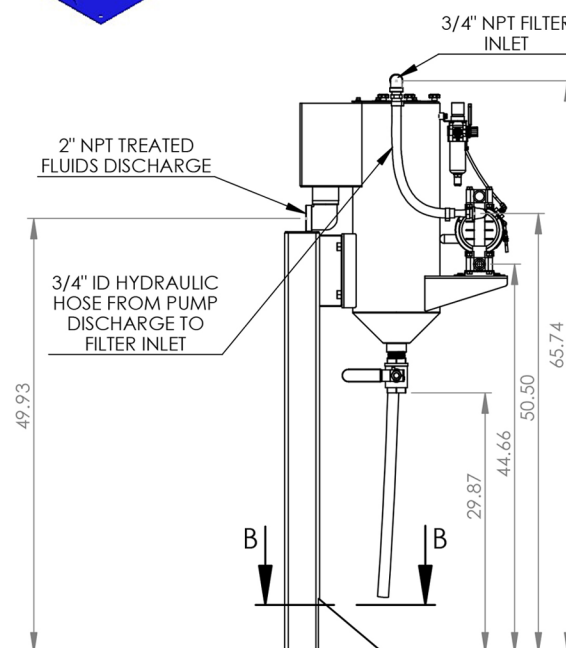
V3 Separator Drawing & Illustration



Pedestal Mounting Stand with pre-drilled holes for ease of installation to plant floor



Our suction skimmer at work



V1.5 Separator Drawing & Illustration

SmartSkim J-Tube Skimmers

Setting the industry standard

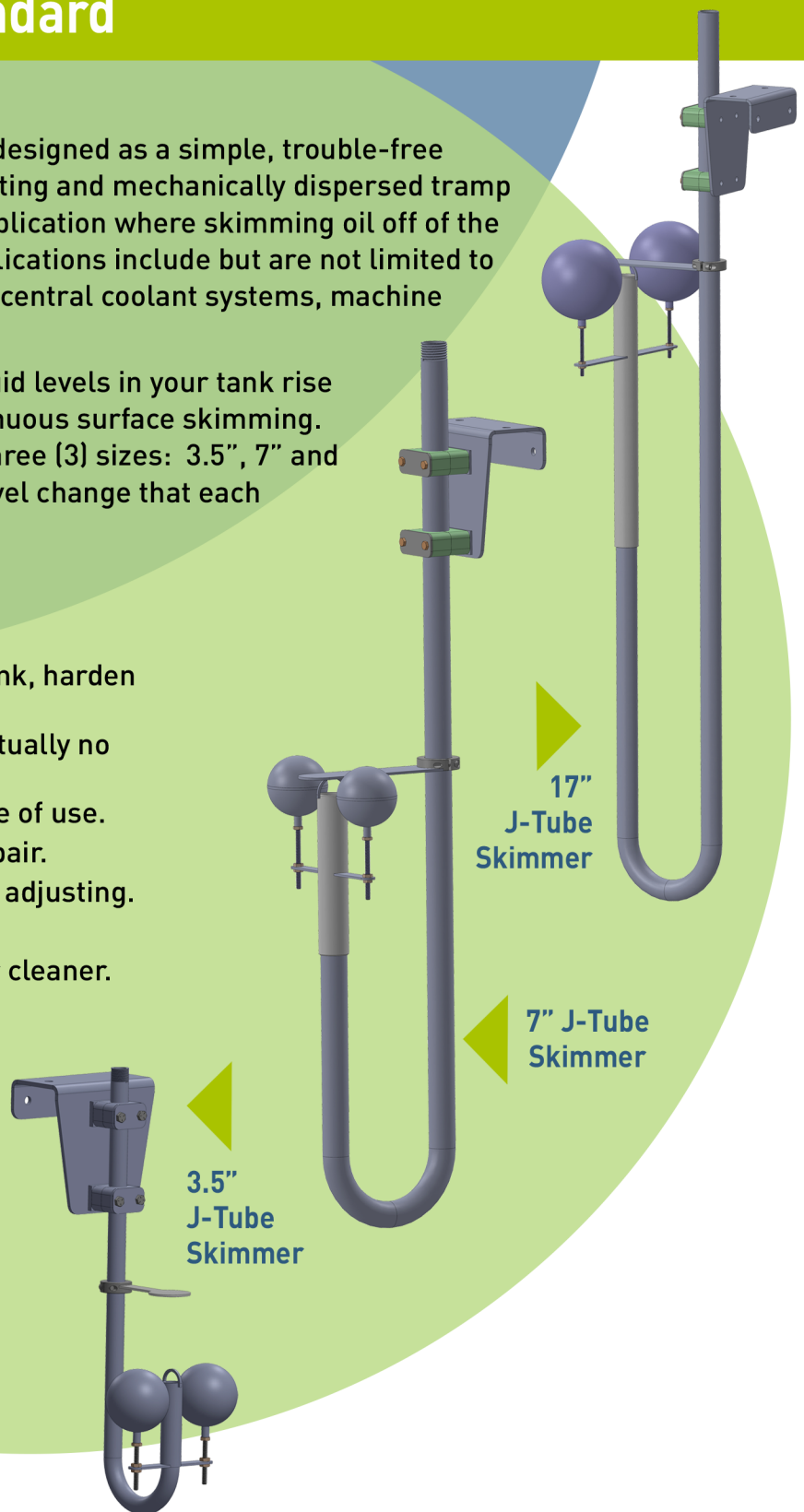
Benefits:

Our Suction Skimmers are designed as a simple, trouble-free solutions for removing free floating and mechanically dispersed tramp oils. The skimmers work in any application where skimming oil off of the top surface of a fluid is required. Applications include but are not limited to wash tanks, individual machine sumps, central coolant systems, machine pits, and wastewater treatment tanks.

Our suction skimmers change position as fluid levels in your tank rise and fall, assuring you of consistent and continuous surface skimming. The J-Tube Skimmer product line comes in three (3) sizes: 3.5", 7" and 17". The sizes indicate the maximum fluid level change that each skimmer can accommodate.

Attributes:

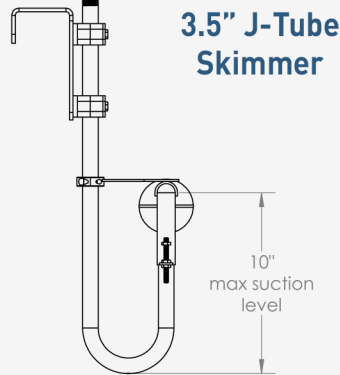
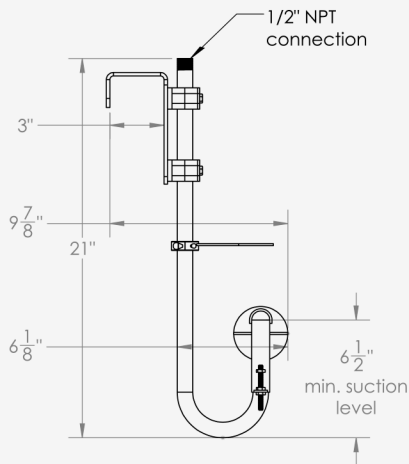
- Durable stainless steel construction.
- J-Tube design requires no hoses that kink, harden or collapse.
- Easily set with minimal adjustments. Virtually no maintenance.
- Robust and industrial grade for a lifetime of use.
- There are no belts, disks or drums to repair.
- There are no ballasts that need filling or adjusting.
- Designed for continuous operation.
- Can be used with virtually any coolant or cleaner.



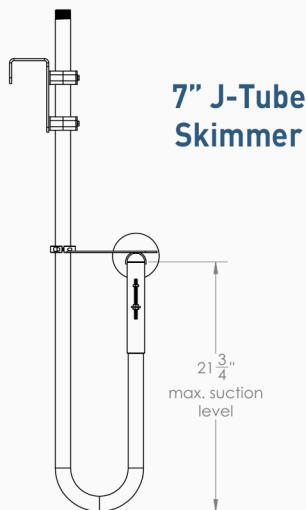
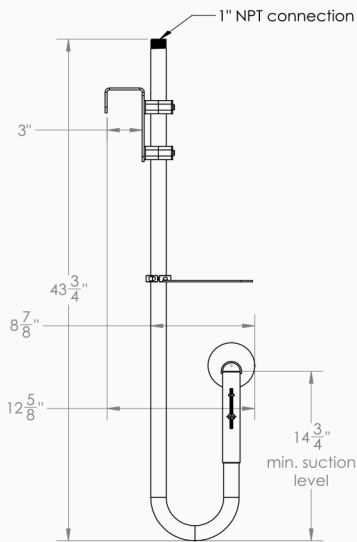
Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com

SmartSkim® Suction Skimmer is the industry standard.

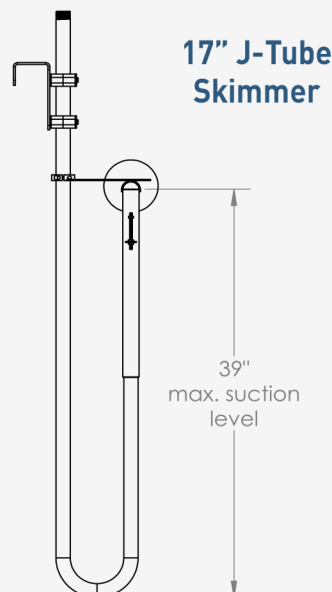
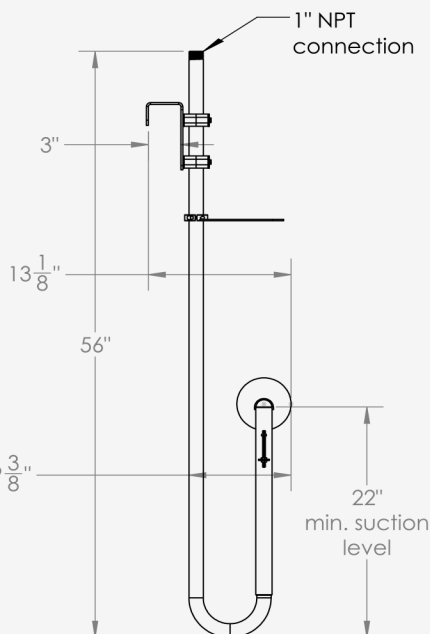
Our multi-patented SmartSkim® Suction Skimmer is mounted in your process tank and continuously removes the topmost oily layer. Skimmed oily fluids are typically pumped through an oil water separator where floating contaminants are separated.



