



URL <http://www.wcc.co.jp/en>
E-mail overseaschemical@wcc.co.jp

Head Office

3F., ANTEX24, 1-1-14, Taito,
Taito-ku, Tokyo, 110-0016 Japan

☎ 81-3(5818)5130 ☎ 81-3(5818)5131

Domestic sales department

☎ 81-3(5818)5130 ☎ 81-3(5818)5131

Overseas sales department

☎ 81-3(5818)5134 ☎ 81-3(5818)5131

Nagoya Office

4F., DAIEI Bldg., 1-11-20, Nishiki, Naka-ku, Nagoya-shi,
Aichi, 460-0003 Japan

☎ 81-52(253)8426 ☎ 81-52(253)8436

Osaka Office

3F., KOTANI Park Bldg., 1-19-25, Edobori, Nishi-ku, Osaka-shi,
Osaka 550-0002 Japan

☎ 81-6(6467)8565 ☎ 81-6(6467)8566

Fukuoka Office

6F., SUN LIFE 3rd Bldg., 2-5-19, Hakataeki higashi, Hakata-ku,
Fukuoka-shi, Fukuoka 812-0013 Japan

☎ 81-92(292)1458 ☎ 81-92(292)1459

Tsukuba Factory

6127-5, Onogo-machi, Joso-shi,
Ibaraki, 300-2521 Japan

☎ 81-297(24)1071 ☎ 81-297(24)1075

Service Center

6127-5, Onogo-machi, Joso-shi,
Ibaraki, 300-2521 Japan

☎ 81-297(24)1071 ☎ 81-297(24)1075

台灣華爾多科技股份有限公司

Worchemi Taiwan Co., Ltd.

台中市神岡區中山路 915 號
NO.915, Zhongshan Rd., Shengang Dist.,
Taichung City 42955, Taiwan

☎ 886-4-2562-8358 ☎ 886-4-2562-8351

URL <http://www.worldchemical.com.tw>

E-mail worchemi@ms34.hinet.net

World Chemical USA, Inc.

30 Hughes, Suite 203, Irvine, CA 92618, U.S.A

☎ 1-949-462-0900 ☎ 1-949-462-0999

URL <http://www.worldchemicalusa.com>

E-mail wca@worldchemicalusa.com

蘇州華而多科技有限公司

Suzhou World Technology Co., Ltd.

江蘇省蘇州市相城經濟開發區富元路402號
402, Fu Yuan Road, Xiang Cheng, Economic District., Su Zhou, China

☎ 86-512-6579-8212 ☎ 86-512-6579-8215

URL <http://www.worldchemical.com.cn>

E-mail worldchemical@wcs.szbnet.com

Floating Objects / Oil Collecting Pump

GYROSKIMMER



■Note:



● The catalogue contents are subject to change without notice due to product improvement. This is issued in October 2021.

 World Chemical Co., Ltd.



Installed in a rainwater pit



Installed in a centralized coolant tank

USE

- 1 To collect floating oil in a centralized pit
- 2 To collect floating oil with abrasive substance like cutting powder
- 3 To collect scum in a wastewater treatment plant
- 4 To collect floating oil at the contaminated soil treatment
- 5 To collect emergency spilled oil in a river/port
- 6 To collect floating plastic pellet or powder

Feature

- 1 It smoothly follows to ocean waves or liquid level fluctuation by the world patented double float structure **continuously** recover surficial oil.
- 2 It is possible to collect and transfer floating oil both by this a floating pump skimmer.
- 3 YD-810GY is resistant to oil with abrasion chips, grain or dirt.
- 4 It falls into two categories, single phase/100V & 3 phase for industry. (Except YD-1200GY)
- 5 AL molded parts (with powder paint) and light SUS/plastic pump are matched and 40% lighter than before.



