

From Intake, Circulation, Booster, Drainage and Wastewater treatment to Production equipment

Kawamoto's Pump Series

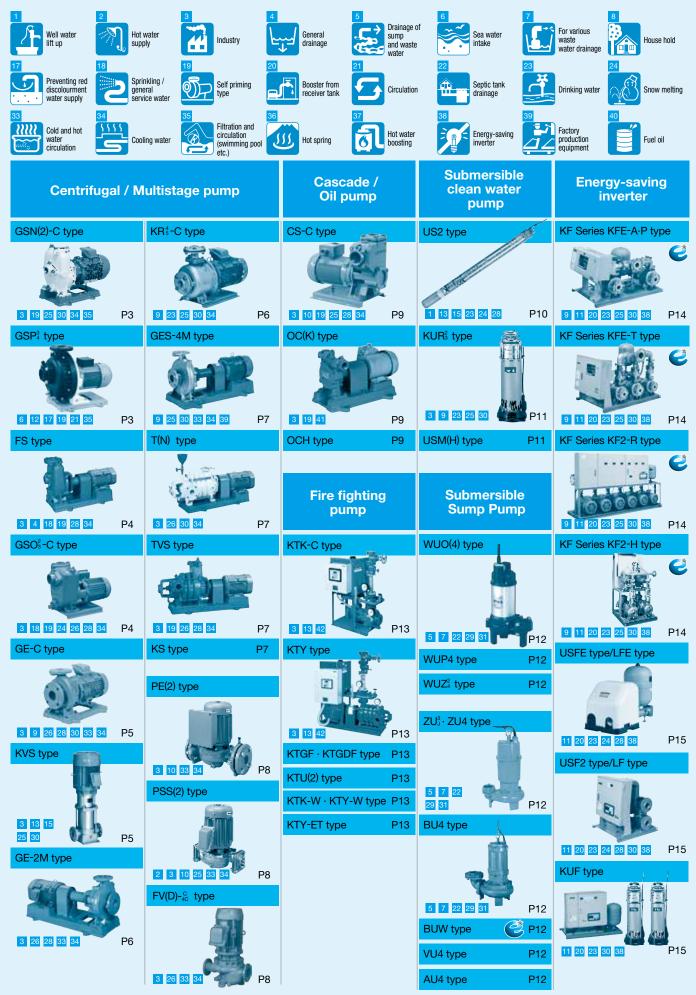
Lift up, Booster, Circulation, and Drainage

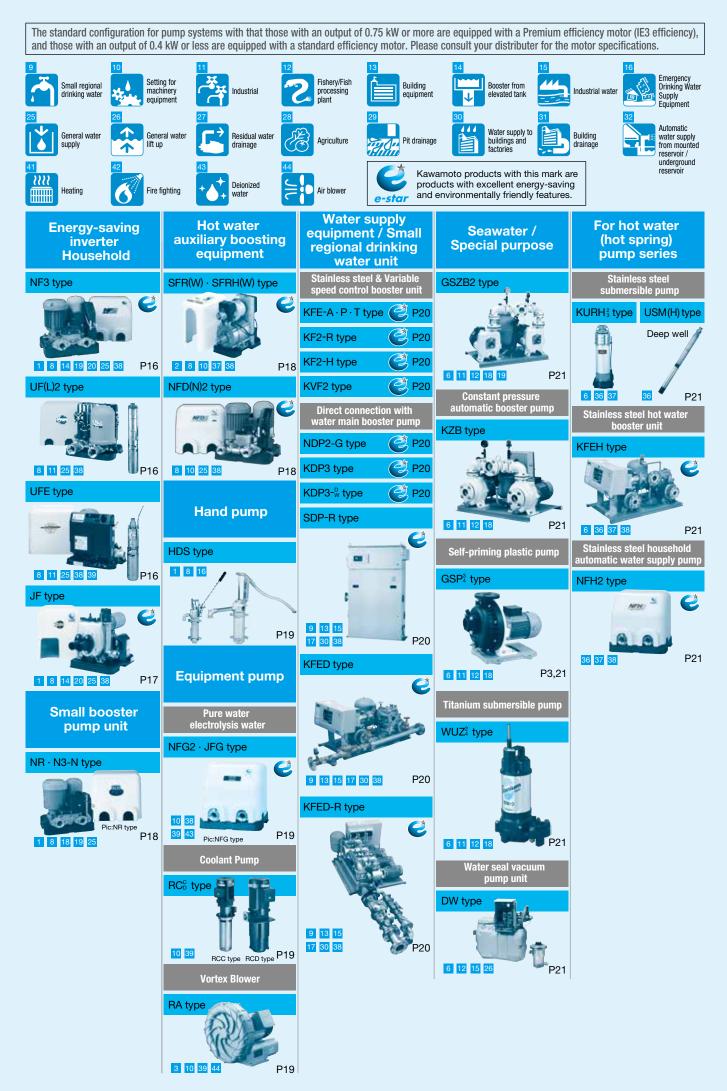
Water supply equipment / Small regional drinking water /Energy-saving inverter Seawater / Hot water (Hot spring)

Machine tool Production equipment



List of model





Centrifugal / Multistage pump series

	í s	Self- priming coating
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GSN(2)-C type Self-priming turbine pump

Features

- Preventing red discolorment of water by exclusively design as nylon coating
- Adoption of low noise type TEFC motor
- Self-priming pump construction does not require foot valve and makes priming works easier
 Easy maintenance and inspection due to back pull
- Easy maintenance and inspection due to back pull out construction

Standard specifications

Liquid		pH5.8~8.6
		Clean water 0~45°C (no freezing)
Suction to	tal head (20°C)	-6m
	Impeller	Bronze
Materials	Shaft	SUS403 or SUS304
	Casing	Cast iron + Nylon coating
Shaft sealing		Mechanical seal
	Туре	TEFC outdoor
	Phase	Three phase
Motor		2 pole
WOLDI	Speed	50Hz : 3,000min ⁻¹
		60Hz : 3,600min ⁻¹
	Efficiency	Premium efficiency (IE3)*
Installation		Outdoor installation available (expect 0.4kW single phase model)

* 0.75kW or more is equipped with a Premium efficiency motor.





KAWA HOPE

GSP³/₄ type

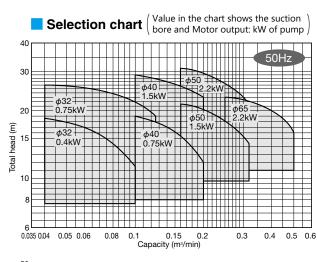
Features

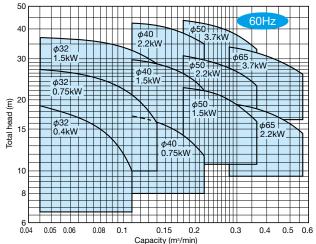
- Improved strength by using chemical resin material. Outdoor use allowed.
- Using stainless steel for metal material such as the shaft, which prevents corrosion and rust.
- Fast self priming and outstanding suction properties.
- Easy maintenance attributed by simple structure and semi-open impeller
- Flanged the discharging side connection part.

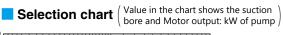
Standard specifications

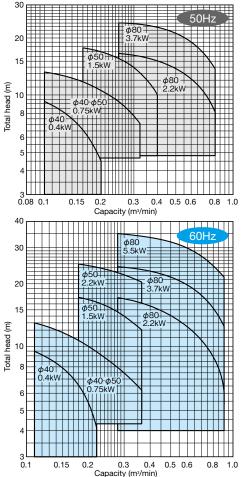
Liquid		Sea water / Clean water 0~60°C (no freezing)
		[Clean water] : pH5.8~8.6 chloride ion concentration 200mg/L or less
		[sea water] : pH7.8~8.2 chloride ion concentration 19000mg/L or less Sand content 1000mg/L or less
Suction to	tal head (20°C)	-7m (0.4kW or Bore size 80mm model: -6m)
	Impeller	Resin
Materials	Shaft	SUS316
	Casing	Resin
Motor	Туре	TEFC outdoor
	Phase	Three phase
	Efficiency	Premium efficiency (IE3)*
Installatio	n	Indoor/Outdoor

*0.75kW or more is equipped with a Premium efficiency motor.









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FS(4) type Sel-super



Features

- Over the years actual achievement as a self-priming
- Self-priming pump construction does not require foot valve and makes priming works easier
- Mechanical seal types are also available (bore size: 50~100mm)
- Easy maintenance and inspection due to back pull out construction

Standard specifications

Liquid		Clean water 0~40°C (no freezing)
Suction total head		Bore size 25mm/-3m
		Bore size 32mm/-3.5m (60Hz: -5m)
(20°C)		Bore size 40~65mm/-5.5m (60Hz: -6m)
		Bore size 80~150mm/-6m
	Impeller	Cast iron
Materials	Shaft	SUS403 (portion contacting liquid)
	Casing	Cast iron
Shaft sealing		Gland packing, Mechanical seal
	Туре	TEFC outdoor (single phase 0.4kW or less has ODP motor)
	Phase	Three phase
Motor		4 pole
	Speed	50Hz: 1,500min ⁻¹
		60Hz: 1,800min ⁻¹
	Efficiency	Premium efficiency (IE3)*
Installation		Indoor

*0.75kW or more is equipped with a Premium efficiency motor.



