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GENERAL CATALOGUE

PRODUCTS GUIDE

Corrosion-resistant chemical pump

Self-priming filter pump

Floating oil / objects collecting system

Oily water separating system

Oil & sludge separating system

■Note:

CORROSION RESISTANT
CHEMICAL PUMP

For hoop plating,small washing equipment

Magnet drive pump
CHEMIFREE
YD-300GS series
High efficient and energy saving.
Low noise and vibration pump.

- High efficient motor and low power consumption.
Single phase 200V (50/60Hz in common)
Easy wiring due to a terminal box on the motor.
Small and light design.
Fluoro-rubber O-ring (FKM) as standard.

Table with 10 columns: Type, Model, Bore(mm) Suc, Dis, Std. performance: THD (m)_ Capacity (L/min) 50Hz, 60Hz, Output (W) 50Hz, 60Hz. Rows include models YD-3320GS1, YD-3420GS1, YD-3520GS1, YD-3720GS1.

Notice

Notice: Pumps / parts which the main material is ETFE are regulated by List control. When expting them, the license by METI is necessary. Others are regulated by Catch-all by METI. Please observe the law of Export Control Regulations in Japan.

For FPD, Print circuit board, plating

Magnet drive pump
CHEMIFREE
YD-small GS series
Small, light & good cost performance.

- High lift type is also available.
The exclusive motor incorporates a thermal protector.
Easy wiring due to a terminal box on the motor.

Table with 10 columns: Type, Model, Bore(mm) Suc, Dis, Std. performance: THD (m)_ Capacity (L/min) 50Hz, 60Hz, Output (W) 50Hz, 60Hz. Rows include models YD-16X8GS1, YD-20A6GS1, YD-20Y6GS1, YD-16A6GSH1, YD-16Y6GSH1, YD-20A6GSH1, YD-20Y6GSH1, YD-16X8GSF1, YD-20A6GSF1, YD-20Y6GSF1.

For FPD, Print circuit board, plating process

Magnet drive pump
CHEMIFREE
YD-GS series
Small, light and space saving.

- Heat released and insulated bearing.
Installation operation is reduced for loose flanges.
Respond to low flow & high lift.
Easy wiring for a terminal box on the motor.

Table with 10 columns: Type, Model, Bore(mm) Suc, Dis, Std. performance: THD (m)_ Capacity (L/min) 50Hz, 60Hz, Output (kW) 50Hz, 60Hz. Rows include models YD-2500GS1, YD-2501GS3, YD-2502GS3, YD-2503GS3, YD-4000GS1, YD-4001GS3, YD-4002GS3, YD-4003GS3, YD-4003GSH3, YD-4005GS3, YD-5005GS3.

For FPD, Print circuit board, plating process

Magnet drive pump
CHEMIFREE
YD-GSF series
Well resistant ETFE pump which is available for strong acid and alkali.

- Heat released and insulated bearing.
Installation operation is reduced for loose flnages.
Respond to low flow & high lift .
Easy wiring for a terminal box on the motor.

Table with 10 columns: Type, Model, Bore(mm) Suc, Dis, Std. performance: THD (m)_ Capacity (L/min) 50Hz, 60Hz, Output (kW) 50Hz, 60Hz. Rows include models YD-2500GSF1, YD-2501GSF3, YD-2502GSF3, YD-2503GSF3, YD-4000GSF1, YD-4001GSF3, YD-4002GSF3, YD-4003GSF3, YD-4005GSF3.

For chemical plant/process

Magnet drive pump
YD-GU series
The main material of Wet Parts Kit is ETFE and it is possible to transfer high temp. or purity liquid.

- Double capsule structured impeller is adopted to resist corrosion and prevent penetration.
The casing is made of ductile cast iron lined by natural ETFE.
Easy and safe maintenance for the back pull out system.

Table with 7 columns: Type, Model, Bore(mm) Suc, Dis, Mix. performance: THD (m)_ Capacity (L/min) *S.G.1.0 50Hz, 60Hz, Out put (kW). Rows include models YD-2501GU3, YD-2502GU3, YD-2503GU3, YD-2505GU3, YD-4001GU3, YD-4002GU3, YD-4003GU3, YD-4005GU3, YD-4007GU3, YD-4010GU3, YD-5005GU3, YD-5007GU3, YD-5010GU3.