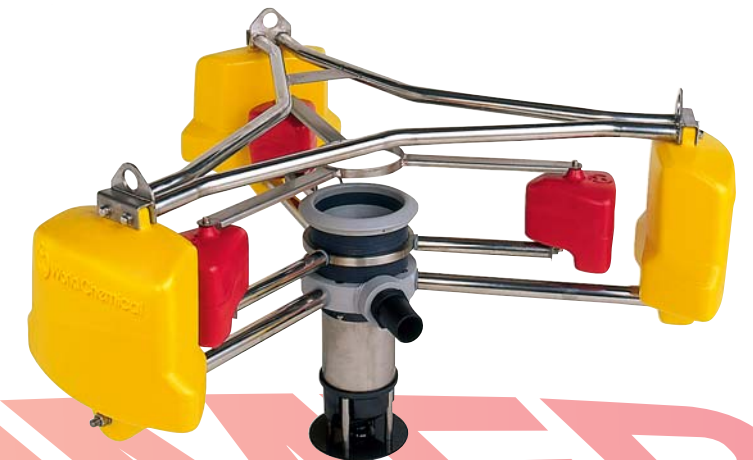
YD-600GYP



YD-800GYP

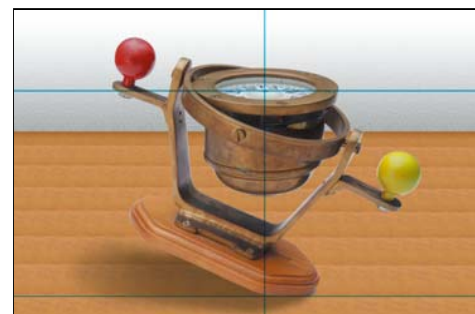


YD-1000GYP



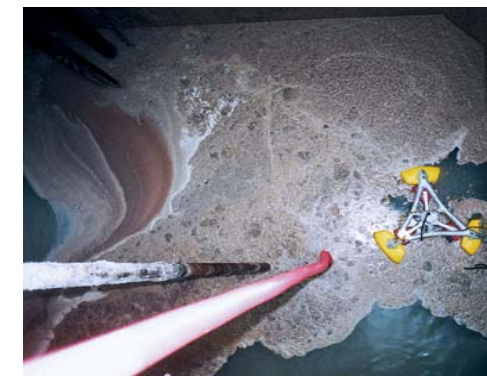
YD-1200GYP

The action of "GYROSKIMMER" makes imagine a gyrocompass, recovers surficial oil during keeping level to the liquid surface.



Excellent collecting capability

Ex. Floting oily scum in a raw water tank at a food factory



Onset of recovery



After 2.5 hours

Standard type

<Model description>

Y D - 600

Float dia.

GYP - Y6

Model
GYP
PS
RSS
JFL

V 06

Submersible pump
Power
A6 : 0.25 kW (1PH)
Y6 : 0.25 kW
A0 : 0.4 kW (1PH)
00 : 0.4 kW
01 : 0.75 kW
02 : 1.5 kW
Cable material
V : VCT
P : 2PNCT
Cable length
Length : As meter
(Standard=06 : 6m)

620

Frequency/Voltage
510 : 50Hz/100V
520 : 50Hz/200V
538 : 50Hz/380V
540 : 50Hz/400V
610 : 60Hz/100V
620 : 60Hz/200V
622 : 60Hz/220V
640 : 60Hz/400V

