

Comprehensive Manufacturer of Environmental Equipment
Challenging the Liquid Transfer Technology,

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<Chemmy>

■ Note

This is printed by using a reused aluminum board (4.22 kg) and saves electric power, 66.77 kW. (CO₂ emission 43.09 kg)

MCP
Minus Carbon Printing systems

The CO₂ reduction is certified and verified strictly and fair by Japan Smart Energy Co., Ltd.

CO₂ reduction (43.09 kg) means
it is CO₂ absorbed by 3.09 Japanese cedars (Height 22 m, 26 cm diameter) which is 50 years old in a year.
(By Forest and Forestry)

World Chemical Co., Ltd. joins a forest regeneration project (plant 3,000 trees) in Bali, Indonesia through printing by MCP.



SAVER SERIES

WORLD CHEMICAL

Comes to a head.
Commitment to quality

We, World Chemical Co., Ltd., which is a environmental equipment manufacturer with fluid transfer technology, think that our role is to use different skills "Passion" , "Creation" & "Technology" to mold the idea into "Pump" , " Floating objects collecting system" & " Filtration system" in meeting customers' & markets' demands under the company' s slogan "Sensin (Advance)" .

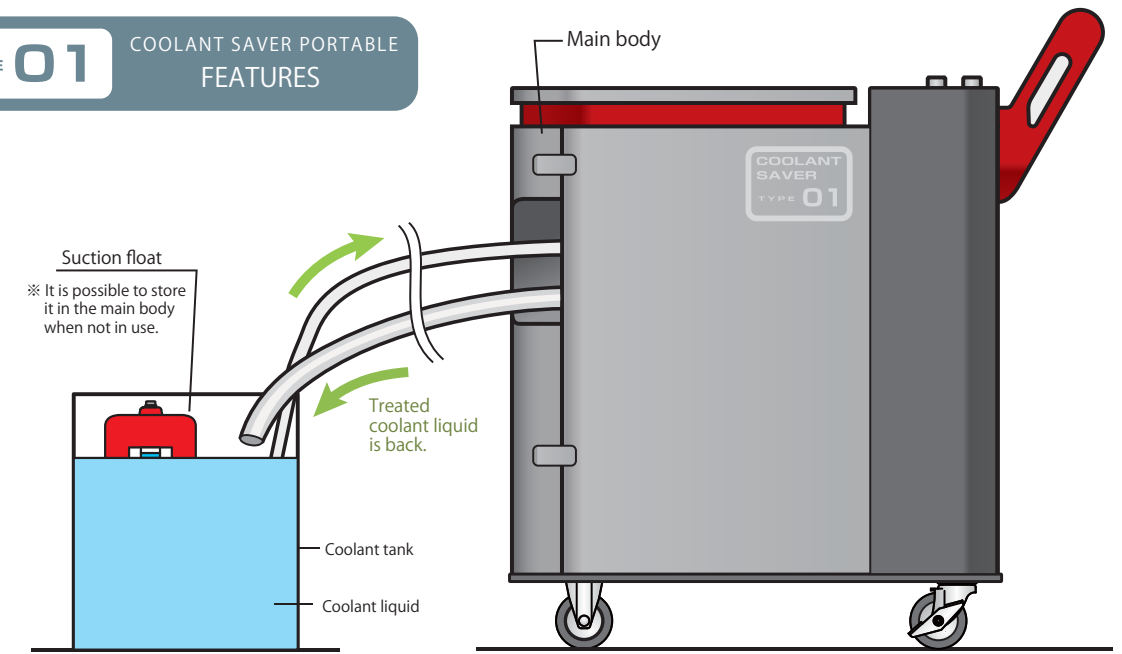
SAVER SERIES



Floating oil collecting system for machine tools
Portable / Air drive
YD-270FS-16CSPN
COOLANT SAVER PORTABLE



COOLANT SAVER TYPE 01 COOLANT SAVER PORTABLE FEATURES



Good for human,
Good for the work environment.

COOLANT SAVER PORTABLE is reborn as an universal design product which has the thought-out shape, function and design to realize "Reduction of operation mistake" and "Safety & comfort" .

