

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

Kawamoto's Pump Series

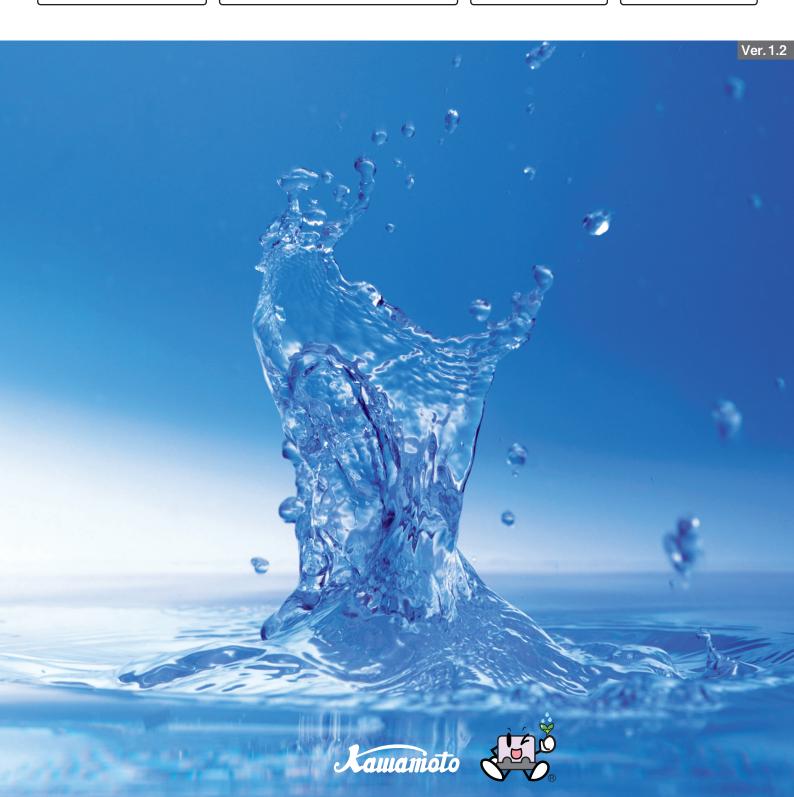
Lift up, Booster, Circulation, and Drainage

Comfort Earth®

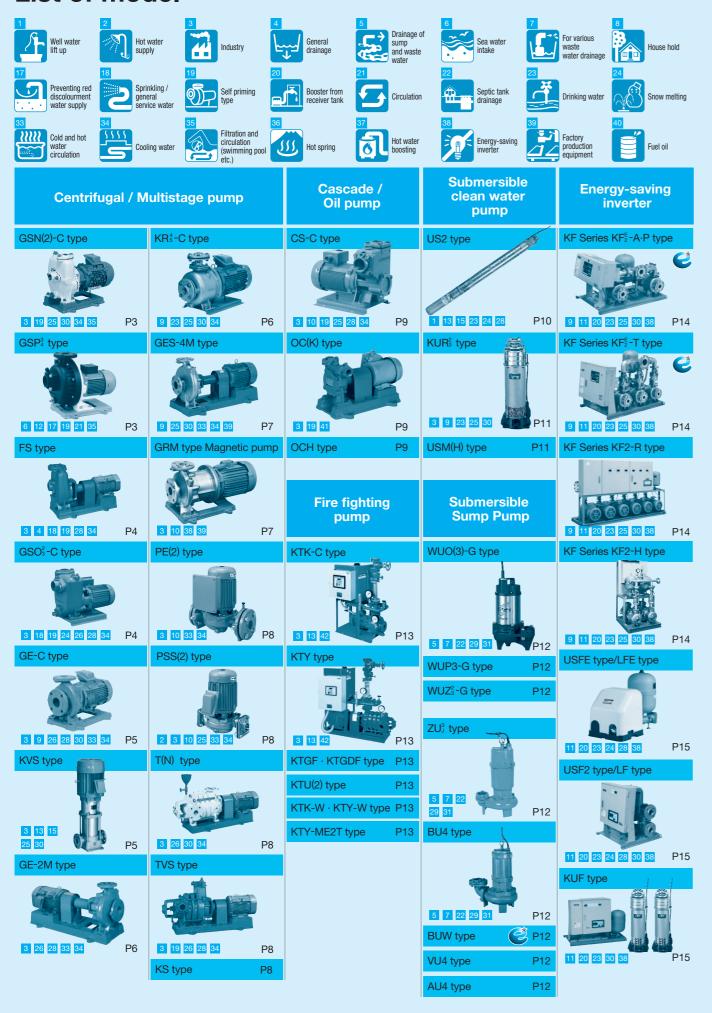
Water supply equipment / Small regional drinking water /Energy-saving inverter

Seawater / Hot water (Hot spring)

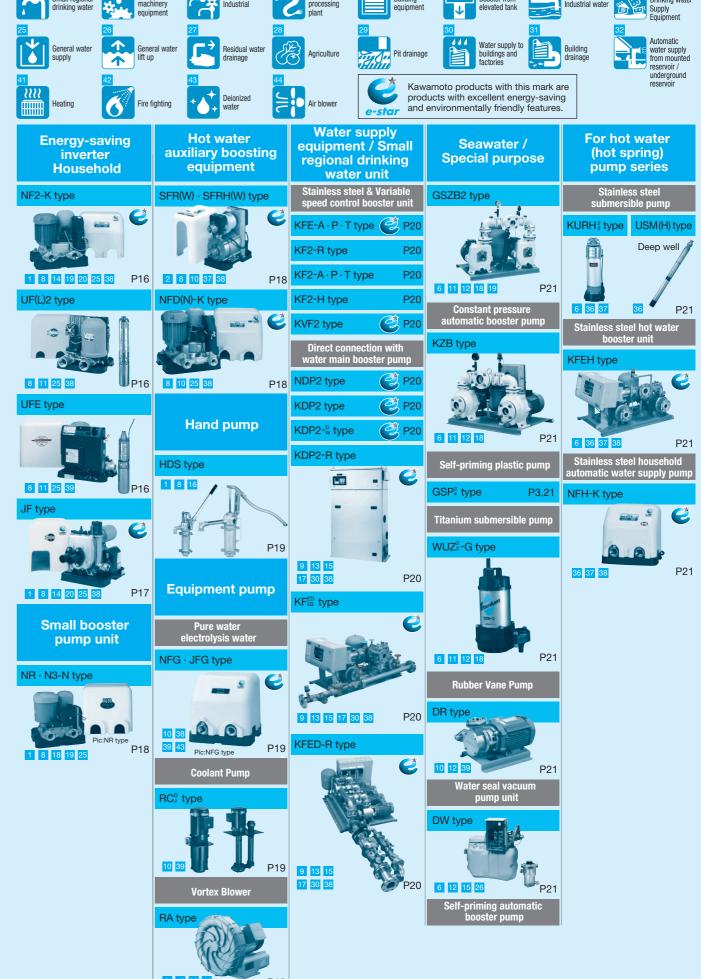
Production equipment



List of model



The standard configuration for pump systems with that those with an output of 0.75 kW or more are equipped with a Premium efficiency motor (IE3 efficiency), and those with an output of 0.4 kW or less are equipped with a standard efficiency motor. Please consult your distributer for the motor specifications.