N

Anti dust net
N : Nil
No indication : Nil

T

Specialty
T : Social condition

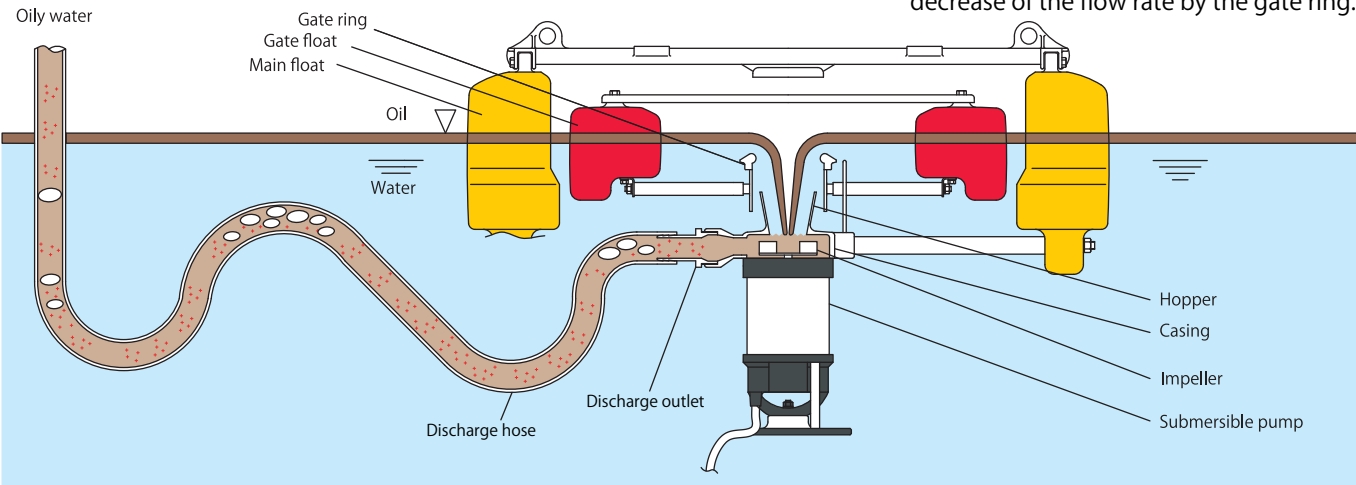
<Double float structure>

Surficial oil is usually widespread and not very thick. When collecting surficial oil, "How to reduce excess water and raise the efficiency of oil recovery" is most important to design a skimmer.

Double float smoothly follows waves and the skimmer's fluctuation for air suction, and recovery surficial oil continuously.



* It is possible to adjust the increase-decrease of the flow rate by the gate ring.



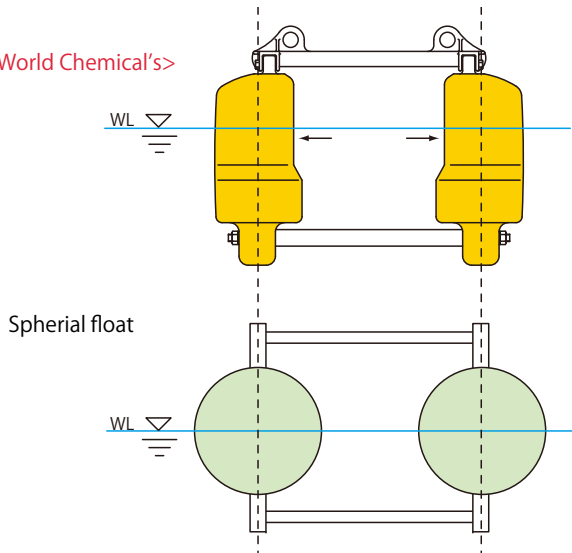
<The shape of the original molded main float>

The flow part of oily water is widened by making the draft shape of the main float thin.

The shape of the float makes thick floating oil and scum flow smoothly than the spherical shape's one.

Additionally, the buoyance which is necessary for GYROSIMMER is ensured by making the submerged part thick.

<World Chemical's>

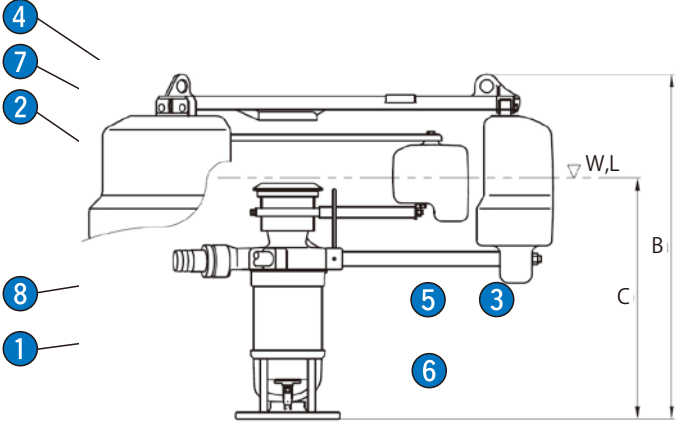
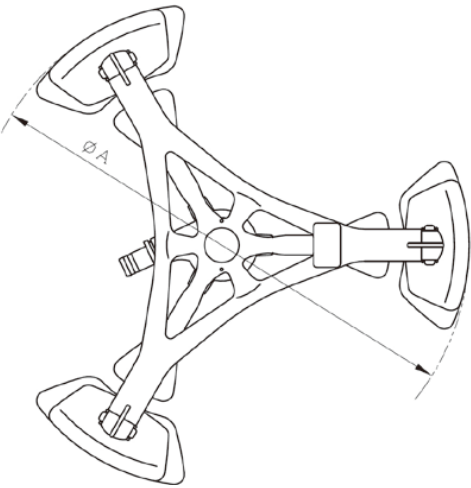


