

SAVER SERIES



Oil skimmer for machine tools
(Floating oil collecting system)
CSP / CSPN



Oil skimmer for machine tools
(Floating oil / precipitate slurry
collecting system)
CSPW



Oil skimmer for cleaning machine
(Floating oil collecting system)
25CS series

Pump & Oil collecting system
World Chemical Co., Ltd.

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Download
(Catalogue, Manual)

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■ Note

Coolant Saver Portable CSPN / CSP

SAVER SERIES

< Model designation >

YD - 270FS - 16CSPN - F - S

Float size	Model	Type	Stop device
270 : Standard 200 : Small type	16CSPN : Standard 16CSP : Compact type	No mark : Portable (Standard) F : Fix type	No mark : Not attached (Standard) S : Equipped with Automatic full oil stop device

< Applications >

It collects oil floating on the coolant.
 • Collecting floating oil in coolant tanks for machine tools.

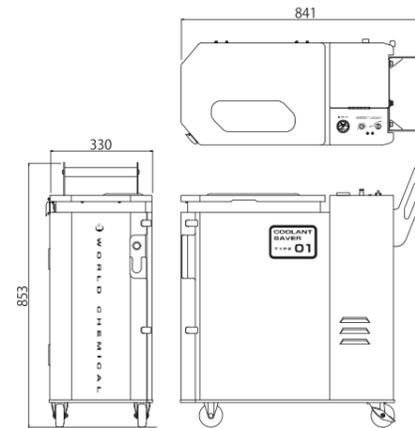
< Advantages >

Work process reduction **Cost reduction** **Work environment conservation**

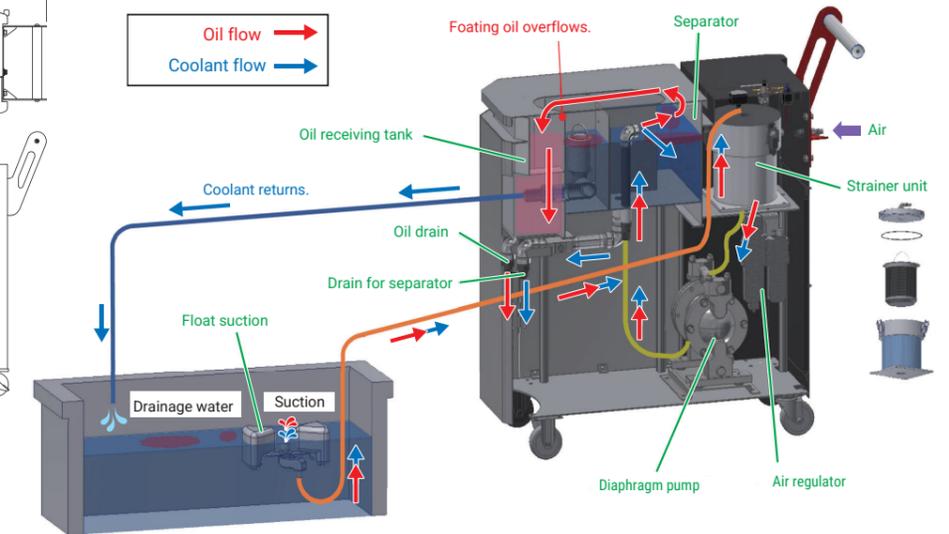
- Air-driven system eliminates the need for complicated electrical work.
- Oil-water separation is achieved by using a specific gravity difference method, eliminating the need to replace consumables such as filters.
- It is equipped with casters so it can be moved around the factory, allowing one unit to handle multiple machine tools.
- This is a wagon type that allows the float and hose to be stored inside the main body.
- Preventing deterioration of the coolant helps maintain the quality of machined parts.
- Since the fluid change interval is extended, the amount of coolant consumed and the amount of waste, resulting in cost savings.