3.5" J-Tube Skimmer



7" J-Tube Skimmer



17" J-Tube Skimmer

Simply connect the SmartSkim® Suction Skimmer to the suction side of a transfer pump and you're skimming. We recommend low shear pumps for this service such as air operated diaphragm (AOD) pumps or progressive cavity pumps. Connection kits are available to aid in the installation of skimmers to pumps.

Our universal mounting bracket is designed to easily mount the skimmer to the top edge or to the inside wall of your tank.

A stopper is included to keep the floating sleeve attached during high fluid level conditions.



www.smartskim.com

SmartSkim Tri-Float Skimmers

for Larger Industrial Fluid Control Applications



Mega Tri-Float Skimmer



Mini Tri-Float Skimmer

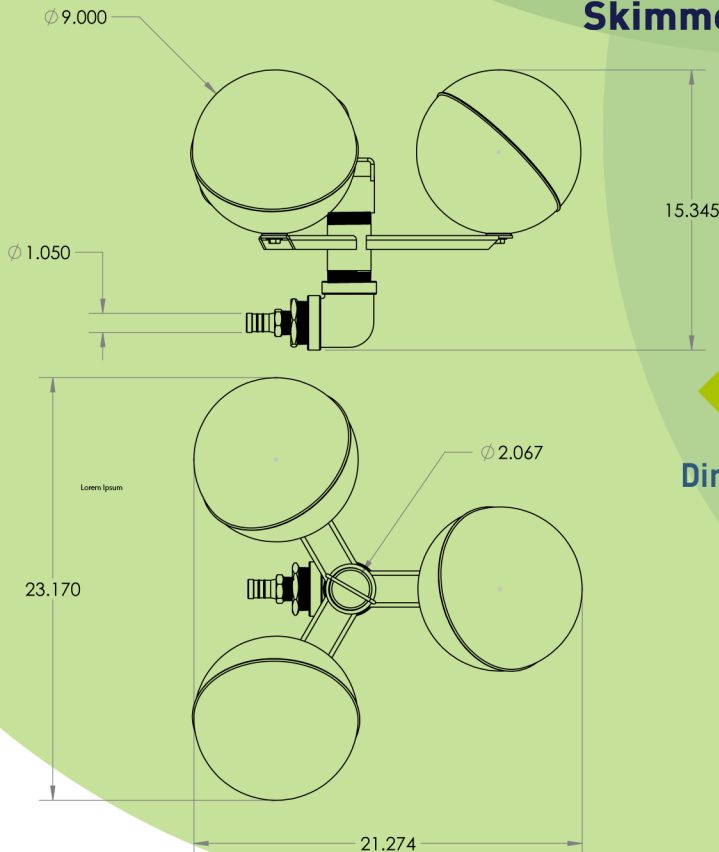
Applications:

- Manufacturing facilities
 - Oily waste sumps & pits
 - Central coolant tanks
 - Large washing tanks
- Waste water treatment & sewage plants
 - Storage tanks
 - Equalization tanks
- Petrochemical processing storage tanks
- Airports & railway depots
- Sheltered harbors & docks, ponds, lakes

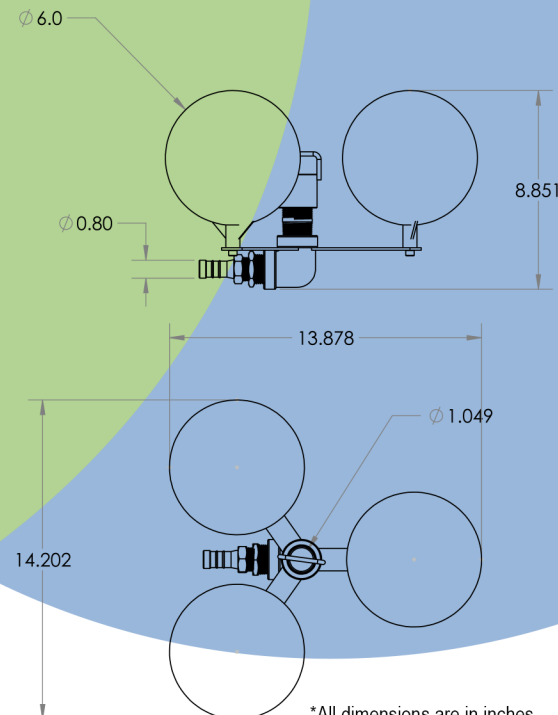
Attributes:

- 304SS Tri-Float design has an adjustable inlet weir for fine or deep skimming
- Designed for ease of lifting to perform adjustments or maintenance
- Wide range of fluid levels can be skimmed

Model	Inlet	Outlet	Hose Length	Float Sizes	Construction
Mini	1"	3/4"	10'	6"	304SS
Mega	2"	1"	20'	9"	304SS



Mega Dimensions



Mini Dimensions

*All dimensions are in inches

SmartSkim Swarf Monster

Applications

The SmartSkim Swarf Monster can be used for the removal of ferrous and non-ferrous fines as well as non-metallic particulates from industrial fluids.

Applications include the following:

- Cutting oils
- Hydraulic oils
- Cold heading lubricants
- Press/stamping lubricants
- Quench oils
- Water soluble coolants
- Pressure testing fluids
- Rust preventative fluids
- Parts washer fluids
- Aqueous quenchants

Attributes

- ▶ Filtration levels from sub-micron to 400 micron
- ▶ System supplied with a 1" air-operated diaphragm pump (AOD) with a maximum processing rate of 50 gpm.
- ▶ System supplied with two (2) industry standard size #2 bag filter housings
- ▶ For ferrous applications, our SmartSkim MagSleeve or MagPost rare-earth magnetic separators can be inserted into one or both of the bag filter housings
- ▶ System includes fluid suction hose with bulb strainer and discharge hose
- ▶ All equipment installed on an easy-to-move durable steel cart

Benefits

- Extend fluid life
- Improve parts quality
- Increase tool and die life
- Minimize pump and servo valve maintenance
- Reduce tool breakage due to plugged lines and spindles from fines/particulates
- Reduce the opportunity for bacteria growth
- Improve reliability of manufacturing equipment
- Minimize nozzle maintenance in washer headers and coolant lines



Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com



Ozone Generator System

A natural choice as a bacteria & odor control



Complete Set

Ozone
Dispersion
Tube



Dispersion
Stone

Why Ozone Generator?

Ozone is a natural choice as a bacteria and odor control system for managing all types and brands of metal working fluids. Ozone gas sometimes called active oxygen or O_3 is generated within the cabinet and is fed into the fluid through a tube connected to a dispersion element placed near the bottom of the sump / tank.

As the ozone gas is dispersed through the fluid, the ozone instantly kills all forms of bacteria, fungus, yeast and mold on contact and then reverts to its original form: oxygen. The ozone generated does not alter the fluid in any way and does not harm the operators.

Valve &
Bracket



Benefits:

- Safe for use with all types of coolants
- Very low cost of operation - pennies per day
- Improve your plant's environmental performance
- No biocide chemicals to buy or mix. Does not cause dermatitis
- Improve health and safety of your coolants
- Keeping your coolants clean and healthy greatly reduces the cost of treatment and disposal
- Does not harm equipment, operators or coolants

Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com

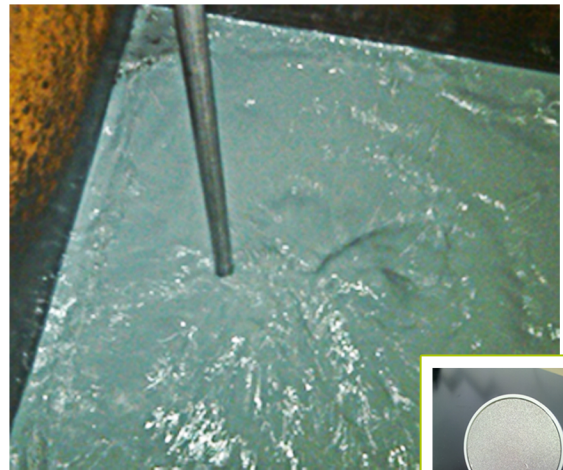


For decades coolant rancidity, “monday morning stink”, the hydrogen sulfate odor (rotten egg) has been a common cause of coolant failure and subsequent “pumping and dumping” of coolant tanks. This results in unnecessary costs for disposal and new coolant replacement.

The Ozonator is a safe and economical way to provide consistent bacteria and odor control for individual coolant sumps, recycling systems, parts washers, and other process tanks such as wastewater tanks and pits.