3 10 39 44 P19

Centrifugal / Multistage pump series















- 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

Standard specifications

Liquid		pH5.8~8.6
		Clean water 0~45°C (no freezing)
Suction total 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
MOTOL	Speed	50Hz : 3,000min ⁻¹
		60Hz: 3,600min ⁻¹
	Efficiency	Premium efficiency (IE3)*
Installation		Outdoor installation available (expect 0.4kW single phase model)

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

ster models

Cast iron type Self-priming turbine pump GS₃²-Ctype

Bore: 25~100mm Motor: 0.25~7.5kW























GSP³₄ type

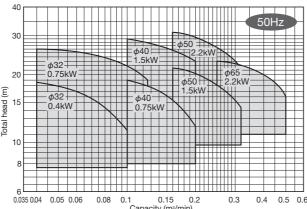
KAWA HOPE

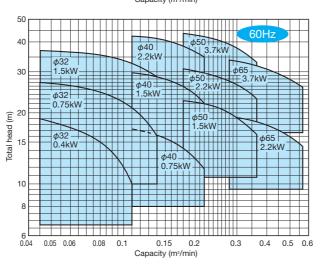
- Improved strength by using chemical resin material. Outdoor use allowed.
- Using stainless steel for metal material such as the shaft, which prevents corrosion and
- Fast self priming and outstanding suction properties.
- Easy maintenance attributed by simple structure and semi-open impeller
- Flanged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

Standard specifications

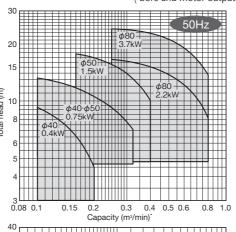
Jiai	iuai u spec	ilications
Liquid		Sea water / Clean water 0~60°C (no freezing)
		[Clean water]: pH5.8~8.6 chloride ion concentration 200mg/L or less
		[sea water]: pH7.8~8.2 chloride ion concentration 19000mg/L or less Sand content 1000mg/L or less
Suction total head (20°C)		-7m (0.4kW or Bore size 80mm model: -6m)
	Impeller	Resin
Materials	Shaft	SUS316
	Casing	Resin
	Туре	TEFC outdoor
Motor	Phase	Three phase
	Efficiency	Premium efficiency (IE3)*
Installation		Indoor/Outdoor
*0.75kW or	moro is aquipped	with a Promium officionay motor

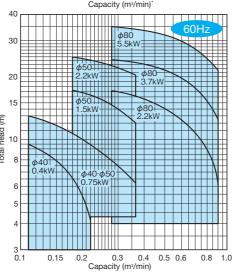
Selection chart (Value in the chart shows the suction bore and Motor output: kW of pump





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













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
- Mechanical seal types are also available (bore size: 50~100mm)
- Easy maintenance and inspection due to back pull out construction

Standard specifications

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
*0.75k\M.or	moro is oquinn	ad with a Promium officionau motor

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











GSO3 - C type

Features

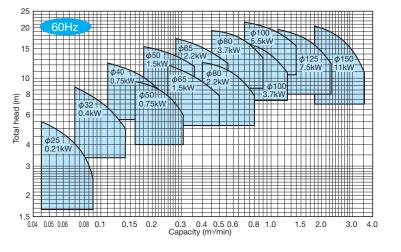
- Superior suction performance make it possible to pump up even from deep wells
- Strong and durable construction against sand by adopting special kind mechanical seal • The protection switch (manual return) provides
- A semi-open type impeller is resistant to foreign objects such as sand. A Back Pull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

Standard specifications

_ ota.	танга ор	
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)
		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 sealing		Mechanical seal
	Variation	TEFC outdoor
	Phase	Three phase
Motor	Speed	50Hz: 3,000min ⁻¹
		60Hz: 3,600min ⁻¹
	Efficiency	Premium efficiency (IE3)*2
Installation		Indoor

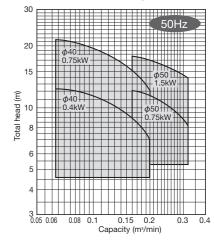
(*1) Discharge performance may drop when pump operate under negative suction total head. (*2) 0.75kW or more is equipped with a Premium efficiency motor.

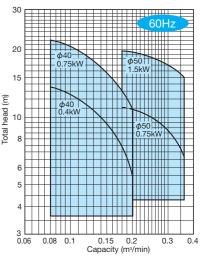
Selection chart (Value in the chart shows the suction bore and Motor output: kW of pump 0.3 0.4 0.5 0.6 0.8 1.0



Selection chart

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





Centrifugal / Multistage pump series















Features

- Compact, light weight and less installation space by adoption of 2 pole
- 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















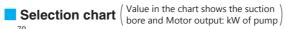
Features

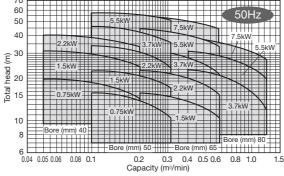
- \bullet Compact, light and space saving design • Adoption of Stainless steel precision casting for Casing, stage casing, etc.
- Mechanical seal can be changed without removing electric motor due to outstanding construction feature (unit type mechanical seal cover with mechanical seal support and spacer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

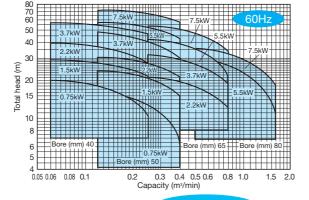
Standard specifications

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 (7.5~22kW·50Hz) /-5m
		Bore 80mm·100mm (60Hz) /-3m
	Impeller	SCS13 or SUS304
Materials	Shaft	SUS316
	Casing	SCS13
Shaft seal	ing	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)
* K/\Z-HW ·	for high pressure	-

KVS-HM: for high pressure





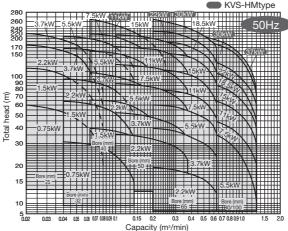


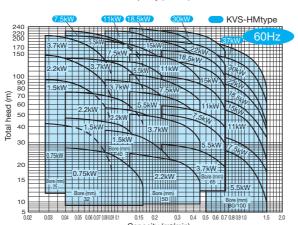
Sister models

Stainless steel **GES-C** type

Bore : 40~65mm Motor: 0.75~7.5kW (50Hz) 1.5~7.5kW (60Hz)

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













GE-2M type



- Compact, light weight and less installation space by adoption of 2 pole
- 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	Speed	50Hz : 3,000min ⁻¹
		60Hz : 3,600min ⁻¹
	Efficiency	Premium efficiency (IE3)*
Installation		Indoor
* 0.7EI/M 0.	more is equipped	with a Bramium officiancy mater

- * 0.75kW or more is equipped with a Premium efficiency motor
- GE-4M (4 poles motor) type are also available. Inquire for further information.