GSO²₃-C type

Features

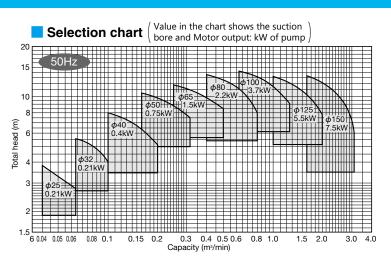
- Superior suction performance make it possible to pump up even from deep wells
- Strong and durable construction against sand by adopting special kind mechanical seal
 The protection guides
- The protection switch (manual return) provides safety.
- A semi-open type impeller is resistant to foreign objects such as sand. A Back Pull Out structure is incorporated.

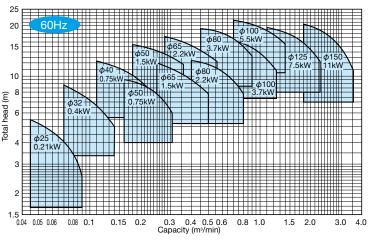
Standard specifications

Liquid		Clean water 0~40°C(no freezing)
Suction total head ^{*1} (20°C)		Bore size 40mm/0.4kW/-8.5m(Max9m)
		Bore size 40mm/0.75kW/-8m (Max9m)
(20 C)		Bore size 50mm/0.75, 1.5kW/-8m (Max8.4m)
	Impeller	Bronze or Stainless Cast Steel or Resin
Materials	Shaft	SUS304 (portion contacting liquid)
	Casing	Cast iron
Shaft seal	ing	Mechanical seal
	Variation	TEFC outdoor
Motor	Phase	Three phase
	Speed	50Hz : 3,000min ⁻¹
		60Hz : 3,600min ⁻¹
	Efficiency	Premium efficiency (IE3)*2
Installatio	n	Indoor

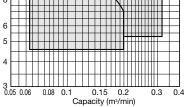
Installation Indoor

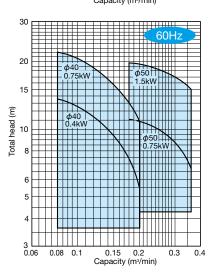
(*1) Discharge performance may drop when pump operate under negative suction total head. (*2) 0.75kW or more is equipped with a Premium efficiency motor.





Selection chart (Value in the chart shows the suction bore and Motor output: kW of pump)





Centrifugal / Multistage pump series



GE-C type



Features

- Compact, light weight and less installation space by adoption of 2 pole electric motor
- Long life mechanical seal is adopted for shaft sealing
- Easy maintenance and inspection without dismantle of piping due to back pull out construction and simple structure
- Evaluated item of <Horizontal centrifugal pump> by (C) Public Buildings Association., Ltd. (Japan)

Standard specifications

Liquid		Clean water 0~90°C (no freezing)
Suction total head (20°C)		-6m (60Hz Bore size 50mm 0.75kW : -3.2m, bore size 80mm 5.5, 7.5kW : -5.5m
	Impeller	Cast iron or Bronze
Materials	Shaft	SUS304
	Casing	Cast iron
	Туре	TEFC outdoor
	Phase	Three phase
Motor	Speed	50Hz : 3,000min ⁻¹
		60Hz : 3,600min ⁻¹
	Efficiency	Premium efficiency (IE3)
Installation		Indoor



KVS type

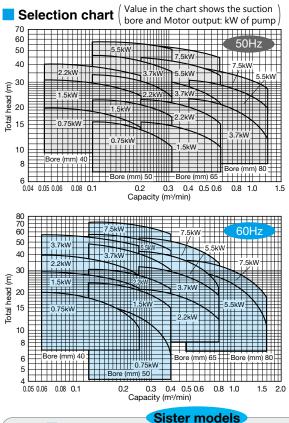
Features

- Compact, light and space saving design
- Adoption of Stainless steel precision casting for Casing, stage casing, etc.
- Mechanical seal can be changed without removing electric motor due to outstanding construction feature (unit type mechanical seal cover with mechanical seal support and spacer shaft coupling) (5.5kW or more)

Standard specifications

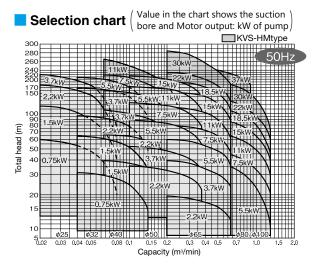
Liquid		Clean water 0~90°C (no freezing)
Suction total head (20°C)		Bore 25~50mm/-6m
		Bore 65mm/-5m
		Bore 80mm·100mm (5.5kW·50Hz) /-4m
		Bore 80mm·100mm (7.5~37kW·50Hz) /-5m
		Bore 80mm·100mm (60Hz) /-3m
	Impeller	SCS13 or SUS304
Materials	Shaft	SUS316
	Casing	SCS13
Shaft sealing		Mechanical seal (SiC x Carbon)
	Туре	TEFC outdoor (11~37kW : indoor)
	Phase	Three phase
Motor	Speed	50Hz : 3,000min ⁻¹
		60Hz : 3,600min ⁻¹
	Efficiency	Premium efficiency (IE3)
Flange		JIS 20K equivalent
Installation		Indoor/outdoor (11~37kW : indoor)

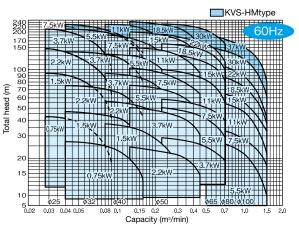
* KVS-HM : for high pressure





Stainless steel GES-C type Bore: 40~65mm Motor: 0.75~7.5kW (50Hz) 1.5~7.5kW (60Hz)







GE-2M type



Features

- Compact, light weight and less installation space by adoption of 2 pole electric motor
- Other than standard model (GE-2M type) , Nylon coating type (GEN-2M type) is also available
- Long life mechanical seal is adopted for shaft sealing
- Easy maintenance and inspection without dismantle of piping due to back pull out construction and simple structure

Standard specifications

Liquid		Clean water 0~90°C (no freezing)
Suction to	otal head (20°C)	within -6m (it may differ depending of model inquire.)
	Impeller	Cast iron or Bronze
Materials	Shaft	SUS403 (portion contacting liquid)
	Casing	Cast iron
	Туре	TEFC indoor
	Phase	Three phase
Motor	Crossed	50Hz : 3,000min ⁻¹
	Speed	60Hz : 3,600min ⁻¹
	Efficiency	Premium efficiency (IE3)*
Installatic	n	Indoor
* 0.75kW or	more is equipped	with a Premium efficiency motor.

• GE-4M (4 poles motor) type are also available. Inquire for further information.

KR⁴₅-C type

Features

- Stainless steel precision casting
- Quiet sound design of pump and electric motor enable pump unit operation with lower noise
- Easy maintenance and inspection due to back pull out construction

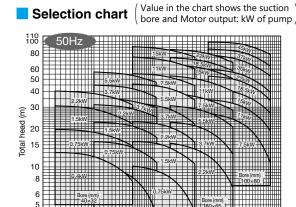
Standard specifications

Liquid		Clean water 0~40°C (no freezing)
Suction to	tal head (20°C)	-6m
	Impeller	Resin or SCS13 or Bronze
Materials	Shaft	SUS304 (portion contacting liquid)
	Casing	SCS13
	Shaft sealing	Mechanical seal (Ceramic x Carbon)
	Туре	TEFC indoor
Matar	Phase	Three phase
Motor	Speed	50Hz : 3,000min ⁻¹
		60Hz : 3,600min ⁻¹
	Efficiency	Premium efficiency (IE3)*
Companio	on flanges	Special flange

* Three phase 0.75kW or more is equipped with a Premium efficiency motor.



Stainless steel KR5-M type Bore : 40~65mm Motor : 1.5~7.5kW

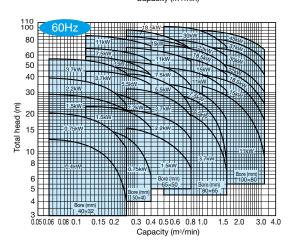


0.3 0.4 0.50.6 0.81.0 0.04 0.05 0.06 0.08 0.1 0.15 0.2 Capacity (m3/min)

1.5 2.0

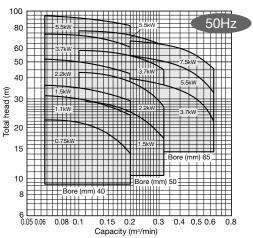
3.0

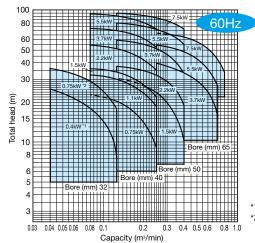
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Selection chart (Value in the chart shows the suction bore and Motor output: kW of pump)





*1: Single phase100V

Centrifugal / Multistage pump series

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GES-4M type

Features

- Sanitary and clean due to stainless material are used for all portions contacting liquid
- Mechanical seal standard adopted.TEFC electric motor as standard
- High pump efficiency and water pumping characteristics.



Standard specifications

Liquid ^{*1}		Clean water 0~90°C (no freezing)
Suction to	tal head (20°C)	-6m
	Impeller	SCS14
Materials	Shaft	SUS316 (portion contacting liquid)
	Casing	SCS13
Shaft sealing		Mechanical seal (SiC x Carbon)
Туре	Туре	TEFC inoor
	Phase	Three phase
Motor	Speed	50Hz: 1,500min ⁻¹
		60Hz:1,800min ⁻¹
	Efficiency	Premium efficiency (IE3) ^{*2}

(*1) Inquire for special kind liquid use.

(*2) 0.75kW or more is equipped with a Premium efficiency motor.