<Specification>

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.
	Gate ring cap	φ 60 mm	φ 95 mm	φ 95 mm
	Inflow drop	5 mm	7 mm	10 mm
	Power	1PH / 100V / 0.25kW 50/60Hz 3PH / 200V / 0.25kW 50/60Hz	1PH / 100V / 0.25kW 50/60Hz 3PH / 200V / 0.25kW 50/60Hz	1PH / 100V / 0.4kW 50/60Hz 3PH / 200V / 0.4kW 50/60Hz
	Outline	φ 560 × 538.5H (100V) (mm) 528.5H (200V) (mm)	φ 780 × 674H (100V) (mm) 663H (200V) (mm)	φ 1000 × 651H (100V) (mm) 659H (200V) (mm)
	Weight	Approx. 13kg	Approx. 22kg	Approx. 23kg
	Bore	φ 25 hose joint	φ 38 hose joint	φ 38 hose joint
Material	Submersible pump	Main body : SUS304 Impeller : Glass fiber reinforced ABS resin Shaft seal : Double mechanical seal SUS 304		
	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	Cabtire cable for submersible pump : VCT X 6m		
	Discharge hose	Flexible hose φ 25 × 5m	Flexible hose φ 38 × 5m	Flexible hose φ 38 × 5m
Spec. Change	Cable extension	Extension: 10m / 15m / 20m / 25m. If 25m and more cable is needed, consult us.		
	Cable material	It is available that the material of cabtire cable is changed. (From VCT to 2PNCT is available.)		
	Voltage	The voltage change of submersible pump is available. (in case of 3 phase)		
	Hose extension	If the hose is extended, consult us.		
Option	Anti-dust	Anti-dust fence (PE) is available all-around GYROSKIMMER. (1 inch. mesh)		

* The contents are subject to change without notice due to product improvement.

<Outline dimension >

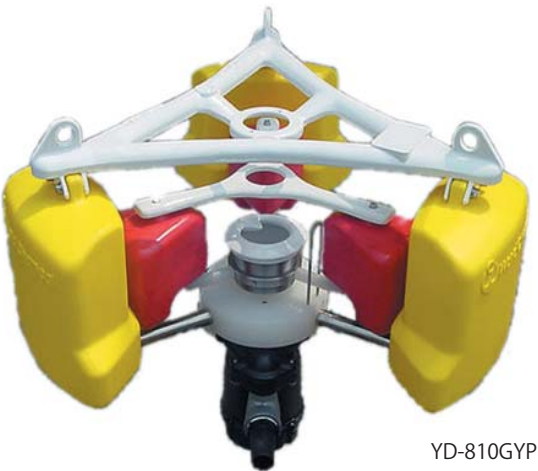


	Input	A (Outer diameter)	B (Height)	C (Draft)
YD-600GYP	100V 200V	φ 560	538.5 528.5	413.5 403.5
YD-800GYP	100V 200V	φ 780	674 663	459 448
YD-1000GYP	100V 200V	φ 1000	651	455
YD-1200GYP	200V	φ 1200	659	462

1 Submersible pump	6 Cable protective base
2 Main float	7 Gate ring
3 Gate float	8 Hose joint
4 Main float frame	
5 Casing	

Heavy duty type

- Use
1. To collect floating oil with cutting powder in a centralized coolant tank.
 2. To collect floating oil with mud and sand at the site of contaminated soil.
- Feature
- The combination of SiC double mechanical and FC pump is suitable to collect oil with slurry.



YD-810GYP

Spec.	Model	YD-810GYP		
	Installation area (Roughly)	About 2m×3m tank		
	Performance	Head 4m×40L/min.		
	Gate ring cap bore	φ95mm		
	Inflow drop	10mm		
	Power	1PH 100V 0.25kW 50/60Hz 3PH 200V 0.25kW 50/60Hz		
	Outline	φ780×711H	(100V) (200V)	(mm)
	Weight	About 22kg		
	Bore	φ38 Hose joint		
	Submersible pump	Body / Impeller : FC Bearing seal : SiC double mechanical seal		
Material	Frame	AC (Polyester plastic type powder paint)		
	Casing	PP		
	Float	Main float / Gate float : PE plastic mold parts (Exclusive)		
	Cable	Cabtire cable for Submersible pump : VCT×6m		
Acc.	Discharge hose	Flexible hoseφ38×5m		

Small type

- Use
- It is possible to use in a narrow space like a manhole for the small float (φ450mm).
- Feature
- The combination of SiC double mechanical and FC pump is suitable for oil with slurry.