KR₅-C type

Features

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

Standard specifications

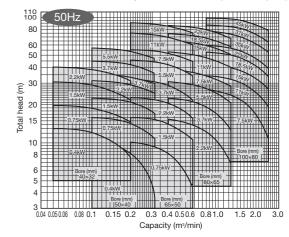
Liquid		Clean water 0~40°C (no freezing)
Suction total head (20°C)		-6m
	Impeller	Resin or SCS13 or Bronze
Materials	Shaft	SUS304 (portion contacting liquid)
	Casing	SCS13
	Shaft sealing	Mechanical seal (Ceramic x Carbon)
	Туре	TEFC indoor
Motor	Phase	Three phase
IVIOLOI	Speed	50Hz: 3,000min ⁻¹
		60Hz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

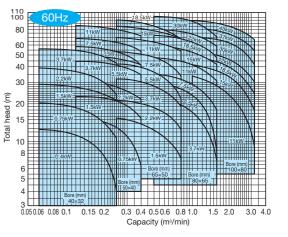
^{*} Three phase 0.75kW or more is equipped with a Premium efficiency motor.

Sister models

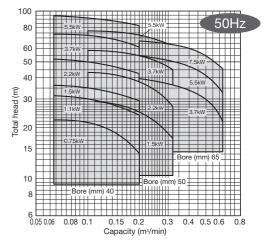
Stainless steel KR5-M type Bore : 40~65mm Motor: 1.5~7.5kW

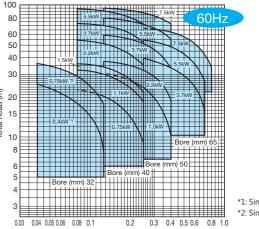
/ Value in the chart shows the suction Selection chart (Value in the chart shows the section bore and Motor output: kW of pump)





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





*1: Single phase100V *2: Single phase200V

Centrifugal / Multistage pump series











GES-4M type

- 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

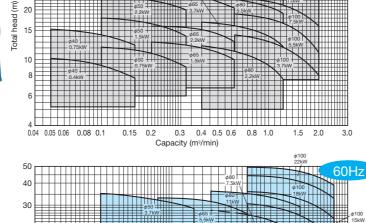
Liquid*1		Clean water 0~90°C (no freezing)
Suction total head (20°C)		-6m
	Impeller	SCS14
Materials	Shaft	SUS316 (portion contacting liquid)
	Casing	SCS13
Shaft sealing		Mechanical seal (SiC x Carbon)
	Туре	TEFC inoor
	Phase	Three phase
Motor	Speed	50Hz: 1,500min ⁻¹
		60Hz: 1,800min ⁻¹
	Efficiency	Premium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

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

ister models

Stainless steel GES-2M type

Motor: 0.75~7.5kW



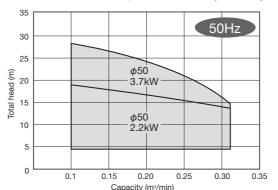
/ Value in the chart shows the suction

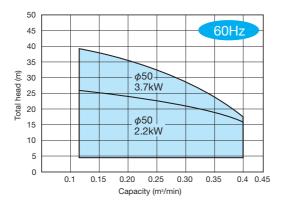
Selection chart (bore and Motor output: kW of pump

0.15 0.2

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

0.3 0.4 0.5 0.6 0.8 1.0





Note) Selection chart shows the data in case clean water

GRM type Magnetic pump

Features

- Ideal for transfer use of chemical liquid with the seal less construction of magnet coupling
- Sealless facilitates maintenance.

Stainless steel

- Excellent corrosion resistance and long life Material of pump major parts: SCS14, **SUS316**
- Back-Pull-Out structure enable disassembly/assembly of the pump without removing pipes, easy to maintenance, and the pump section is compact and light

Standard specifications

Liquid		Please inquire to us or our distributors about liquid available to be handled (liquid quality, liquid temperature and etc) by each application
Suction to	otal head (20°C)	-6m
	Impeller	SCS14
Materials	Shaft	SUS316
	Casing	SCS14
Construct	ion	Magnet coupling seal-less construction
Construct	1011	Back-Pull-Out type.
	Туре	TEFC indoor
Motor	Phase	Three phase
	Coood	50Hz: 3,000min ⁻¹
	Speed	60Hz: 3,600min ⁻¹
	Efficiency	Premium efficiency (IE3)

PE(2) type P in Line pump

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) (Maximum 100°C : Please inquire)
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
Matau		Three phase
Motor	Speed	50Hz: 3,000min ⁻¹
		60Hz: 3,600min ⁻¹
	Efficiency	Premium efficiency (IE3)*
Installation		Indoor/Outdoor
* Three nh	ase 0.75kW or mo	re is equipped with a Premium efficiency motor

Three phase 0.75kW or more is equipped with a Premium efficiency moto Note) Apply for anti-freezer within following specification.

- Kind: Nybrine Z-1, GD brine 950 and Showbrine PP super
- Density: 35~50%
- Liquid temperature: 0~90°C Sister models











T(N) • TK(N) type

Turbine pump (Multi-stage pump)

TVS type · KS type

Self-priming turbine pump

Features

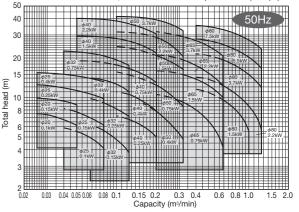
$T(N) \cdot TK(N)$ type

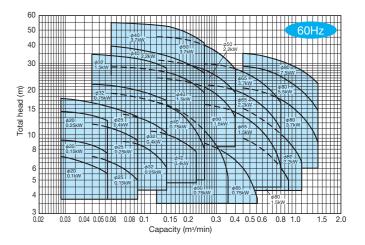
- Less installation space according to simple and compact pump construction with light weight
- Other than standard model (T/TK), Nylon coating type (TN/TKN) is also available
- Evaluated item of <Horizontal centrifugal pump> by (C) Public Buildings Association., Ltd. (Japan) (T/TK type)

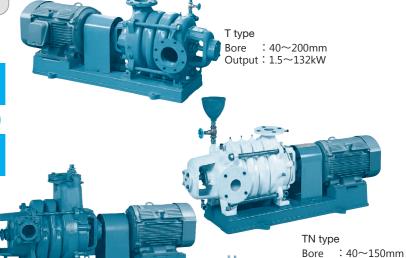
TVS type, KS type

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

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







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

> KS type Bore : 40∼80mm

Output: 2.2~22kW

Output: 1.5~75kW

Cascade pump series







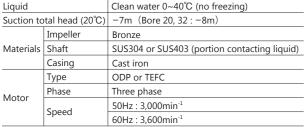


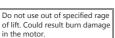


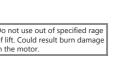
CS-C type

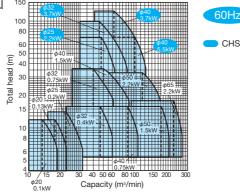
- Self-priming pump construction does not require foot valve and makes priming works easier
- Long-life product with high suction performance and
- Easy maintenance due to adoption of sealed ball bearings required no oiling.
- Equipped with a motor protective switch which prevent motor burnout.

