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■Note:

● The catalogue contents are subject to change without notice due to product improvement. This is issued in September, 2018



Floating Objects / Oil Collecting Pump

GYROSKIMMER

YD-600GYP
MODEL CHANGE
 Pump: Stainless body

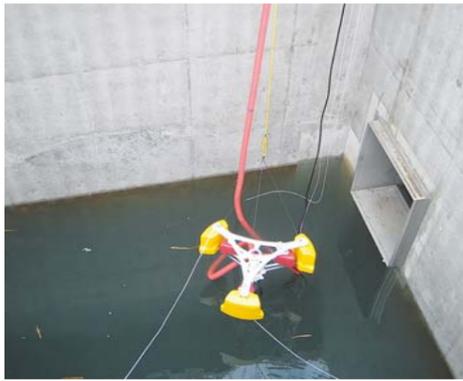


1995 • 2001 Good design Award	2003 Valor Award	World patented Double float in 12 countries.
		 35th EXCELLENT ENVIRONMENTAL AWARD Administrator of SME prize



GYROSKIMMER Fulfill lineup !!

You can select the floating pump for the desired ability.



In a rainwater pit



In a coolant tank

USE

- 1 For collecting / transferring floating oil in a coolant pit!
- 2 For collecting / transferring floating oil with abrasive substance such as chips, shavings and slurry!
- 3 For collecting / transferring scum in a waste water treatment plant!
- 4 For collecting / transferring floating oil when cleaning contaminated soil!
- 5 For collecting emergency spilled oil in a river, port or harbor!
- 6 For collecting floating oil in a site which is hard to keep warm in cold climates!
- 7 For collecting floating resin pellet or resin powder!

Feature

- 1 World patented double float structure makes the pump lithely follow ocean waves and liquid level changes, and **continuously** collects surface oil.
- 2 The floating pump skimmer is possible to both collect and transfer liquid.
- 3 Oil with high abrasive substance, earth, sand and others is also stably collected. (YD-810GYP)
- 4 Two types of powers are lined up, single phase / 100V & three phase for industrial version. (except YD-1200GYP)
- 5 It consists AL-molded parts (powder coating) and a light SUS & resin pump. Approximately 40% lighter than traditional models.



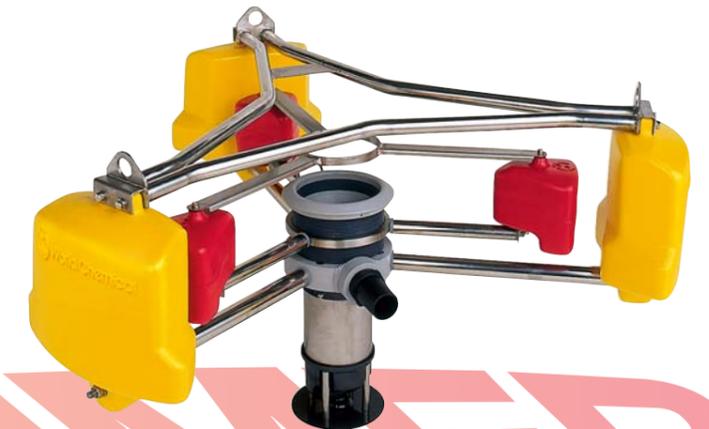
YD-600GYP



YD-800GYP



YD-1000GYP



YD-1200GYP

**YD-600GYP
MODEL CHANGE**

Pump: Stainless body

The model name is changed from YD-602GYP to YD-600GYP.

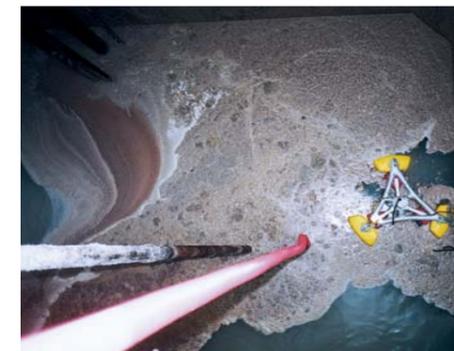
GYROSKIMMER, which is imaged a gyrocompass, always keep horizontal on the water surface and collect surface oil.