YD-40PS

Spec.	Model	YD-40PS		
	Installation area (Roughly)	About 2m×2m tank		
	Performance	Head 4m×50L/min.		
	Gate ring cap bore	2 positions eachφ100mm		
	Inflow drop	2 positions each15mm		
	Power	1PH 100V 0.25kW 50/60Hz 3PH 200V 0.25kW 50/60Hz		
	Outline	φ450×568H	(100V) (200V)	(mm)
	Weight	About 22kg		
	Bore	φ38 hose joint		
	Submersible pump	Body / Impeller : FC Bearing seal : SiC double mechanical seal		
Material	Casing	FC		
	Float	Main float : FRP Gate float : HI.PVC		
	Cable	Cabrire cable for Submersible pump : VCT×6m		
	Anti dust net	PE		
Acc.	Discharge hose	Flexible hose φ38×5m		

High viscosity type

Rotary Scum Skimmer

To collect high viscosity floating oil or scum

<Model>
YD-RSS

- Use
1. For a wastewater pit at a food factory
 2. For a circulating water pit in a painting industry
 3. To collect blue-green algae or waterweed, etc.

Feature

Double scraper structure, that the main float and guid float are shaped a blade, breaks the bridge of salvaged material and collect them.



Installation area (Roughly) : About 5m×5m tank



Model	Dis. bore (mm)	Performance	Power	
		Head (m) × Capacity (L/min.)	Submersible pump	Motor for float
YD-800RSS	40	7-60	3PH 200V 2P 0.75kW	3PH 200V 4P 25W

Big type (High head)

- Use
1. To collect floating oil in a deep pit where it is impossible to be self-priming usually.
 2. For a floating oil with much slurry in a deep pit like a scale pit.
- Feature
1. The head 15m_100L/min. is available. (Highest level in a industry)
 2. The combination of SiC double mechanical and FC pump is suitable for oil with slurry.



YD-1600PS

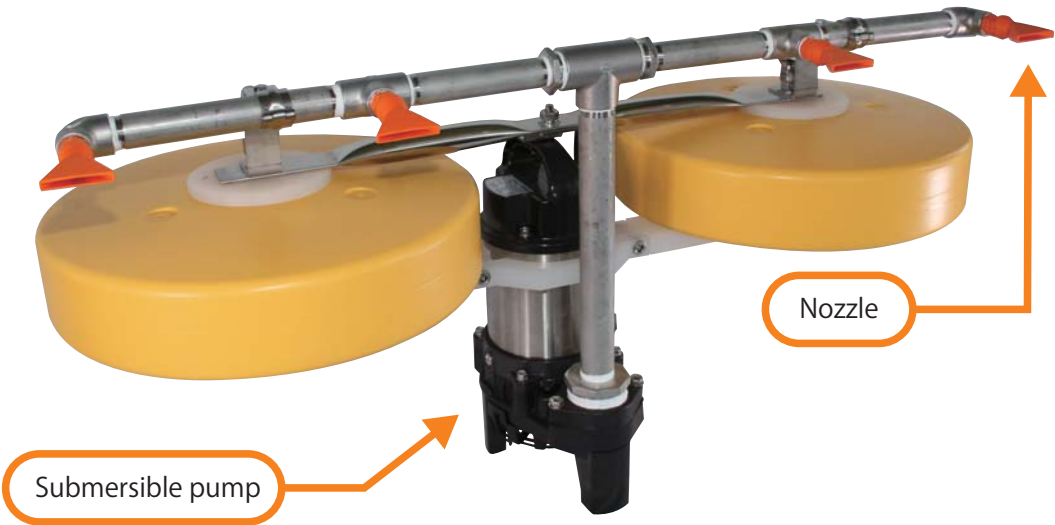
Spec.	Model	YD-1600PS		
	Installation area (Roughly)	About 10m×10m tank		
	Performance	Head 15m×100L/min.		
	Gate ring cap bore	φ175mm		
	Inflow drop	12mm		
	Power	3PH 200V 1.5kW 50/60Hz		
	Outline	φ1600×1013H (mm)		
	Weight	About 75kg		
	Bore	φ50 Hose joint		
	Submersible pump	Body / Impeller : FC Bearing seal : SiC double mechanical seal		
Material	Casing	PP		
	Float	Main float : PP Gate float : PP		
	Cable	Cabtire cable fro Submersible pump : VCT×10m		
	Anti dust net	PE		
Acc.	Discharg hose	Flexible hose φ50×5m		

FLOATING SCUMSWEEPER

JETFLO

It makes water flow on the water by waterjet and support to collect oil and scum.

