

SAVER SERIES



Floating oil collecting system
for machine tool
CSPN



Floating oil / precipitated slurry
collecting system for machine tools
CSPW



Floating oil collecting system
for coolant
25CS series

Floating oil collecting system for tools Air drive Portable

Coolant Saver Portable CSPN / CSP

SAVER SERIES

<Model description>

YD - 270FS - 16CSPN - F - S

Float size

270 : Standard
200 : Small type

Model

Type
No mark : Portable
(Standard)
F : Fix

Stop device

No mark : Without device (Standard)
S : With full oil stop device

<Use>

Floating oil on coolant is collected.

- Collection of floating oil in coolant tanks for machine tools.

<Advantages>

Work process reduction Cost reduction Work environment conservation

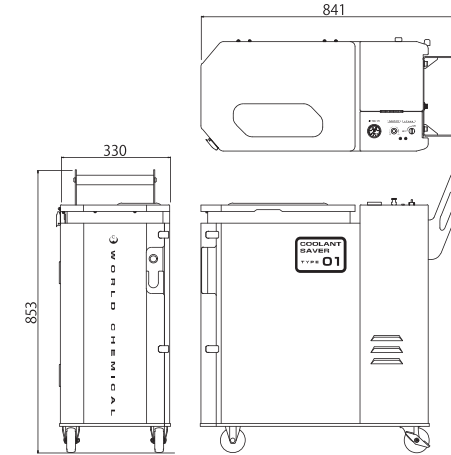
- No need troublesome electric works due to the air drive.
- No need to replace consumable parts like filters due to separation by the difference in specific gravity.
- One machine can be moved around the site with casters and used for multiple machine tools.
- The float and hoses can be allowed inside.
- It prevents deterioration of coolant liquid and leads to maintenance of quality of processed parts.
- The cycle of liquid replacement is extended and coolant consumption and drainage are reduced, leading to cost reduction.

<Features>

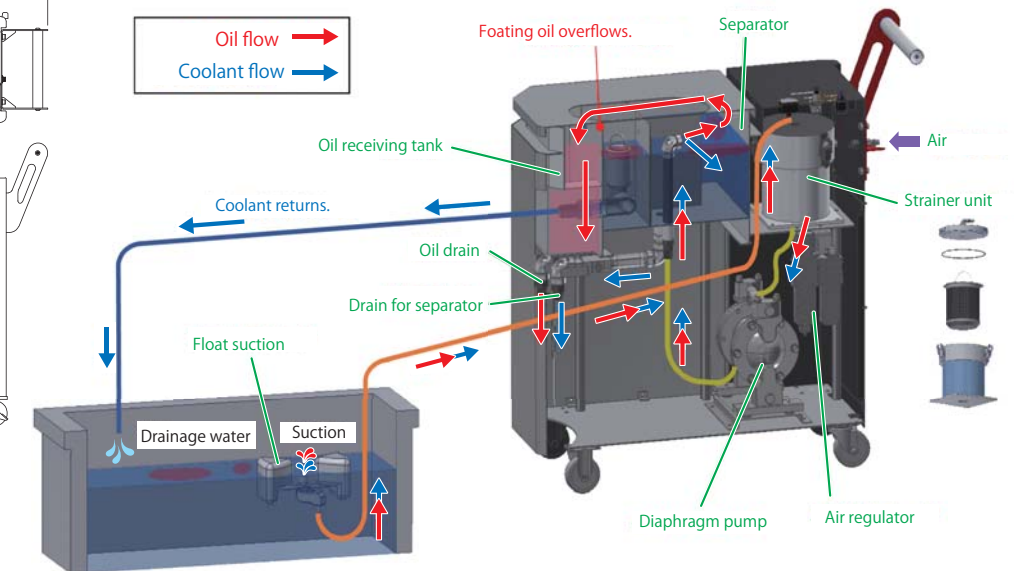
- Floating oil collection, foreign matter removal and oilywater separation can be performed with one unit.
- Since the inlet for oil follows the liquid surface of the tank by the float, the floating oil is collected continuously and efficiently.
- A strainer unit as standard prevents large foreign matter and slurry from entering the pump and reduces problems such as pump failure and sedimentation of foreign matter in the separation tank.
- It adopts difference in specific gravity separation and there are no consumables such as filters that need to be replaced periodically.
- By a oil full stop device as an option, the collection of oily water is automatically stopped when the receiving tank is full.