GYROSKIMMER was named after a gyrocompass. A gyrocompass needs to keep horizontal in order to point the right direction, so it was designed to keep horizontal even it tilted in any angle by gyroscope. Although an oil skimmer also needs to keep horizontal to the water surface to collect it properly, the typical skimmer can not hold horizontal because of the unstable waves. To solve this problem, we invented a "Double float structure" (world patented) to keep the skimmer horizontal to the water surface even the unstable waves hit it. That is why the movement of double float is overlapped with a gyrocompass, and named GYROSKIMMER.



Excellent collecting capability

Collecting site of oil-based scum which is floating in a food factory.



At the start of collection



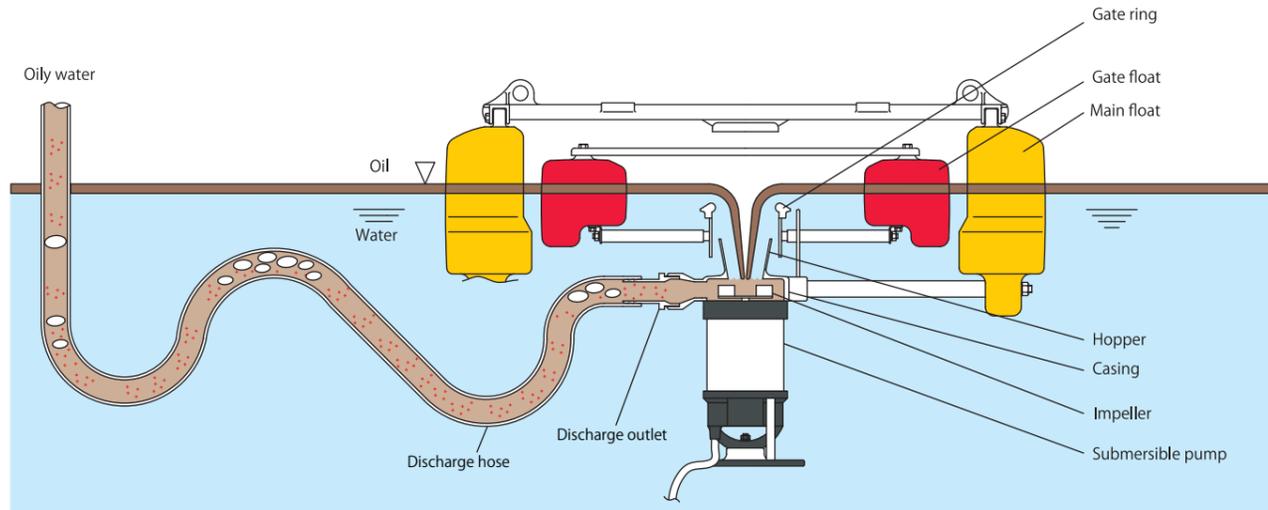
After 2.5 hours

Double float structure

Surficial oil is usually widespread and not very thick. When collecting surficial oil, "How to reduce excess water and raise the efficiency of oil collection" is of utmost importance in the design of Skimmer. Our internationally patented Double Float structure makes the skimmer flow the fluctuation of waves smoothly and collect surficial oil continuously.



<Sample picture>
The above shows the hopper which is not shown usually by the gate ring is displaced upward.