T(N) • TK(N) type Turbine pump (Multi-stage pump)

TVS type • KS type

Self-priming turbine pump

Features

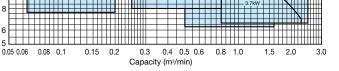
T(N) · TK(N) type

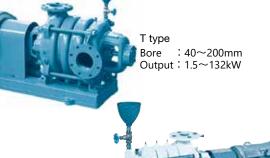
- Less installation space according to simple and compact pump construction with light weight
- Other than standard model (T/TK), Nylon coating type (TN/TKN) is also available
- Evaluated item of <Horizontal centrifugal pump> by (C) Public Buildings Association., Ltd. (Japan) (T/TK type)

TVS type, KS type

- Self-priming pump construction does not require foot valve and makes priming works easier
- Various kind of models for small to large flow rate

Selection chart (Value in the chart shows the suction bore and Motor output: kW of pump 40 50Hz Ê 20 450 1.5kW Total head 15 φ40 - 0.75kW 10 ¢40 0.04 0.05 0.06 0.08 0.1 0.15 0.2 0.3 0.4 0.5 0.6 0.8 1.0 1.5 2.0 3.0 Capacity (m3/min) 50 60Hz 40 30 φ100 15kW Ē 20 head 15 Fotal 10





TVS type Bore :40~150mm Output:1.5~75kW

TN type Bore :40~150mm Output:1.5~75kW

KS type Bore : 40~80mm Output : 2.2~22kW



PE(2) type

Features

- Single phase motor is equipped with a motor protective device which prevent motor burnout. (250W or less)
- All model adopts totally-closed motor. The quiet design enables a low level noise as an open motor.
- The newly-developed high class mechanical seal prevents mechanical chatter. This seal prevents leak and extends the products life.

Standard specifications

Liquid		Clean water 0~90°C (no freezing)
Suction total head		Bore 20~65mm -6m
(20°C)		Bore 80mm -5.5 (-3m for 60Hz)
	Impeller	SCS13
Materials	Shaft	SUS304 (portion contacting liquid)
	Casing	Cast iron
Shaft sealing		Mechanical seal
	Туре	TEFC outdoor
	Phase	Single phase
Motor		Three phase
WIOLOF	Speed	50Hz : 3,000min ⁻¹
		60Hz:3,600min ⁻¹
	Efficiency	Premium efficiency (IE3)*
Installatio	on	Indoor/Outdoor

P in Line pump

* Three phase 0.75kW or more is equipped with a Premium efficiency motor.

Note) Apply for anti-freezer within following specification.

- Kind: Nybrine Z-1 and Showbrine PP super
 Density: 35~50%
- Liquid temperature: 0∼90°C



FV(D) - ^C_{4C} type Vertical type Centrifugal Pump

Features

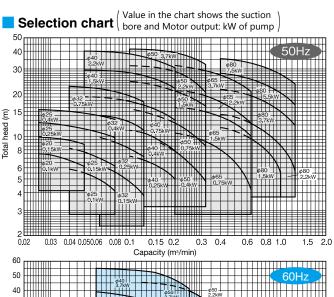
- By original casing* design realized high efficiency and miniaturization. Furthermore, safe operating with low noise and
- vibration.
- Enable to install in the between pipe, saving space. (Installing space is almost half compare to our centrifugal pump)
- Superior maintenance. Easy removing air to prevent the mechanical seal dry operating.
- By original structure prevent to put fingers in the shaft part so, do not need protector, easy inspecting for leaking water from mechanical seal from outside.

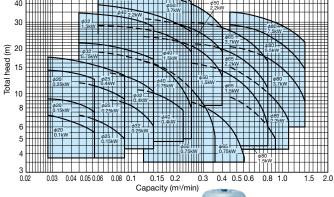
*JAST (Just Accorded Stream) structure Realizing harmonious water flow, contributing miniaturization of casing and high pump efficiency.

Standard specifications

Liquid	-	Clean water 0~80°C (No freezing, pH 5.8~8.6)
	Impeller	Cast iron or Ductile cast iron
Materials	Shaft	SUS420J2Q
	Casing	Cast iron or Ductile cast iron
Shaft sea	ling	Mechanical seal (SiC x Carbon)
	Туре	TEFC outdoor 4 pole
Motor	Phase	Three phase
	Speed	50Hz: 1,500min ⁻¹
		60Hz : 1,800min ⁻¹
	Efficiency	Premium efficiency (IE3)
Installatio	on	Indoor (temperature: 0~40°C, humidity: less than 90%RH)

•FV(D)-C type(2 pole motor) is also available.





Stainless steel PSS (2) type Petit Line Bore : 20~80mm Motor : 0.06~7.5kW

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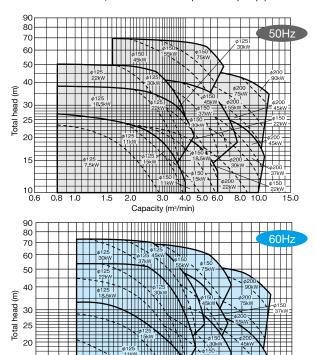
10 L 0.6

0.8 1.0

1.5 2.0

Sister models

Value in the chart shows the suction Selection chart (bore and Motor output: kW of pump



3.0

Capacity (m3/min)

4.0 5.0 6.0



15.0

8.0 10.0

Cascade pump series



CS(2)-C type

Features

Liquid

Materials

Motor

- Self-priming pump construction does not require foot valve and makes priming works easier
- Long-life product with high suction performance and durability
- Easy maintenance due to adoption of sealed ball bearings required no oiling.
- Equipped with a motor protective switch which prevent motor burnout.

-7m

Bronze

Cast iron

ODP or TEFC

Three phase

50Hz : 3,000min⁻¹

60Hz : 3,600min⁻¹

Standard specifications

Suction total head (20°C)

Shaft

Туре

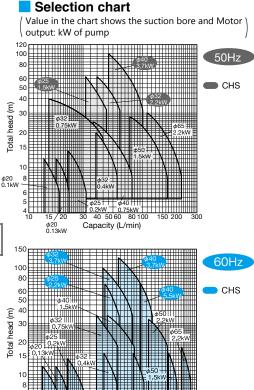
Phase

Speed

Casing

Impeller

a	S une
	P



	0
CHS type	
Bore : 25~40mm	-
Motor∶1.5~5.5kW	

Sister models



Clean water 0~40°C (no freezing)

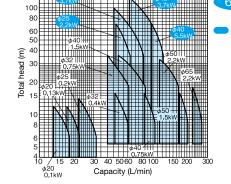
SUS304 or SUS403 (portion contacting liquid)



Do not use with the head (m) out

of specified point. Could cause the motor burn out.

Bore : 20~25mm Motor: 0.2~0.4kW



Oil pump series

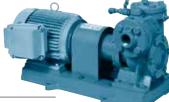


OC(K) • OCH type

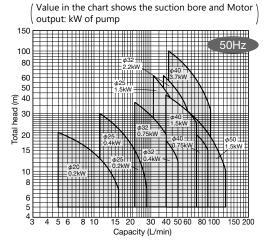
Features

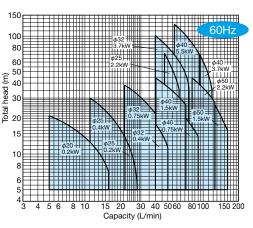
- The vortex pump enables quiet operation. (Unlike the gear pump, there is no gear contact section)
- Since it is a self priming type, it operates with priming the oil once, and easy to pump oil.
- Mechanical seal is used for the shaft sealing ,which prevents oil leak and keeps clean.
- Increased safety explosion-proof type is adopted as standard
- Conformed to "Public building construction standard specification" by Public building association. (Japan)
- OC(K) type for A type heavy oil(high-calories special A type heavy oil) is also available.
- OC-TT type, a service tank installed unit, is also available.





Selection chart





Standard specifications

	Standard Specifications			
Liquid		Kerosene, light oil, A type heavy oil (*) Fuel oil of 45 centistokes or less 60°C or less	OCH type	
	Impeller	Bronze		
Materials	Shaft	SUS403		
Casing	Casing	Cast iron	Do not use with the head (m) out	
Shaft seal	ing	Mechanical seal	of specified point. Could cause the motor burn out.	
	Туре	Increased safety explosion-proof type (Japan)		
Motor	Phase	Three phase		
	Grand	50Hz : 1,500min ⁻¹ 60Hz : 1,800min ⁻¹ (OC(K) type)		
	Speed	50Hz : 3,000min ⁻¹ 60Hz : 3,600min ⁻¹ (OCH type)		

* Use the OCK type for special A type heavy oil.

Submersible clean water pump series

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US2 type

SANRONG

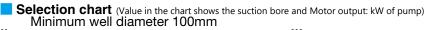
Features

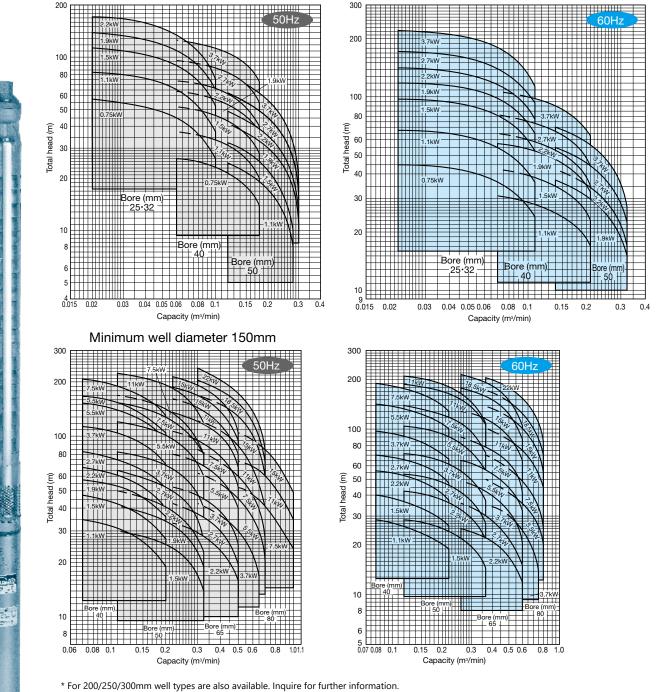
- The pump section is resistant to sand, and in addition a thick precision casting stainless steel is incorporated. More strong to sand and reliable by a new-type motor excellent in durability and bearing lubrication.
- The pump is stainless steel and resin. The motor section is made of stainless steel and prevents the formation of red water. The well lid is also made of stainless steel for sanitation purposes.
- The pump's flow passage is smooth and has little loss. High pump characteristics are realized, and the pump's entire length is downsized (compared to conventional products).
- The key components are made of precision cast stainless and steel, and are strong against rust and corrosion. When used in combination with the new stainless steel motor having outstanding sand resistance properties, water can be supplied stably for a long time.