Standard specifications









Selection chart

output: kW of pump

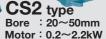
Value in the chart shows the suction bore and Motor

50Hz

CHS



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



CS3 type (Only 60Hz) Bore : 20~25mm Motor: 0.2~2.2kW Motor: 0.2~0.4kW

Oil pump series



OC(K) •OCH type

- 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 • 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

Standard specifications

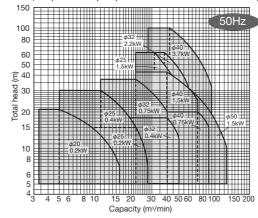
Liquid		Kerosene, light oil, A type heavy oil (*) Fuel oil of 45 centistokes or less 60°C or less
	Impeller	Bronze
Materials	Shaft	SUS403
	Casing	Cast iron
Shaft sealing		Mechanical seal
Motor	Туре	Increased safety explosion-proof type (Japan)
	Phase	Three phase
	Speed	50Hz: 1,500min ⁻¹ 60Hz: 1,800min ⁻¹ (OC(K) type)
		50Hz: 3,000min ⁻¹ 60Hz: 3,600min ⁻¹ (OCH type)

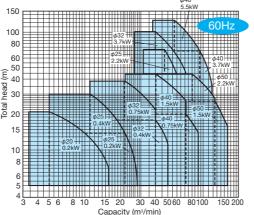
Do not use out of specified rage of lift. Could result burn damag

OCH type

Selection chart

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





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

Submersible clean water pump series













US2 type

SANRONG

Features

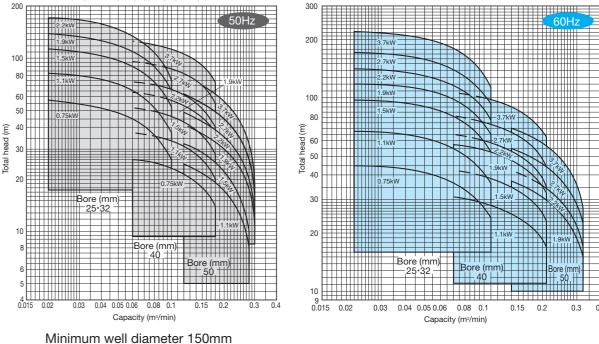
- The pump section is resistant to sand, and in addition a thick precision casting stainless steel is incorporated. More strong to sand and reliable by a new-type motor excellent in durability and bearing lubrication.
- The pump is stainless steel and resin. The motor section is made of stainless steel 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.

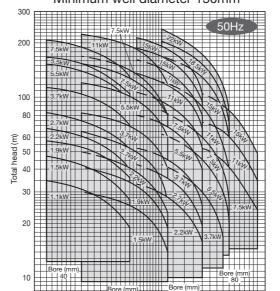
Standard specifications

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

*400V type is also available

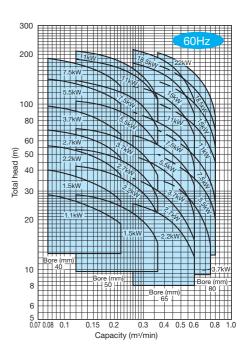
Selection chart (Value in the chart shows the suction bore and Motor output: kW of pump)
Minimum well diameter 100mm





0.15 0.2

Capacity (m3/min)



10

* For 200/250/300mm well types are also available. Inquire for further information.

0.3 0.4 0.5 0.6 0.8 1.01

* 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 velocity to be 0.1m/s or more.

Submersible clean water pump series

Stainless steel

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
- The key components are made of precision cast stainless steel (SCS13) and have a long
- SiC is used for the bearings to enhance the sand resistant design

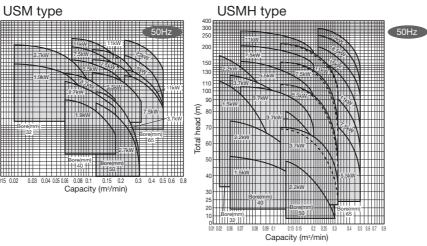
Standard specifications

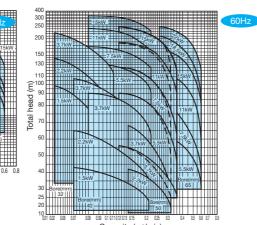
Liquid		Simple thermal, sodium-chloride thread, sodium-hydrogen carbonate pH6 to 9 (Sand content 50mg/L or less (fine sand dia. 0.1~0.25 mm or less)
	Impeller	SCS13
Materi- als	Shaft	SUS304 or SUS403
	Casing	SCS13

		30313		
Materi- als	Shaft	SUS304 or SUS403		
uis	Casing	SCS13		
Shaft sealing		SiC×SiC		
	Туре	Canned submersible motor		
Matau	Phase	Three phase		
Motor		50Hz: 3,000min ⁻¹		
	Speed	60Hz: 3,600min ⁻¹		
Max. submersing depth		USM : within 150 m		
		USMH: within 350 m		

- * If installed to well with diameter larger than that described in the specification table, USMH the submerged motor may cause burn damage due to the cooling of motor.
 - Install for the cooling flow velocity to be 0.1m/s or more. * Accessories to prevent the occurrence of gas lock is also
 - available (USMH-G type) Please inquire for details

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





Stainless steel

KUR²₃ type

USM type

- Red water prevention structure mainly made of stainless steel, and resin and
- 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 0~30°C (0.75~2.2kW: 0~35°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)
	Туре	Canned submersible motor
Motor	Phase	Three phase
MOTOL	Speed	50Hz : 3,000min ⁻¹
		60Hz : 3,600min ⁻¹
Max submersing denth		10m

Sister models

For hot water / hot spring submersible pump KURH 3 type

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

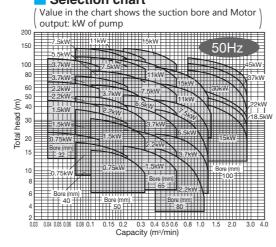
Sister model

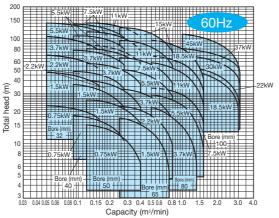
exclusive for horizontal installation

KUR3-Y type Bore : 32~65mm Motor: 0.75~3.7kW

Capacity (m3/min)

Selection chart





Submersible Sump Pump Series

Resin









WUO(3)-G type **KAWA PET**

Features

- Vortex type and excellent performance to pass foreign objects.
- Light weight and easy-to-handle submersible sewage pump.
- Stainless steel made frame motor and plastic parts increase operating life.
- Uses glass fiber reinforced plastic for the impeller and casing, and equipped with a motor with built-in auto-cut having a large starting torque for stable operation.
- Can be paired with plastic pedestal support (special accessory).