< Outline drawings >



< Flow diagram >



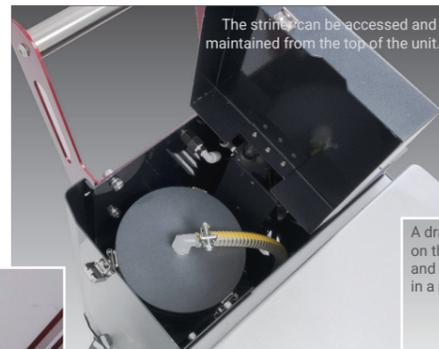
< Specifications >

Model	YD-270FS-16CSPN	YD-270FS-16CSP
Collecting capacity	1~5 L/min	
Operating temp.	Max 50 °C	
Dimension	W330 × D841 × 853H	W330 × D560 × 958H
Weight	Approx. 60 kg (Dry)	Approx. 25 kg (Dry)
Float suction (Standard)	Dimension : W270 × D116 × 139H (Outline) Minimum liquid level : 80 mm	
Collecting pump	Diaphragm type / Supply air pressure : 0.2 ~ 0.7Mpa Main material : Exterior = Aluminum, Diaphragm = NBR Air 3 piece set (with a Coupler 20PM male)	
Separator	Approx. 12.5 L / Specific gravity separation	Approx. 17.5 L / Specific gravity separation
Strainer	Main body material : PVC (Transparent) / Basket capacity : Approx. 1,200 cc	
Suction hose	φ13×3m PVC	
Drain hose	φ25×2m PVC	
Option	Small float (Minimum liquid level : 48.5 mm) Automatic stop device (Collecting is automatically stops when the drain oil is full.) ※ Pails are not included.	

Compact type
YD-270FS-16CSP
 Easier installation, maintenance and cleaning for small and lightweight.

< Features >

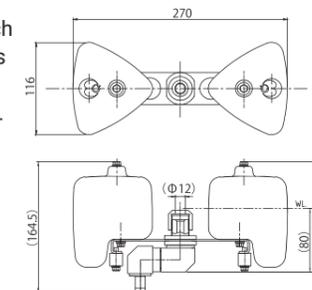
- This one unit can collect floating oil, remove foreign objects, and separate oil and water.
- The oil-water inlet follows the liquid level in the tank by floats, so floating oil can be collected continuously and efficiently.
- A strainer unit is standard equipment and prevents large foreign objects and slurry from entering the pump, reducing problems such as pump failure and foreign object settling in the separator.
- Oil-water separation uses a method based on specific gravity differences, and there are no consumables such as filters that require regular replacement.
- By installing the optional full oil stop device, oil-water collection automatically stops when the drain oil receiving tank becomes full.



Float

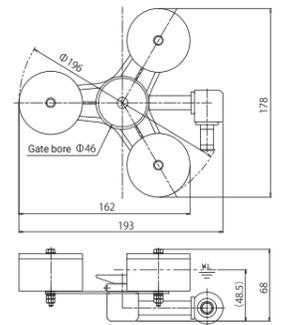
270FS <Standard>

The three point swivel joint which is not easily affected by hoses is adopted. It steady collects surface oil.



200FS <Small type>

It works well in tight spaces and shallow tanks.



Coolant Saver Portable Hybrid CSPW

SAVER SERIES

< Model designation >

YD - 270FS - 12CSPW

Float size

270 : Standard
200 : Small type

Model

< Applications >

2 roles in 1 unit

It collects oil floating on the coolant and precipitate slurry.

- Collecting floating oil in coolant tanks and precipitate slurry for machine tools.

< Advantages >

Work process reduction

Cost reduction

Work environment conservation

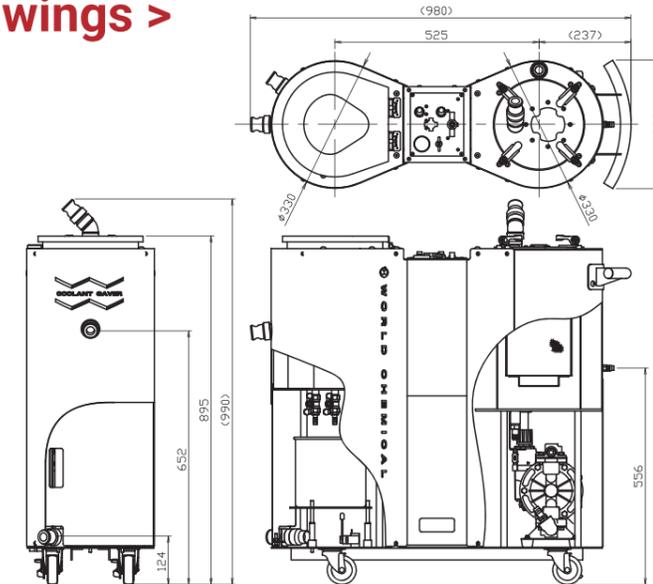
- Air-driven system eliminates the need for complicated electrical work.
- Oil-water separation is achieved by using a specific gravity difference method, eliminating the need to replace consumables such as filters.
- The collected slurry is stored in a pail, so there are no consumables and it can be easily disposed of without getting your hands dirty.
- It is equipped with casters so it can be moved around the factory, allowing one unit to handle multiple machine tools.
- This is a wagon type that allows the float and hose to be stored inside the main body.
- Preventing deterioration of the coolant helps maintain the quality of machined parts.
- Since the fluid change interval is extended, the amount of coolant consumed and the amount of waste, resulting in cost savings.