Standard specifications

Liquid		Clean water $0 \sim 30^{\circ}$ C (3.7kW or less: $0 \sim 35^{\circ}$ C) (pH5.8 \sim 8.6,Chloride ion concentration 200mg/L or less, Sand content 50mg/L or less (fine sand dia. 0.1 \sim 0.25mm or less))
	Impeller	SCS13
Materials	Shaft	SUS304 or SUS403
Materials	Casing	SCS13 (32 and 25mm bores are middle casing SUS304 + resin)
Bearing		SiC×SiC
	Туре	Canned submersible motor
Motor	Phase	Three phase (55kW : 400V)
	Speed	50Hz : 3,000min ⁻¹
		60Hz : 3,600min ⁻¹

*400V type is also available





 For 200/250/300mm well types are also available. Inquire for further information.
 If installed to well with diameter larger than that described in the specification table, the submerged motor may cause burn damage due to an insufficient cooling of motor. Install for the cooling flow rate to be as follows. Motor output 3.7kw or less: 0.075m/s. Motor output 5.5kw or more: 0.1m/s.

Submersible clean water pump series



USM(H) type

Features

- This pump newly developed for spa use can be used with hot spa water up to 70°C for USM type, up to 90°C for USMH type (80°C for some models).
- The key components are made of precision cast stainless steel (SCS13) and have a long life.
- SiC is used for the bearings to enhance the sand resistant design.

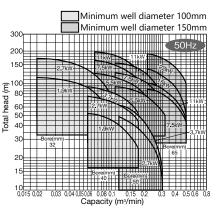
Standard specifications

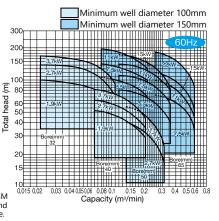
Liquid		Simple thermal, sodium-chloride thread, sodium-hydrogen carbonate pH6 to 9 (Sand content 50mg/L or less (fine sand dia. 0.1~0.25 mm or less)
	Impeller	SCS13
Materi- als	Shaft	SUS304 or SUS403
415	Casing	SCS13
Shaft sealing		SiC×SiC
	Туре	Canned submersible motor
Motor	Phase	Three phase
WOLOF	Caracal	50Hz : 3,000min ⁻¹
	Speed	60Hz : 3,600min ⁻¹
Max. submersing		USM : within 150 m
depth		USMH : within 350 m

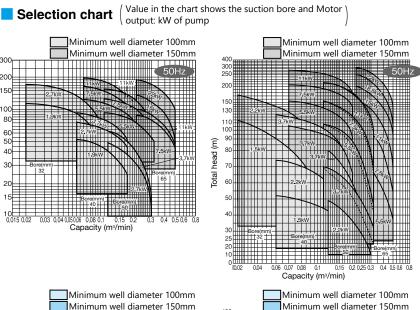
If installed to well with diameter larger than that described in the specification table,

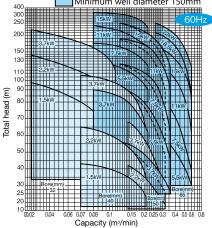
- the submerged motor may cause burn damage due to the cooling of motor.
- Install for the cooling flow velocity to be as follows. USM type: 0.1m/s or more USMH type that bore size is 32 and USNMH type: 0.31m/s or more others: 0.15m/s or more. * Accessories to prevent the occurrence of gas lock is also available (USMH-G type). Please inquire for details.



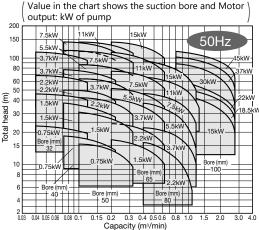


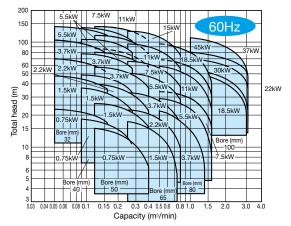






Selection chart





KUR² type



USM

type

USMH

type

Features

- Red water prevention structure mainly made of stainless steel, and resin and rubber.
- The pump casing and flanges are made from precision cast stainless steel to withstand heavy load and free from strain.
- Built in impact relief type check valve to protect the pump from water hammer thus long life is enjoyed.

Standard specifications

Liquid		Clean water $0 \sim 30^{\circ}$ C (0.75 \sim 2.2kW: $0 \sim 35^{\circ}$ C) (chloride ion concentration : 200mg/L or less, sand content 50mg/L or less)
	Impeller	SCS13 or Bronze
Materials	Shaft	SUS403 or SUS303
	Casing	SCS13 (Suction casing SUS304)
Motor	Туре	Canned submersible motor
	Phase	Three phase
	Speed	50Hz : 3,000min ⁻¹
		60Hz : 3,600min ⁻¹
Max subn	persing denth	10m

Max. submersing depth 10m

Sister models

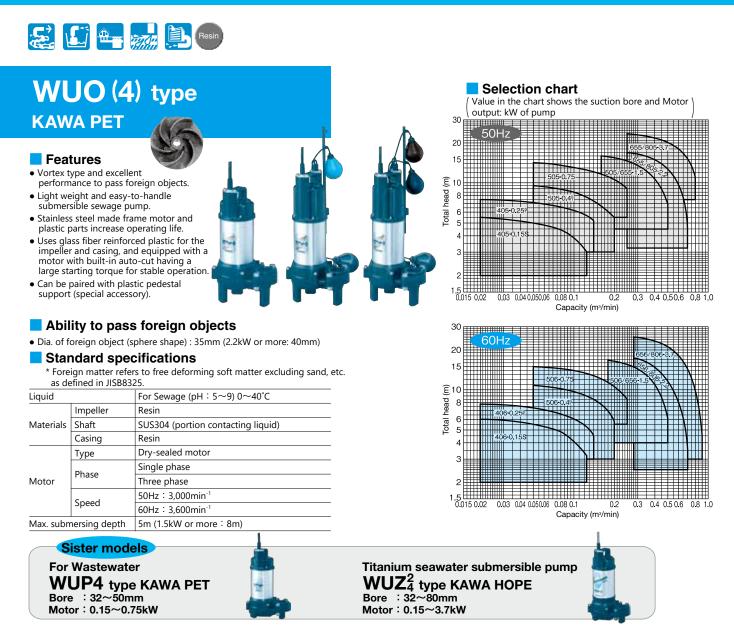
For hot water / hot spring submersible pump KURH²/₃ type

Bore : 32~50mm Motor : 1.9~7.5kW Liquid temperature: clean water 60°C or less horizontal installation



Sister models

Submersible Sump Pump Series





ZU³ · ZU4 type

Sewage water submersible pump

BU4 type

Sewage water submersible pump

BUW type

Stainless Non-clog impeller





Vortex with cutter Sewage water submersible pump



ZU3 type Bore : 50~80mm Output: 0.4~7.5kW



BUW type

Bore : 65~80mm

Output: 1.5~7.5kW





Output: 5.5~7.5kW

:50~100mm Output: 0.75~15kW



BU4 type Bore : 50~150mm Output: 0.75~22kW



AU4 type :50~100mm Output: 0.75~7.5kW



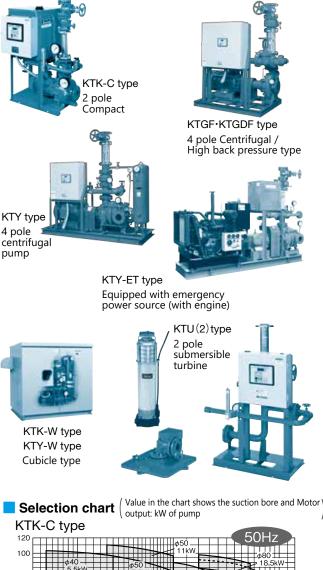


Fire fighting pump series

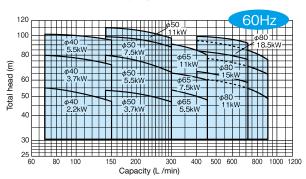


Products qualified by the Fire Equipment and Safety Center of Japan

SAFETY ACE® Series



80 head (m) 60 50 Total I 40 30 25 500 600 1000 1200 60 80 100 150 200 300 400 800 Capacity (L /min)



Note: Suction bore 80mm model is different form the pump bore because a reducer is attached. (Units without pump priming tanks are excluded)

Features

- By adopting a 50L pump priming tank/ 50L pressure tank and control panel adopting high functional microcomputer compatible to the new technological standard, the installation area is minimized.
- Standardizing full water/decreased water circuit in the pump priming tank/ fire tank/ supply tank. (Two level relays (a special accessory) are required in order to detect full water/decreased water in supply tanks.) Additionally, automatic inspection of the fire pump can be performed by simply installing the separately sold automatic inspection accessory.
- A pump priming tank is highly resistant to rust and scratches due to high-quality powder coating applied, without problems of holes forming after long term use. (Stainless steel materials models are also available Inquire)
- The pump priming tank provides an electrode type fluid level detection, enabling detection of full water/decreased water in the pump priming tank as a standard feature.
- A easy-to-read digital type ammeter/voltmeter is adopted for the pump performance inspection. Pressure and compound gauges with a large diameter of φ100 are equipped as a standard feature.
- All of the instruments can be inspected from a single side (panel side).