We are confident about assisting the quality improvement of customers' products by surprisingly collecting ability & support for the upgrading of the work environment.



UD
Universal design
It is designed to reduce the workloads and operation mistakes based on the person to use.



Easy move
The new designed big grip and the casters of the fixed front & turn-style rear (with brake) make it move safe and easy.



Protect worker
A prevention board for finger caught is attached with the handlebar and the undersurface of the body is covered to protect Achilles tendon.



Cost reduction
The separator does not have consumables like a filter.



3 swivel joint
A swivel joint is adopted as the float and able to be used in a narrow coolant tank.



Air drive
Air drive. No motor, no electric works.



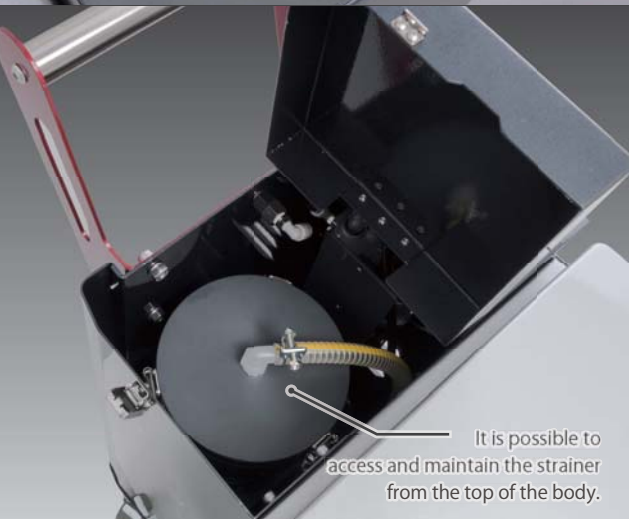
Strainer as standard
A strainer is incorporated as standard. It is possible to collect big sludge.



Large capacity & high efficient separator (Removable)



Control panel with high regard for operability
(From the left: Pressure gauge, Flow control, ON/OFF valve)



It is possible to access and maintain the strainer from the top of the body.



A drain cock is attached in the front cover. Waste oil can be collected by a pail in each case.

COOLANT SAVER TYPE 01 COOLANT SAVER PORTABLE FEATURES

Top cover & see through window to check the operation.



The body is covered to be safe.

Casters to realize good operability and safety. (F=fex, R=turn style / brake)

Front cover which is including a lot of function.

Handle with a high regard for safety.

Air connection (Change to other type is available.)



Float as usage

Standard float

Three point swivel joint which is not affected by hoses is adopted. It stably collect surficial oil.

Small float

Possible to be used for a narrow space and a shallow tank.



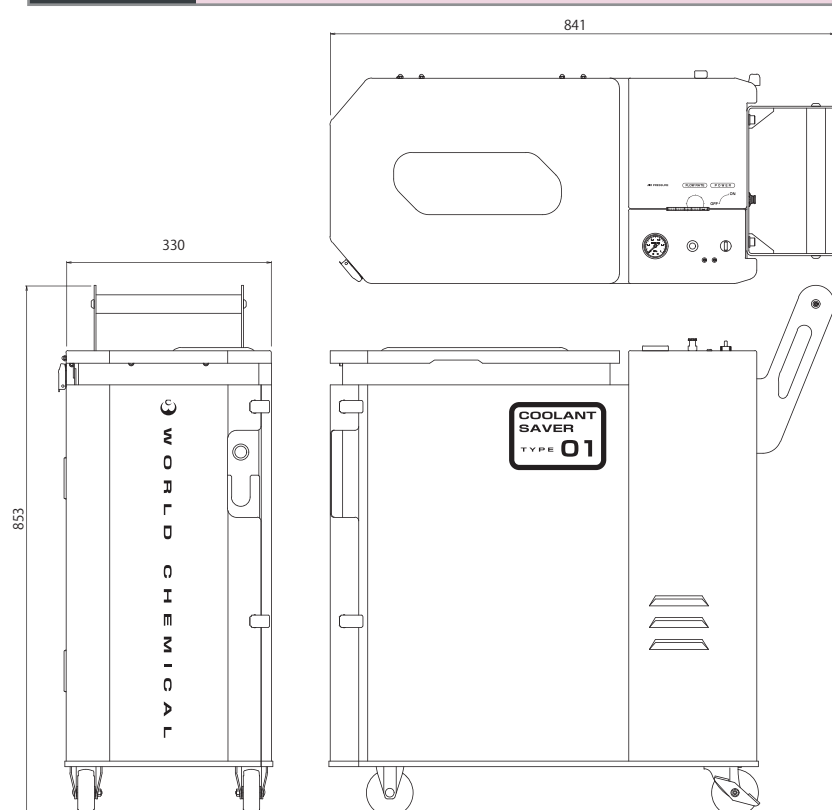
Possible to handle hoses with the front cover closed for sleekly.



