



Pump & Oil collecting system

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Download
(Catalogue, Manual)

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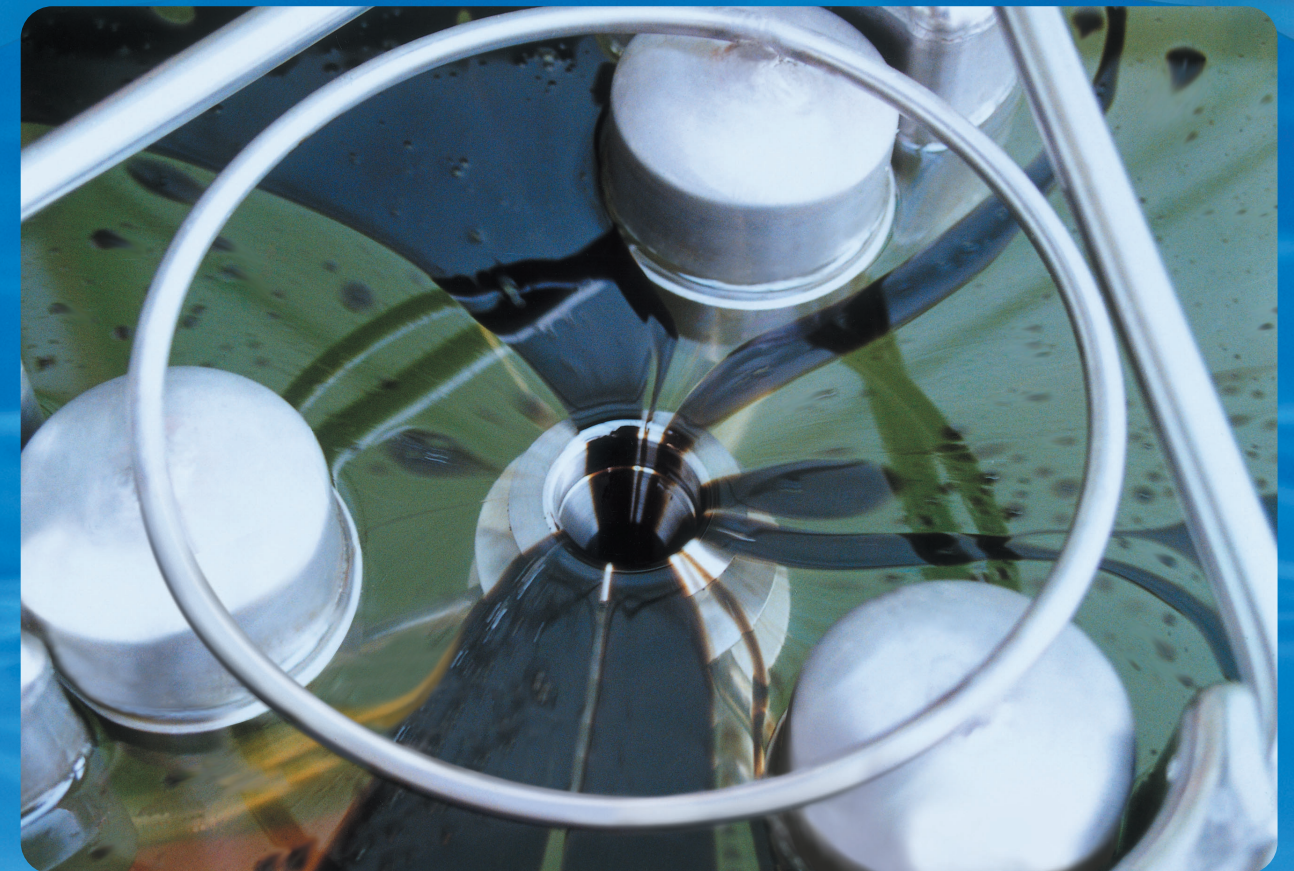


■ Note

● It is subject to change the contents without notice. ● This catalogue was issued in March 2026.