For chemical plant/process

Magnet drive pump
YD-GTN series
Transferring chemical liquid with slurry / sludge is available.

- The impeller wearing structure responds to liquid with slurry/sludge.
High efficiency and power saving for unique thrust balance system.
Low NPSHr due to the full open suction structure.
Easy and safe maintenance for the back-pull-out structure.

Table with 7 columns: Type, Model, Bore(mm) Suc, Dis, Max. performance: THD (m)_ Capacity (L/min) *S.G.1.0 50Hz, 60Hz, Output (kW). Rows include models YD-4005GTN3, YD-4007GTN3, YD-4010GTN3, YD-5005GTN3, YD-5007GTN3, YD-5010GTN3, YD-6507GTN3, YD-6510GTN3, YD-6515GTN3, YD-6520GTN3, YD-6525GTN3, YD-8007GTN3, YD-8010GTN3, YD-8015GTN3, YD-8020GTN3, YD-8025GTN3, YD-8030GTN3, YD-10015GTN3, YD-10020GTN3, YD-10025GTN3, YD-10030GTN3, YD-10040GTN3.

For wastewater treatment countermeasures against earthquake

Self-priming maget drive pump
SUPERMAG
YD-GV series
Self-priming ability is 5 meters per 2 min. (Ambient clear water)

Table with 7 columns: Type, Model, Bore(mm) Suc, Dis, Std. performance: THD (m)_ Capacity (L/min) 50Hz, 60Hz, Output (kW). Rows include models YD-2500GV1, YD-2501GV3, YD-2502GV3, YD-4001GV3, YD-4002GV3, YD-4003GV3, YD-5002GV3, YD-5003GV3, YD-5005GV3.

YD-small GV series

Table with 7 columns: Type, Model, Bore(mm) Suc, Dis, Std. performance: THD (m)_ Capacity (L/min) 50Hz, 60Hz, Output (kW). Rows include models YD-20Y6GV1, YD-20A6GV1, YD-2000GV1.

For wastewater treatment countermeasures against earthquake

Self-priming magnet pump
SUPERMAG
YD-GVF series
Well resistant ETFE pump which is available for strong acid and alkali.

Table with 7 columns: Type, Model, Bore(mm) Suc, Dis, Std. performance: THD (m)_ Capacity (L/min) 50Hz, 60Hz, Output (kW). Rows include models YD-2501GVF3, YD-2502GVF3, YD-4001GVF3, YD-4002GVF3, YD-4003GVF3, YD-5002GVF3, YD-5003GVF3, YD-5005GVF3.

YD-big GV series

Table with 7 columns: Type, Model, Bore(mm) Suc, Dis, Std. performance: THD (m)_ Capacity (L/min) 50Hz, 60Hz, Output (kW). Rows include models YD-8005GV1/3, YD-10007GV1/3, YD-10010GV1/3.

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

CORROSION RESISTANT
CHEMICAL PUMP

For wastewater treatment

Mechanical seal pump

YD-GSM(F) series

YD-GS series
with Mechanical seal.

- Suitable to transfer wastewater with a little slurry because of the mechanical seal pump with the open impeller.

Type	Model	Bore(mm)		Std. performance: THD (m)_Capacity (L/min)				Output (kW)
		Suc	Dis	50Hz		60Hz		
				Std. performance	Std. S.G.	Std. performance	Std. S.G.	
GSM	YD-2500GSM1	25	25	8 - 60	1.1	8 - 60	1.1	0.4
	YD-4001GSM3	40	40	10 - 110	1.1	10 - 110	1.1	0.75
	YD-4002GSM3	50	40	10 - 220	1.1	10 - 220	1.1	1.5



Mechanical seal self-priming pump

YD-GVM(F) series

YD-GV series with Mechanical seal.

- Suitable to pump up waste raw water with a little slurry because of self-priming pump.