**Ozone Generator retrofitted to
CNC Machine**



**Ozone injected into
fluids with special porous
Stainless Steel Dispersion Stone**



**Ozone Generator on SmartSkim
Coolant Recycling System**

Specifications

- Corona Discharge (CD) ozone generator
- Electrical: 120VAC 60Hz 0.2A, 220VAC 50Hz 0.1A
- Dimensions: 5.875" H x 5.375" W x 2" D, 2 lbs.
- Ozone Output: 0.3 g/h @ 6 SCFH
- Very low cost of operation - pennies per day
- Improve health and safety of your coolants

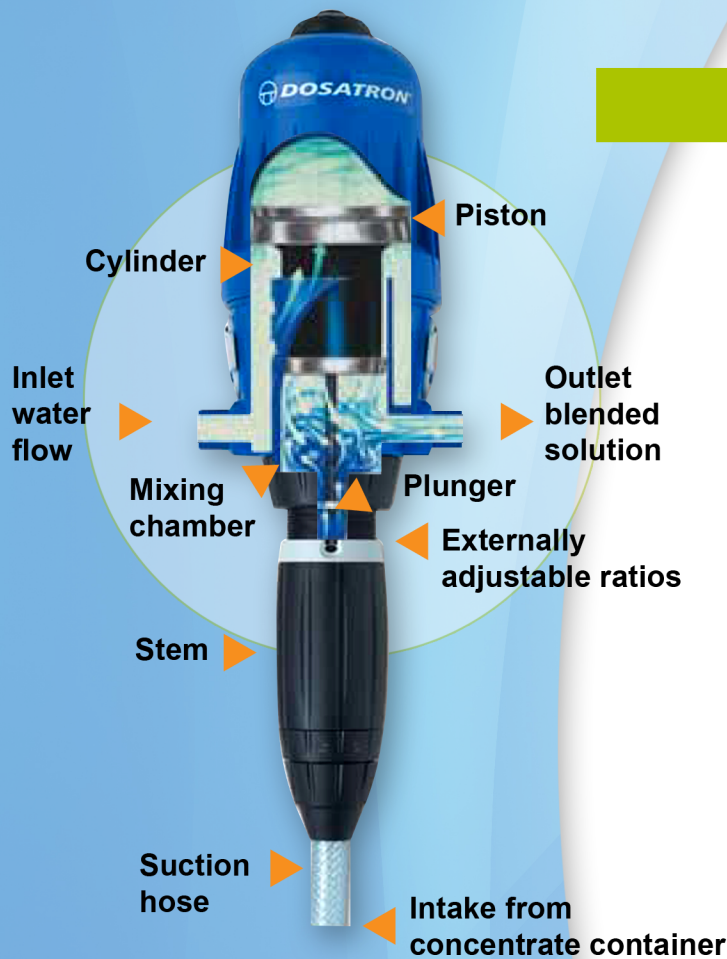
Included with each Ozonator is a stainless steel dispersion stone. This porous high tech stainless steel dispersion stone creates extremely small, high velocity turbulent bubbles for rapid ozone mass transfer. Superior construction provides long life and easy cleaning without deterioration.

Also included with air flow control needle valve, air filter regulator with gauge, solid aluminum bracket with magnetic cups for ease of installation. Optional dispersion tube can be purchased.

Metal Working Make-Up Systems

Dosatron Chemical Dispenser

Features and Benefits

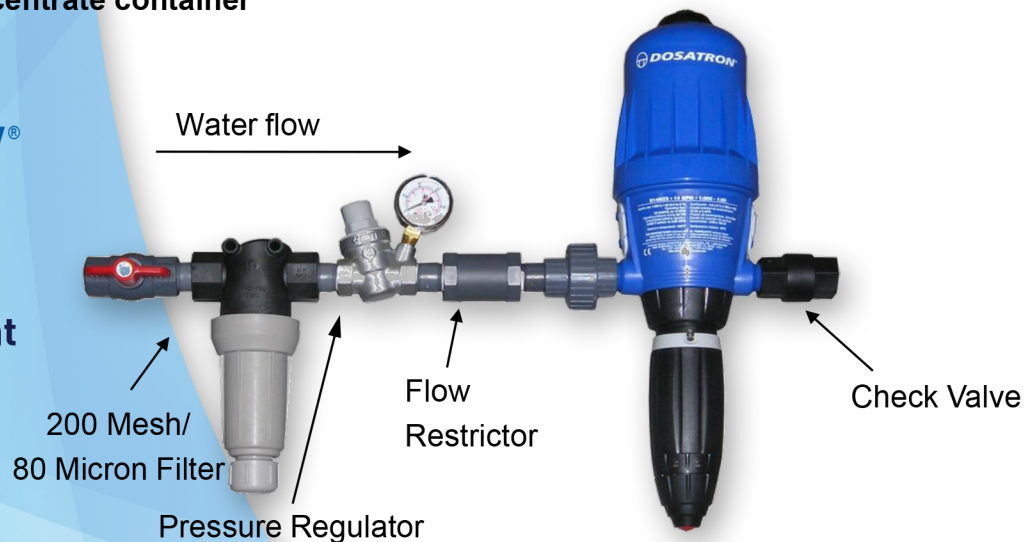


Dosatron chemical dispensers are precision metering devices that are hydro-powered with no electricity needed. They compensate for flow and pressure changes, providing consistent, repeatable results. Dosatrons are simple to use and easy to adjust allowing for flexible dosage rates. They are easy to maintain, saving you time and effort. Various models are available based on flow rate and concentration range required.

- Ideal for overhead centralized coolant distribution systems
- No electricity required, hydro-powered
- Units operate on positive displacement principle
- Concentrate is directly proportional to the volume of water
- Homogenous mixing occurs inside the unit
- Force of water pushes the blended solution downstream



Dosatron's Coolant Mixing System is the Answer to Your Coolant Management Needs

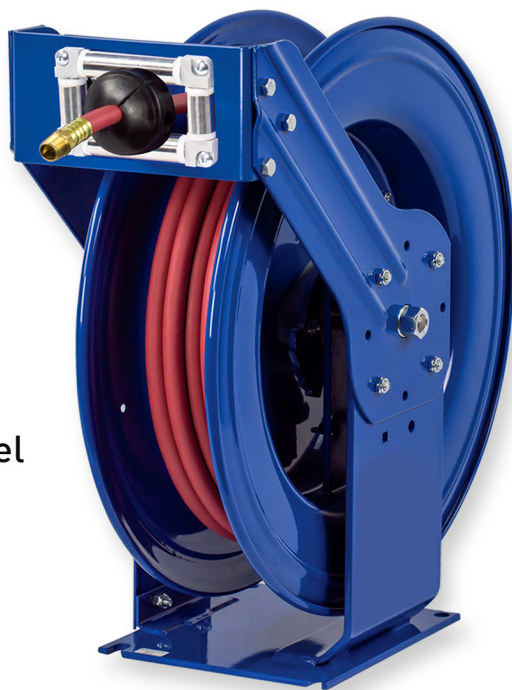


Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com



SmartSkim Hose Reel Assembly

Dual pedestal, low pressure, spring driven, retractable, hose reel assembly with high quality hose, inlet connection hose kit, and gas type nozzle dispenser.



Hose Reel



Dispenser



Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com

Professional Grade Heavy Duty Steel
Construction with Powder Coated Finish

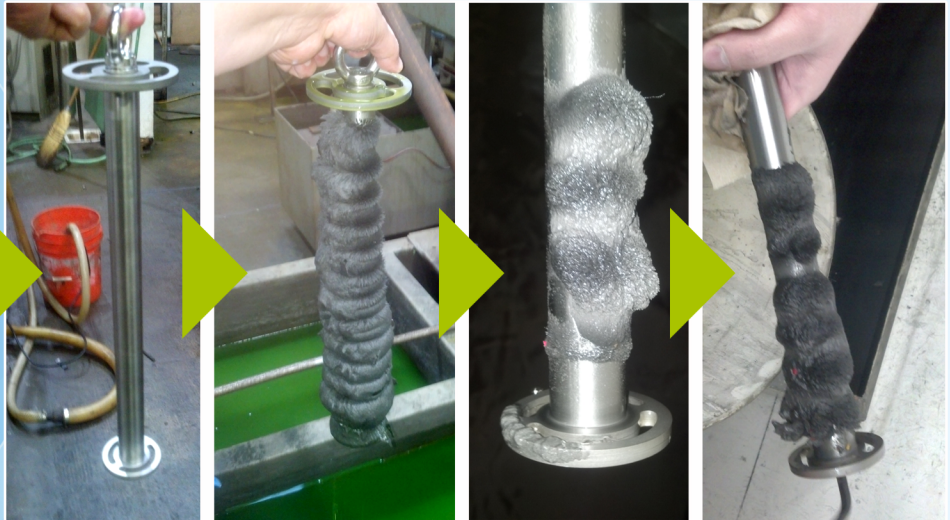


Part #	Description	I.D.	O.D.	PSI	Wt (lbs)
1498	3/4" x 75' Hose Reel	3/4"	1-1/16"	300	93

SmartSkim® MagSleeve

Magnetic Filtration for Bag Filter Housings

The SmartSkim® MagSleeve is High Powered Rare-Earth Magnets for Fluid Filtration.



Metal Particles Builtup
on MagSleeve

Cleaning of the
MagSleeve

Applications:

- Integrate into existing bag filter housings
- Filter ferrous fines caused by machining, honing, boring, grinding, broaching, roll forming, pipe & tube, heat treating and other operations
- Use as a pre-filter to fine filtration methods
- Upgrade your existing coolant recycling system
- Enhance parts washing tanks
- Remove on-going rust issues from aging tanks
- High Pressure through-the-tool coolants

Attributes:

- 304 Stainless steel magnetic cage that allows magnet to be easily inserted and removed from housings
- High powered rare-earth magnet (10,000 Gauss)

Benefits:

- Extend tooling life
- Improve coolant quality
- Reduce the number of consumables in your facility
- Waste captured on magnets can be recycled or easily disposed of

Available Dimensions

	MagSleeve	Diameter	Height
Size	#1	3.5"	19"
Size	#2	3.5"	27"
Size	#4	3.5"	15"



Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com

SmartSkim MagGrids and Rods

High Powered Magnets for Fluid Filtration

Grids are available in several different arrangements.