< Features >

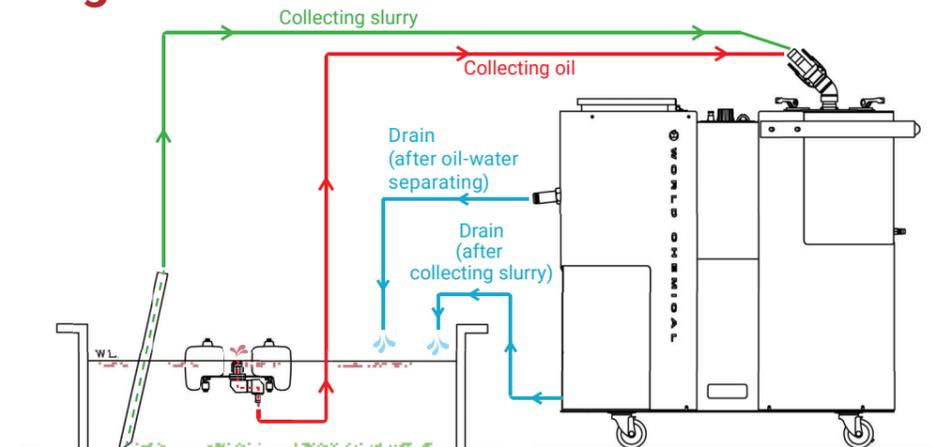
- This one unit can collect floating oil, remove floating foreign objects, and separate oil and water.
- The oil-water inlet follows the liquid level in the tank by floats, so floating oil can be collected continuously and efficiently.
- A strainer unit is standard equipment and prevents large foreign objects and slurry from entering the pump, reducing problems such as pump failure and foreign object settling in the separator.
- Oil-water separation uses a method based on specific gravity differences, and there are no consumables such as filters that require regular replacement.
- By installing the full oil stop device, oil-water collection automatically stops when the drain oil receiving tank becomes full.
- Operation switches, flow rate adjustment, and other controls are all located in the center of the product, making it easy to perform various operations.



< Outline drawings >



< Flow diagram >



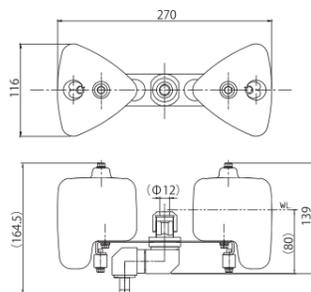
< Specifications >

	Oil collecting	Slurry collecting
Model	YD-270FS-12CSPW	
Collecting capacity	Oil-water collecting 1 ~ 5 L/min.	Liquid with slurry ~ 30 L/min.
Operating temp.	Max 50°C	
Dimension	980W x 330D x 990H (mm)	
Weight	Approx. 75 kg (Dry)	
Suction for collecting (Standard)	[Float] Material : PE, PP, SUS Dimension : W270 x D116 x 139H (Outline) Hose : φ13 x 2.5 m (PVC) ※ Minimum liquid level : 80 mm	[Nozzle] Material : PVC Dimension : φ26 (20A) x L700 Hose : φ25 x 2.5 m (PVC)
Collecting pump	Diaphragm pump (Main material : Exterior=Aluminum, Diaphragm=NBR)	
Supply pressure to pump	0.4Mpa	
Regulator valve	Air two set (Supply port : with 20PM male plug)	
Separator	Capacity : Approx. 12 L, Specific gravity separation	
Strainer	Main material : SUS, Basket material : SUS (Capacity: Approx. 6 L) (Mesh: 1 mm)	
Drain hose	φ25x1.5 m (PVC)	φ25x2 m (PVC)
Standard equip.	• Automatic stop device (Automatically stops collecting when the drain oil is full.), 4 L pail	
Option	• Small float (Minimum liquid level : 48.5 mm), Scraper unit (The parts for forced oil drain) • Strainer Bag Filter (100 μ, 50 μ)	