The inside of the front cover is a stock space for the float and hoses to be safe mobility and aesthetic design.

COOLANT SAVER PORTABLE TYPE-01

| | | |
|--------------------|--|------------------------------------|
| Model | YD-270FS-16CSPN | |
| Capacity | 1L/min ~ 5L/min | |
| Tem. to use | Max 50°C | |
| Weight / Dimension | 853H×W330×D841 | Approx. 60kg (Dry) |
| Float suction | Standard: 270W × 116D × 139H | Minimum liquid level to use : 80mm |
| Pump to collect | Diaphragm pump: Supplied air 0.2 ~ 0.7Mpa Main material: Exterior = Aluminium, Diaphragm = NBR Three-piece set of air supply (with Couplar 20PM) | |
| Separator | Capacity: Approx. 17.5L Mechanism: Separation by difference in specific gravity | |
| Strainer | Main body: Transparent PVC | Basket capacity: Approx. 1,200cc |
| Suction hose | Φ13 × 3m (PVC) | |
| Drain hose | Φ25 × 2m (PVC) S | |
| Option | Small float (Minimum liquid level to use 48.5mm) ※A pail is not included. Automatic stop device (Collection automatically stop when filling oil up) | |



※ It is subject to change without notice due to product improvement.

COOLANT SAVER

Fix • Motor YD-16CSN

COOLANT SAVER BOLT ON TYPE The compact to be reckoned with.

Small and high performance.
High efficient design with no waste.



The pump and separator come together. Compact, easy installation & reasonable.



Doughnut shape float is adopted and enable to collect from all directions.



If the liquid level declines to 60 mm, it is available.



The screw feeder pump is adopted and resistant to dry running and sludge. It reduces to be emulsion by agitation.



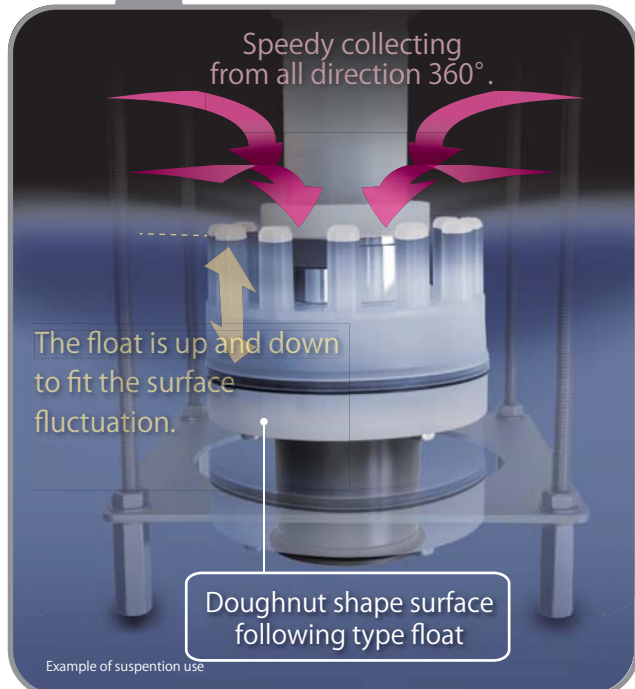
The fluctuation until 85mm is available. There are 2 types, 45mm & 85mm.



Easy maintenance for the separator without consumables.