MagGrid with Sleeves

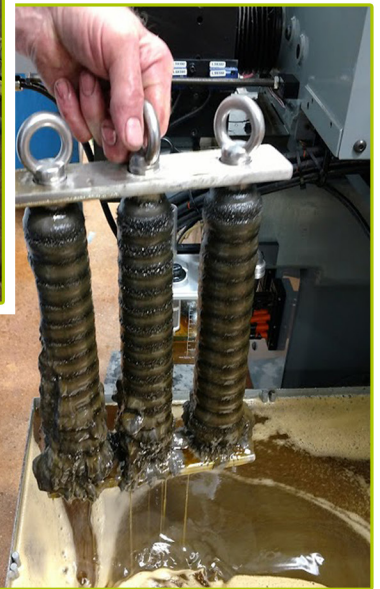


MagGrid without Sleeves

Rare Earth Magnetic Rods and Grids are available in many different arrangements and sizes.

Rods are typically 1" or 1.5" diameter, with 10,000 gauss rated neodymium iron boron rare earth magnets that are encased in 304 stainless steel.

MagGrids



Rods

Rods are normally in stock in lengths of 8", 12", 16" & 24", and come with two threaded ends.

Applications include extending fluid/tool life, enhancing fluid/parts quality & protecting pumps in:

- Machine tools
- Washers and paint lines
- Screw machine oil sumps
- Hydraulic systems
- Cold headers
- Other industrial fluid systems

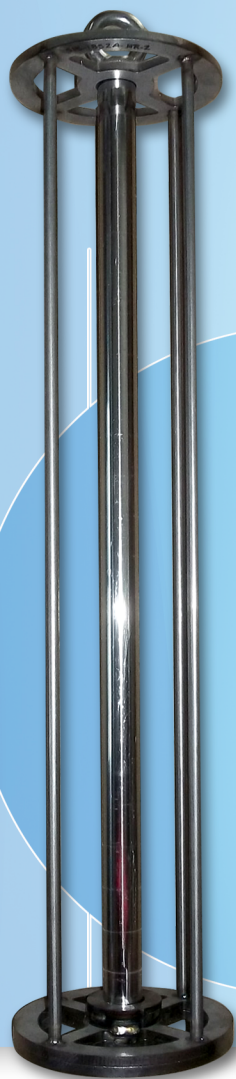
Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com



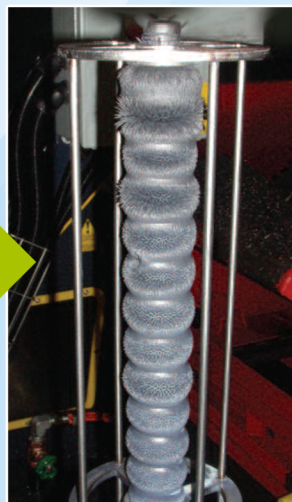
SmartSkim® MagPost

Magnetic Filtration for Bag Filter Housings

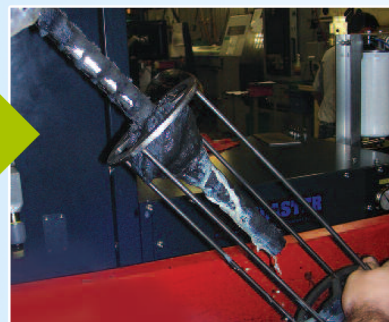
The SmartSkim® MagPost is High Powered Rare-Earth Magnets for Fluid Filtration.



MagPost can be installed inside your existing filter housings.



Metal Particles Builtup on MagPost



Cleaning of the MagPost

Applications:

- Integrate into existing bag filter housings
- Filter ferrous fines caused by machining, honing, boring, grinding, broaching, roll forming, pipe & tube, heat treating and other operations
- Use as a pre-filter to fine filtration methods
- Upgrade your existing coolant recycling system
- Enhance parts washing tanks
- Remove on-going rust issues from aging tanks
- High Pressure through-the-tool coolants

Attributes:

- 304 Stainless steel magnetic cage that allows magnet to be easily inserted and removed from housings
- Stainless steel cage allows magnetic post to remain centered inside housing and also serves as a scraping mechanism
- High powered rare-earth magnet (10,000 Gauss)
- Lifting ring for ease of installation and cleaning
- Assemblies for Size #1, #2 or #12 filter housings
- Standard model handles fluid temperatures up to 176 F (80 C)
- Other models available for high temperature applications

Benefits:

- Extend tooling life
- Extend bag filter life
- Improve coolant quality
- Improve quality of quench and parts washer fluids
- Reduce the number of consumables in your facility
- Waste captured on magnets can be recycled or easily disposed of
- Increase filtration capacity and efficiency
- Remove sub micron sized particles
- Reduce frequency of filter housing maintenance
- Increase washer bath life
- Protect high pressure pumps





Available Dimensions

	MagPost	Diameter	Height
Size	#1	5.5"	19"
Size	#2 or #12	5.5"	27"



The SmartSkim® MagPost is High Powered Rare-Earth Magnets for Fluid Filtration.



PATENTED

Micromag

Compact magnetic filter for standard machine filtration, smaller wash stations.

- Patented design
- High collection capacity relative to size
- Non block design
- Minimal pressure drop
- Easy clean
- 3 sizes, versions available

Unmatched capacity

Micromag is compact in size but has massive holding capacity. Units hold 2.2lbs, 4.4lbs and 8.8lbs of contamination respectively, resulting in less downtime and increased productivity.



MM5 /1.0

MM

174 psi version



MM5/HP/50 NPT

MM20/HP/50 NPT

MM10/HP/50 NPT

MM/HP/50

725 psi version



MM5/HP/80 NPT

MM20/HP/80 NPT

MM10/HP/80 NPT

MM/HP/80

1160 psi version



SmartSkim
A SENTRY EQUIPMENT PRODUCT

Sentry Equipment Corp.
262-567-7256

sales@sentry-equip.com
www.smartskim.com



How Micromag works

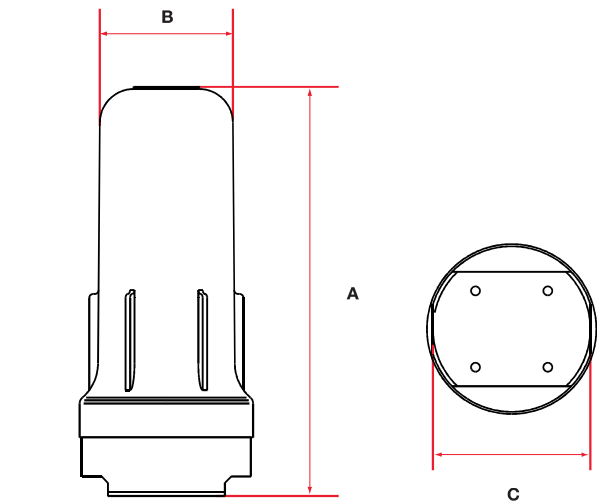
Contaminated fluid enters the inlet port where flow is equally split via tapered radial flow channels which slows the flow velocity ready for the fluid to be filtered.

It then passes up the outside of the centrally mounted 'rare earth' magnetic core where contamination particles are attracted and retained.

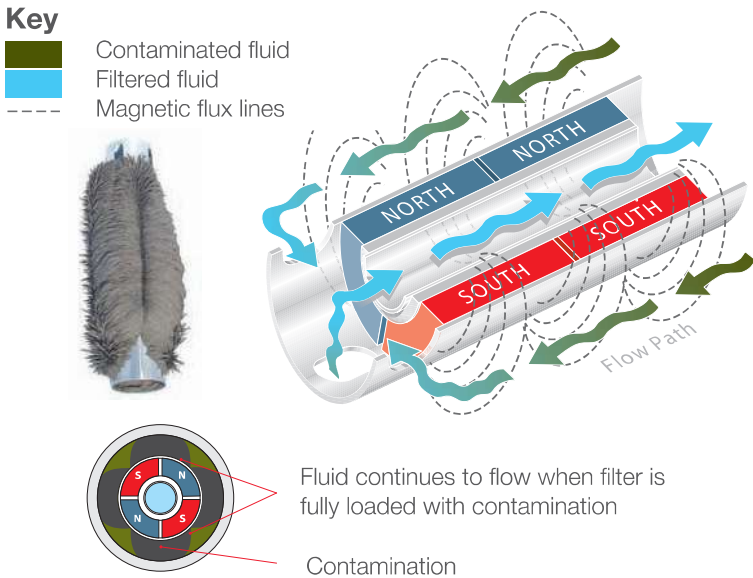
The magnetic flux circuit geometry ensures a controlled build up of contamination so the filter can never block.

Filtered fluid then flows through slots at the top of the core then down and through the centre of the core, exiting through the outlet port.

Technical Data



Product number	Flow rate Gallons	Contamination capacity lbs	Max. operating pressure psi	Connection NPT "	Temperature range F	Construction	Dimensions inches		
							A	B	C
MM5 /1.0	18	2.2	174	1	41-122	SAN housing, aluminum lid	7.5	3.7	4.1
MM10 /1.0	26	4.4	174	1	41-122		12.4	4.0	4.9
MM20 /1.5	40	8.8	174	1½	41-122		23.9	4.0	5.3
MM5/HP/50 NPT	18	2.2	725	1	32 – 284	Full aluminum construction	9.7	4.6	4.9
MM10/HP/50 NPT	26	4.4	725	1	32 – 284		14.3	4.6	4.9
MM20/HP/50 NPT	40	8.8	725	1½	32 – 284		24.6	4.6	4.9
MM5/HP/80 NPT	18	2.2	1160	1	32 – 284	Full stainless steel construction	9.7	4.6	4.9
MM10/HP/80 NPT	26	4.4	1160	1	32 – 284		14.3	4.6	4.9
MM20/HP/80 NPT	40	8.8	1160	1½	32 – 284		24.6	4.6	4.9



Filtramag+ is a high performance magnetic filter with full stainless steel construction which makes it suitable for use in a variety of industry sectors and applications.