Float

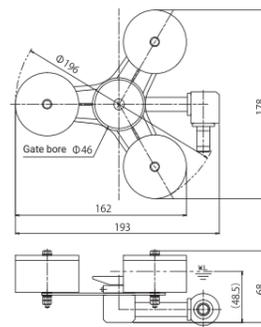
270FS <Standard>

The three point swivel joint which is not easily affected by hoses is adopted. It steady collects surface oil.



200FS <Small type>

It works well in tight spaces and shallow tanks.



Cleaning Saver YD-25CS series

SAVER SERIES

< Model designation >



< Applications >

The oil floating in the cleaning liquid is collected, and the liquid and oil are separated and discharged.

- Collecting of floating oil from a workpiece washing machine.
- Purification of cleaning liquid in alkaline degreasing process.

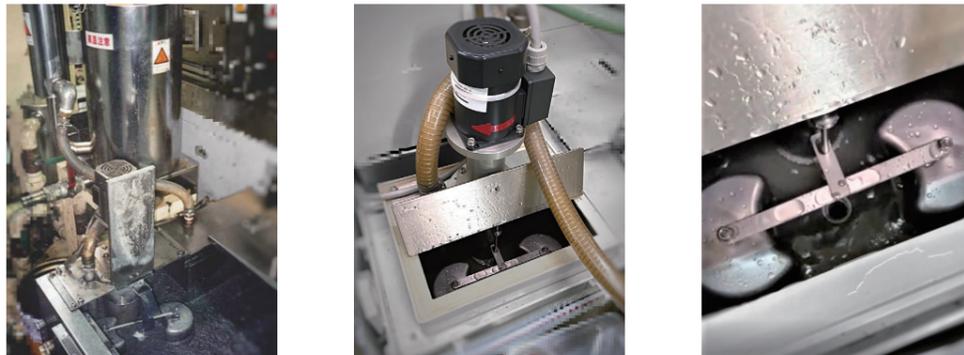
< Advantages >

Work process reduction Cost reduction Work environment conservation

- Prevents deterioration of coolant liquid and maintains cleaning performance.
- The cycle of liquid replacement is extended, and the amount of cleaning liquid consumed and drained is reduced, leading to cost reduction.
- The combination of a sealless pump and a separator with no consumables makes maintenance easy.

< Features >

- It can also be used for high temperature (until 90 degrees) liquids mixed with slurry.
- The oil water inlet follows the liquid surface via a float, so the floating oil is continuously and efficiently collected.
- The pump has no shaft seal, so it will not break down even if it runs dry.
- The separator adopts a specific gravity separation method, so there are no consumable parts that need to be replaced periodically.



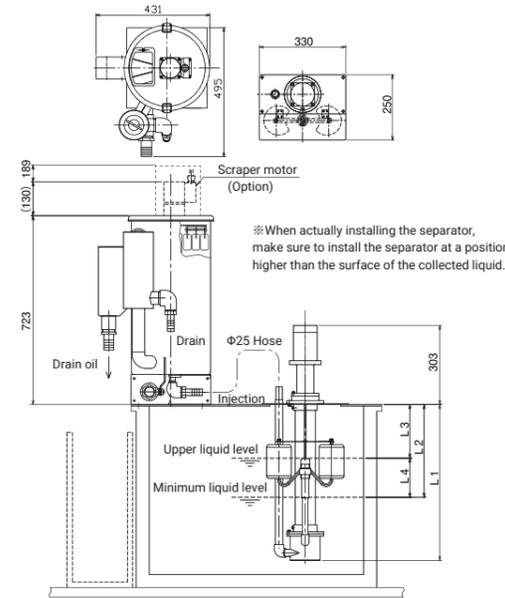
Option : Scraper (Part for forced oil discharge)