Type	Model	Bore(mm)		Std. performance: THD (m)_Capacity (L/min)				Output (kW)
		Suc	Dis	50Hz		60Hz		
				Std. performance	Std. S.G.	Std. performance	Std. S.G.	
GVM	YD-2500GVM1	25	25	8 - 40	1.1	8 - 40	1.1	0.4
	YD-4001GVM3	40	40	8 - 110	1.1	8 - 110	1.1	0.75
	YD-5002GVM3	50	40	10 - 200	1.1	10 - 200	1.1	1.5



Suitable for filtered circulation in various plating device.

For filtered circulation in plating device

Sealless circulation pump

DRYFREE
YD-small VK series

【Suitable for circulation in various plating device.】

- Fully compatible with YD-LO-E.
- Suitable for gold plating.
- Easy maintenance for sealless.
- Resistant to dry running.

Type	Model	Bore(mm)		Std. performance: THD (m) Capacity (L/min) *S.G.1.0				Output (kW)
		Suc	Dis	50Hz		60Hz		
				Std. performance	Std. S.G.	Std. performance	Std. S.G.	
VK	YD-20Y0VK1	25	20	4 - 60	1.1	4 - 60	1.1	0.2
	YD-2500VK1	40	25	8 - 70	1.1	8 - 70	1.1	0.4



YD-VK series

Resistant to slurry/sludge and dry running
for sealless

- Suitable for circulation in scrubber system/plating device.
- Easy maintenance for sealless.
- Resistant to dry running.

Type	Model	Bore(mm)		Std. performance: THD (m)		Capacity (L/min)*S.G.1.0		Output (kW)
		Suc	Dis	50Hz		60Hz		
				Std. performance	Std. S.G.	Std. performance	Std. S.G.	
VK	YD-4001VK3	50	40	9 - 150	1.1	8 - 120	1.1	0.75
	YD-4002VK3	50	40	10 - 300		8 - 300		1.5
	YD-4003VK3	50	40			2 - 350		2.2
	YD-5003VK3	65	50	12 - 350		—		
	YD-5005VK3	65	50	—		15 - 550		3.7
	YD-6505VK3	80	65	15 - 550		—		5.5
	YD-6507VK3	80	65	18 - 700		—		7.5
	YD-6510VK3	80	65	—		25 - 850		



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For pumping up wastewater with slurry

Sealless vertical self-priming pump

SELFREE

YD-NSF series

YD-SF series

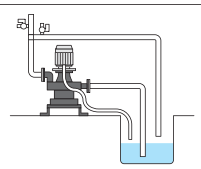
Sealless vertical pump
with self-priming ability.

- Valveless self-priming pump.
- Resistant to dry running or sealless structure.
- Easy maintenance for sealless.



<NSF>

<SF>



Type	Model	Bore(mm)		Std. performance: THD (m)_Capacity (L/min) *S.G.1.0				Out put (kW)
		Suc	Dis	50Hz		60Hz		
				Std. performance	Std. S.G.	Std. performance	Std. S.G.	
NSF	YD-2500NSF1	25	25	6 - 60	1.05	—	—	0.4
	YD-2501NSF3			6 - 60	1.7	8 - 70	1.05	0.75
	YD-2502NSF1			7 - 60	2.0	8 - 70	1.8	1.5
	YD-4001NSF3	40	40	7 - 100	1.05	—	—	0.75
	YD-4002NSF3			7 - 100	1.8	9 - 150	1.05	1.5
	YD-4003NSF3			7 - 100	2.0	9 - 150	1.45	2.2
	YD-5002NSF3	50	50	9 - 200	1.05	—	—	1.5
	YD-5003NSF3			9 - 200	1.45	11 - 200	1.05	2.2
	YD-5005NSF3			9 - 200	2.0	11 - 200	1.6	3.7
	SF	YD-8005SF3	80	80	15 - 350	1.05	—	—
YD-8007SF3		15 - 350			1.5	18 - 350	1.05	5.5
YD-8010SF3		—			—	18 - 350	1.35	7.5
YD-10007SF3		100	100	12 - 700	1.05	—	—	5.5
YD-10010SF3				12 - 700	1.4	17 - 700	1.05	7.5

For etching

Sealless circulating pump

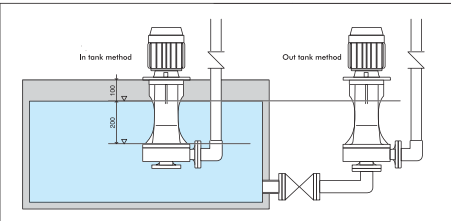
DRYFREE

YD-VP series

Suitable to circulate high S.G. liquid.
It is received will

as etching spray pumps.