- Patented design
- Easy installation
- Unique dual flow technology™ – maximises collection capability
- Operates at up to 290psi bar
- Removes both magnetic and non-magnetic contamination
- Minimal pressure drop
- In-line connections
- Ideal for use in harsh chemical environments

Dual flow technology™

Filtramag+ is the most efficient filter of its type. The dual chambered design means that fluid is exposed to the high intensity magnets for the maximum time thus ensuring almost 100% of contamination is removed on first pass through the filter. The patented magnetic circuit on the 4,000 gauss version design ensures that the filter can never block even in high contamination applications.

Magnetic core options

High intensity magnetic cores ensure particle filtration down to sub-micron size. For standard machining or wash system applications a 4,000 gauss magnetic core pack is available. For applications which involve lower magnetically permeable materials e.g. Cast Iron and Carbide or require an ultra-precise surface finish an 11,000 gauss magnetic core pack is available.

Benefits

Using fully filtered fluids, free from ferrous particles provides:-

- Improved surface finish
- Cost savings on disposable filtration media
- Extended fluid lifespan
- Reductions in waste disposal
- Longer lasting tools and machinery



Suitable fluids

Oil, coolants, fuel, ink, paint, chemicals.

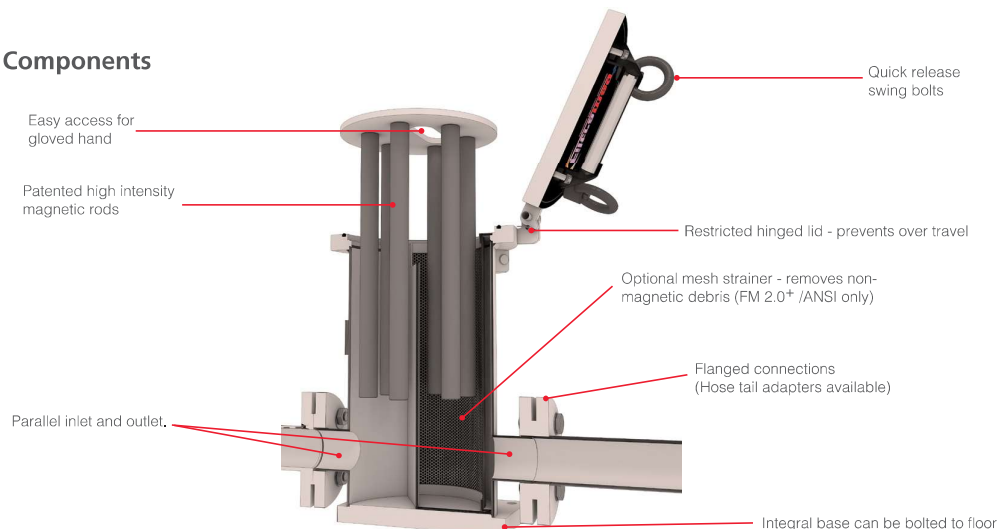
Suitable locations

Pre & Post fluid holding tank, machine or process

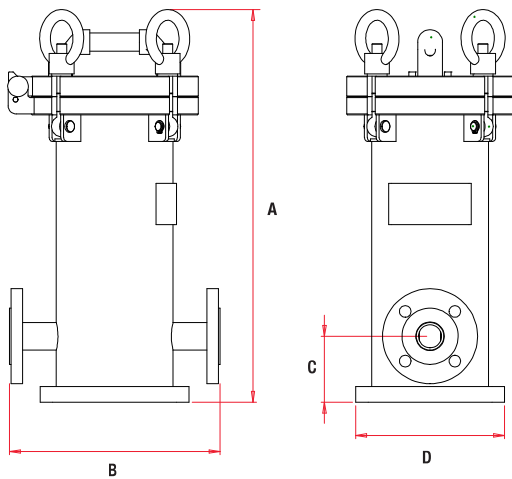
Typical applications

- With carbide or cast iron materials
- General machining operations
- Inks/paints
- Wash systems
- Diesel/gasolene
- Slurry/glazes

Filtramag+ Components



Technical Data



Product number	Max. flow rate Gallons	Contamination capacity lbs	Max. operating pressure PSI	Connection ANSI "	Dimensions inches			
					A	B	C	D
FM1.5 ⁺ /ANSI	66	6.6	290	1½	15.5	10	3.9	7.1
FM2.0 ⁺ /ANSI	132	13.2	290	2	17.4	13	3.9	9.8

Part Numbers (including spares)

Part Number	Description
FM1.5 ⁺ /ANSI	FM1.5 ⁺ unit with 4,000 magnet cartridge, cleaning tool & cleaning tray
FM2.0 ⁺ /ANSI	FM2.0 ⁺ /ANSI unit with 4,000 magnet cartridge, cleaning tool & cleaning tray
FM1.5 ⁺ /ANSI /11K	FM1.5 ⁺ /ANSI unit with 11,000 magnet cartridge, cleaning tool & cleaning tray
FM2.0 ⁺ /ANSI /11K	FM2.0 ⁺ /ANSI unit with 11,000 magnet cartridge, cleaning tool & cleaning tray
FM1.5 ⁺ /ANSI/MC	4,000 magnet cartridge for FM1.5 ⁺ /ANSI units
FM2.0 ⁺ /ANSI/MC	4,000 magnet cartridge for FM2.0 ⁺ /ANSI units
FM1.5 ⁺ /ANSI /MC11K	11,000 magnet cartridge for FM1.5 ⁺ /ANSI units
FM2.0 ⁺ /ANSI /MC11K	11,000 magnet cartridge for FM2.0 ⁺ /ANSI units
FM2.0 ⁺ /ANSI /MB0.5	Optional 0.5mm mesh basket for FM2.0 ⁺ /ANSI units
FM2.0 ⁺ /ANSI/MB1.0	Optional 1.0mm mesh basket for FM2.0 ⁺ /ANSI units
FM1.5 ⁺ /ANSI /VS	Spare Viton seal for FM1.5 ⁺ /ANSI units
FM2.0 ⁺ /ANSI /VS	Spare Viton seal for FM2.0 ⁺ /ANSI units

Magnetic Performance

Maximum Pressure Magnetic Performance

290psi
Standard option 4,000 gauss,
high intensity option 11,000 gauss

Magnet material NdFeB

Rare earth neodymium iron boron

Magnet grade N45 (High intensity option)

N35 (Standard option)

Temperature

23 to 176F

Materials

Housing

Lid

Tube

Surface finish

Sealing

304 Grade Stainless Steel
304 Grade Stainless Steel
316 Grade Stainless Steel
External-powder coated
Viton O-ring

Mesh strainer

Swing bolts

Cleaning Tool

Mesh strainer

options (FM2.0⁺/ANSI only)

304 Grade Stainless Steel
High tensile steel
Stainless steel
0.02inches and 0.04inches aperture size

If you have any more questions, require technical assistance or would like a quotation, please contact us.



Sentry Equipment Corp. sales@sentry-equip.com
262-567-7256 www.smartskim.com



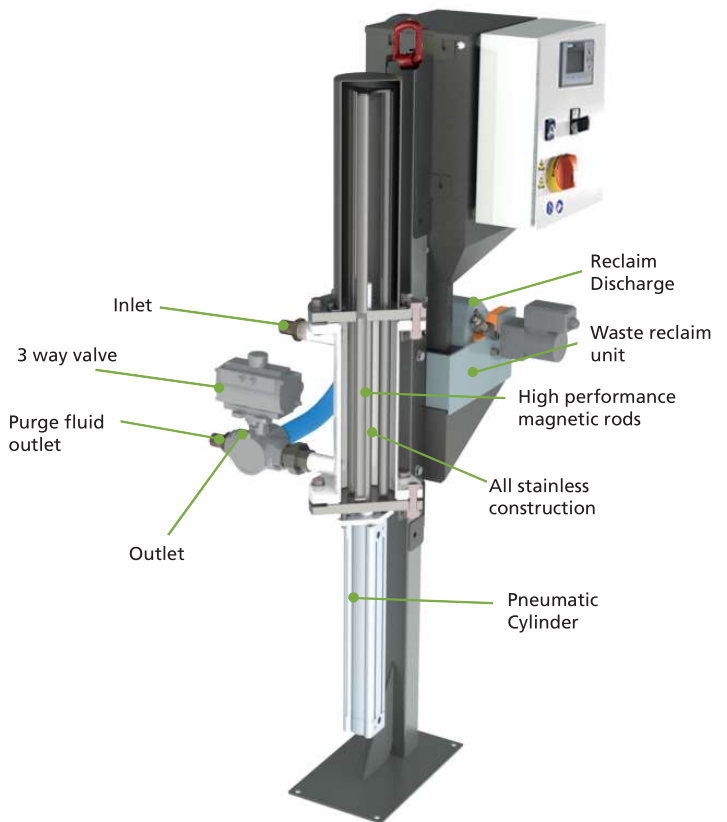
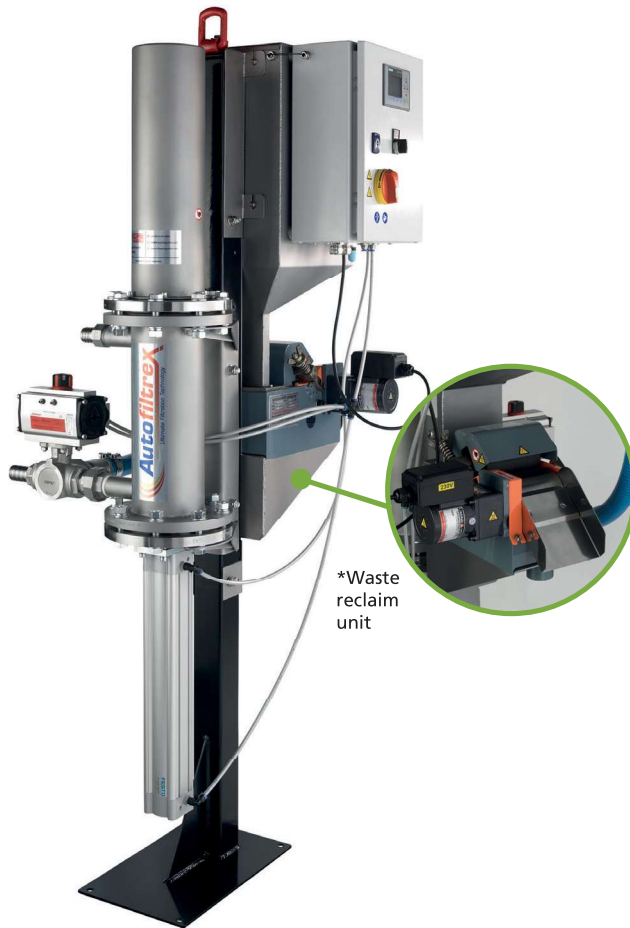
FM31278

While every effort has been made to ensure the accuracy of the information in this publication please note that specifications may change without notice.