Oil skimmer and separator
FLOATING OIL COLLECTING SYSTEM

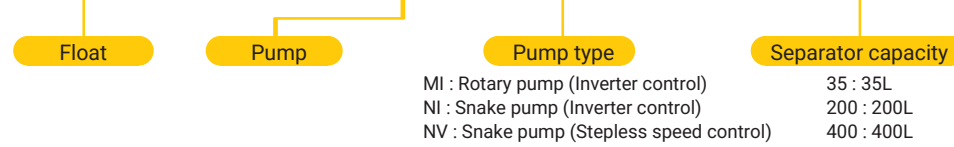
GREASECOMING



 **World Chemical Co., Ltd.**

Model designaion

YD - 300FS - 300P - MI - 35FO



Efficiently collects floating oil from low to high viscosity.

For small drainage pits (Approx. 2 m x 2 m)

<Small 300 type>



300FS
<Suction float>



300P (Pump) + 35FO (Separator: 35L type)
<Main body>



- For small drainage pits (Approx. 2 m x 2 m).
- Ideal for collecting floating oils ranging from low-viscosity mineral oils to high-viscosity food oils.

Structure

Floating oil collection float (FS), Collection pump (P) & Separator with Power box (FO)

Applications

- Collection of floating animal and vegetable oils : Food factory wastewater
- Collection of mineral oils : Vehicle wash wastewater, scrap processing wastewater
- Collection of floating oil from wastewater containing powder : Ink and pigment wastewater

Features

- The double-float structure provides excellent liquid level tracking and high recovery performance. (Please refer to the page 5.)
- An inverter is provided as standard, allowing stepless adjustment of the pump rotational speed. By maintaining a balance between the inflow from the float and the pump collection rate, oil-water agitation is reduced, separation efficiency is improved, and pump wear is minimized.
- The separator is equipped as standard with a large scraper for high-viscosity liquids (forced oil discharge mechanism). It powerfully scrapes and discharges high-viscosity oil that is difficult to remove, as well as low-fluidity recovered materials such as scum and paint residues.
- The separator is made of SUS304 stainless steel for easy maintenance and is suitable for high-temperature liquids.



Scraper

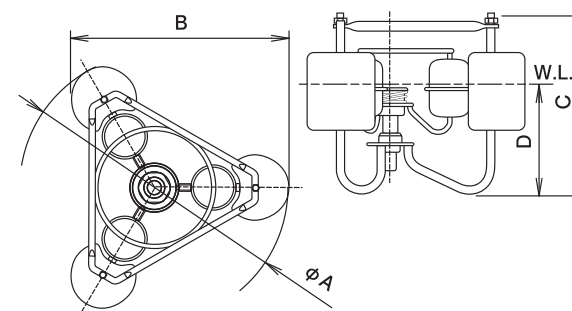
Model designaion

Model	YD-300FS-300P-MI / NI-35FO	
Suction type	Float suction type	
Performance	Collection volume	5 ~ 8 L/min.
	Self-priming ability ※1	(Clear water : Ambient temperature) MI : Approx. 4 m, NI/NV : Approx. 5 m
Conditions	Liquid temperature ※2	MI : 60°C or less, NI/NV : 70°C or less
	Outline	MI : 652 x 550 x 1362H, NI : 652 x 620 x 1362H
Specifications	Weight	Approx. 70 kg (Dry) Full water weight : Approx. 105 kg
	Installation location	For outdoor installation
Float "FS" (Suction parts)	Outline	Φ440 x 297H
	Weight	Approx. 3 kg
	Oil/water suction size	Φ35
	Hose connection size	Φ19
Main body (Pump + Separator "FO")	Material	SUS304
	Pump type	Select from the rotary type (MI) or the snake type (NI)
	Power (Pump)	Three phase, 0.4kW, 4 pole, 50/60Hz, TEFC outdoor type
	Pump control	Rotation control by a combination of pulley/belt and inverter
	Pump material	MI : BC6, CR rubber NI : FC, SUS304 + Hcr, NBR
	Separation structure	Cylindrical gravity separation system
	Oil discharge method	Forced oil discharge system using a large scraper covering the water surface.
	Power (Scraper)	Three phase, 25W (with waterproof gear) / Geared motor (50Hz : 4.1 rpm, 60Hz : 5 rpm)
	Separator capacity	35 L
	Separator material	SUS304
Accessories	Power box	Made of SS, Equipped with a simple outdoor cover Panel: Power indicator lamp, ON/OFF switch Internal equipment: ELCB, Inverter
	Suction hose	Flexible hose (soft PVC with steel wire reinforcement) Φ19 x 3 m : 1 pc
	Drain hose	Flexible hose (soft PVC with steel wire reinforcement) Φ25 x 2 m : 1 pc
Specification change	Oil drain hose	Flexible hose (soft PVC with steel wire reinforcement) Φ38 x 1 m : 1 pc
	Power	Single phase
	Timer	A calendar timer (16 settings/day x 1 week) can be installed inside the control panel.
Portable	Equipped with casters and a push handle	