<Model>
YD-25JFL



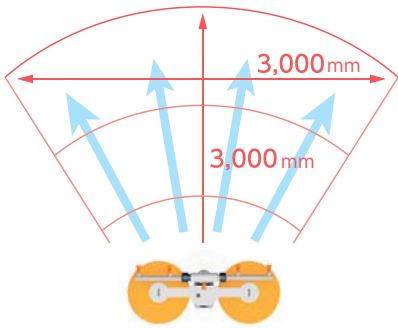
- Use
1. To collect painting scum in a paint circulating pit.
 2. To collect scum in a wastewater pit in a food factory.
 3. To collect blue-green algae or waterweed.
- Feature
1. JETFLO is a floating injection device which follows the overwater fluctuation.
 2. It sweeps a low fluidity and high viscosity scum by waterjet and support the collection.
 3. Even if the floating objects are dry, the waterjet breaks them and increases the collecting efficiency.
 4. It is possible to change the angle of the injection and adapt the condition of scum or bubble.
 5. If the pit is wide or a complicated shape, the installation of more and one JETFLO increases the collecting efficiency.



<Specification>

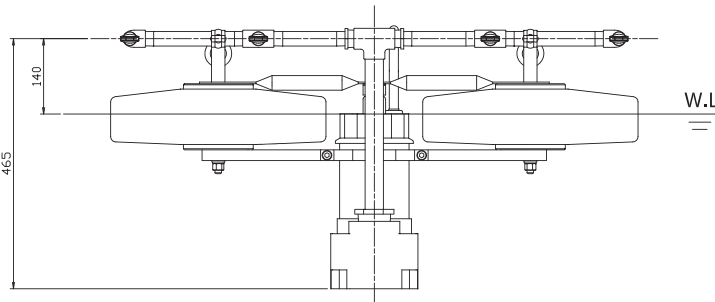
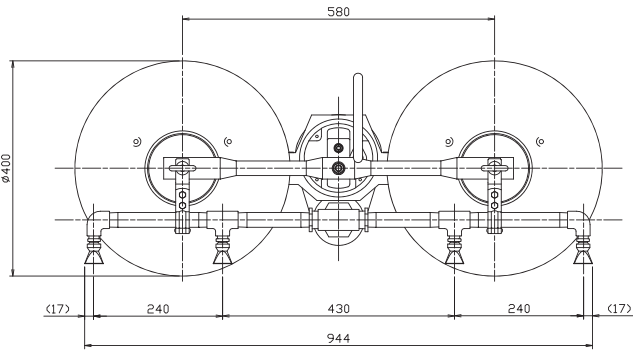
Model	YD-25JFL	
Performance	Total head	1m
	Capacity	Approx. 200L/min.
	Range capability	Approx. 3m
Power	PH / Frequency	1PH, 3PH / 50/60Hz
	Voltage	100, 200V
	Output	0.4kW
	Pole	2P
	Insulation class	E
Weight	Approx. 18kg	
Nozzle	Discharge nozzle : 4 points	

<Range capability>



It is possible to change the angle of the injection for whatever you wants!

<Dimension>



JETFLO collects floating objects efficiently like a broom.



FO: Separator

It is used in conjunction with GYROSKIMMER.
There are 2 types, small 200FO and big 400FO.