<Outline drawing>



<Flow diagram>



<Specification>

Model	YD-270FS-16CSPN
Oil collected amount	1~5 L/min
Operating temp.	Max 50°C
Dimension	W330×D841×853H
Weight	Approx. 60kg (Dry)
Float suction (Standard)	Dimension : W270×D116×139H (Approx.) Minimum liquid level : 80mm
Collection pump	Diaphragm type supply air pressure : 0.2~0.7Mpa Main material : Exterior=Aluminum Diaphragm=NBR Air three piece set (Coupler 20PM with plug)
Separator	Capacity : Approx. 12.5L / Structure : Difference in S.G. separation
Strainer	Main material : PVC (Transparent) / Basket : Approx. 1,200cc
Suction hose	φ13×3m made of PVC
Drain hose	φ25×2m made of PVC
Option	Small float (Minimum liquid level : 48.5mm) Automatic stop device (Collection automatically stops when the drained oil is full.) ※Pail is not included.

Compact type

YD-270FS-16CSP

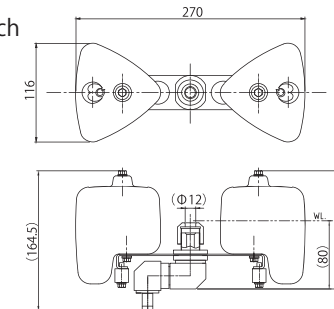
Compact and lightweight for easier installation, maintenance and cleaning (same performance as CSPN type)



Float

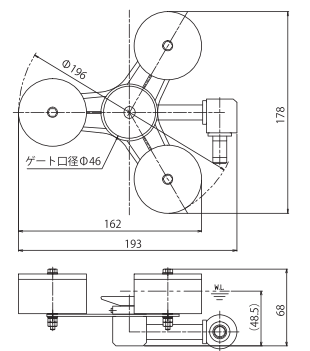
270FS<Standard>

The three point swivel joint which is not easily affected by hoses is adopted. Steady recovery of surface oil.



200FS<Small type>

It works well in tight spaces and shallow tanks.



Coolant Saver Portable Hybrid CSPW

SAVER SERIES

<Model description>

YD - 270FS - 12CSPW

Float size
270 : Standard
200 : Small type

Model



<Use>

2 roles in 1 unit

Floating oil on coolant and precipitated slurry are collected.

- Collection of floating oil in coolant tanks for machine tools and precipitated slurry.

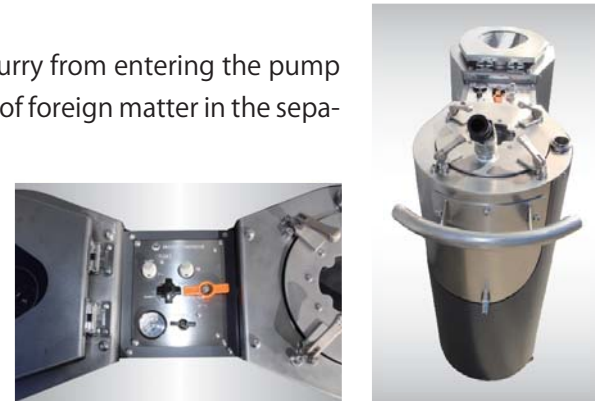
<Advantages>

Work process reduction Cost reduction Work environment conservation

- No need troublesome electric works due to the air drive.
- No need to replace consumable parts like filters due to separation by the difference in specific gravity.
- Since the collected slurry is stored in a pail, there are no consumables and it can be easily processed without getting your hands dirty.
- One machine can be moved around the site with casters and used for multiple machine tools.
- The float and hoses can be allowed inside.
- It prevents deterioration of coolant liquid and leads to maintenance of quality of processed parts.
- The cycle of liquid replacement is extended and coolant consumption and drainage are reduced, leading to cost reduction.