Specification

Product name	Floating skimmer with a submersible pump				
Use condition	Waste water at normal temperature to 40°C MAX (Not suitable for acid & liquid with organic solvent)				
Target	Mineral oil, animals and plants oil, scum or powder on the water				
Model	YD-600GYP	YD-800GYP	YD-1000GYP	YD-1200GYP	
Pit size (approx.)	1m×2m	2m×3m	3m×3m	5m×5m	
Spec.	Performance	TDH 4m×15L/min.	TDH 4m×40L/min.	TDH 7m×50L/min.	TDH 7m×100L/min.
	Output	3φ200V 0.15kW 50/60Hz	3φ200V 0.25kW 50/60Hz	3φ200V 0.4kW 50/60Hz	3φ200V 0.75kW 50/60Hz
	Diameter	φ560×580H (mm)	φ800×658H (mm)	φ1000×647H (mm)	φ1200×680H (mm)
	Weight	Approx. 13kg	Approx. 22kg	Approx. 23kg	Approx. 28kg
	Bore	φ25 hose joint	φ38 hose joint	φ38 hose joint	φ50 hose joint
Submersible pump	Main body	SUS304			
	Impeller	Glass fiber reinforced ABS resin			
Material	Shaft seal	Double mechanical seal			
	Frame	AC (Polyester resin powder coating)			
	Casing	SCS13	AC (Polyester resin powder coating)	PVC	
	Float	Main float / Gate float : PE plastic molded part (exclusive)			
Accessory	Cable	Cabtyer cable for submersible pump : VCT×6m			
	Discharge hose	Flexible hose φ25×5m	Flexible hose φ38×5m	Flexible hose φ38×5m	Flexible hose φ50×5m

Spec. Change	Cable extension	Cabtyer cable extension for submersible pump : 10m / 15m / 20m / Consult us, if you need 25m and more.
	Cable material	Cabtyer cable: Material change is available. : Standard "VCT" to "2PNCT" is available.
	Voltage	Voltage change for submersible pump is available (in case of "three phase")
	Phase	Single phase 100V (YD-600GYP series / YD-800GYP series / YD-1000GYP series)
	Hose extension	If the hose would like to be extended, please let us know the deired hose length.

Option	Exclusive scraper	Compact geared motor 4rpm * Driving voltage : Transform primary power source from AC200V into DC24. ※ When assembling the exclusive scraper, "X" is attached in the suffix position of the model name. (ex. YD-1000GYP → YD-1000GYPX) ※ YD-1200GYP is not adopted the scraper.
	Against dirt	Anti-dust fence (PP) is available all-around GYROSKIMMER.
	Guide ring	Guide ring is attachable at three position around the main float to fix the skimmer.

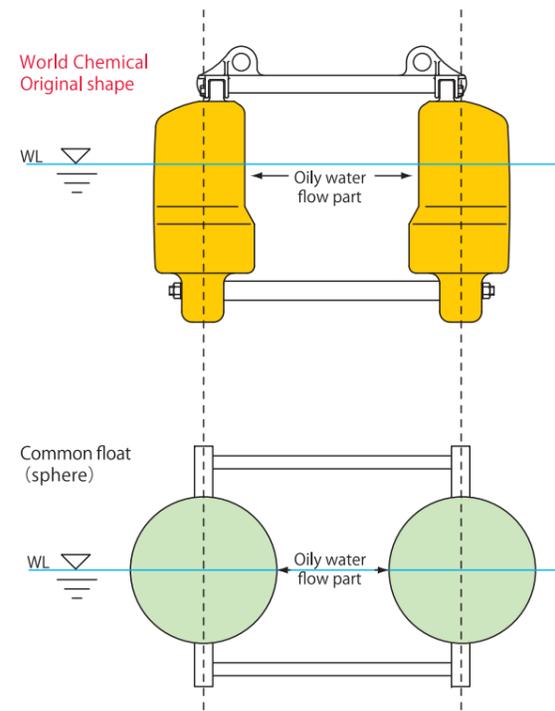
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Special-molded main float