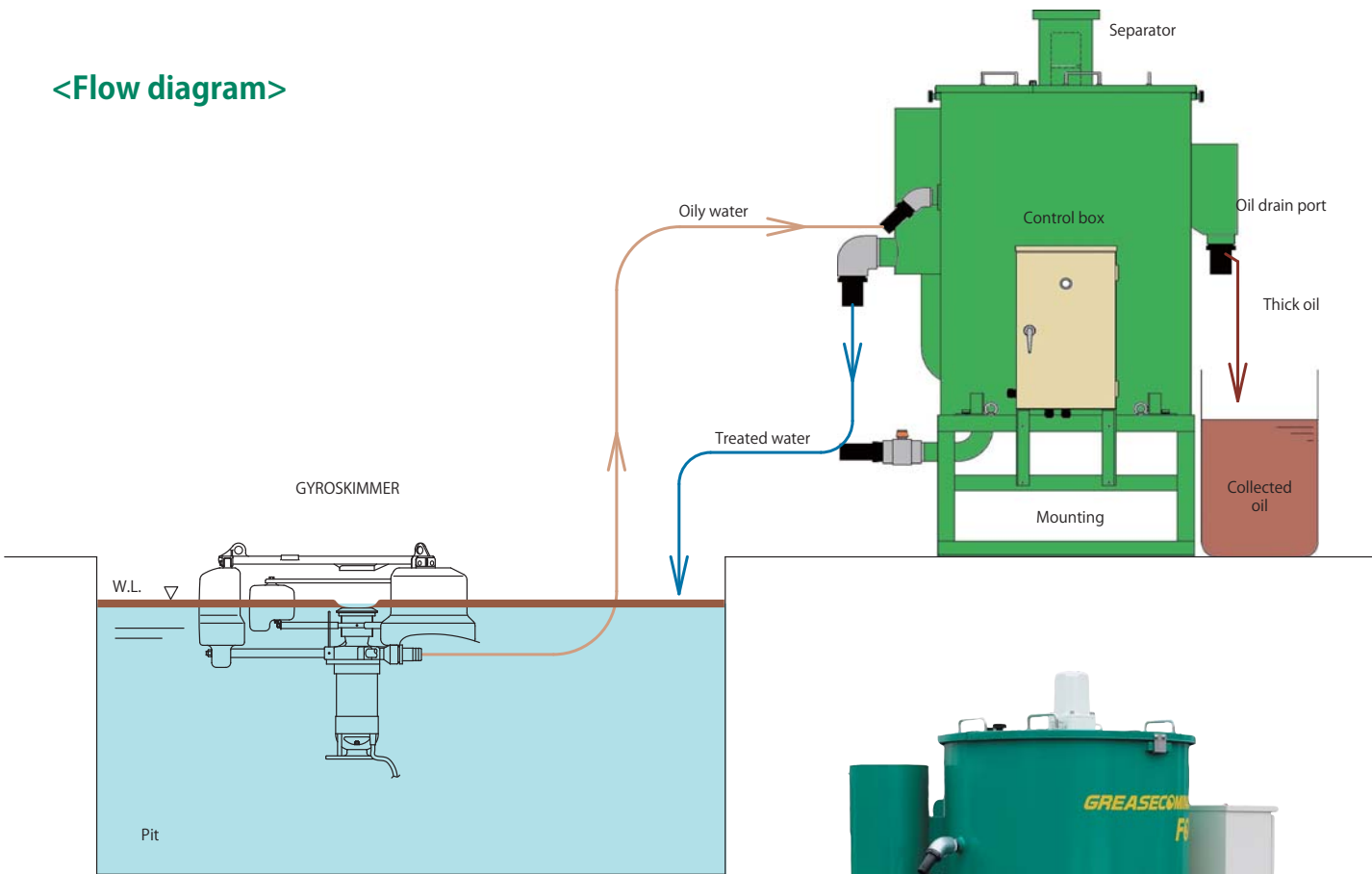
Feature

- 1. It is possible to switch on/off GYROSKIMMER from FO separator by the control box with an inverter on the main body.
- 2. The inverters for GYROSKIMMER and separator are incorporated in the control box.
- 3. It is possible to handle easy bubbling liquid or increase oil isolation to control GYROSKIMMER by the inverter.
- 4. It is possible to adjust to oil viscosity optimally to control the oil drain scraper by the inverter.