<Features>

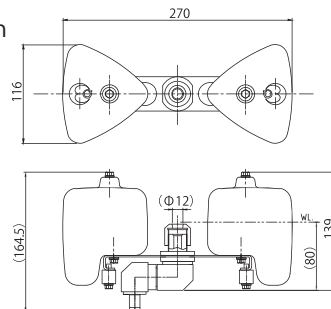
- Floating oil collection, foreign matter removal and oilywater separation can be performed with one unit.
- Since the inlet for oil follows the liquid surface of the tank by the float, the floating oil is collected continuously and efficiently.
- A strainer unit as standard prevents large foreign matter and slurry from entering the pump and reduces problems such as pump failure and sedimentation of foreign matter in the separation tank.
- It adopts difference in specific gravity separation and there are no consumables such as filters that need to be replaced periodically.
- By a oil full stop device, the collection of oily water is automatically stopped when the receiving tank is full.
- Various operations can be easily performed because the operation unit is concentrated in the center.



Float

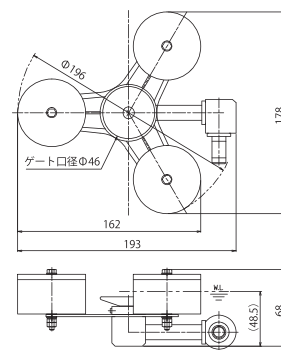
270FS<Standard>

The three point swivel joint which is not easily affected by hoses is adopted. Steady recovery of surface oil.

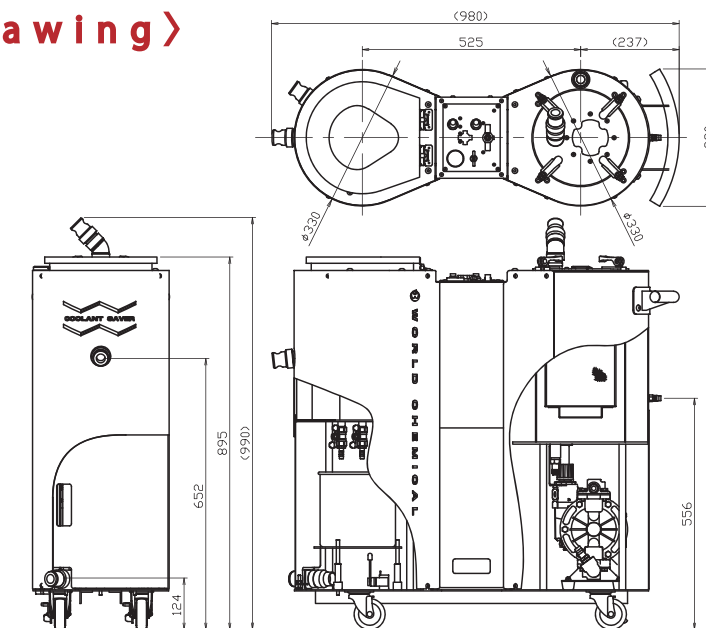


200FS<Small type>

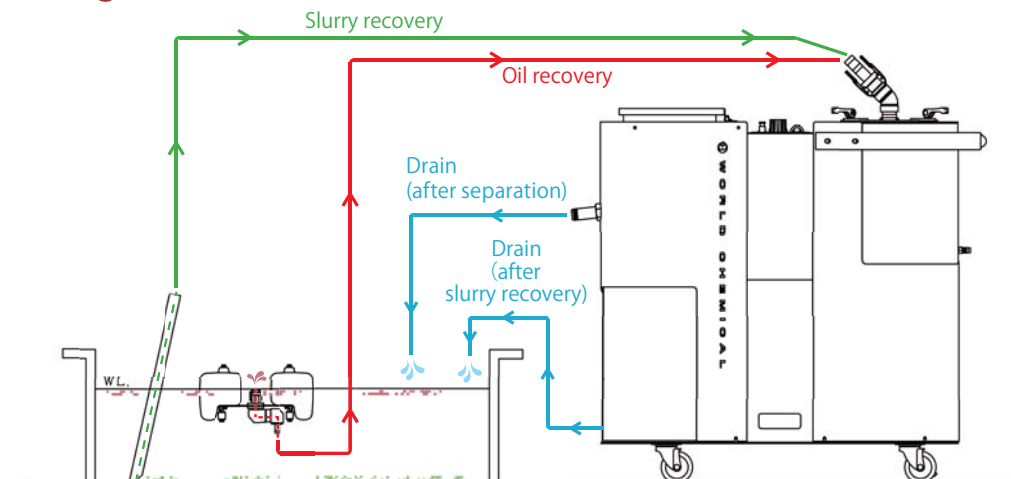
It works well in tight spaces and shallow tanks.