※ Not for use with solvents, organic acids, strong acids/alkalis, or flammable liquids. ※ They are subject to change without notice for product improvement.
 ※ 1 Self-priming performance: May vary depending on liquid specific gravity, viscosity, temperature and component wear.
 ※ 2 Liquid temperature: Minimum liquid temperature: 0 °C (non-freezing). Self-priming performance varies depending on liquid temperature.

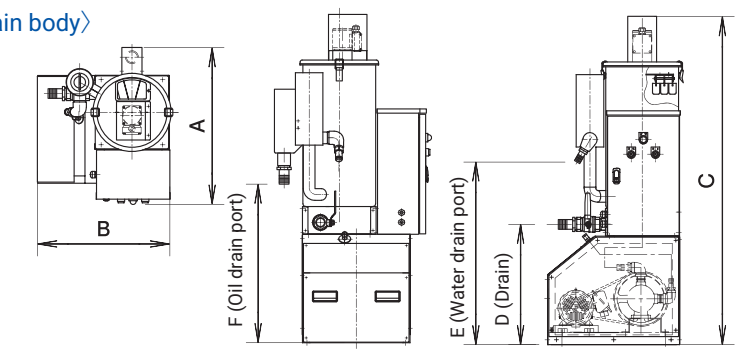
Outline drawings

<Suction float>



Float	A	Φ440
	B	358
	C	297
	D	Below the liquid level 183

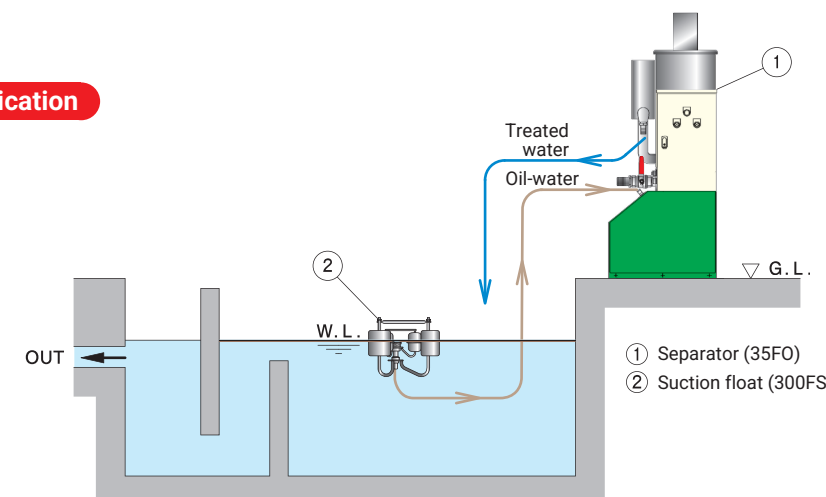
<Main body>



Main body	A	652
	B <td>550 (MI) / 620 (NI)</td>	550 (MI) / 620 (NI)
	C <td>1362</td>	1362
	D <td>499</td>	499
	E <td>757</td>	757
	F <td>658</td>	658

mm

Application



- ① Separator (35FO)
- ② Suction float (300FS)