Ability to pass foreign objects

• Dia. of foreign object (sphere shape): 35mm (2.2kW or more: 40mm)

Standard specifications

* Foreign matter refers to free deforming soft matter excluding sand, etc. as defined in JISB8325.

us u	2111100 111 713003	23.
Liquid		For Sewage (pH: 5~9) 0~40°C
	Impeller	Resin
Materials	Shaft	SUS304 (portion contacting liquid)
	Casing	Resin
	Туре	Dry-sealed motor
	Phase	Single phase
Motor		Three phase
	Speed	50Hz: 3,000min ⁻¹
		60Hz: 3,600min ⁻¹
Max. submersing depth		5m (1.5kW or more : 8m)

Selection chart

Sister models

For Wastewater

WUP3-G type KAWA PET

Bore : 32~50mm Motor : 0.15~0.75kW



Titanium seawater submersible pump WUZ₃²-G type KAWA HOPE

Bore : 32~80mm Motor : 0.15~3.7kW



BU4 type

Sewage water submersible pump

BUW type



Stainless Non-clog impeller

ZU_J type

Sewage water submersible pump

VU4 type

AU4 type **CHAMPION**

Sewage water Vortex with cutter submersible pump



BU4 type

ZU3 type



BUW type Bore : 50~150mm Bore : 65~80mm Output: 0.75~22kW Output: 1.5~3.7kW



VU4 type Bore : 50~100mm

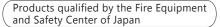


Bore : 50~100mm Output: 0.75~7.5kW

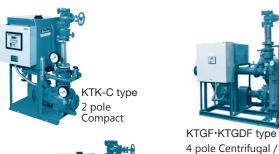
Fire fighting pump series







SAFETY ACE® Series









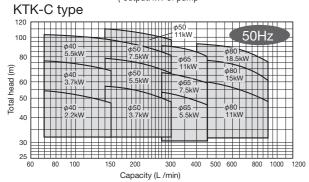
KTY-ME2T type Equipped with emergency power source (with engine)

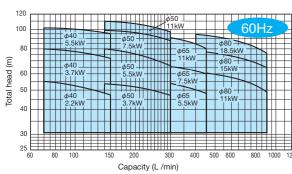


KTK-W type KTY-W type Cubicle type



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





(Units without pump priming tanks are excluded)

Note: Suction bore 80mm model is different form the pump bore because a reducer is attached.

- 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
- A easy-to-read digital type ammeter/voltmeter is adopted for the pump performance inspection. Pressure and compound gauges with a large diameter of ϕ 100 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

Materials	Impeller	Bronze
	Shaft	SUS304 or SUS420J2Q
	Casing	Cast iron
Motor (continuous	Туре	TEFC indoor (5.5, 7.5 kW model: outdoor)
rating: S2)	Phase/Poles	Three phase/2 pole

KTGF·KTGDF type

Standard specifications

Materials	Impeller	Bronze
	Shaft	SUS420J2 or SUS403
	Casing	Cast iron • Ductile cast iron (KTGDF)
Motor (continuous rating: S2)	Туре	TEFC indoor (18.5 kW or less)
		ODP (22kW or more)
	Phase/Poles	Three phase/4 pole

KTY type

Standard specifications

Materials	Impeller	Bronze
	Shaft	SUS403
	Casing	Cast iron
Motor (continuous rating: S2)	Туре	TEFC indoor (18.5 kW or less)
		ODP (22kW or more)
	Phase/Poles	Three phase 200V (90kW or more: 400V)/4 pole

KTU(2) type Submersible type

Standard specifications

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

Energy-saving inverter

Stainless steel







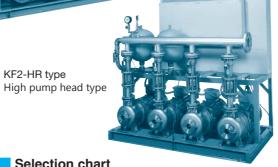




KF type

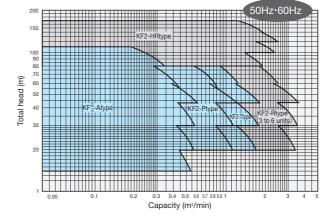






Selection chart

KF2-HR type



Vertical high pump head units control rotary. KVF2 type

- By pump section's high efficiency design and 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, by that lowering electricity rate (*) and controlling the generation of higher harmonics. Countermeasures against noise are also provided with a surge absorber and

(*) Excluding 0.4 and 0.75kW models

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 Stainless steel
iviateriais	Shaft	SUS304 (portion contacting liquid)
	Casing	SCS13
	Туре	TEFC indoor
Motor		Poles: 4 or 8 (max. speed: 4,500min ⁻¹)
MOTOL	Phase	Three phase
	Efficiency	Super premium efficiency (rank as IE4)
Installation		Indoor (0~40°C / humidity: 90%RH or less / altitude: 1,000m or less)
		·

KF2-A·P·T·R type Unit control rotary.

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
iviateriais	Shaft	SUS304 (portion contacting liquid)
	Casing	SCS13
Motor	Туре	TEFC indoor
		Poles: 2 (Max. frequency in case automatic operation: 60Hz)
	Phase	Three phase
	Efficiency	premium efficiency (IE3)*
Installation		Indoor (0~40°C / humidity: 90%RH or less / altitude: 1,000m or less)
4.TI I	0.751347	

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

KF2-HR type Unit control rotary.

idard Spe	ecifications
ethod	Constant estimated terminal pressure by frequency
etilou	control (Discharge rate can also be controlled)
method	Alternate, alternate/parallel, rotary unit (MAX. 6 units)
	Clean water 0~40°C (no freezing)
ndition	0 to 5 m of flow (*1) or within -6 m of suction total head (*2)
pump	Stainless steel multi-stage turbine pump
Impeller	Bronze
Shaft	SUS304 (portion contacting liquid)
Casing	SCS13
Туре	TEFC indoor
	2 pole
Phase	Three phase
Efficiency	premium efficiency (IE3)
n	Indoor (0~40°C / humidity: 90%RH or less / altitude: 1,000m or less)
	method method ondition pump Impeller Shaft Casing Type Phase Efficiency

- (*1) Please consult in case back pressure exceed 5m or more.
- (*2) Suction actual head within -4m, 11 or 15kW model: suction total head within -4m
- Note) Please consult Kawamoto to use long-hours with small amount of water.

Energy-saving inverter















Pumper USF USFE type USF2 type

For Deep well Submersible / Clean water submerged Pump *Applicable Pump US(N)2 type · KUR₃² type

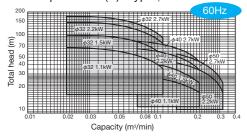
Pumper LF

LFE type LF type

For Surface pump

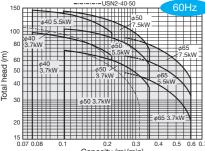
*Applicable Pump GS3-C type · KR₅ -C type · GE-C type · TVS type · KS type, etc.

■ USFE type Connection type pump selection chart Example for US(N)2 type (well diameter 100mm)



■ USFE type Connection type pump selection chart

Example for US(N)2 type (well diameter 100mm / 150mm





Pumper KUF type

Submersible clean water pump



Features

- Constant estimated terminal pressure water supply is possible by combining the stainless steel submerged turbine pump and inverter automatic operation unit.
- Clean water supply is ensured with mainly stainless steel units.
- The installation space is small compared to the pressure tank method,

Standard specifications

Control method	Constant estimated terminal pressure			
Operation method	Alternate/Parallel			
Liquid	Clean water 0~40°C			
Phase	Three phase			
Installation (unit part)	Indoor (0~40°C/humidity: 90%RH or less /altitude: 1,000m or less)			

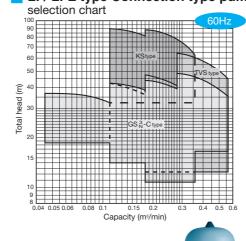
*Please refer to KUR3 type (P.12) for pump material.