A Spear & Jackson Company

Autofiltrex

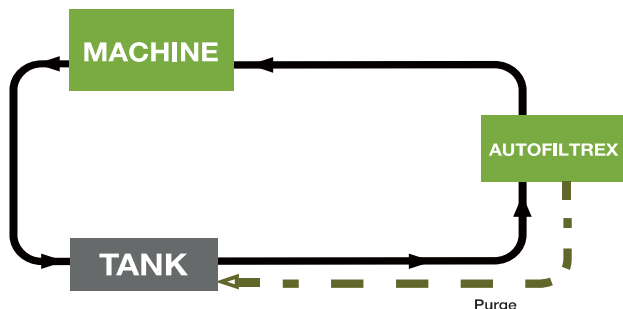


The latest generation in cost-effective fluid filtration.
Fully automated operating & cleaning. Provides huge cost savings in fluids & filter consumables.

Typical applications

Autofiltrex is ideal for most ferrous machining applications such as:

- Honing
- Lapping
- Grinding
- Forming
- Quenching processes



Benefits

- Cleaner fluid delivery to the machine
- Reduced expenditure on filter media
- Fully automated cleaning
- Reduced waste disposal
- Increased fluid lifespan
- Improved surface finish and accuracy
- 24/7 uninterrupted filtration
- Minimal space required



Sentry Equipment Corp.
262-567-7256

sales@sentry-equip.com
www.smartskim.com

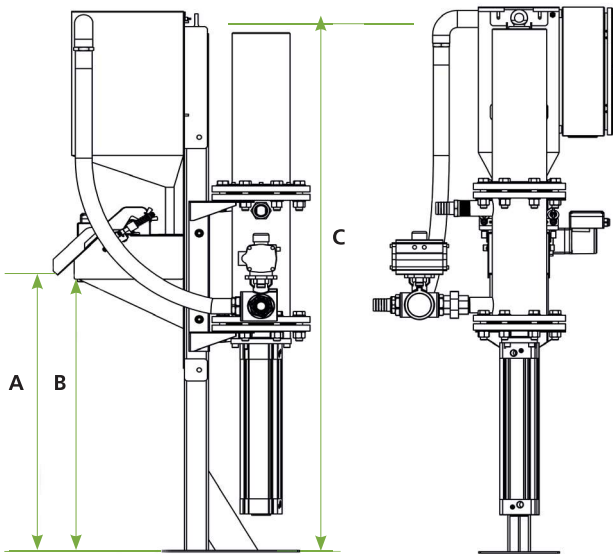


How Autofiltrex Works

Autofiltrex works in-line, taking dirty fluid from the holding tank and delivering clean polished fluid to the tool/workpiece contact point. As fluid flows through the Autofiltrex cylinder, high intensity magnetic circuits extract ferrous contamination particles.

When the magnets reach saturation point, a timed automated purging process lifts the magnetic cores from the housing thereby releasing contamination. This is simultaneously diverted via a 3-way valve to the reclaim unit. The unit can be set to purge at timed intervals or be manually executed.

Technical Data



Product number	Flow rate gpm	Number of magnetic rods	Magnetic Strength gauss	Connections inches	Contamination Capacity lbs	Weight lbs	Dimensions inches					
							A	B	C	D	E	F
AF3/RC/110	40	3	9,000	1.25	6.6	269	34.3	2.0	66.9	28.2	27.5	11.8
AF5/RC/110	53	5	9,000	1.50	11.0	320	34.3	2.0	66.9	29.4	29.4	11.8

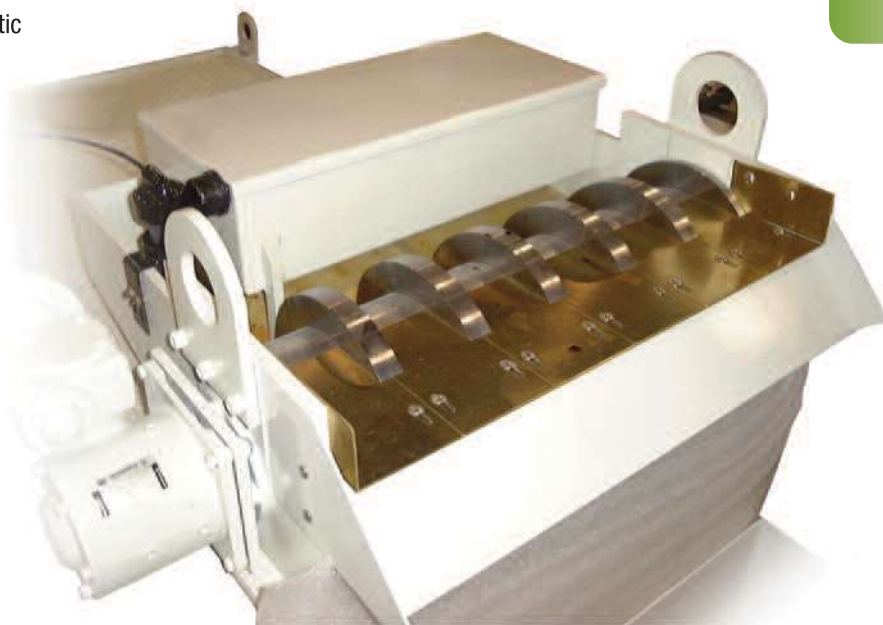
Product number	Inlet Hosetail ID inches	Outlet Hosetail ID inches	Purge Hosetail ID inches	Materials (wet parts) ss	Air Connection mm	Min Air Pressure psi	Max Air Pressure psi	Max Fluid Pressure psi	Unboxed Weight lbs
AF3/RC/110	1.25	1.25	2.0	304	8	87	145	145	269
AF5/RC/110	1.50	1.50	2.0	304	8	87	145	145	320

Magnetic Filtration

HPS, HPA and HPN Series

Our **Magnetic Indexing Drum Filters**, both standard ferrite ceramic drum as well as the rare earth Neodymium Iron Boron Magnetic drum, are the leaders in the industry in design and magnetic field strength. The Neo filter provides strengths of 10X that of standard ferrite ceramic!

What sets us apart is our raised pole drum construction and the logic employed to index the drum, automatically on demand. Compared to smooth cylindrical drums that rotate continuously, our raised pole design provides 40% more magnetic surface area per linear foot. And because the drum is not rotated continuously, the captured contaminants being discharged are drier which reduces coolant loss. Our automatic indexing control logic will only rotate the drum when the fluidic probe generates a signal, as the captured contaminants continue to build up in the intense magnetic field. The purpose behind this circuitry is to maintain the optimum porosity of the filter matrix and thus using the matrix to capture some non-magnetic particles as well as heavy oils and greases. The most-reliable, ultra-efficient filtration and removal of magnetic and non-magnetic contaminants, from metal-working fluids.



APPLICATIONS:

- MACHINING:
 - BROACHING
 - GUN DRILLING
 - HOBBING
 - MILLING
- GRINDING:
 - CENTERLESS ID & OD
 - THRUFEED
 - CYLINDRICAL ROLL
 - DOUBLE DISK
 - CREEP FEED & THREAD GRINDING
- HONING
- MICRO SIZING

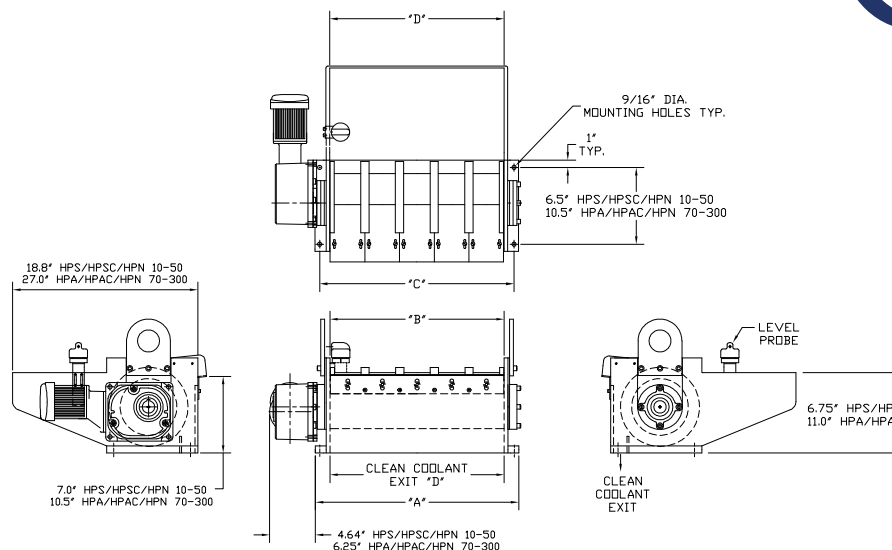
ATTRIBUTES:

- CUT YOUR COST OF DIRTY COOLANT DISPOSAL BY UP TO 90%
- CAPABLE OF MAINTAINING MACHINE TOOL COOLANTS TO 10 MICRON
- NOMINAL CLARITY WITHOUT THE USE OF CONSUMABLE MEDIA
- IMPROVE TOOL LIFE AND PRODUCT QUALITY
- SAFEGUARD WORKER HEALTH AND SAFETY

BENEFITS:

- DESIGNED FOR EASY INSTALLATION AND MINIMAL MAINTENANCE
- HIGHLY RELIABLE SYSTEMS WITH LITTLE TO NO DOWNTIME
- MINIMAL OPERATOR INVOLVEMENT AND TRAINING
- NO NEED TO BUDGET FOR EXPENSIVE CONSUMABLES
- OPERATES FOR PENNIES PER DAY IN ELECTRICAL COST
- SYSTEM PAYBACK TYPICALLY IN LESS THAN 9 TO 12 MONTHS
- SYSTEMS AVAILABLE FOR SMALL, MEDIUM AND LARGE OPERATIONS

Magnetic Filtration



Materials of Construction

All Magnetic Filters are manufactured to industrial grade standards. Drums are constructed of 304 S/S and A36 HRS combinations. Filter Housings are constructed of HRS, 304 S/S, and 6061 T6 Aluminum.