- Easy maintenance for no bearing.
- Resistant to be dry running.



Type	Model	Bore(mm)		Std. performance: THD (m)_Capacity (L/min)				Output (kW)
		Suc	Dis	50Hz		60Hz		
				Std. performance	Std. S.G.	Std. performance	Std. S.G.	
VP	YD-5003VP3	65	50	12 - 300	1.4	11 - 300	1.4	2.2
	YD-5005VP3			15 - 430		15 - 430		3.7
	YD-6507VP3	80	65	17 - 600		22 - 400		5.5
	YD-6510VP3			18 - 750		20 - 750		7.5

For electroless nickel, desmear

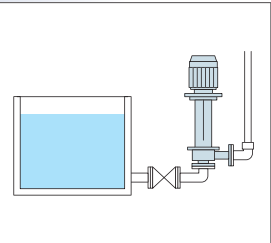
Sealless circulating pump

DRYFREE S

YD-LON-SU series

Stainless vertical pump

- Made of SCS16. (equivalent SUS316L)
- Resistant to dry running.
- Easy maintenance for sealless.



Type	Model	Bore(mm)		Std. performance: THD (m)_Capacity (L/min)				Output (kW)
		Suc	Dis	50Hz		60Hz		
				Std. performance	Std. S.G.	Std. performance	Std. S.G.	
LON-SU	YD-4001LON3	50	40	10 - 100	1.1	7 - 100	1.1	0.75
	YD-4002LON3			13 - 200		13 - 200		1.5
	YD-4003LON3			—		14 - 350		2.2
	YD-5003LON3	65	50	14 - 350		—		—
	YD-5005LON3			18 - 500		18 - 500		3.7

For tank yard / pit

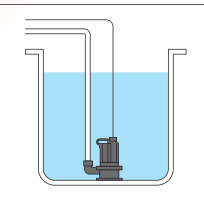
Submersible magnet drive pump

SUBMERSE

YD-GWN series

Corrosive-resistant pump that
all wetted parts are made of resin.

- Available for strong acid and alkali liquid.
- The magnet drive structure prevents liquid from going into the motor.
- Easy handling & operation.



Type	Model	Bore(mm)		Std. performance: THD (m)_Capacity (L/min)				Output (kW)
		Suc	Dis	50Hz		60Hz		
				Std. performance	Std. S.G.	Std. performance	Std. S.G.	
100V GWN	YD-25A6GWN1	with strainer	25	6 - 60	1.2	6.5 - 60	1.2	0.26
GWN	YD-5002GWN1		50	8.3 - 200	1.1	8.3 - 200	1.1	1.1
				6.2 - 200	1.3	4.6 - 200	1.3	
				3.6 - 200	1.5	2.5 - 200	1.5	
				—	—	11.9 - 100	1.1	
High head GWN	YD-5002GWN1		50	—	—	8.7 - 100	1.3	1.1
				—	—	6.4 - 100	1.5	

For liquid with slurry

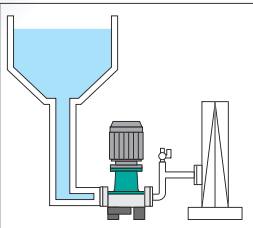
Vertical linear seal pump

SLURRY PUMP

YD-LRN-PP series

Available for taking up liquid
with crystallized slurry.

- Suitable to circulate liquid with CMP slurry.
- Suitable to circulate cerium oxide.
- No consumable parts like mechanical seals or grand packings.