- 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

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

LF/ LFE type Connection type pump







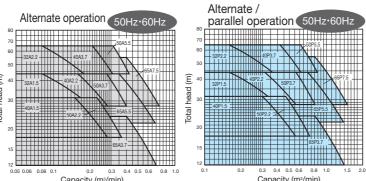
US2 type pump



KS type TVS type

Selection chart

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



Energy-saving inverter





Selection chart

When operating as a single unit (-8 m of suction head)

Sister models With signal output NFS(K)-K type Hot water pressurization NFH-K type

150~750W

When operating alternately/in paralle (-6 m of suction head)

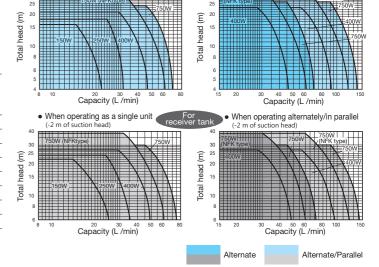
Soft KAWA ACE

Features

- Switch between E (ecological) mode and S (Strong) mode is possible by the operation mode switch. (Exclude NFK)
- Quiet, highly energy-saving operation is possible with the constant discharge rate pressure control by the inverter.
- Stainless steel and bronze materials are adopted for portion contacting water, thus preventing pump from rusting and red discolorment of water
- Noise and high frequency countermeasures are equipped as a standard

Standard specifications

Control method		(constant discharge rate pressure water supply (constant estimated terminal pressure is possible with alternate, parallel/alternate models)			
Operation method		Single, Alternate, Alternate/Parallel			
Liquid		Clean water 0~40°C(no freezing)			
Suction to	tal head	-8m(up to -6 in alternate, alternate/parallel models)to 5m flow in			
Materials	Pump	Cascade pump			
	Impeller	Bronze			
	Shaft	SUS304 (portion contacting liquid)			
	Casing	SCS13			
Motor	Туре	Kawamoto PM motor (TEFC indoor) 4 poles			
Installation		Indoor/Outdoor (altitude: 1,000m or less)			









UF(L) 2type

KAWA ACE DEEPER

Features

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



UFE type

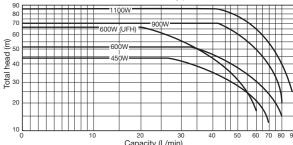
KAWA ACE DEEPER

Stainless steel

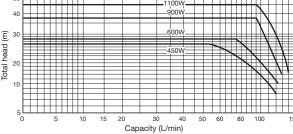
Features

- 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
- 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)

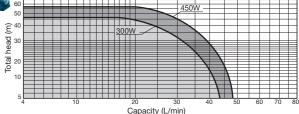
Selection chart UF2 type



Selection chart UF(L)2 type



Selection chart



Energy-saving inverter















3 types of jet set

supporting a wide range of well size.

Well bore φ75 or φ50 exclusive

JF type

KAWA-ACE Jet

Features

- 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 with little fluctuation at the water supply terminal is possible regardless of fluctuation in the well water level.
- The wet sections of the pump and over ground automatic operation unit are both made mainly of stainless steel and resin and rubber. This enables clean water supply.
- The automatic operation unit has a compact design, smaller and lighter than the conventional pressure tank type enabling easy installation.

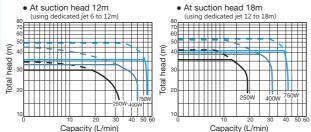
■ JF type Standard specifications

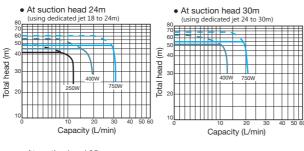
Control method		Water supply with constant discharge pressure with inverter.				
Operation method		Single				
Liquid Clean water 0~40°C (no freezing)		Clean water 0~40°C (no freezing)				
Suction Shallow well Condition For receiver tank	Deep well	Suction total head: (single operation) -12m · -18m · -24m · -30m · -3				
		Suction total head: -7m (single operation)				
	Suction total head: -1m~In flow pressure within 5m					
	Impeller	SCS13 or SUS304				
Materials	Shaft	SUS304 (portion contacting liquid)				
Casi	Casing	SCS13				
Motor Phase/ Voltage	Туре	Kawamoto PM motor TEFC indoor (250W~750W)				
	Phase/	Single phase100V (250W · 400W)				
		Single phase 200V, Three phase 200V (400W · 750W) (*)				
Installation		Indoor/Outdoor (altitude: 1,000m or less)				
*1100 /150	0147 1 1	the stable News to the feeders!				

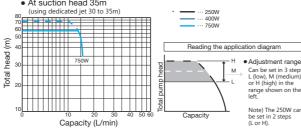
^{*1100 / 1500}W products are also available. Please inquire for detail.



Selection chart (JF type)







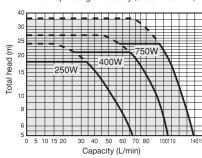
*For shallow well applications, please inquire

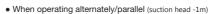
■ JF-A.P type Standard specifications

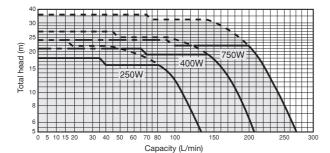
Control method		Water supply with constant discharge pressure with inverter.			
Operation method		Alternate/Parallel			
Liquid		Clean water 0~40°C (no freezing)			
Suction Shallow well	Suction total head: -7 of suction total head				
condition For receiver tank		Suction total head: -1m~In flow pressure within 5m			
	Impeller	SCS13			
Materials Shaft Casing	SUS304 (portion contacting liquid)				
	Casing	SCS13			
Туре		KPM Motor (TEFC indoor)			
	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 (suction head -1m)







JF-A.P type

Small booster pump unit







NR·N3-N type

KAWA ACE



Features

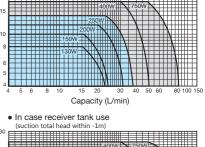
- NR type is a clean stainless steel casing. • Long-life and reliability improved by incorporating totally-closed motor.
- A stable water supply is anticipated with constant pressure water supply having both the pressure switch and the flow rate switch.
- Long-life by making no contact parts of electric

Standard specifications

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

Indoor/Outdoor

Selection chart • In case shallow well use



Capacity (L/min) NR type

In case clean water (0~45°C)

N3-N type

Hot water auxiliary boosting equipment

Installation











SFR(W)·SFRH(W) type



Standard specifications

Control method		Water supply with constant discharge pressure with inverter.		
iquid		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		
Tateriais Time	Shaft	Aluminum Ceramics		
	Casing	SCS13		
Туре		DC brush-less motor (TEFC indoor)		
1otor	Phase/Voltage	Single phase100V (50Hz/60Hz)		
nstallation		Indoor/Outdoor		
		(Ambient temperature: -10~40°C · Humidity: 90%RH or less)		

Selection chart

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
- 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









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

Features

- Direct installation to the pipes is possible by Japan water works association certification
- NFD (N) 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
- 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 Capacity (L/min)

Hand Pump

Stainless steel hand pump • 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

NFG(-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

NFG type Bore 20~32mm Output 150~750W



JFG type

Production Pure water Electrolysis water equipment, etc..

