

SANBORN Oil Separator

Portable Coalescer for Tramp Oil Removal

Reduces Tramp Oil to Less Than 1% • Saves on New Fluid Purchases

Sanborn Oil Separators are designed for the efficient removal of free tramp oils from machine tool reservoirs. These economical and easy-to-operate units extend the life of oil-based, synthetic, and semi-synthetic coolants by removing from 50% to 90% of the tramp oils that build up in machine sumps and are the major cause of tool wear and machine downtime in machining and grinding, metal finishing, stamping, and die-casting operations.



The Sanborn Oil Separator allows coolant to be continuously cycled from the sump or central system to the unit where it is processed and returned as clarified fluid, while the tramp oils are automatically discharged for collection. Two configurations are available with processing capacities of 5 GPM and 10 GPM.

These compact separator units are easily positioned anywhere in the plant. Delivered completely assembled, they require only plant air to operate and are simple to install. Separators are extremely reliable, need no attendance for operation and require only an occasional prefilter clean-out for maintenance.

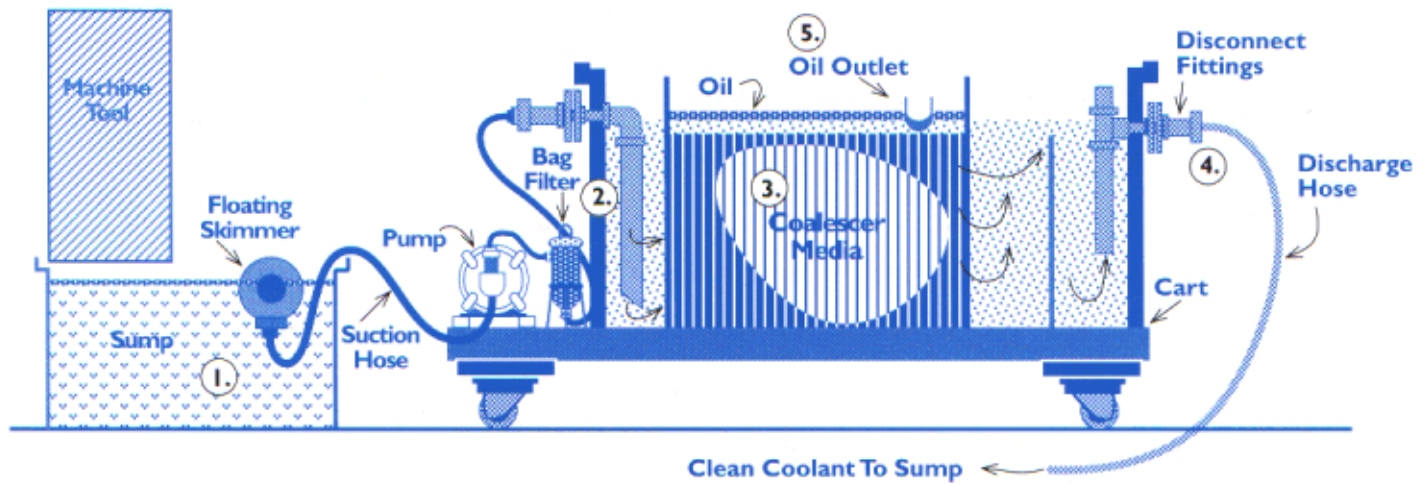
APPLICATIONS:

In Machining & Grinding Operations: Removes free oil from coolants, grinding and cutting fluids and lubricants.

For Metal Finishing: Can be used with alkaline and acidic washwater, baths and rinse waters.

Transportation: Can be used on oily waste discharge from tank car, bus and cleaning operations.





System Operation

1. Contaminated coolant is continuously fed from the sump by means of a floating oil skimmer.
2. The fluid is processed through a bag filter then flows into the media chamber.
3. Free tramp oils are coalesced and separated in the porous media bed.
4. Clarified fluid overflows the discharge baffle and is returned to the clean fluid reservoir for reuse.
5. Separated free oils and other impurities are collected at the top of the separator and are discharged automatically by means of an oil weir.

Features

- Simple, trouble-free operation.
- Compact design fits close to machine or sump.
- Minimal maintenance requirements.
- Economical and efficient gravity flow operation.
- Requires only plant air for operation.
- Can be operated to by-pass the floating oil suction and coalescer chamber for removal of heavy solids.

Benefits

- Reduces free tramp oil.
- Saves on new fluid purchases.
- Reduces the cause of rancid coolant odor.
- Continuous operation reduces machine downtime.

General Specifications

MODEL	Length	Width	Height	Dry Wt.	Hold-Up Volume	Air Required
5 GPM	60"	30"	36"	180#	40 gal.	1 SCFM
10 GPM	60"	30"	48"	220#	80 gal.	2 SCFM

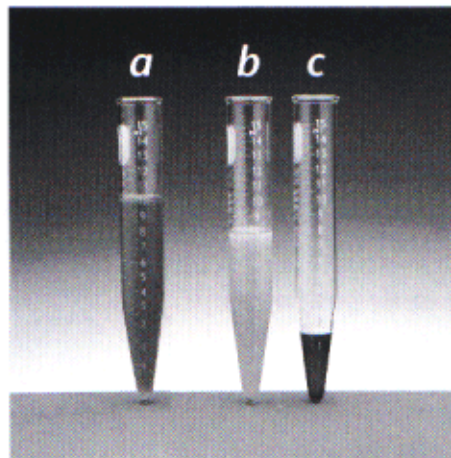


Photo shows (a) dirty coolant before it is processed by the Sanborn Oil Separator and (b) coolant as it is returned to the sump after processing.

Figure (c) shows removed tramp oil.



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