Model designaion

600FS 600P
YD - 1000FS - 1000P - NI - 200FO

Float

Pump

Pump type

Separator capacity

MI : Rotary pump (Inverter control)*
NI : Snake pump (Inverter control)
NV : Snake pump (Stepless speed control)

200 : 200L
400 : 400L

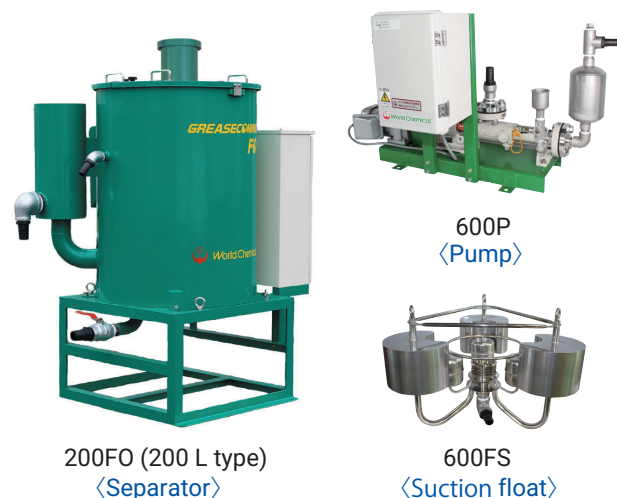
*Only 600P

High-capacity collection for a wide range of floating oils.

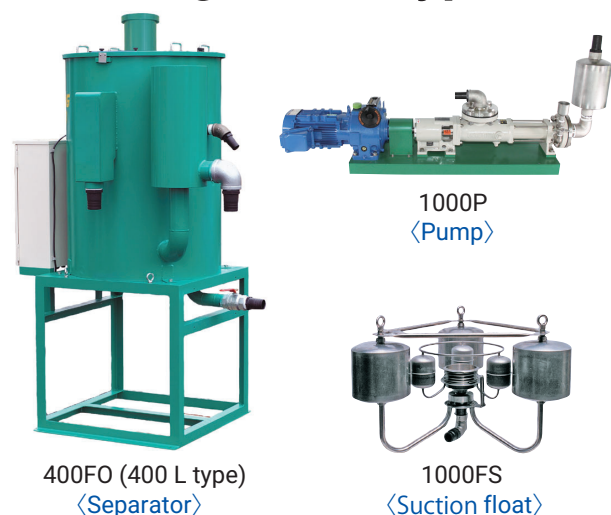
For medium drainage pits (Approx. 3 m x 3 m)

For large drainage pits (Approx. 5 m x 5 m)

Medium 600 type



Large 1000 type



- For medium (Approx. 3 m x 3 m) to large (Approx. 5 m x 5 m) drainage pits.
- Ideal for collecting floating oils ranging from low-viscosity mineral oils to high-viscosity food oils.

Structure

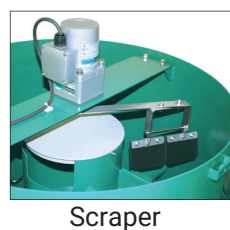
Floating oil collection float (FS), Collection pump (P) & Separator with Power box (FO)

Applications

- Collection of floating animal and vegetable oils : Food factory wastewater
- Collection of mineral oils : Vehicle wash wastewater, scrap processing wastewater
- Collection of floating oil from wastewater containing powder : Ink and pigment wastewater
- Collecting of floating paint sludge : Paint booth wastewater

Features

- The double-float structure provides excellent liquid level tracking and high recovery performance. (Please refer to the page 5.)
- An inverter is provided as standard, allowing stepless adjustment of the pump rotational speed. By maintaining a balance between the inflow from the float and the pump collection rate, oil-water agitation is reduced, separation efficiency is improved, and pump wear is minimized.
- The separator is equipped as standard with a large scraper for high-viscosity liquids (forced oil discharge mechanism). It powerfully scrapes and discharges high-viscosity oil that is difficult to remove, as well as low-fluidity recovered materials such as scum and paint residues.