JFG type (Water volume type) Bore 32mm



Coolant Pump RCⁿ type

- Incorporating FCD500 for casing material realized a strong wear-resistant
- Mechanical sealless structure prevents fluid from scattering by mechanical

RC type Bore 40mm (65mm)

* () shows RCJ type

Output 0.75~3.0kW (1.5~2.2kW)







Vortex Blower RA type

Features

- 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.15) Energy-saving inverter

Features

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

KFE-A⋅P type €

Bore 32~65mm Output 1.1~7.5kW



KF2-A·P type

Features

• Energy-saving and quiet operation Clean, constant estimated terminal pressure high quality water supply

Bore 32mm Output 0.4~0.75kW



KF₂-T type €

Features

 Compact 3-unit multiple control rotary.

Bore 32~65mm Output 0.75~7.5kW



KF2-R type

Features

• Up to 6 rotary pumps can be controlled to handle large water volumes.

Bore 32~65mm Output 0.75~7.5kW



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



KVF2 type

Features

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

Bore 50~65mm Output 11~30kW



Direct connection with water main booster pump Certificated products by Japan Water Works Association Energy-saving inverter

NDP2 type

Features

• Compact, light weight, and easy to install.

Bore 20~25mm Output 0.4~1.1kW



KDP2 type

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



KDP2-\tilde{\tii

Features • Inspection of back flow prevention device is possible without suspending the water supply.

Bore 32~50mm Output 0.75~7.5kW



Features

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

Output 2.2~7.5kW



KFED type (KFED type)

Features

• With the 2 inverter control with built-in microcomputer, quiet operation with low pressure fluctuation and high energy-saving water supply is possible

Bore 25~50mm Output 0.75~7.5kW



KFED-R type

Features

• For 80mm Intensified water supply equipment. • Back-flow prevention device is attached for

• 3 rotary controls

Bore 80mm Output 2.2~3.7kW



Special purpose / Sea water pump series

Rubber Vane Pump

DR type **Features**

• High corrosion resistance and easy to handle. • For various use such as sea water, fishery,

water treatment, food and drink, biotechnology industry.

Bore, Output 40mm-1.5kW, 65mm-5.5kW

Suction -4m (Bore 40mm)

-2m (Bore 65mm)

Water seal vacuum pump unit

DW type Features

• Auto running vacuum pump with pump, control panel, reservoir, and water level

• The material is resistant to rust and best for sea water pump's water intake assist.

Bore 20, 25mm Output 0.75kW Reservoir Effective Capacity 60L



Self-priming automatic booster pump

GSZB2 type Features

• The industry's first self priming type sea water supply unit which reduces the equipment costs and use the space effectively. For processing plant's cleaning and various sea water supply

Bore 40mm

Output 1.5kW, 2.2kW

Suction —6m



Constant pressure automatic booster pump

KZB type Features

• Automatic water supply unit for constant pressure sea water supply.
Use this for fishing ports and fish market processing plants for washing water and sea water supply. Bore 40~50mm

Output 0.75~2.2kW

Flow 0~5m

Titanium submersible pump

Self-priming plastic pump Refer to (P.4

GSP 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.

Bore 40, 50×40, 80×65mm Output 0.4~3.7kW



WUZ_3^2 -G type Features

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

Bore 32~80mm Output 0.15~3.7kW

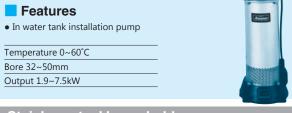


For hot water (hot spring) pump series

Stainless steel submersible clean water pump

KURH₃² type

Temperature 0~60°C



Stainless steel hot water booster uni

Energy-saving inverter

KFEH type

Features

• Super energy-saving. Hot water booster unit.

Bore 40~50mm

Temperature Clean water 0~85°C Output 1.5~3.7kW



Stainless steel household automatic water supply pu

Energy-saving inverter

NFH-K type

Features

• 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



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

Stainless steel submersible hot spring pump Refer to (P.12)