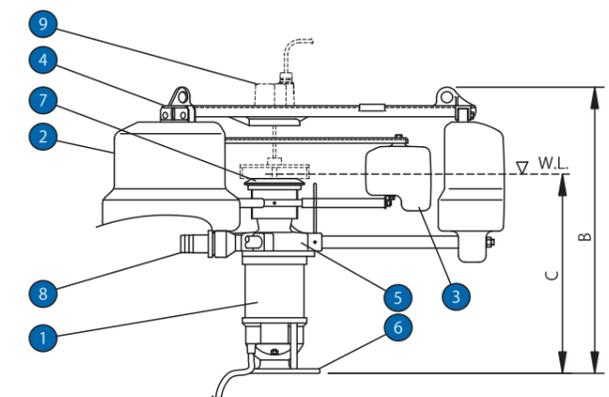
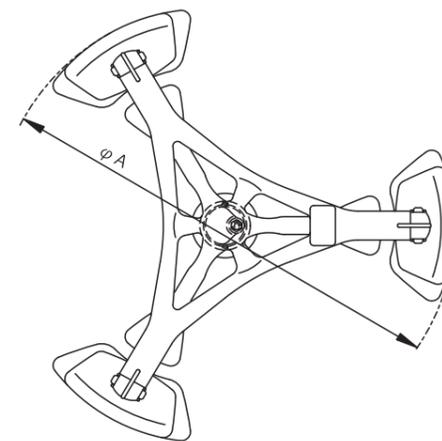
We, which have enough of a track record and experience of oil skimmer, are concerned with our original design of the float.

Our original float, which is designed the draft of the main float is thinned down and the oily water flow part is widened, is possible to make thick oil and scum flow into the pump. The necessary buoyancy to float GYROSKIMMER is secured for widening the underwater parts to prevent the floating objects' inflow.

The common float is shaped sphere and and the oily water flow part between floats is narrowed.



Outline



	A (Outer diameter)	B (Height)	C (Draft)
YD-600GYP	φ560	580	439
YD-800GYP	φ800	658	455
YD-1000GYP	φ1000	647	452
YD-1200GYP	φ1200	680	500

q	Submersible pump
w	Main float
e	Gate float
r	Main float frame
t	Casing

y	Cable protective base
u	Gate ring
i	Hose joint
o	Scraper Assy. (Opeion)

Heavy duty type

- Use**
1. To collect / transfer floating oil with cutting powder in a centralized coolant tank.
 2. To collect / transfer floating oil with mud and sand at the polluted soil improved field.

- Feature**
1. The combination of SiC double mechanical seal and FC pump is suitable to collect oil with slurry.



YD-810GYP

Model	YD-810GYP
Spec.	Head 4m x 40L/min.
Power	3phase 200V 50/60Hz 2pole 0.25kW
Material	Submersible pump : Made of FC with 6m cabel Float : Made of PE with AC frame
Dim.	Φ800 x 718H
Weight	Approx. 22kg
Bore	Discharge hose Φ38mm

High head type

- Use**
1. To collect / transfer floating oil in a deep pit which is unable to self-prime liquid.
 2. To collect / transfer floating oil with much slurry in a deep pit like a scale pit.

- Feature**
1. The performance is that **the head is 15m & the capacity is 100L/min.** (The highest level in the industry)
 2. The combination of SiC double mechanical seal and FC pump is suitable to collect oil with slurry.



YD-1600PS-T

Model	YD-1600PS-T (High head)
Spec.	Head 15m x 100L/min.
Power	3phase 200V 50/60Hz 2pole 1.5kW
Material	Submersible pump : Made of FC with 6m cabel Float : Made of PP with SUS304 frame
Dim.	Φ1600 x 1002H
Weight	Approx. 75kg
Bore	Discharge hose Φ50mm

Separator "FO" series

Suitable for GYROSKIMMER

Separator FO

It is enable to be used in combination with GYROSKIMMER.
There are two types of separator, small YD-200FO and large YD-400FO.