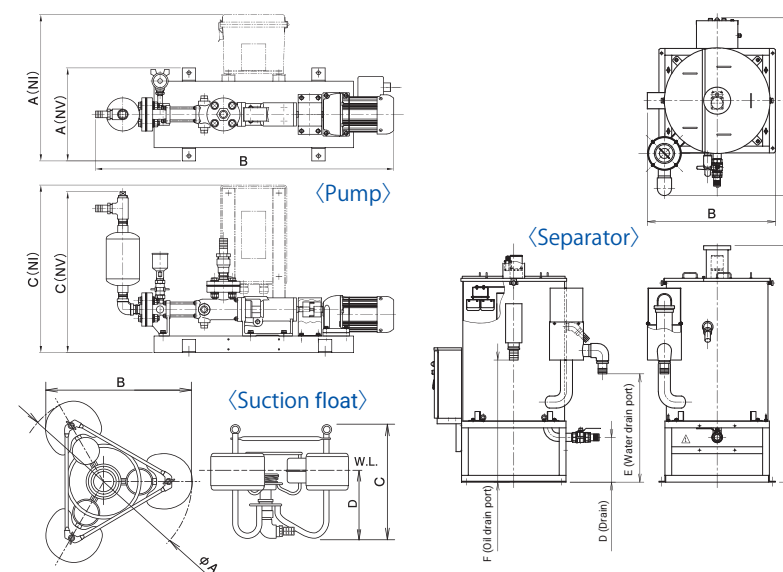


Model designaion

Model	YD-600FS-600P-MI / NI / NV-200FO (M)	YD-1000FS-1000P-MI / NI / NV-400FO (L)
Suction type	Float suction type	
Performance	Collection volume 15 ~ 20 L/min.	30 ~ 50 L/min.
	Self-priming ability ※1 (Clear water : Ambient temperature) MI : Approx. 3.5 m, NI/NV : Approx. 5 m	
	Liquid temperature ※2 MI : 60°C or less, NI/NV : 70°C or less	
Float "FS" (Suction parts)	Outline Φ700 x 452H	Φ1120 x 680H
	Weight Approx. 7.5 kg	Approx. 7.5 kg
	Oil/water suction size Φ80	Φ80
	Hose connection size Φ32	Φ32
	Material SUS304 (Hose joint not included.)	
Pump "P"	Type Select from the rotary type (MI) or the snake type (NI) * MI : 600P only	
	Power Three phase, 4 pole, 50/60Hz, TEFC outdoor type	
	0.4kW	0.75kW
	Control Pump + Inverter speed control (MI / NI) / Mechanical variable speed control (NV)	
	Weight Approx. 40 kg	Approx. 60 kg
	Material MI : BC6, CR rubber NI / NV : FC, SUS304 + Hcr, NBR	
Separator "FO"	Structure Cylindrical gravity separation system	
	Oil discharge method Forced oil discharge system using a large scraper covering the water surface.	
	Power (for scraper) Three phase Geared motor (The speed is controlled by an inverter.)	
	40W	60W
	Capacity Approx. 200 L	
	Weight Approx. 155 kg (Approx. 350 kg when full)	
	Approx. 255 kg (Approx. 620 kg when full)	
	Material Made of SS (Epoxy coating)	
	Power box Made of SS, Equipped with a simple outdoor cover	
	Panel: Power indicator lamp, ON/OFF switch Internal equipment: ELCB, Inverter	
Accessories	Hose material Flexible hose (soft PVC with wire reinforcement)	
	Suction hose Φ32 x 5 m : 1 pc	Φ38 x 5 m : 1 pc
	Drain hose Φ38 x 3 m : 1 pc	Φ65 x 3 m : 1 pc
	Oil drain hose Φ50 x 1 m : 1 pc	Φ65 x 1 m : 1 pc
Specification change	Timer A calendar timer (16 settings/day x 1 week) can be installed inside the control panel.	
	Material change SUS material available for the FO separator.	
	Pump material : Stainless steel enclosure available.	
	Control panel Available without a control panel.	

※ Not for use with solvents, organic acids, strong acids/alkalis, or flammable liquids.
※ 1 Self-priming performance: May vary depending on liquid specific gravity, viscosity, temperature and component wear.
※ 2 Liquid temperature: Minimum liquid temperature: 0 °C (non-freezing). Self-priming performance varies depending on liquid temperature.