<Outline drawing>



<Flow diagram>



<Specification>

	Oil collection	Slurry collection
Model	YD-270FS-12CSPW	
Collected amount	Oil collection 1 ~ 5L/min.	Slurry ~ 30L/min.
Operated temp.	Max 50°C	
Dimension	980W×330D×990H (mm)	
Weight	Approx. 75kg (Dry)	
Suction for collection (Standard)	[Float] Material : PE, PP, SUS Dimension : W270×D116×139H (Outline) Hose : φ13×2.5m (Made of PVC) ※ Minimum liquid level : 80mm	[Nozzle] Material : PVC Dimension : φ26(20A)×L700 Hose : φ25×2.5m (Made of PVC)
Collection pump	Diaphragm pump (Main material : Exterior=Aluminum、Diaphragm=NBR)	
Supply pressure	Recommended : 0.4Mpa	
Regulator valve	Air two point set (Supply port : 20PM with plug)	
Separator	Capacity : Approx. 12L / Difference in S.G. separation	—
Strainer	Main material : SUS / Bucket material : SUS(Capacity approx. 6L) (mesh 1mm)	
Drain hose	φ25×1.5m / Made of PVC	φ25×2m / Made of PVC
Standard equip.	• Automatic stop device (Collection automatically stops when the drained oil is full.) • 4L pail	
Option	• Small float (Min. liquid level : 48.5mm) • Scraper unit (Part for forced oil discharge) • Strainer bug filter (100μ, 50μ)	

Coolant Saver YD-25CS

SAVER SERIES

<Model description>

YD - 25

CS

400N - 80F

Bore

Model

Pump length (in tank)

Follow up range

400N-80F : For shallow tank
600N-150F : For standard tank
800N-200F : For deep tank

<Use>

Floating oil on coolant is collected, and the liquid and oil are separated and discharged.

- Collection of floating oil in a scrubber.
- Purification of coolant 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 coolant 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 (90 degrees and over) liquids mixed with slurry.
- Since the oily water inlet follows the liquid surface by means of a float, oil can be collected continuously and efficiently.
- Since the pump is no seal structure, it is not malfunction even if it runs dry.
- The separator adopts a specific gravity separation and there are no consumables that require periodic replacement.



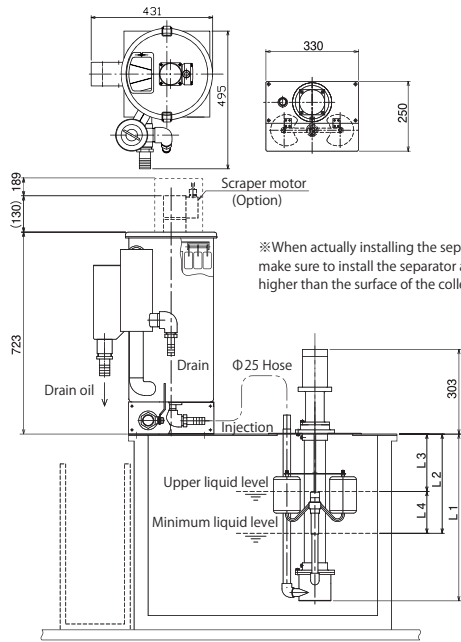
Option : Scraper (Forced oil drain part)