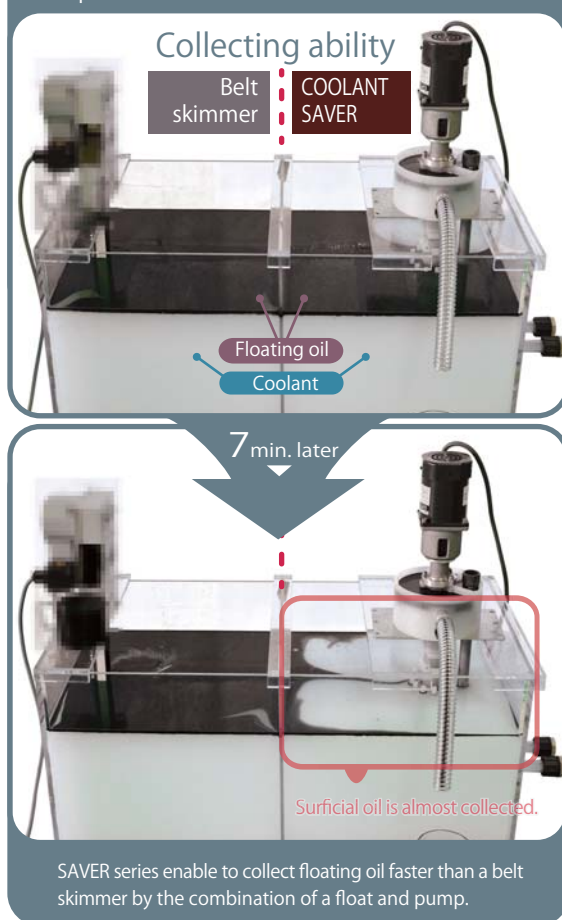


Example of suspension use



Example of suspension use

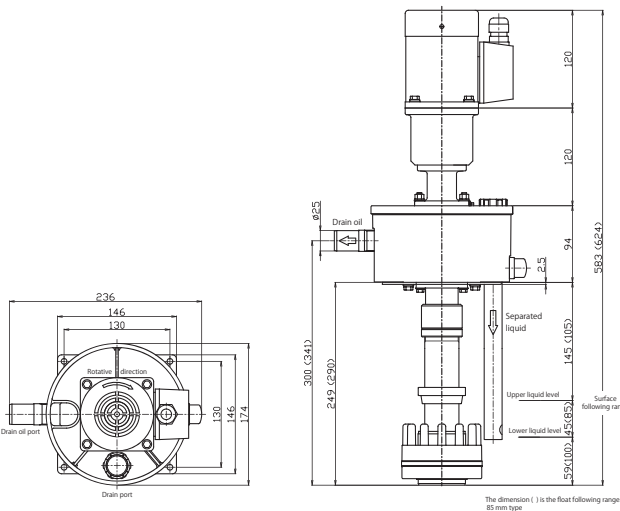
Comparison of COOLANT SAVER with Belt skimmer



SAVER series enable to collect floating oil faster than a belt skimmer by the combination of a float and pump.

COOLANT SAVER BOLT ON

| Model | YD-16CSN-250-45 | YD-16CSN-290-85 |
|------------------------|---|--|
| Heat proof temperature | Max 40°C | |
| Collecting ability | Approx. 1.2L/min | |
| Capacity | Approx. 1.2L/min | |
| Dimension | 236W×174D×583H(mm) | 236W×174D×624H(mm) |
| Weight | Approx. 5.1kg (S : Approx. 5.4kg) | Approx. 5.5kg (S : Approx. 6.1kg) |
| Main | Structure Doughnut shape surface following type float | |
| | 45mm | 85mm |
| | (Lower liquid level : 59mm, Upper liquid level : 104mm) | (Lower liquid level : 100mm, Upper liquid level : 185mm) |
| Installation | 146mm×146mm | |
| Pump | Structure Screw feeder | |
| | Main material PP, AL | |
| | Power 3 phase, 200V, 50/60Hz, 4P, 60w, Totally enclosed fan-cooled indoor motor | |
| Separator | Structure Separation by difference in specific gravity | |
| | Capacity Approx. 1L | |
| Standard accessory | Main material GFR-PP | |
| | Drain hose Φ25×0.5m (PVC) Hose band : 1 piece | |
| Option | Suspension SUS/SS | |
| | Protective net PE plastic net mesh size : 10mm | |



The dimension () is the float following range, 60 mm type

WASHING SAVER

YD-25CS Series

Large individual type • Fix • Motor

WASHING SAVER

Floating oil collecting system for washing machine

TYPE 400N
For shallow tank
YD-25CS400N-80F

TYPE 600N
Standard
YD-25CS600N-150F

TYPE 800N
For deep tank
YD-25CS800N-200F



The heat resistance is 90°C. It continuously works stably under the harsh conditions.