KTK-C type Compact type

Standard specifications

	Impeller	Bronze
Materials	Shaft	SUS304 or SUS420J2
	Casing	Cast iron
Motor	Туре	TEFC indoor
	Phase/Poles	Three phase/2 pole

KTGF·KTGDF type

Standard specifications

	Impeller	Bronze
Materials	Shaft	SUS420J2 or SUS403, SUS630
	Casing	Cast iron • Ductile cast iron (KTGDF)
Motor	Туре	TEFC indoor
	Phase/Poles	Three phase/4 pole

KTY type

Standard specifications

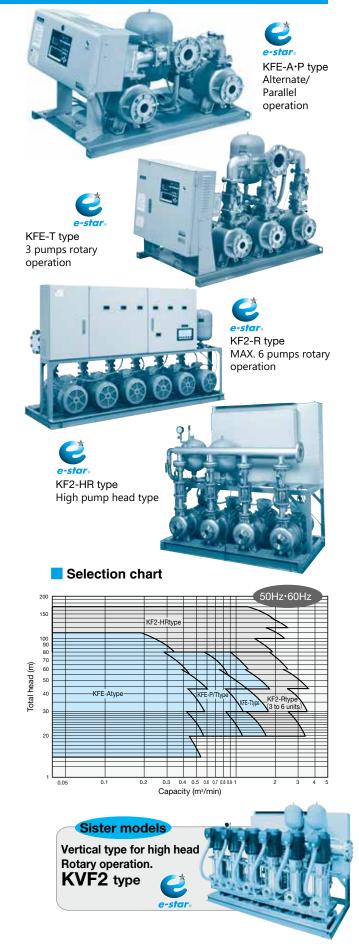
	Impeller	Bronze
Materials	Shaft	SUS403 or SUS420J2
	Casing	Cast iron
Motor	Туре	TEFC indoor
	Phase/Poles	Three phase/4 pole

KTU(2) type Submersible type

Standard specifications

	Impeller	SCS13 (80¢ : Bronze)
Materials	Shaft	SUS403
	Casing	Suction: SUS304 Discharge: SCS13
Matan	Туре	Canned submersible motor
Motor	Phase/Poles	Three phase/2 pole

KF type



Features

- By pump section's high efficiency design and IE5 or IE4 equivalent PM motor, the KFE type realized top class total efficiency in the industry.
- By optimally controlling the pump speed according to the changes in working water rate with the inverter, constant estimated terminal pressure water supply with little fluctuation at the water supply terminal is possible and maximum of 40% energy saving operation. (Kawamoto reducing valve type constant discharge rate water supply comparison)
- The pump casing and flanges are made from precision cast stainless steel to Withstand heavy load and free from strain. The connection section is mainly made of stainless steel, and resin, and the Bronze components prevents the formation of red water.
- All models are equipped with a low-noise totally-enclosed motor as a standard.
- Highly Resistant to insulation deterioration due to dust and moisture and has a long machine life.
- The soft stop method is adopted for the inverter, eliminating the sound of the magnet tripping, and enabling quiet water supply.
- Each pump has a high power factor device with standard DC reactor, which helps energy saving and controls the generation of high harmonics. Countermeasures against noise are also provided with a surge absorber and noise filter.

KFE-A·P·T type Alternate, alternate/ parallel, 3-unit rotary

Standard specifications

Control method		Constant estimated terminal pressure by frequency control (Discharge rate can also be controlled)
Operation	method	Alternate, alternate/parallel, 3-unit rotary
Liquid		Clean water 0~40°C (no freezing)
Suction co	ondition	0 to 5m of flow or up to -6 of suction total head
	pump	Stainless steel multi-stage turbine pump
Materials	Impeller	Resin or SCS13
Waterials	Shaft	SUS304 (portion contacting liquid)
	Casing	SCS13
	Туре	TEFC indoor
Motor		Poles: 4 or 8 (max. speed: 4,500min ⁻¹)
	Phase	Three phase
	Efficiency	Super premium efficiency (rank as IE5 or IE4)
Installation		Indoor (0~40°C / humidity : 90%RH or less / altitude : 1,000m or less)
		• • • • •

KF2-R type Rotary operation

Standard specifications

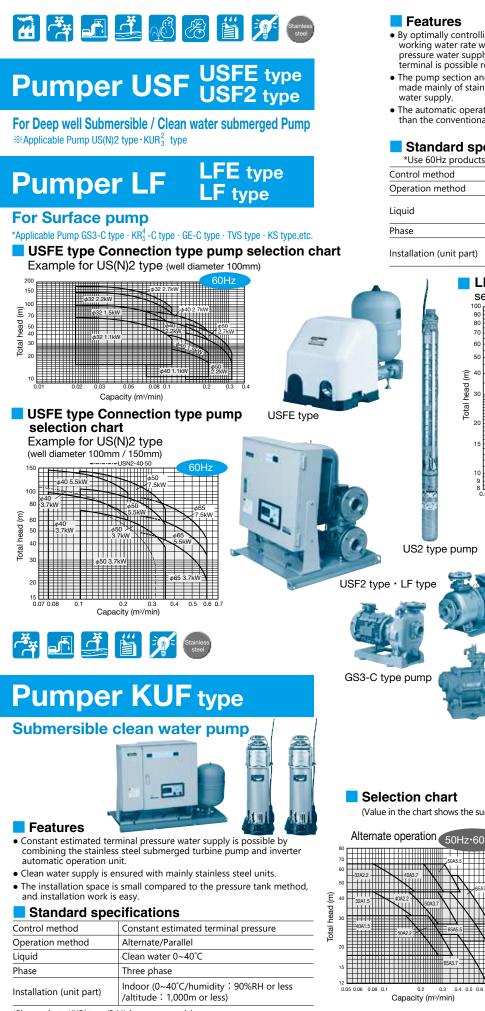
Control method		Constant estimated terminal pressure by frequency
		control (Discharge rate can also be controlled)
Operation	method	Alternate, alternate/parallel, rotary unit (MAX. 6 units)
Liquid		Clean water 0~40°C (no freezing)
Suction co	ondition	0 to 5 m of flow or within -6 m of suction total head
	pump	Stainless steel multi-stage turbine pump
Materials	Impeller	Resin or SCS13 or Bronze
waterials	Shaft	SUS304 (portion contacting liquid)
	Casing	SCS13
	Туре	TEFC indoor
Motor		Poles: 2 (Max. frequency in case automatic operation: 60Hz)
	Phase	Three phase
	Efficiency	premium efficiency (IE3)
Installatio	n	Indoor (0~40°C / humidity : 90%RH or less / altitude : 1,000m or less)

KF2-HR type Rotary operation

Standard specifications

	.aaia ope					
Control method		Constant estimated terminal pressure by frequency				
		control (Discharge rate can also be controlled)				
Operation	method	Alternate, alternate/parallel, rotary unit (MAX. 6 units)				
Liquid		Clean water 0~40°C (no freezing)				
Suction co	ondition	0 to 5 m of flow (*1) or within -6 m of suction total head (*2)				
	pump	Stainless steel multi-stage turbine pump				
Maxada	Impeller	Bronze				
Materials	Shaft	SUS304 (portion contacting liquid)				
	Casing	SCS13				
	-	TEFC indoor				
Matar	Туре	2 pole				
Motor	Phase	Three phase				
	Efficiency	premium efficiency (IE3)				
Installation		Indoor (0~40°C / humidity : 90%RH or less / altitude : 1,000m or less)				
		ack pressure exceed 5m or more. nin -4m, 11 or 15kW model:suction total head within -4m				

Note) Please consult Kawamoto to use long-hours with small amount of water.



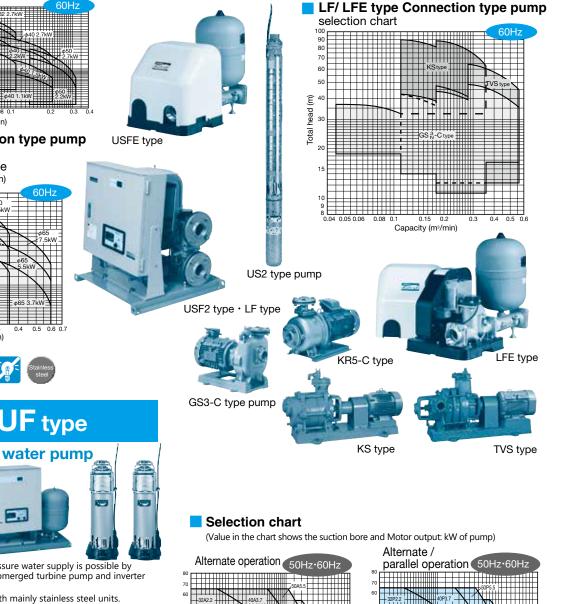
*Please refer to KUR² type (P.11) for pump material.