Outline drawings



YD-600FS-600P-MI / NI / NV-200FO (Medium)

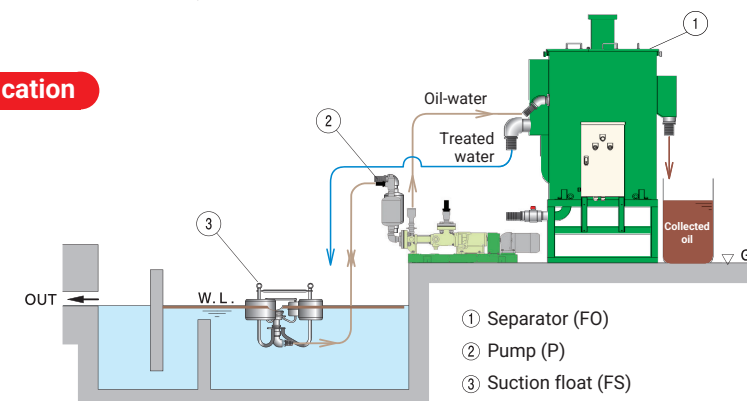
	MI	NI	NV
Float	A	Φ700	
	B	580	
	C	452	
	D	Below the liquid level	270
Pump	A	529	250
	B	687	1300
	C	652	653
Separator	A	1086	
	B	810	
	C	1642	
	D	500	
	E	830	
	F	896	

YD-1000FS-1000P-MI / NV-400FO (Large)

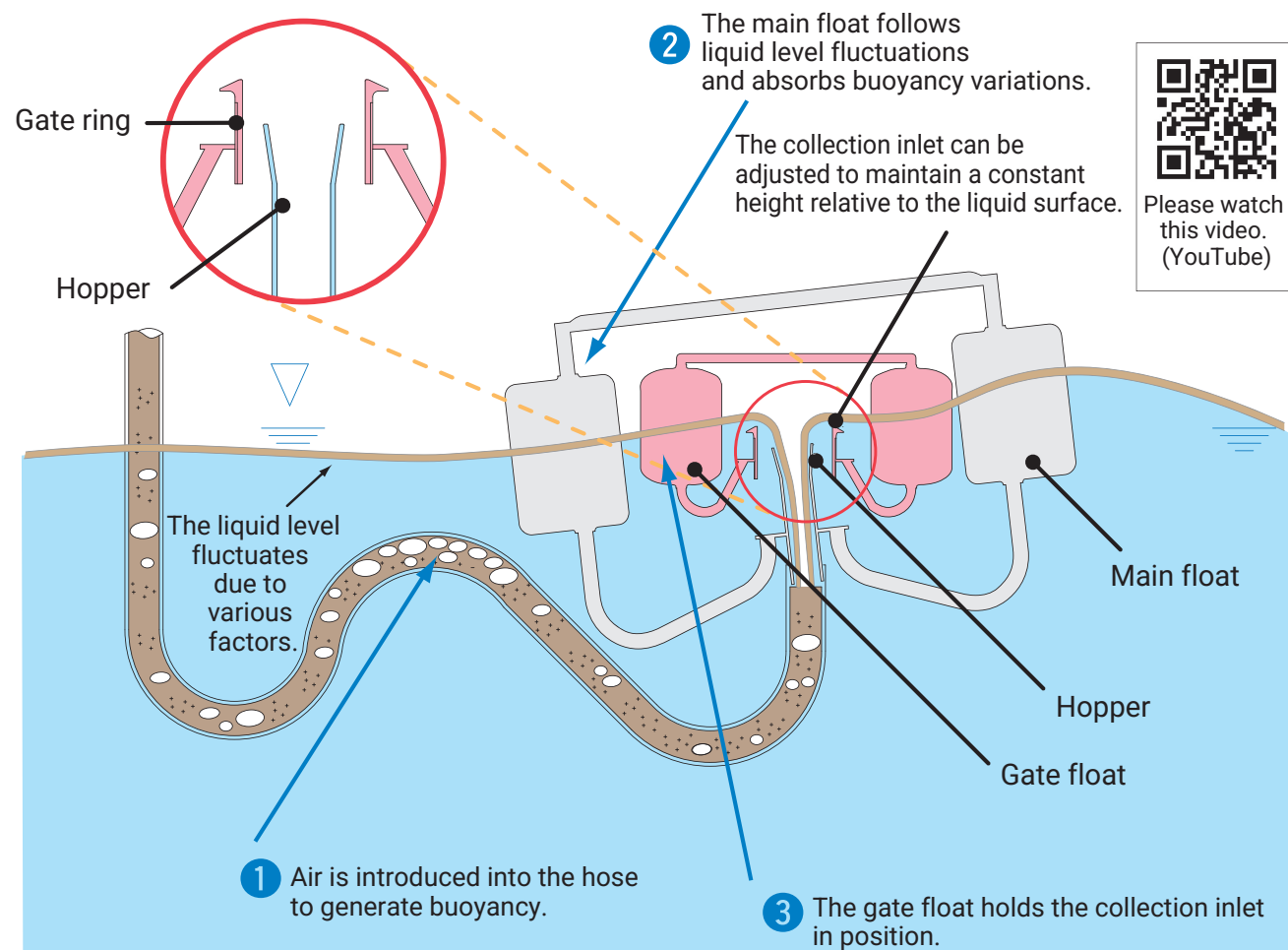
	NI	NV	
Float	A	Φ1120	
	B	908	
	C	680	
	D	Below the liquid level	410
Pump	A	440	250
	B	1308	1413
	C	652	656
Separator	A	1311	
	B	944	
	C	1742	
	D	330	
	E	798	
	F	900	