Floating oil on liquid is collected efficiently and speedy.



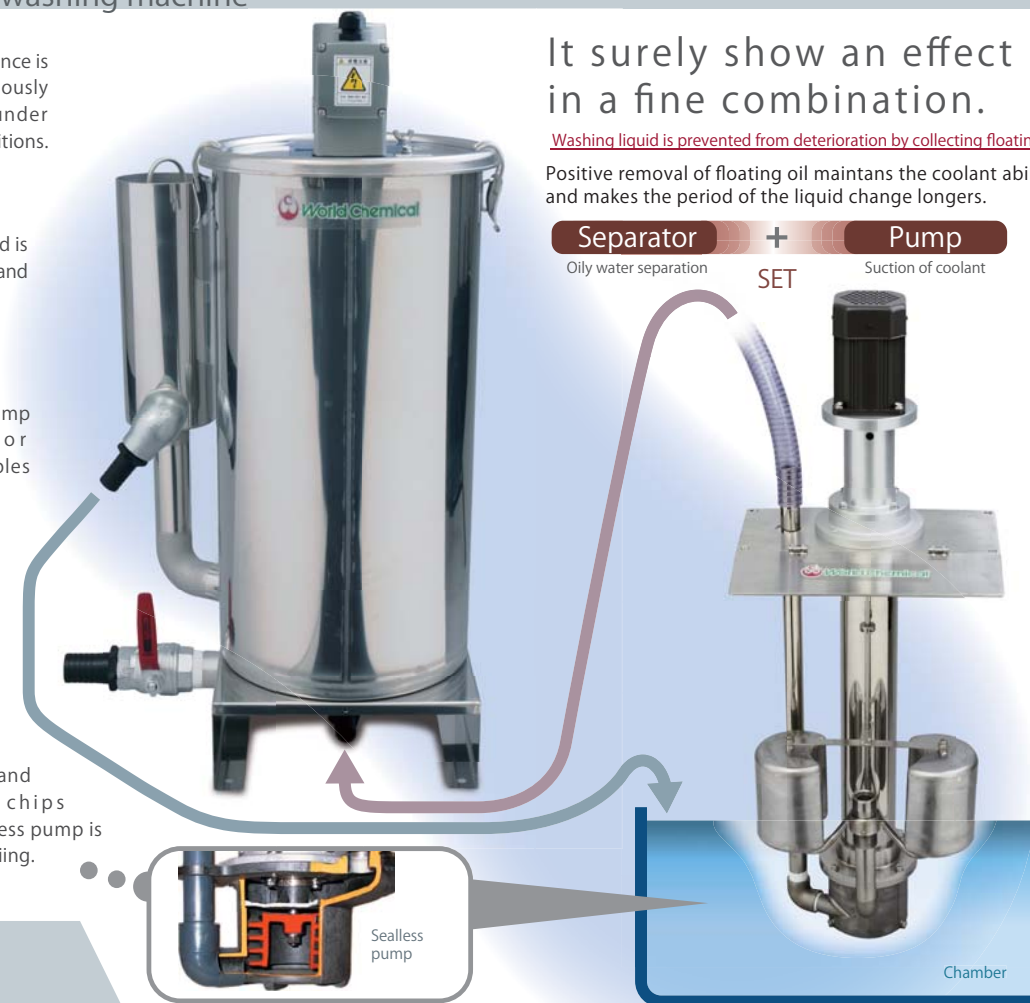
A sealless screw pump and a separator without consumables are combined.



The pump structure is hardly to agitate oily water.



A sealless screw pump is adopted and no trouble for chips entered. The sealless pump is resistant to dry running.



It surely show an effect in a fine combination.