- By optimally controlling the pump speed according to the changes in working water rate with the inverter, constant estimated terminal pressure water supply with little fluctuation at the water supply terminal is possible regardless of fluctuation in the well water level.
- The pump section and over ground automatic operation unit are both made mainly of stainless steel and resin and rubber. This enables clean
- The automatic operation unit has a compact design, smaller and lighter than the conventional pressure tank type enabling easy installation.

Standard specifications

*Use 60Hz products for pumps to connect to

obe our iz produces re					
Control method	Constant estimated terminal pressure				
Operation method	Individual				
	USFE, 2 type 0~35°C, LF/LFE 0~40°C				
Liquid	(Refer to the fluid temperature of the connecting pump)				
Phase	Three phase				
Installation (unit part)	Indoor/Outdoor (0~40°C/humidity: 90% RH or less/altitude: 1,000m or less) *USF2/LF: Indoor				



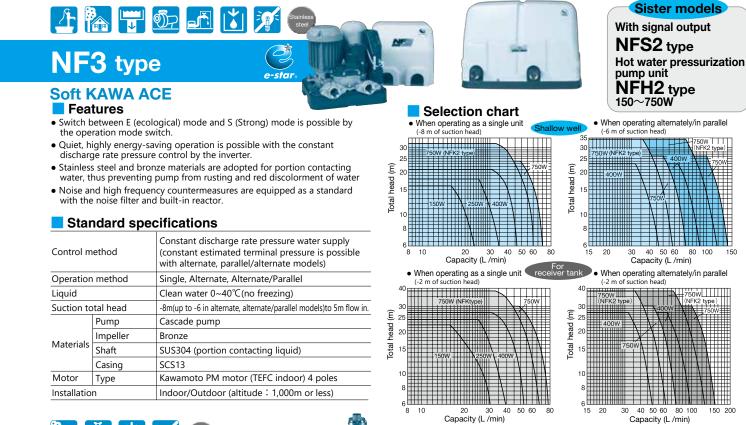
head

Total

Capacity (m3/min)

0.8 1.0

15



10

70

Total P 50



UF(L) 2type

KAWA ACE DEEPER

Features

- Highly energy-saving water supply is possible with inverter control. • Surge resistance and noise resistance are improved by modifying the electric
- parts assembly section and using a 4-core submerged cable. • Sanitary and clean due to stainless material are used for main parts of pump and automatic operation unit.
- The pump section is resistant to sand and has a long life by incorporating Sic bearings, and rubber seal liner ring, etc.
- Constant discharge rate water supply is possible without being affected by fluctuations in the well water level. When installed in a shallow well, a regulator is not required.

Standard specifications

Control method		Water supply with constant discharge pressure			
Liquid		Clean water 0~25°C (no freezing, sand content 50mg/L or less)			
	Impeller	Resin+SUS304 (UFL2 type : SCS13)			
Matariala	Shaft	SUS304			
Materials	Casing	Suction casing:SCS13, Discharge casing:SCS13, Stage casing:SUS304+Resin			
Motor	Туре	Canned submersible motor			
	Phase	Single phase or three phase			
Installation		Indoor/Outdoor (pump: under water)			

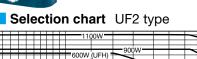


UFE type

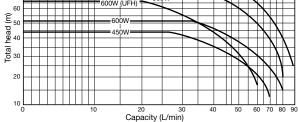
KAWA ACE DEEPER

Features

- This economical pump has a capacity approximately double the capacity of a jet pump.
- The wet sections of the pump and automatic operation unit are made of rust resistant stainless steel.
- Precision cast stainless steel, thick stainless steel, wear resistance resin, rubber and Sic bearings are incorporated in the pump which is strong against sand.
- The water pressure is maintained at a constant level by inverter control. 42 to 69% energy saving can be anticipated compared to the non-inverter jet pump. (Kawamoto comparison)



50 60

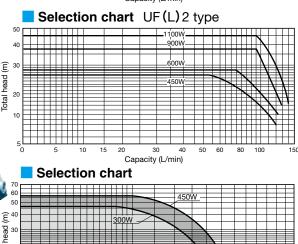


30

Alternate

100 150

Alternate/Parallel



Capacity (L/min)



automatic operation unit are both made mainly of stainless steel and resin and rubber. This enables clean water supply.

Water supply with constant discharge pressure with inverter.

Suction total head : (single operation) -12m · -18m · -24m · -30m · -35m

• The automatic operation unit has a compact design, smaller and lighter than the conventional pressure tank type enabling easy installation.

Clean water 0~40°C (no freezing)

SUS304 (portion contacting liquid)

Single phase100V (250W · 400W)

Indoor/Outdoor (altitude: 1,000m or less)

Suction total head : -7m (single operation)

Suction total head : -1m~In flow pressure within 5m

Kawamoto PM motor TEFC indoor (250W~750W)

Single phase 200V, Three phase 200V (400W · 750W) (*)

JF type Standard specifications

Single

SCS13

SCS13

*1100 / 1500W products are also available. Please inquire for detail.

Control method

Liquid

Suction

condition

Materials

Motor

Installation

Operation method

Deep well

Shallow well

For receiver

tank Impeller

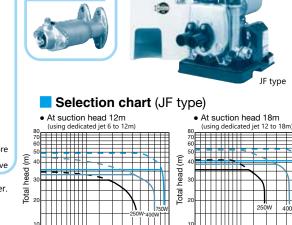
Shaft

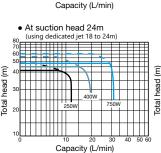
Casing

Туре

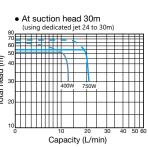
Phase/

Voltage

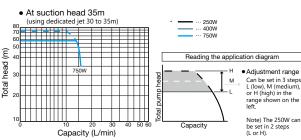




For shallow well jet



Capacity (L/min)

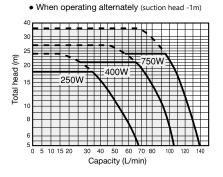


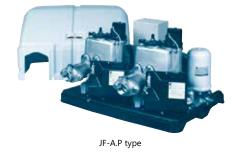
*For shallow well applications, please inquire

JF-A.P type Standard specifications

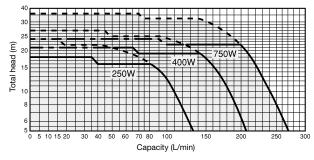
Control method		Water supply with constant discharge pressure with inverter.				
Operation	method	Alternate/Parallel				
Liquid		Clean water 0~40°C (no freezing)				
Suction	Shallow well	Suction total head : -7 of suction total head				
condition	For receiver tank	Suction total head \div -1m~In flow pressure within 5m				
	Impeller	SCS13				
Materials	Shaft	SUS304 (portion contacting liquid)				
	Casing	SCS13				
	Туре	Kawamoto PM motor TEFC indoor				
Motor	Phase/	Single phase100V (250W · 400W)				
	Voltage	Single phase200V · Three phase200V (400W · 750W)				
Installation		Indoor/Outdoor (altitude: 1,000m or less)				

Selection chart (JF-A.P type)





• When operating alternately/parallel (suction head -1m)



Small booster pump unit

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NR·N3-N type



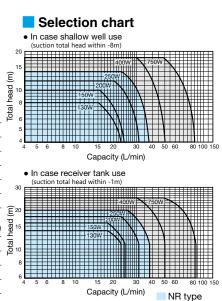


Features

- NR type is a clean stainless steel casing.
- Long-life and reliability improved by incorporating totally-closed motor.
- A stable water supply is anticipated with constant pressure water supply having both the pressure switch and the flow rate switch.
- Long-life by making no contact parts of electric components.

Standard specifications

(NR model: 250W or less, N3-Nmodel: 400W or more					
ethod	Constant pressure water supply				
	Clean water 0~40°C				
Impeller	Bronze				
Shaft	SUS304 (portion contacting liquid)				
Casing	NR type:SCS13 N3-N type:Cast iron				
Туре	TEFC indoor				
Phase/ Voltage	Single phase 100V (130, 150, 200, 250, 400W) Single phase 220V (250, 400, 750W)				
i i i i i ge	Three phase 200V (200~750W)				
	50Hz: 3,000min ⁻¹				
	60Hz:3,600min ⁻¹				
	Indoor/Outdoor				
	thod Impeller Shaft Casing Type				



In case clean water (0~45°C)

SFR

30

40

In case hot (46~90°C)

SFRH (W)

20

Capacity (L/min)

N3-N type

Hot water auxiliary boosting equipment



Standard specifications

ethod	Water supply with constant discharge pressure with inverter.				
	Clean water $0\sim45^{\circ}$ C (SFR (W)), Clean water $0\sim90^{\circ}$ C (SFRH (W)) [Clean water] : pH5.8~8.6 chloride ion concentration 200mg/L or less				
Impeller	Resin				
Shaft	Aluminum Ceramics				
Casing	SCS13				
Туре	Kawamoto PM motor (TEFC indoor)				
Phase/Voltage	Single phase100V (50Hz/60Hz)				
2	Indoor/Outdoor				
11	(Ambient temperature: -10~40°C · Humidity: 90%RH or less)				
	Impeller Shaft Casing Type				

Selection chart

150W

10

20

16

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pead 12

Total

Features

- Direct installation to the pipes is possible by Japan water works association certification.
- Possible to install in desired places, compact and light weight, super slim pump unit.
- Optimally controls with inverter and high efficient motor, which reduces power
- consumption.First in industry to realize constant discharge rate control in inverter be sealless pump.
- Rust free by using high quality stainless steel and PPS, and sealless enables no leak and sanitary purposes. A sealless structure without a mechanical seal facilitates maintenance.