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



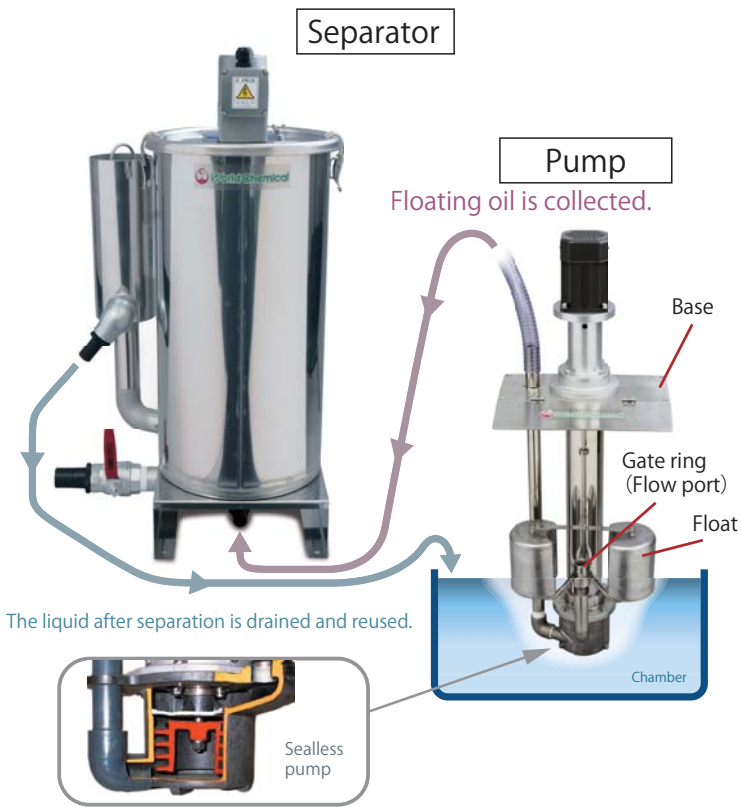
By attaching a scraper to the oil drain port, surface layer oil is scraped out and discharged.
It is effective even for oil with poor fluidity due to high viscosity oil or slurry mixed in.

<Outline drawing>



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

<Flow diagram>



<Specification>

Model		Shallow tank type	Standard type	Deep tank type
		YD-25CS400N-80F	YD-25CS600N-150F	YD-25CS800N-200F
Spec.	Collected oil amount	MAX5L /min.		
	Operated temp.	Normal temperature ~ MAX 90℃		
Collection pump	Collection method	Surface following type skimmer integrated with a float & pump		
	Material	SUS304 (Some parts in the wet parts kit is made of AL.)		
	Flow gate	The surface oil and water inflow thickness is kept at 5 mm. (Fine adjustment is possible.)		
	Fluctuation flow range	80mm	150mm	200mm
	Pump length (in tank)	400mm	600mm	800mm
	Occupied space	330 × 250mm		
	Structure	Sealless screw type pump		
	THD - Capacity	50Hz : 1.5m-5L/min. 60Hz : 1.5m-6L/min.		
	Motor	3 φ 200V 4P 90W Total close indoor motor (Japanese domestic specification product)		
	Material	SUS304		
Separator	Casing	SUS304		
	Impeller	CFRPP Molded		
	Shaft seal	No (Sealles structure without a mechanical seal)		
	Bearing	PTFE		
	Shaft	SUS304 (It is possible to replace only the shaft sleeve which contacts with the bearing.)		
	Structure	Difference in specific gravity separation method		
	Material	SUS304		
	Thick oil discharge	Overflow from the oil drain port at the top of the separator.		
Option	Option	Scraper unit (Forced oil drain part, 3 φ 200V 25W Indoor geared motor) ※ Exclusively for Japan		
	Outline	W431 × D495 × 723H (mm) (With a scraper : +189H)		
	Weight	20kg (With a scraper23kg)		
	Capacity	35L		
	Standard accessory	Wire reinforced soft PVC flexible hose φ 25 × 5m, φ 38 × 1m Each one piece.		



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