mm

Application



Double-float structure : Maintains stable operation while flexibly following the liquid surface.

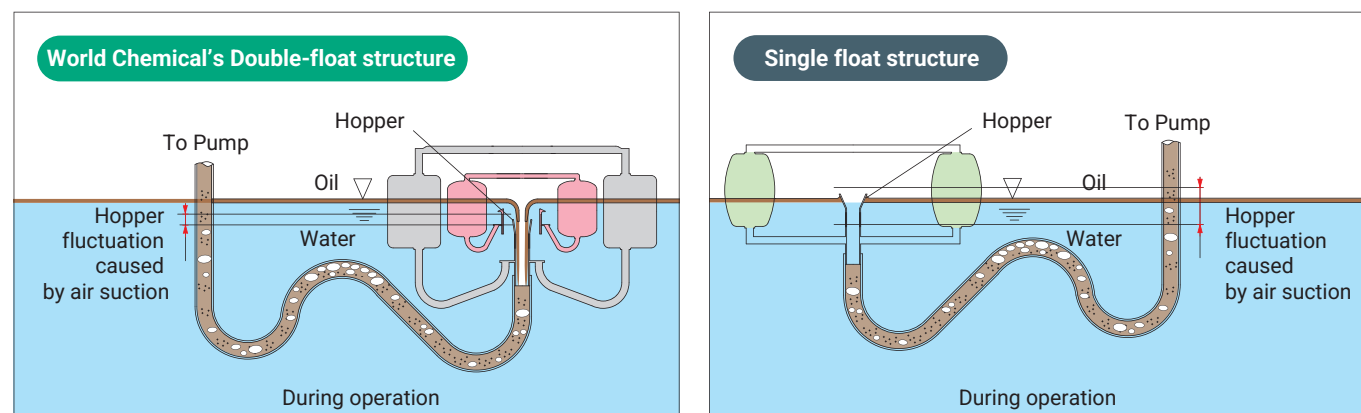


To ensure reliable suction of floating oil on the water surface with a skimmer, it is necessary to draw in the oil and water together with the air on the surface. However, the entrained air generates excessive buoyancy ①, which lifts the hose, floats, and collection inlet, making stable collection difficult.

Our float features a double-float structure that is not affected by buoyancy fluctuations caused by air entrainment.