NFD(N)2 type

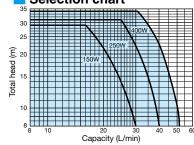
Standard specifications

Control method		Water supply with constant discharge pressure with inverter.				
Liquid		Clean water 0~40°C (no freezing)				
Materials	Impeller	Bronze				
	Shaft	SUS304 (portion contacting liquid)				
	Casing	SCS13				
Motor	Туре	Kawamoto PM motor (TEFC indoor) 4 poles				
	Phase/ Voltage	Single phase 100V (150W~400W)				
		Single phase 200V (400W)				
	· · · · · · · · · · · · · · · · · · ·	Three phase 200V (400W)				
Installation		Indoor/Outdoor (altitude: 1,000m or less)				

Features

- Direct installation to the pipes is possible by Japan water works association certification.
- NFD (N) 2 type (bore 13mm) are compatible with the common retracting pipe of bore 13mm. It can also be a junction from retracting pipe of bore 20mm
- Reservoir is not required and fresh water supply is possible.
- Water supply from the main pipe is possible through check valve for by-pass in the case when suction
 pressure being higher than the pump's startup pressure or unexpected shutdown. <By-pass system>
- Noise and high frequency countermeasures are equipped as a standard with the noise filter and built-in reactor.
- In addition to overload/restraint protection, a freezing prevention function that forcibly operates the pump by temperature detection sensor is equipped. This does not require a heater.

Selection chart



Hand Pump

Stainless steel hand pump

Features

• For artesian/driven well water supply and emergency use.

- HDS-25 type
- 380mL/Stroke
- Lift up to 15m, suction -8m.



Kawamoto's Pump Series for equipment

Stainless steel compact booster pump unit

NFG2(-A·P) type

Features

- First in industry Automatic water supply unit for "Demineralized water"
- The wet sections are made of material such as stainless steel, resin, and flour rubber

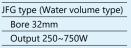
NFG2 type

Bore 20~32mm Output 150~750W



J	F	G	ty	pe	

	Production equipment, etc
--	------------------------------





GOOD DESIGN AWARD 2014

Coolant Pump RC^S type

Features

- Tough
- Product concept of our Coolant pump is "Maintenance Free" Our Coolant Pump reduce time and cost of maintanance.
- A wide range of motor variation. KAWAMOTO Coolant pump can apply various motor respond to customers needs

Compatible with national standards and high efficiency regulation with our own in-house motors.

RCC type (High pressure model)	
Bore 32mm	
Output 0.75~5.5kW	
RCD type (for dirty liquid)	
Bore 40mm	
Output 0.75~3.0kW	
	_



RCD type



- Fine curved impeller equipped as a standard. Compared to straight impeller, the air volume rises 5%
- Designed in special rib form, which enables low noise.

RA type Output 0.75~3.7kW



Water supply equipment / Small regional drinking water unit

Stainless steel & Variable speed control booster unit Refer to (P.14) Energy-saving inverter



Features

• High energy-saving, PM motor equivalent to IE5 or IE4 is equipped.

KF2-R type

• Up to 6 rotary pumps can be

controlled to handle large water

Bore 32~65mm Output 0.4~7.5kW

Features

volumes. Bore 32~65mm



 Compact 3-unit multiple control rotary.



KF2-H type

Features

• This is the KF series high pressure type. Water can be supplied in high-rise buildings with a total head of 170m.

Bore 40~50mm Output 7.5~15kW





Features

Output 0.75~7.5kW

• This is the high pump head type. Water can be supplied to high-rise buildings with total head of 250m. Up to 6 rotary pumps can be controlled.

Bore 50~65mm Output 11~22kW



Direct water supply booster pump unit Certificated products by Japan Water Works Association Energy-saving inverter

NDP2-G type

Features

W counter flow prevention type

Features

Bore 32~50mm Output 0.75~7.5kW

Features

• Compact, light weight, and easy to install.

• Inspection of back flow prevention device is

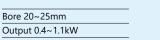
• With the 2 inverter control with built-in

microcomputer, quiet operation with

energy-saving water supply is possible.

low pressure fluctuation and high

possible without suspending the water supply.



KDP3-^D/_w type



ALL STAINLESS

KDP3 type C All STAINLESS

Features

 The pressure from the main water supply pipe is used for easy and waste-less direct-coupled water supply.

Bore 32~50mm

Output 0.75~7.5kW

SDP-R type C All STAINLESS

For 80mm intensified e-star water supply equipment

Features

• Less output operation by 3 rotary controls realized further energy-saving operation.

Bore 80mm Output 2.2~7.5kW

KFED-R type 🥰

Features

- For 80mm Intensified water supply equipment.
- Back-flow prevention device is attached for
- maintenance.3 rotary controls.

Bore 80mm Output 2.2~3.7kW



-

Bore 25~50mm Output 0.75~7.5kW

KFED type

Special purpose / Sea water pump series

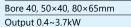


Self-priming plastic pump Refer to (P.4)

GSP³/₄ type Features

Self-priming pump construction does not require foot valve and makes priming works easier.

• High lifting performance is realized with high efficiency design.



Water seal vacuum pump unit

For hot water (hot spring) pump series

DW2 type Features

- Auto running vacuum pump with pump, control panel, reservoir, and water level gauge.
- The material is resistant to rust and best for sea water pump's water intake assist.

Bore 25mm Output 0.75kW Reservoir Effective Capacity 60L



Constant pressure automatic booster pump



Titanium submersible pump

WUZ² type Features

• Titanium is used for the metal section Resin is used for the pump sections of this corrosion resistant, light weight drain gump.

Bore 32~80mm Output 0.15~3.7kW



Stainless steel submersible clean water pump KURH²₃ type

• In water tank installation pump Temperature 0~60°C Bore 32~50mm

Stainless steel household automatic water supply pump

NFH2 type e-star

Features

Features

Output 1.9~7.5kW

• For hot water pressurizing. User to pressurize hot water from boilers or solar-powered water heaters, etc.

Temperature hot water 85°C (alternate / parallel type: 70°C) Bore 20~32mm Output 150~750W



Stainless steel hot water booster unit

Energy-saving inverter

KFEH type 🥑

Features

• Super energy-saving.

Hot water booster unit. Temperature Clean water 0~85°C

Bore 40~50mm

Output 1.5~3.7kW

Stainless steel submersible hot spring pump

USM(H) type

Features

• Adoption of hot water motor exclusive for hot spring. Available for a maximum water depth of 350 m and a maximum pump head height of 340 m

Hot water temperature 90°C or less (80°C in some models) (70°C in USM type) Bore 32~65mm

Output 1.5~22kW



Refer to (P.11)