Type	Model	Bore(mm)		Std. performance: THD (m)_Capacity (L/min)				Out pu (kW)
		Suc	Dis	50Hz		60Hz		
				Std. performance	Std. S.G.	Std. performance	Std. S.G.	
LRN	YD-2501LRN3	40	25	10 - 60	1.2	9 - 60	1.2	0.75
	—			13 - 100		1.5		
	YD-4002LRN3	50	40	13 - 100		—		—
	YD-4003LRN3			15 - 150		16 - 150		2.2
	YD-4005LRN3			17 - 250		19 - 250		3.7
	YD-4007LRN3			25 - 220		25 - 280		5.5

For chemical fining / experimental installation

Self-priming filter pump

CHEMIFINE

YD-CT series

Self priming pump and Filter pump become unified.

- No need to worry about dry running because priming water remains.
- Layout free. No need to be site-specific to install.
- Compact design. A pump is integral with a filter housing and self-priming tank.
- Simple structure and easy maintenance.



<13B5CT1>



<20□□CT1>

Type	Model	Bore(mm)		Max. spec. (Capacity L/h)	Power source (Phase/V)	Output (kW)	
		Suc	Dis	50Hz/60Hz in common			
				Capacity			Std. S.G.
Small CT	YD-13B5CT1	13	13	240～1020	1PH/100	55 (W)	
CT	YD-20A6CT1	20	20	600～2400	1.2	1PH/100	0.26
	1.2				3PH/200	0.26	
	1.6				3PH/200	0.4	

Floating oil & solids collecting / separating system

Double float which can adjust to various sites
Floating pump to collect floating objects and oil

GYROSKIMMER
YD-GYP

Floating pump to collect and transfer floating oil.
The double float smoothly follows swaying of waves and liquid level change and surficial oil is continuously sucked. It works well to collect oil in a coolant tank.

For Wastewater tank

Movie Double float

YD-800GYP





For spilled oil, floating oil/scum or from big tanks. For floating oil in coolant tanks.

Special specification

● Heavy duty type
YD-810GYP
To transfer floating oil with chips in coolant tanks or mud and sand at contaminated soil treatment sites.
【Spec.】 4m×40L/min.
【Power】 0.25kW

● High-lift type
YD-1600PS-T
To transfer floating oil in deep tanks where it is hard for self-priming or floating oil with much sludge / slurry.
【Spec.】 15m×100L/min.
【Power】 1.5kW

● Small type
YD-40PS
Small float type to be suitable for narrow spaces like a manhole.
【Spec.】 揚程4m×50L/min.
【Power】 0.25kW



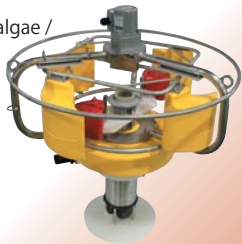

Model	Dis. bore dia. (mm)	Head (m)	Recovered amount (L/min.)	Power (kW)
YD-600GYP	25	4	15	0.25
YD-800GYP	38	4	40	0.25
YD-1000GYP		7	50	0.4
YD-1200GYP	50		100	0.75

To collect high viscosity oil and scum

ROTARY SCUM SKIMMER
YD-RSS

The double scrapers composed of the feather-shaped main float and guide float collect high viscosity oil not to make bridges.

- Wastewater tank at food factory
- Circulating tank at plating industry
- Night-soil disposal, Collect blue-green algae / waterseeds




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

Floating waste oil separating system for foreign materials or high viscosity oil


GREASECOMING
YD-FO

Available without concern for the oil viscosity change and foreign matter inclusion.
Space saving by changing floats.

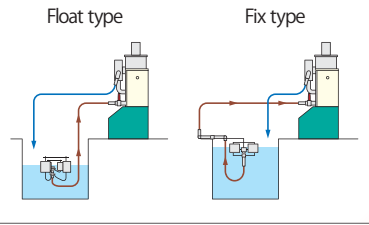
- Collect and separate mineral/animal/plant oil
- Temporarily collect and treat wastewater



Float suction



Separator



Float type Fix type


Model	Float		Pump		Separator		
	Suc. bore (mm)	Hose (mm)	Head (m)	Capacity (L/h)	Power (kW)	Size (L)	Treat-ability (m³)
YD-300FS-300P-35FO	35	19	-3	480	0.4	35	38 Joint 0.48~0.6