By supporting the main body and hose with the main float ②, and the collection inlet with the gate float ③, the hose and collection inlet can move independently without affecting each other. This allows flexible movement and stable operation.

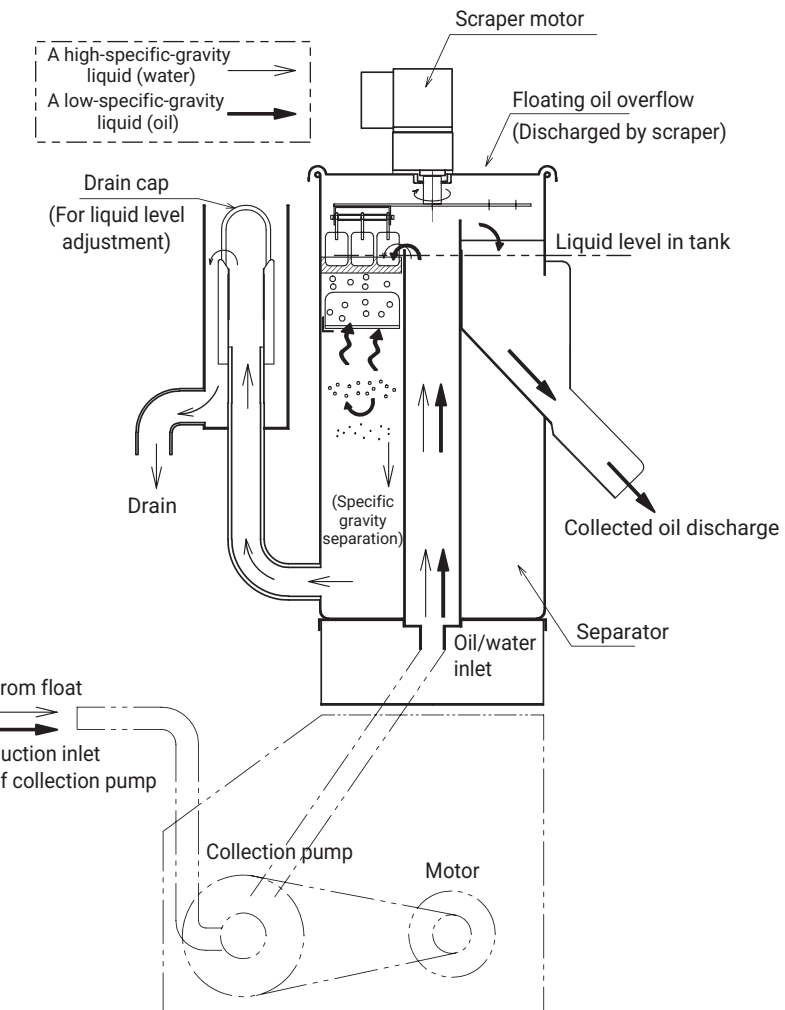
In addition, the double-float structure smoothly follows fluctuations in the liquid level and wave motion.



The double-float structure is not affected by buoyancy fluctuations caused by air suction, preventing hopper protrusion and ensuring efficient recovery of floating oil.

Separator : Equipped with a large scraper (oil discharge mechanism) as standard.

- The oil-water mixture collected by the float is separated into oil and water in the separator by specific gravity separation, and each is discharged separately.
- A large scraper (forced oil discharge mechanism) is provided at the oil discharge section to scrape out and discharge high-viscosity oil and foreign matter.
- No consumables requiring periodic replacement are used, helping reduce costs.
- Simple structure for easy cleaning.



Option : Strainer tank unit <YD-20LST>

When using the product in a pit with a large amount of floating debris or foreign matter, the installation of a 20L strainer tank unit is recommended.

If objects such as wood chips or plastic chips are sucked in, it may cause blockage of the pump suction or damage to the pump internals.

Installation of the strainer tank unit between the float and the pump enables the capture of foreign matter, thereby helping to prevent potential failures.

Note: The internal basket of the strainer tank unit requires periodic cleaning. It is not designed to capture fine slurry such as cutting chips, but is intended for the removal of foreign matter approximately 5–10 mm in size.