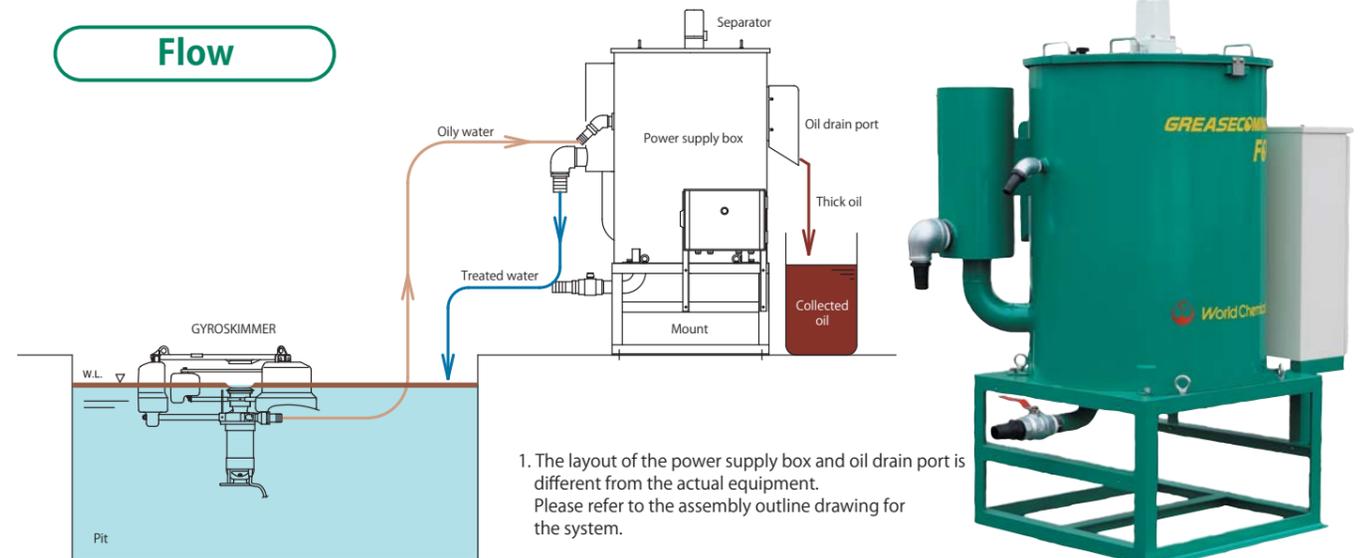
Feature

1. Start-and stop of GYROSKIMMER is possible to be operated by the control panel of the separator "FO" built in an inverter.
2. Two inverters are bult in the control panel for GYROSKIMMER and the scraper.
3. It is possible to collect easy bubbling liquid and improve oil separation by GYROSKIMMER controlled by an inverter.
4. The control by the inverter makes the scraper in the separator adjust to the suitable for oil viscosity.



Scraper

Flow



200FO

Specification

Model	YD-200FO (-T)	YD-400FO (-T)
Matching model	YD-600GYP series	YD-800/1000/1200GYP series
Structure	The difference in specific gravity separation (FO) with scraper for thick oil	
Capacity	Approx. 200L	Approx. 390L
Outline dimension	1046 x 810 x 1642H (incl. Mount)	1285 x 944 x 1742H (incl. Mount)
Material	Made of SS	
Weight	Approx. 155kg (Full water: Approx. 350kg)	Approx. 225kg (Full water: Approx. 620kg)
Paint	Epoxy coating (Color: Munsell 2.5GB5/8 approximate color)	
Bore	Filling port: Φ25 hose connection	Filling port: Φ38 hose connection
	Water drain port: Φ38 hose connection	Water drain port: Φ65 hose connection
	Oil drain port: Φ50 hose connection	Oil drain port: Φ65 hose connection
	Drain port: Φ38 hose connection	Drain port: Φ50 hose connection
Scraper	Water-proof geared motor (Rotating speed is eable to change by the inverter contro..)	
	3phase 200V 40W Water-proof geared motor	3phase 200V 60W Water-proof geared motor
Control panel	Made of SS, Outdoor type: External: Power indicator (White)	
	Internal: Ground-fault interrupter, Inverter x 2 (Pump/Scraper), Terminal block	
Accessory	Water drain hose 3m, Oil drain hose 1m (with hose bands)	

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* Special pump made of SUS is available.