Washing liquid is prevented from deterioration by collecting floating oil. Positive removal of floating oil maintains the coolant ability and makes the period of the liquid change longer.

Separator + Pump
Oily water separation SET Suction of coolant

Optional part

Scraper

(Only in Japan)

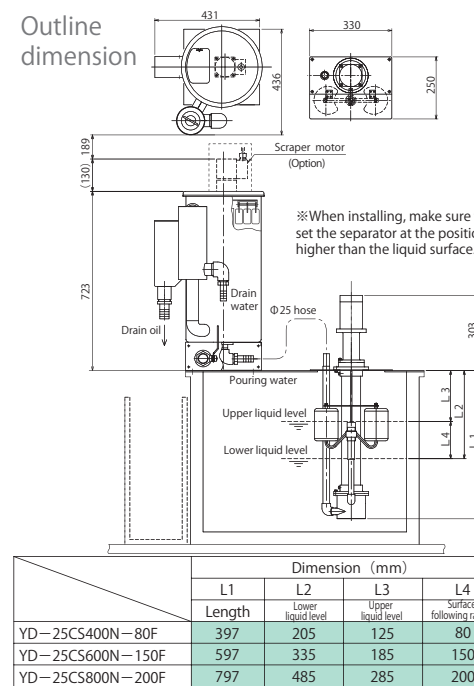
Special for WASHING SAVER

3 phase, 200V, 25W, Indoor, with Terminal box



The rotating blades scrapes high viscosity oil and oil with chips and surely discharges separated oil. The separator of SAVER series adopts the separation by difference of specific gravity. Oil is also discharged by the difference of specific gravity and natural drop. It is easy to discharge normal mineral oil by this method, but if oil is with chips and high viscosity, it may possible not to discharge it by the method. In this case, the scraper works efficiently. The blades of the scraper attached at the drain oil port rotates slowly and discharges high viscosity oil by compulsion.

Outline dimension



| | Dimension (mm) | | | |
|------------------|----------------|-----|-----|-----|
| | L1 | L2 | L3 | L4 |
| YD-25CS400N-80F | 397 | 205 | 125 | 80 |
| YD-25CS600N-150F | 597 | 335 | 185 | 150 |
| YD-25CS800N-200F | 797 | 485 | 285 | 200 |

WASHING SAVER YD-25CS series

| Spec. | Model | For shallow tank | Standard | For deep tank |
|-------------------------|---|--|------------------|------------------|
| | | YD-25CS400N-80F | YD-25CS600N-150F | YD-25CS800N-200F |
| Oil collecting amount | MAX 300L/hour (5L/min.) | | | |
| Temperature to use | Ordinary temperature ~ MAX 90°C | | | |
| Collecting method | Surface floating type pump | | | |
| Material | SUS304 / (A part of non wet parts is made of AL) | | | |
| Flow gate | The thickness of surficial oily water to collect is kept 5mm. (Fine adjustment is available.) | | | |
| Surface following range | 80mm | 150mm | 200mm | |
| Length (in tank) | 400mm | 600mm | 800mm | |
| Occupancy space | 330 × 250mm | | | |
| Structure | Sealless screw type pump | | | |
| Performance | Discharge: 5L(50Hz) / 6L(60Hz) T.H.D.: 1.5m | | | |
| Motor | 3 PH 200V 4P 90W Totally enclosed fan-cooled indoor motor | | | |
| Material | Casing | SUS304 | | |
| | Impeller | CFRPP molded | | |
| | Seal | No seal (Sealless structure: No mechanical seal) | | |
| | Bearing | PTFE | | |
| Shaft | SUS304 (Replacement of only shaft sleeve which is contact with bearing is available.) | | | |
| Separator | Structure | Separation by difference in gravity | | |
| | Material | SUS304 | | |
| | Drain oil | Overflow from oil drain port at the top of the separator | | |
| | Option | Scraper assy. (3PH 200V 25W Indoor geared motor) ※Only for Japan | | |
| Dimension | 421W × 426D × 723H (excluding the scraper motor) | | | |
| Standard accessory | Wire reinforced soft PVC flexibel hose Φ25 × 5 m, Φ38 × 1 m each one | | | |