Optional Equipment

- Extended swarf discharge chute designed to meet site discharge requirements.
- Inlet distribution diffuser box designed to eliminate splash and evenly distribute dirty fluid across width of magnetic drum.
- Inlet enclosure designed to completely seal the top of the filter assembly (includes extend swarf discharge chute).

Site Requirements

Electric:

120/1/60 VAC, 208-230/460/ 3/60 VAC

Piping:

Only customer piping required is for the dirty fluid inlet connection or dirty fluid flume in the case of gravity feed installations.

Consumables:

NO CONSUMABLES REQUIRED!

Maintenance:

Only annual Periodic Maintenance Cycle required which consists of lubrication of 2 bearings and inspection for wear.

HPS-10&HPSC-10 THRU HPS-50&HPSC-50 IN DECIMALS OF AN INCH (MILLIMETERS)					
MODEL**	Flow Rate* (G.P.M.)	A	B	C	D
HPS-10/HPSC-10	10	10.750 (273)	7.000 (178)	9.500 (241)	7.000 (178)
HPS-15/HPSC-15	15	14.125 (359)	10.375 (264)	12.875 (327)	10.375 (264)
HPS-20/HPSC-20	20	17.438 (443)	13.688 (348)	16.188 (411)	13.688 (348)
HPS-30/HPSC-30	30	24.063 (611)	20.313 (516)	22.813 (579)	20.313 (516)
HPS-40/HPSC-40	40	30.750 (781)	27.000 (686)	29.500 (749)	27.000 (686)
HPS-50/HPSC-50	50	37.375 (949)	33.625 (854)	36.125 (918)	33.625 (854)
HPA-70&HPAC-70 THRU HPA-300&HPAC-300 IN DECIMALS OF AN INCH (MILLIMETERS)					
MODEL**	Flow Rate* (G.P.M.)	A	B	C	D
HPA-70/HPAC-70	70	27.813 (706)	23.813 (605)	26.563 (675)	23.813 (605)
HPA-90/HPAC-90	90	32.563 (827)	28.563 (725)	31.313 (795)	28.563 (725)
HPA-110/HPAC-110	110	37.313 (948)	33.313 (846)	36.063 (916)	33.313 (846)
HPA-130/HPAC-130	130	42.063 (1068)	38.063 (967)	40.813 (1037)	38.063 (967)
HPA-150/HPAC-150	150	46.813 (1189)	42.813 (1087)	45.563 (1157)	42.813 (1087)
HPA-160/HPAC-160	160	51.563 (1310)	47.563 (1208)	50.313 (1278)	47.563 (1208)
HPA-170/HPAC-170	170	56.313 (1430)	52.313 (1329)	55.063 (1399)	52.313 (1329)
HPA-200/HPAC-200	200	65.875 (1673)	61.875 (1572)	64.625 (1641)	61.875 (1572)
HPA-250/HPAC-250	250	80.125 (2035)	76.125 (1934)	78.875 (2003)	76.125 (1934)
HPA-300/HPAC-300	300	94.375 (2397)	90.375 (2296)	93.125 (2365)	90.375 (2296)

*Flow rates are based on water based coolant applications. Flow rates on oil applications are reduced by 50%.

**These dimensions are for general reference only and are not certified drawings.

*** Suffix "C" on any model number represents "Chip Style Housing" for machining chip applications.

**** Suffix "N" on any model number represents "Neodymium Iron Boron" rare earth magnetic drum.

SmartSkim Products:

- Centralized & Portable Coolant Recycling Systems
- Oil Water Separators
- Floating Suction Skimmers
- In-Line High Powered Rare-Earth Magnets for Fluid Filtration
- Sumpcleaners & Coolant Dispensers



Sentry Equipment Corp.
262-567-7256

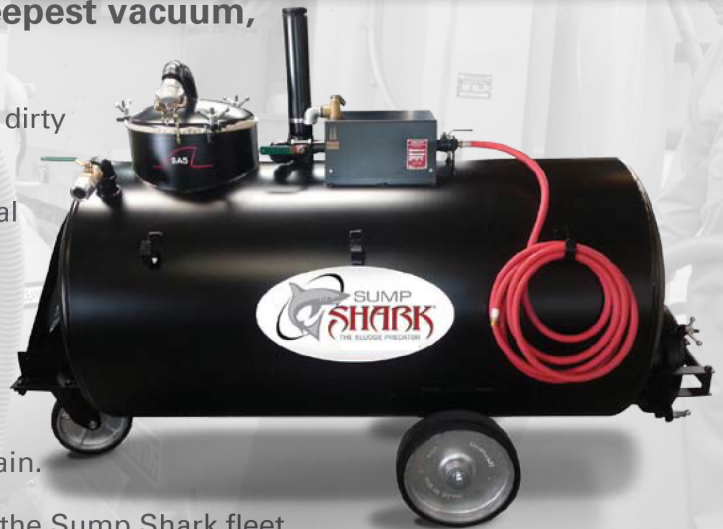
sales@sentry-equip.com
www.smartskim.com



SA5 SUMP SHARK® SUMP CLEANER AIR

Air-powered Sump Sharks® offer the deepest vacuum, pumping out pits up to 20' deep

- Ditch the grueling pail-n-shovel process! Clean dirty machine tool sumps* faster, better and safer.
- Effectively filter chips and sludge from industrial fluids for re-use (when applicable). Pick up the thickest of sludge.
- Pump in/pump out capability.
- Convenient use of in-plant air supply.
- No moving parts. Simple to operate and maintain.
- Most popular and economically priced units in the Sump Shark fleet.
- Reduce machine tool downtime, labor costs and mess. Save time and money.
- Proudly designed and manufactured in the U.S.A.



Tank Size:	60-, 90-, 140-, 175-, 300-, 400-, 500- and 600-gallon capacity
Pump:	Air-operated venturi
Pumping Rate:	Up to 70 gallons (264 liters) per minute
Suction Lift:	26" Hg (Mercury) or 350" (9 meters) water
Requirements:	<i>For optimal performance, requires air runs (headers) of 3/4" or larger and verticals (drops) of 1/2" or more with line pressure of 75 to 120 PSI (pounds per square inch) and volumetric capacity of 53 to 80 CFM (cubic feet per minute)</i>
Filter:	F10 Filter (1 cu. ft. capacity) is standard. Optional F23 (2.3 cu. ft. capacity) is recommended when coolant is loaded with chips and swarf. Coarse, regular and fine weaves available.
Overfill Prevention:	Automatic overfill protection, all discharge ports are valved
Pressure Discharge:	6 PSI with safety backup valve

**Sump Sharks have proven effective in many types of applications: general machining, screw machines, grinding, water jet cutting, plasma cutting and more. Industrial fluids is a general term we use to mean coolant, metalworking fluids, cutting fluids, etc.*

SA5-60PL SUMP SHARK

SmartSkim's smallest sump cleaner, the SA5-60PL, has a unique vertical design for shops with limited floorspace. High-suction lift sucks out everything in the sump -- chips, fines, particles and fluid.

- 60-gallon tank
- Space-saving vertical design for shops with limited space
- Same power as larger air unit, but in smaller package
- Pumping rate up to 70 gallons (264 l.) per minute
- 1 cu. ft. filter standard, optional 2.3 cu. ft. available



Caution: Machines must not be used for flammable fluids (fuels, paints, solvents, etc). Avoid use in extra-high temperature or spark-hazard environments (ovens, welding areas, etc).

F10 - 1.0 CUBIC FOOT FILTER

The F10 strainer basket and fabric liner has a capacity of 1.0 cubic foot and is standard on the SA5. The reusable filter has built in grips and is small enough for one person to lift. Coarse, fine and polypropylene filter bags come standard with the F10 filter basket.



Standard F10 Filter



Optional F23 Filter

F23 - 2.3 CUBIC FOOT FILTER (OPTIONAL)

With a 2.3 cubic feet capacity, the F23 filter is fitted for fork lift or hook hoist handling. Patented compound linkage and rotary latch control the bottom opening door for safe emptying. The filter assembly comes complete with a regular-weave polypropylene filter sleeve. The F23 filter is optional on the SA5. Optional coarse and fine weaves available.

Available as a combination-tank sump cleaner and coolant dispenser – **CA5 Sump Shark**.