Special for coolant saver
 Input : 3PH, 200V
 Output : 25W Indoor type
 with Terminal box



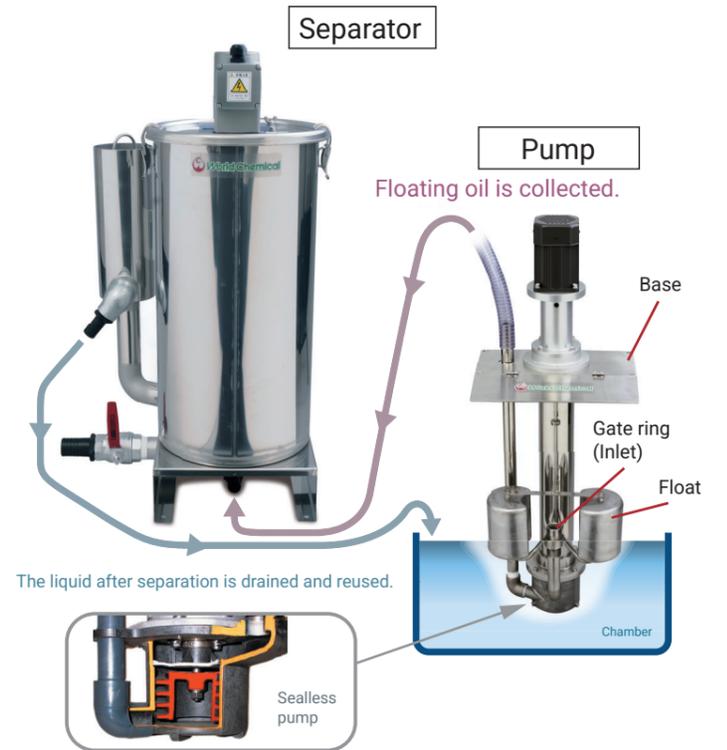
By attaching a scraper to the oil drain port, surface layer oil is scraped out and discharged. It is also effective for oils with poor fluidity due to high viscosity or oil that have been mixed with slurry.

< Outline drawings >



Model	Dimension (mm)			
	Pump Length	Min. liquid level	Upper liquid level	Following range
YD-25CS400N-80F	397	205	125	80
YD-25CS600N-150F	597	335	185	150
YD-25CS800N-200F	797	485	285	200

< Flow diagram >



< Specifications >

Model	For Shallow tanks	Standard type	For Deep tanks	
	YD-25CS400N-80F	YD-25CS600N-150F	YD-25CS800N-200F	
Spec.	Collected oil amount	Max. 5 L / min.		
	Operating temp.	Ambient temperature ~ Max. 90 °C		
Pump	Collecting method	Surface following type skimmer integrated with a float & pump		
	Material	SUS304 (Some parts in the wet parts kit is made of AL.)		
	Inlet gate	The surface oil and water inflow thickness is kept at 5 mm. (Fine adjustment is possible.)		
	Liquid level following range	80 mm	150 mm	200 mm
	Pump length (in tank)	400 mm	600 mm	800 mm
	Occupied space on liquid	330 × 250 mm		
	Structure	Sealless screw type pump		
	THD - Capacity	50Hz : 1.5 m - 5 L/min. 60Hz : 1.5 m - 6 L/min.		
	Motor	3 φ200V / 4P / 90W / Total closed indoor motor		
	Material	Casing	SUS304	
Impeller		CFR PP Molded		
Shaft seal		No (Sealless structure without a mechanical seal)		
Bearing		PTFE		
	Shaft	SUS304 (It is possible to replace only the shaft sleeve which contacts with the bearing.)		
Separator	Structure	Difference in specific gravity separation method		
	Material	SUS304		
	Thick oil drain method	Automatic overflow from the oil drain port at the top of the separator.		
	Option	Scraper unit (Part for forced oil discharge, 3φ 200V 25W Indoor geared motor)		
	Outline dimension	W431 × D495 × 723H (mm) (With a scraper : +189H)		
	Weight	20 kg (With a scraper : 23 kg)		
	Capacity	35 L		
	Standard accessory	Wire reinforced soft PVC flexible hose φ 25 × 5 m, φ38 × 1 m Each one piece.		