『GYRO SYSTEM』 combined with GYROSKIMMER and FO separator

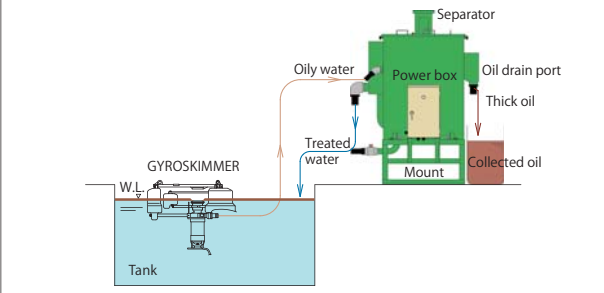
GYRO SYSTEM
YD-GYP-FO

Two types, small 200FO and large 400FO are offered.

- The control panel with a built-in inverter is attached and it is possible to wire and start-stop GYRO-SKIMMER from FO separator.
- The inverters for GYROSKIMMER and separator's scraper are loaded.
- Separating easy to bubble liquid or oily water is done better by controlling GYROSKIMMER from the inverter.
- The scraper for forced discharge can be adjusted to the oil viscosity by controlling an inverter.



Scraper FO separator



Separator

Oil drain port

Thick oil

Collected oil

Mount

Power box

Oily water

Treated water

GYROSKIMMER

W.L.

Tank

Model	GYROSKIMMER	Submersible pump			Separator				
		Head (m)	Cap. (t/h)	Power (kW)	Vol. (L)	Filling port (mm)	Drain port (mm)	Oil drain port (mm)	Scraper power (kW)
YD-600GYP-200FO	600GYP	4	0.9	0.15	approx. 200	φ25 Joint	φ38 Joint	φ50 Joint	0.04
YD-810GYP-400FO	800, 810, 1000, 1200GYP, 40PS	4~7	2.4~6	0.25~0.75	approx. 390	φ25 Joint	φ38 Joint	φ65 Joint	0.06

※ □: 800, 810, 1000, 1200GYP or 40PS is applied.

Definitive edition of collecting system for floating oil on coolant. No electric power

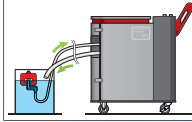

Portable floating oil collecting system
COOLANT SAVER PORTABLE
YD-CSPN

For Machine tools

The power source is only air!
No need to install it for each machine.

- Useful for many machines in a factory like machining center or lathe and grinding machines.
- Easy carrying and installation.

※ Homeotypical fix system is also available.




Model	Collecting pump	Collecting volume (L/min.)	Float installation min. level	Separator volume	Suction hose (mm)	Drain hose (mm)	Option
YD-270FS-16CSPN	Air drive Diaphragm	1~5	80mm	approx. 17.5L	φ13	φ25	Small float

Portable floating oil & precipitated slurry collecting system
COOLANT SAVER PORTABLE HYBRID
YD-CSPW

For Machine tools

Possible to collect floating oil and precipitated slurry both by one unit.
Easy to switch to the another operation.

- Useful for many machines in a factory like machining center or lathe and grinding machines.
- Easy carrying and installation.



Model	Collecting pump	Collecting volume (L/min.)	Separator volume	Suction hose (mm)	Drain hose (mm)	Option
YD-270FS-12CSPW	Air drive Diaphragm	Oily water: 1~5 Slurry: ~30	approx. 12L	Oily water: φ13 Slurry: φ25	Oily water: φ25 Slurry: φ25	Small float Bag filter

Floating oil collecting system for washing machine in narrow spaces

Washing saver
YD-CS

For Washing

Compact design.
Possible to high-speed collect for the original screw pump and patented float gate.

- To collect floating oil from washing works for plating and process.
- High temperature to 90°C is available.



25CS600N 25CS800N



Separator

Model	Pump			
	Dis. bore Dim. (mm)	Head (m)	Collecting volume (L/h)	Power (kW)
YD-25CS400N-80F	25	1.5	300	0.09
YD-25CS600N-150F				
YD-25CS800N-200F				