Model	Tank Size	Cleanout Door	Transport Base *	Wheels	Dimensions (L x W x H)	Shipping Weight	Filter
SA5-60PL	60 gal. (227 l.)	2-1/2" drain port in bottom	Standard: PL Base (Push/Lift)	Phenolic wheels: two 8"x 2", one 6"x 2" swivel caster	45" x 36" x 57"	350 lbs.	F10 Std.
SA5-90PT	90 gal. (341 l.)	8" x 10" door with a 1-1/4" drain port	Standard: PT (Push/Tow) Available: PL6, TW, CB	Poly tires: two 12"x 3", one 8" x 3" swivel caster	68" x 30" x 51"	500 lbs.	
SA5-140PT	140 gal. (530 l.)				68" x 34" x 57"	580 lbs.	
SA5-175PT	175 gal. (662 l.)				80" x 34" x 57"	695 lbs.	
SA5-300TW	300 gal. (1,136 l.)	16" diameter hinged door with a 2-1/2" drain port	Standard: TW Base (Tow-Only)	Rubber tires: two 16"x 4", one 12"x 3 swivel caster	96" x 40" x 65"	975 lbs.	F23 Opt.
SA5-400TW	400 gal. (1,514 l.)		Tow bar with pintle-eye hitch to accommodate most in-plant tugs or tractors	Rubber tires: two 16"x 4", two 12"x 3" swivel casters	99" x 46" x 71"	1,380 lbs.	
SA5-500TW	500 gal. (1,893 l.)		Available: CB	Rubber tires: two 16"x 5", two 12"x 3" swivel casters	118" x 48" x 73"	1,465 lbs.	
SA5-600CB	600 (2,271 l.)		Standard: CB (Custom Base) for mounting on trailer or truck	N/A	121" x 42" x 63"	1,690 lbs.	

Ask about a floor squeegee and other available accessories (sold separately).

Note: Engineering specifications subject to change without notice.

*See "Transport Base Options" spec sheet for more information.

- PT – push/tow base
- PL6 – push/lift base w/ 6 wheels (center-mounted casters) & fork pockets
- TW – tow-only base
- CB – custom bases available

Caution: Machines must not be used for flammable fluids (fuels, paints, solvents, etc). Avoid use in extra-high temperature or spark-hazard environments (ovens, welding areas, etc).

SmartSkim's high-performing Sump Sharks® make use of safe, economical and powerful three-phase electrical supply with no emissions

- Ditch the grueling pail-n-shovel process! Ideal for general machine tool sump cleaning*. Three-phase electric-powered Sharks offer power to clean dirty sumps faster, better and safer.
- Effectively filter chips and sludge from industrial fluids for re-use (when applicable). Save on fluids cost and disposal.
- Runs on 208-230-460/60/3 electricals. SE30 has an efficient three HP electric motor. SE50 is a higher performance unit with a more powerful five HP electric motor.
- SE50 offers more power with a higher pumping rate, but when space is limited, the compact SE30 maneuvers better in tight spaces.
- While not as deep a vacuum as the Shark air units, these units generate higher nozzle velocity to pick up both puddles on floor and dry solids. Pump in/pump out capability.
- Reduce machine tool downtime, labor costs and mess. Save time and money.
- Proudly designed and manufactured in the U.S.A.



	SE30	SE50
Tank Size:	90- and 140-gallon capacity	175-, 300-, 400-, 500- and 600-gallon capacity
Motor:	3 HP Electric Motor • Volts 208-230/460 Amps 14.8-14.0/7.0 • Hertz 60 • Phase 3	5-HP Electric Motor • Volts 208-230/460 Amps 14.8-14.0/7.0 • Hertz 60 • Phase 3
Pump:	Lobe type, positive displacement air pump	Lobe type, positive displacement air pump
Pumping Rate:	Up to 60 gallons (227 liters) per minute	Up to 110 gallons (417 liters) per minute
Filter:	F23 filter (2.3 cu. ft. capacity)	F50 filter (5.0 cu. ft. capacity)
Filter Sleeves:	Coarse, regular and fine weaves available	Coarse, regular and fine weaves available
Hoses:	1 1/2" I.D. x 16' oil-resistant PVC suction/ discharge hose including quick-disconnect coupler and suction tools	2" I.D. x 16' oil-resistant PVC suction hose including quick-disconnect coupler and suction tools. Separate discharge hose of heavy-section clear plastic 1 1/4" I.D. x 16' with full-flow shut-off nozzle.
Suction Lift:	13" Hg (Mercury) or 177" (4.5 meters) water	
Overfill Prevention:	Automatic overfill protection, all discharge ports are valved	
Pressure Discharge:	6 PSI (pounds per square inch) with safety backup valve	
Accessories:	Flared Nozzle • Flexible Nozzle • Straight Nozzle • 50' power cord (15' standard)	

*Sump Sharks have proven effective in many types of applications: general machining, screw machines, grinding, water jet cutting, plasma cutting and more. Industrial fluids is a general term we use to mean coolant, metalworking fluids, cutting fluids, etc.

Caution: Machines must not be used for flammable fluids (fuels, paints, solvents, etc). Avoid use in extra-high temperature or spark-hazard environments (ovens, welding areas, etc).

F23 - 2.3 CUBIC FOOT FILTER FOR SE30

With a 2.3 cubic feet capacity, the F23 filter is fitted for fork lift or hook hoist handling. Patented compound linkage and rotary latch control the bottom opening door for safe emptying. The F23 filter is standard on the SE30. The filter assembly comes complete with a regular-weave polypropylene filter sleeve. Optional coarse and fine weaves available.



F23 Filter



F50 Filter

F50 - 5.0 CUBIC FOOT FILTER FOR SE50

The F50 is an extra-capacity filter for SmartSkim's extra-power Sump Sharks. The filter consists of a perforated metal outer basket with a polypropylene mesh liner sleeve. The sleeve provides a continuous filter, unbroken by slits or openings which can leak solids into the coolant. The filter also features a built-in lifting bail, anti-bridging reverse tapered sides and patented positive locking latch. Fittings for fork lift handling are integral to the two-piece cover. The F50 filter and regular-weave filter sleeve are standard on all SE50 units. Optional coarse and fine weaves available.

Both available as combination-tank sump cleaners and coolant dispensers – **CE30 & CE50 Sump Sharks.**

Model	Tank Size	Cleanout Door	Transport Base*	Wheels	Dimensions (L x W x H)	Shipping Weight	Filter
SE30-90PT	90 gal. (342 l.)	8" x 10" door with a 1-1/4" drain port	Standard: PT Base (Push/Tow) Available: PL6, TW, CB	Poly tires: two 12" x 3", one 8" x 3" swivel caster	68" x 30" x 54"	734 lbs.	F23
SE30-140PT	140 gal. (530 l.)				68" x 34" x 59"	774 lbs.	F23
SE50-175PT	175 gal. (662 l.)				80" x 34" x 61"	1,175 lbs.	F50
SE50-300TW	300 gal. (1,136 l.)	16" diameter hinged door with a 2-1/2" drain port	Standard: TW Base (Tow-Only) Tow bar with pintle-eye hitch to accommodate most in-plant tugs or tractors Available: CB	Rubber tires: two 16" x 4", one 12" x 3" swivel caster	96" x 42" x 69"	1,454 lbs.	F50
SE50-400TW	400 gal. (1,514 l.)			Rubber tires: two 16" x 4", two 12" x 3" swivel casters	99" x 46" x 75"	1,860 lbs.	F50
SE50-500TW	500 gal. (1,893 l.)			Rubber tires: two 16" x 5", two 12" x 3" swivel casters	111" x 48" x 77"	1,945 lbs.	F50
SE50-600CB	600 gal. (2,271 l.)		Standard: CB (Custom Base) for mounting on trailer or truck	N/A	121" x 42" x 67"	2,039 lbs.	F50

Ask about a floor squeegee and other available accessories (sold separately).

Note: Engineering specifications subject to change without notice.

*See "Transport Base Options" spec sheet for more information.

- PT – push/tow base
- PL6 – push/lift base w/ 6 wheels (center-mounted casters) & fork pockets
- TW – tow-only base
- CB – custom bases available

Caution: Machines must not be used for flammable fluids (fuels, paints, solvents, etc). Avoid use in extra-high temperature or spark-hazard environments (ovens, welding areas, etc).



What Makes SmartSkim the Best

Our Philosophy:

To deliver patented and proprietary systems that last a lifetime, use few consumables and require minimal maintenance.

Our Goal:

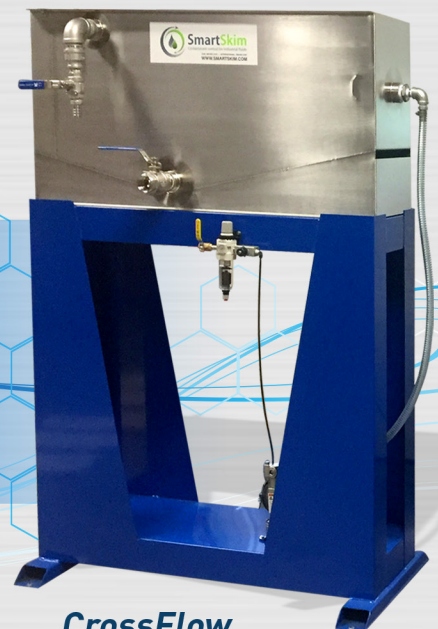
To help our customers reduce operating costs, operate more efficiently and improve environmental performance.

The benefits that our customers report by using SmartSkim systems:

- Reduce new fluid purchase costs by up to 75% by extending the life of those fluids
- Reduce waste treatment costs by 50% - 90%
- Environmental issues such as waste disposal, risk avoidance, meeting ISO 14000 requirements
- Improved tool life & product quality
- Safeguard employee health and safety due to reduced dermatitis, misting, smoke, bacteria and odors
- Obtain system paybacks typically in less than 9-12 months
- Systems available for small, medium, and large operations
- SmartSkim systems are designed for easy installation and minimal maintenance
- The most reliable systems on the market with little to no downtime
- Minimal operator involvement and training
- Most systems run on plant air only, no electrical panel necessary on standard systems



V1.5



CrossFlow

Sentry Equipment Corp.
262-567-7256
sales@sentry-equip.com
www.smartskim.com



www.smartskim.com