Scraper

<Flow diagram>

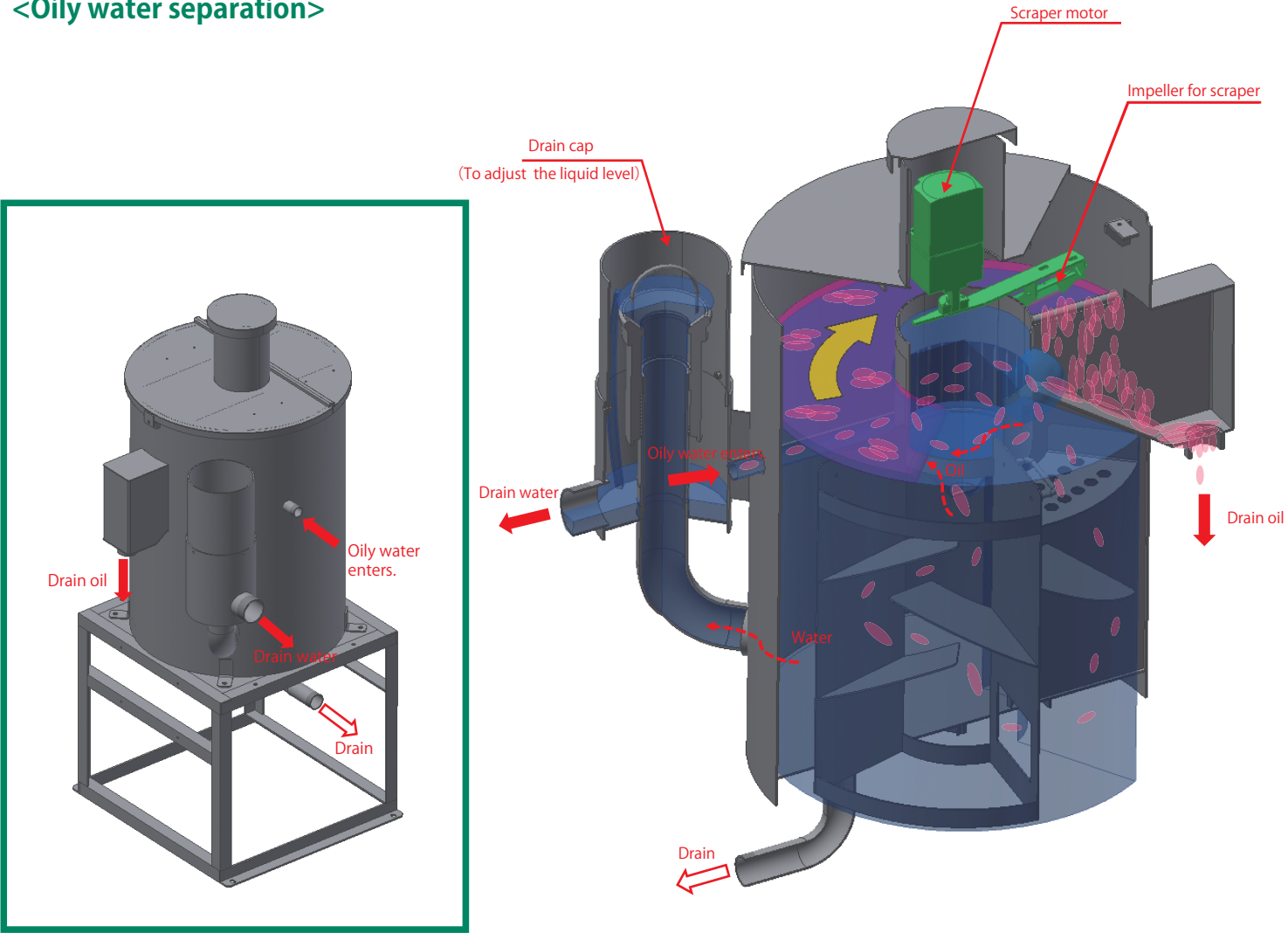


- 1. The installation of the control box and oil drain port is different from the actual one. Please refer to the outline drawing.
- 2. The receiving tank for collected oil is not accompanied.



200FO separator

<Oily water separation>



<Specification>

Model	YD-200FO	YD-400FO
Subject model	YD-600GYP series	YD-800/1000/1200GYP / 40PS series
Structure	Gravitational setting difference in specific gravity separation (FO) with scraper	
Capacity	Approx. 200L	Approx. 390L
Outline	1086×810×1642H (include the mounting)	1311×944×1742H (including the mounting)
Material	SS	
Weight	Approx. 155kg (Full water: Approx. 350kg)	Approx. 225kg (Full water: Approx. 620kg)
Paint	Inside / Outside : Epoxy plastic paint (Color : Munsell 2.5G4/8 approximate color)	
Bore	Filling water port : φ 25 hose joint	Filling water port : φ 38 hose joint
	Drain water port : φ 38 hose joint	Drain water port : φ 65 hose joint
	Drain oil port : φ 50 hose joint	Drain oil port : φ 65 hose joint
	Drain : φ 38 hose joint	Drain : φ 50 hose joint
Scraper	Water-proof geared motor (It is possible to change the rotating speed by an inverter.)	
	3PH 200V 40W Water-proof geared motor	3PH 200V 60W Water-proof geared motor
Control pannel	SS, Outdoor type, Outside face, Power indicator : White, Lighted pushing button for operation: Red, Lighted pushing botton for stop : Green Ground-fault interrupter, Inverter x 2 (for pump / scraper control&start/stop), Terminal block (Primary side & Device connection)	
Accessory	Water drain hose 3m, Oil drain hose1m (with hose band)	

* It may be subject to change the contents without notice due to the product improvement.

※ Special model made of SUS is available.