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List of model

Model Centrifugal / Multistag	Installation	Motor	Liquid quality	Temperature	Shaft sealing *1	Phase	Impeller *2	Shaft *2	Casing *2
GSN(2)-C type	Indoor / outdoor	TEFC outdoor	Clean water	0~45°C	м	1 or 3	Bronze or Resin	SUS304 or SUS403	Cast iron with Nylon coating
FS type	Indoor	TEFC indoor	Clean water agricultural water	0~40°C	G or M	1 or 3	Cast iron	SUS403	Cast iron
GSO2·3-C type	Indoor	TEFC outdoor	Clean water agricultural water	0~40°vC	м	1 or 3	Bronze or SCS13 or Resin	SUS304	Cast iron
GE-C type	Indoor	TEFC outdoor	Clean water	0~90°C	м	3	Bronze or Cast iron	SUS304	Cast iron
KVS type	Indoor / outdoor	TEFC indoor or TEFC outdoor	Clean water	0~90°C	м	3	SCS13 or SUS304	SUS316	SCS13
GE-2M type	Indoor	TEFC indoor	Clean water	0~90°C	G or M	3	Cast iron or Bronze	SUS403	Cast iron
KR4·5-C type	Indoor	TEFC indoor	Clean water	0~40°C	м	3	Bronze or SCS13 or Resin	SUS304	SCS13
GES-4M type	Indoor	TEFC indoor	Clean water	0~90°C	G or M	3	SCS14	SUS316	SCS13
T(N) type	Indoor	TEFC indoor	Clean water	0~40°C	G	3	Bronze	SUS403	Cast iron
TVS type	Indoor	TEFC indoor	Clean water	0~40°C	G	3	Cast iron	SUS403	Cast iron
KS type	Indoor	TEFC indoor	Clean water	0~40°C	G	3	Cast iron	SUS403	Cast iron
PE(2) type	Indoor / outdoor	TEFC outdoor	Clean water	0~90°C	М	1	SCS13	SUS304	Cast iron
PSS(2) type	Indoor / outdoor	TEFC outdoor	Clean water	0~90°C	M	1 or 3	SCS13	SUS304	SCS13
FV (D)-C·4C type Cascade / Oil pump	Indoor	TEFC indoor	Clean water	0~80°C	М	3	Cast iron or FCD	SUS420J2 or SUS420J2Q	Cast iron or FCD
CS(2)-C type	Indoor	ODP or TEFC	Clean water	0~40°C	М	1 or 3	Bronze	SUS304 or SUS403	Cast iron
			Kerosene, light oil,	1					
OC(K) type	Indoor	TEFC indoor	A type heavy oil	0~60°C	М	3	Bronze	SUS403	Cast iron
Fire fighting pump		TEFO		0~ 1000			5		
KTK-C type	Indoor	TEFC indoor	Clean water	0~40°C	M	3	Bronze	SUS304 or SUS420J2	Cast iron
KTY type	Indoor	TEFC indoor	Clean water	0~40°C	G	3	Bronze	SUS403 or SUS420J2	Cast iron
Submersible clean wat		Conned	Clean water	0~20%0		0	00010	SUS304 or SUS403	00010
US2 type KUR2·3 type	Submerged	Canned Canned	Clean water	0~30°C 0~30°C	0	3 3	SCS13 SCS13 or Bronze	SUS304 of SUS403	SCS13 SCS13
Submersible Sump Pu	Submerged	Canned	Clean water	0 30 0	0	3	SCS13 OF BIOIIZE	505303 of 505403	30313
WUO(4) type	Submerged	Dry-sealed	For Sewage	0~40°C	М	1 or 3	Resin	SUS403	Resin
ZU3·ZU4 type	Submerged	Dry-sealed	For Sewage	0~40°C	M	1 or 3	Cast iron	SUS403	Cast iron
Water supply equipme	-		-	0 10 0		1 01 0		000100	odot non
				0~ 1000		1	Bronze or	0110004	00010
KFE-A·P·T·KF2·R type	Indoor	TEFC indoor	Clean water	0~40°C	М	1 or 3	SCS13 or Resin	SUS304	SCS13
KF2-HR type	Indoor	TEFC indoor	Clean water	0~40°C	М	3	Bronze	SUS304	SCS13
KVF-2 type	Indoor	TEFC indoor	Clean water	0~40°C	М	3	SCS13	SUS316	SCS13
USFE-USF2 type	Indoor / outdoor	Canned	Clean water	0~35°C		3			
LFE-LF2 type	Indoor / outdoor		Clean water	0~40°C		3			
KUF type	Indoor	Canned	Clean water	0~30°C		3			
Energy-saving inverter		TEFO		0~ 1000		4 0	2	0.1000.1	
NF3 type	Indoor / outdoor	TEFC indoor	Clean water	0~40°C	М		Bronze Resin with	SUS304	SCS13+ Resin SCS13 and
UF(L)2 type	Indoor / outdoor	Canned	Clean water	0~25°C		1 or 3	SUS304 or SCS13	SUS304	SUS304 + Resin
UFE type	Indoor / outdoor	Canned	Clean water	0~25°C		1	Resin with SUS304	SUS304	SCS13 and SUS304 + Resin
JF type	Indoor / outdoor	TEFC indoor	Clean water	0~40°C	М	1 or 3	SCS13	SUS304	SCS13
Small booster pump ur	nit								
NR type	Indoor / outdoor	TEFC indoor	Clean water	0~40°C	М	1 or 3	Bronze	SUS304	SCS13+ Resin
N3-N type	Indoor / outdoor	TEFC indoor	Clean water	0~40°C	М	1 or 3	Bronze	SUS304	Cast iron
Hot water auxiliary boo	sting equipment			0~0000					
SFRH(W) /SFR(W) type	Indoor / outdoor	TEFC indoor	Clean water	0~90°C / 0~45°C	s	1	Resin	Alumina Ceramics	SCS13
NFD(N)2 type	Indoor / outdoor	TEFC indoor	Clean water	0~40°C	М	1 or 3	Bronze	SUS304	SCS13
Hand pump						•			
HDStype				0~40°C					SCS13
Water supply equipme									
NDP2-G type	Indoor / outdoor	TEFC indoor	Clean water	0~40°C	M		Bronze	SUS304	SCS13
KDP3 type	Indoor / outdoor	TEFC indoor	Clean water	0~40°C	M		SCS13	SUS304	SCS13
KFEDtype	Indoor / outdoor	TEFC indoor	Clean water	0~40°C	М	1 or 3	SCS13 or Resin	SUS304	SCS13
Sea water pump series		TEEC outdoor	Coo water	0~40%0	N.4	2	SCS14	SUS216	Cast iron with
GSZB2·KZB type	Indoor	TEFC outdoor	Sea water	0~40°C	М	3	(KZB: Resin)	SUS316	Nylon coating
GSP3-4 type	Indoor / outdoor	TEFC outdoor	Sea water	0~60°C	М	3	METTON® Resin	SUS316	METTON® Resin
WUZ2.4 type	Submerged	Dry-sealed	Sea water Sewage	0~40°C	М	1 or 3	Resin	Titanium	Resin
For hot water (hot sprir	ng) pump series		Hotweter			1			
KURH2·4 type	Submerged	Canned	Hot water Simple thermal	0~60°C	0	3	SCS13	SUS403	SCS13
	Indoor	TEFC indoor	Hot water	0~85°C	М	3	Resin	SUS304	SCS13
KFEH type				1					
KFEH type NFH2 type	Indoor/Outdoor	TEFC indoor	Hot water	0~70°C (ask)	M	1 or 3	Bronze	SUS304	SCS13

*1 In shaft sealing column, symbols show following meanings. M: Mechanical seal, G: Gland packing, S: Seal-less, O: Oil seal with filter
 *2 In material column, symbols show following meanings. SCS: Stainless Cast Steel, SCS13: equivalent to 304 stainless, SCS14 equivalent to 316 stainless.



To reduce the environmental burden and protect the environment, we at KAWAMOTO PUMP will keep on carrying out activities as a united force under our slogan "Comfort Earth", as a company involved with the valuable resource that is "water".



Kawamoto products with this mark are products with excellent energy-saving and environmentally friendly features.

Important Safety Precautions Always read the manual thoroughly and fully comprehend the contents for safe operation before starting use. Precautions for using products safely and for preventing personal injuries or physical damage are given in the manual. *We bear no responsibility when the above listed precautions are not observed.

- Matters falling under the following may not be covered by the warranty: uses which go beyond the specified scope of application, failure to comply with precautions, improper repairs and alterations, matters arising from natural disasters, matters arising from the installation environment (power source, foreign objects, sand etc.), non-compliance with laws and regulations or standards pertaining thereto, persons who suffer accidental or intentional damage or injury, replacement of consumable parts, defects due to resale, etc.
- Close attention is needed when rusting and corrosion/elution of metals are not permissible owing to the application or liquid. Take into account both the pump and the rest of the equipment when considering and selecting.
- Apply repair coating at an institute which supports your operating environment. Depending on the operating environment, rust may form on screw parts, processed parts with anti-rust coating, anti-rust coated parts etc. due to high humidity, condensation, getting wet etc., which may lead to unexpected damage.
- Close attention is needed in the case of circulation uses where rusting and corrosion/elution of metals are not permissible. Take into account both the pump and the rest of the equipment when considering and selecting. Unexpected damage may arise from condensation of circulating water.
- Select a product which is appropriate for your application. Inappropriate use of products may cause accidents.
- Always use this pump within the specified product specifications. Failure to do so could result in electric shock, fire, water leakage, etc.
- When using this pump for living things (fishery, fish tank, aquarium, etc.) or important equipment, always prepare a spare unit. If the pump fails, an oxygen deficiency or degradation of water quality, etc., could occur and affect the creature's life.
- If used to transport food-related items, give due consideration to the materials used. Contamination by foreign objects may occur.
- Avoid using this product with living things that are susceptible to copper alloys. The life of the creature could be affected.
- Do not connect the pump directly to water main pipes. Depending on the country It may be prohibited under the Water Supply Act. Also, water backflow may contaminate tap water.
- Carry out installation in accordance with applicable legal requirements (electrical equipment guideline, interior wiring regulations, building codes, etc.) Failure to observe this may not only violate legal requirements, but could also result in fire or electric shock, or injury caused by falls or topples.

- Observe the service life of the pump, install it in a well ventilated place free from corrosive or explosive gases, salt, moisture, water vapor, condensation etc., and avoid exposing it to wind, rain and direct sunlight. In a harsh environment, electric leakage, electric shock or fire may result from deterioration of insulation in the motor or control panel, etc.
- Do not use in places where people are assumed to get in contact with the product (baths, pools, lakes, etc.). Electric leak may occur and cause electric shock.
- Do not install in places with no drainage or places which have not been waterproofed. Water leaks may cause serious damage. * We bear no responsibility for any damage arising from lack of drainage or waterproofing.
- Depending on the equipment, attach a filter etc. appropriate for your application on the discharge side before use, perform thorough flushing and check that there is no contamination. Cutting oil, rubber mold releasing agent, foreign objects etc. from the manufacturing line and cutting oil, foreign objects etc. from the pipeline may contaminate the liquid which is to be handled.
- Install buzzers, etc., as an alarm to alert failure to be noticed. Failing to do so may result in serious accidents without noticing a failure.
- Do not attach phase-advancing capacitors to inverter equipped models. Doing so may cause fracture, abnormal heat, etc.
- When using generators in inverter equipped model, please consult our nearest sales office. Control panels(electrical component box) and generators may cause failure or fracture.
- Do not operate pumps with a specification of 50 Hz at 60 Hz. Damage may arise as a result of excess pressure or burnout of the motor etc. due to overload. Do not operate pumps with a specification of 60Hz at 50Hz. Pump performance may be reduced.
- Do not put the flammable items on the pump surroundings or inside the pump cover or control panel, or cover the pump, cable or control panel with the flammable items. Failure to observe this could overheat and result in burning.
- The Pump should never be disassembled, repaired, or modified, or the power cable should never be replaced by anyone other than a qualified repair technician. Improper repairs could result in electric shocks, fires, faults or break
- It is recommended that both periodic and daily inspections be performed in order to ensure that the pump will operate reliably for as long as possible. Failure to perform inspections may lead to pump failure, accidents etc. For periodic inspections, please consult your distributer or our nearest sales offices.

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Distributor

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For any question about pumps, please contact your nearest distributor

Name	Pump Series
No.	5302 Y 🖲