Output 1.5~22kW

List of model

Centrifugal / Mult	Installation	Motor	Liquid quality	Temperature	Shaft sealing *1	Phase	Impeller *2	Shaft *2	Casing *2
	Indoor / Outdoor	TEFC outdoor	Clean water	0~45°C	M	1 or 3	Bronze	SUS304 or SUS403	Cast iron with Nylon coating
S type	Indoor	TEFC indoor	Clean water agricultural water	0~40°C	G or M	1 or 3	Cast iron	SUS403	Cast iron
SSO2·3-C type	Indoor	TEFC outdoor	Clean water river water	0~40°C	М	1 or 3	Bronze or SCS13 or Resin	SUS304	Cast iron
GE-C type	Indoor	TEFC outdoor	Clean water	0~90°C	M	3	Bronze or Cast iron	SUS304	Cast iron
(VS type	Indoor (Outdoor)	TEFC indoor or TEFC outdoor	Clean water	0~90°C	M	3	SCS13 or SUS304 Cast iron or	SUS316	SCS13
GE-2M type	Indoor	TEFC indoor	Clean water	0~90°C	G or M	3	Bronze or	SUS403	Cast iron
,,	Indoor	TEFC indoor	Clean water	0~40°C	M	3	SCS13 or Resin	SUS304 SUS316	SCS13 SCS13
	Indoor	TEFC indoor	Clean water	0~90°C	G or M	3	SCS14		
- ''	Indoor	TEFC indoor	ask	0.0000	S	3	SCS14	SUS316	SCS14
(/)1		TEFC outdoor	Clean water	0~90°C	M		SCS13	SUS304	Cast iron
(/)1	Indoor / Outdoor		Clean water	0~90°C	M	_	SCS13	SUS304	SCS13
(/ 31	Indoor	TEFC indoor	Clean water	0~40°C	G	3	Bronze	SUS403	Cast iron
VS type	Indoor	TEFC indoor	Clean water	0~40°C	G	3	Cast iron	SUS403	Cast iron
S type	Indoor	TEFC indoor	Clean water	0~40°C	G	3	Cast iron	SUS403	Cast iron
Cascade / Oil pu	mp								
CS-C type	Indoor	ODP or TEFC	Clean water	0~40°C	G	1 or 3	Bronze	SUS304 or SUS403	Cast iron
	Indoor	TEFC indoor	Kerosene, light oil, A type heavy oil	0~60°C	М	3	Bronze	SUS403	Cast iron
Fire fighting pum	р								
TK-C type	Indoor	TEFC indoor	Clean water	0~40°C	M	3	Bronze	SUS304 or SUS420J2Q	Cast iron
	Indoor	ODP or TEFC	Clean water	0~40°C	G	3	Bronze	SUS403	Cast iron
Submersible clea	an water pump								
JS2 type	Submerged	Canned	Clean water	0~30°C		3	SCS13	SUS304 or SUS403	SCS13
(UR2·3 type	Submerged	Canned	Clean water	0~30°C	0	3	SCS13 or Bronze	SUS303 or SUS403	SCS13
Submersible Sun									
	Submerged	Dry-sealed	For Sewage	0~40°C	M	1 or 3	Resin	SUS403	Resin
	Submerged	Dry-sealed	For Sewage	0~40°C	M		Cast iron	SUS403	Cast iron
Water supply equ				0~40 C	IVI	1013	Cast II UII	303403	Cast IIUII
/EE.VE2 A.D.T.D			ling water unit				Bronze or		
ype	Indoor	TEFC indoor	Clean water	0~40°C	M	1 or 3	SCS13 or Resin	SUS304	SCS13
	Indoor	TEFC indoor	Clean water	0~40°C	M	3	Bronze	SUS304	SCS13
	Indoor	TEFC indoor	Clean water	0~40°C	M	3	SCS13	SUS316	SCS13
					IVI		00010	300010	30313
	Indoor (Outdoor)	Canned	Clean water	0~35°C		3			
	Indoor (Outdoor)		Clean water	0~40°C		3			
	Indoor	Canned	Clean water	0~30°C		3			
Energy-saving in									
IF2-K type	Indoor / Outdoor	TEFC indoor	Clean water	0~40°C	M	1 or 3	Bronze	SUS304	SCS13
IF(L)2 type	Indoor / Outdoor	Canned	Clean water	0~25°C		1 or 3	Resin with SUS304 or SCS13	SUS304	SCS13 and SUS304 + Resi
IFE type	Indoor / Outdoor	Canned	Clean water	0~25°C		1	Resin with SUS304	SUS304	SCS13 and SUS304 + Resi
	Indoor / Outdoor	TEFC indoor	Clean water	0~40°C	M	1 or 3	SCS13	SUS304	SCS13
Small booster pu		TEEO in de an	01	0 4000	8.4	4 0	D		
Small booster pu IR type	Indoor / Outdoor		Clean water	0~40°C	М		Bronze	SUS304	SCS13+ Resin
Small booster pu IR type I3-N type	Indoor / Outdoor Indoor / Outdoor	TEFC indoor	Clean water Clean water	0~40°C 0~40°C	M M		Bronze Bronze	SUS304 SUS304	SCS13+ Resin Cast iron
Small booster pu IR type I3-N type Hot water auxilia	Indoor / Outdoor Indoor / Outdoor	TEFC indoor		0~40°C					
Small booster pulls type 13-N type Hot water auxilia FRH(W) /	Indoor / Outdoor Indoor / Outdoor	TEFC indoor quipment		0~40°C 0~90°C /					
Small booster pu IR type I3-N type Hot water auxilia FRH(W) / FR(W) type	Indoor / Outdoor Indoor / Outdoor ry boosting ed Indoor / Outdoor	TEFC indoor TEFC indoor	Clean water Clean water	0~40°C 0~90°C / 0~45°C	M S	1 or 3	Bronze Resin	SUS304 Alumina Ceramics	Cast iron SCS13
Small booster pu IR type I3-N type Hot water auxilia SFRH(W) / SFR(W) type IFD(N)-K type	Indoor / Outdoor Indoor / Outdoor ry boosting ed	TEFC indoor TEFC indoor	Clean water	0~40°C 0~90°C /	M	1 or 3	Bronze	SUS304	Cast iron
Small booster pu IR type I3-N type Hot water auxilia FRH(W) / FR(W) type IFD(N)-K type Hand pump	Indoor / Outdoor Indoor / Outdoor ry boosting ed Indoor / Outdoor	TEFC indoor TEFC indoor	Clean water Clean water	0~40°C 0~90°C / 0~45°C 0~40°C	M S	1 or 3	Bronze Resin	SUS304 Alumina Ceramics	Cast iron SCS13 SCS13
Small booster pu IR type I3-N type Hot water auxilia FRH(W) / FR(W) type IFD(N)-K type Hand pump IDStype	Indoor / Outdoor Indoor / Outdoor ry boosting ec Indoor / Outdoor Indoor / Outdoor	TEFC indoor quipment TEFC indoor TEFC indoor	Clean water Clean water Clean water	0~40°C 0~90°C / 0~45°C	M S	1 or 3	Bronze Resin	SUS304 Alumina Ceramics	Cast iron SCS13
Small booster pu IR type I3-N type Hot water auxilia FRH(W) / FR(W) type IFD(N)-K type Hand pump IDStype Water supply equ	Indoor / Outdoor Indoor / Outdoor ry boosting ec Indoor / Outdoor Indoor / Outdoor	TEFC indoor quipment TEFC indoor TEFC indoor	Clean water Clean water Clean water king water unit	0~40°C 0~90°C / 0~45°C 0~40°C 5~40°C	S M	1 or 3 1 1 or 3	Bronze Resin Bronze	SUS304 Alumina Ceramics SUS304	SCS13 SCS13
Small booster pu IR type I3-N type Hot water auxilia FRH(W) / FR(W) type IFD(N)-K type Hand pump IDStype Water supply equ IDP2 type	Indoor / Outdoor Indoor / Outdoor ry boosting ec Indoor / Outdoor Indoor / Outdoor Indoor / Outdoor Jipment / Sma Indoor / Outdoor	TEFC indoor quipment TEFC indoor TEFC indoor Il regional drink TEFC indoor	Clean water Clean water Clean water cling water unit Clean water	0~40°C 0~90°C / 0~45°C 0~40°C 5~40°C	M S M	1 or 3 1 or 3 1 or 3	Resin Bronze Bronze	SUS304 Alumina Ceramics SUS304 SUS304	Cast iron SCS13 SCS13 SCS13 SCS13
Small booster pu R type 3-N type Hot water auxilia FRH(W) / FR(W) type FD(N)-K type Hand pump DStype Water supply equ DP2 type	Indoor / Outdoor Indoor / Outdoor ry boosting ec Indoor / Outdoor Indoor / Outdoor	TEFC indoor quipment TEFC indoor TEFC indoor Il regional drink TEFC indoor	Clean water Clean water Clean water king water unit	0~40°C 0~90°C / 0~45°C 0~40°C 5~40°C	S M	1 or 3 1 or 3 1 or 3	Resin Bronze Bronze Bronze SCS13 or Bronze	SUS304 Alumina Ceramics SUS304	SCS13 SCS13
Small booster pulls type	Indoor / Outdoor Indoor / Outdoor ry boosting ec Indoor / Outdoor Indoor / Outdoor Indoor / Outdoor Jipment / Sma Indoor / Outdoor	TEFC indoor quipment TEFC indoor TEFC indoor Il regional drink TEFC indoor	Clean water Clean water Clean water cling water unit Clean water	0~40°C 0~90°C / 0~45°C 0~40°C 5~40°C	M S M	1 or 3 1 or 3 1 or 3	Resin Bronze Bronze	SUS304 Alumina Ceramics SUS304 SUS304	Cast iron SCS13 SCS13 SCS13 SCS13
Small booster pulls type	Indoor / Outdoor	TEFC indoor quipment TEFC indoor TEFC indoor Il regional drink TEFC indoor TEFC indoor	Clean water	0~40°C 0~90°C / 0~45°C 0~40°C 5~40°C 0~40°C	S M	1 or 3	Bronze Bronze SCS13 or Bronze Bronze or SCS13 or Resin	SUS304 Alumina Ceramics SUS304 SUS304 SUS304	SCS13 SCS13 SCS13 SCS13 SCS13 SCS13
Small booster pu IR type I3-N type Hot water auxilia FRH(W) / FR(W) type IFD(N)-K type Hand pump IDStype Water supply equ IDP2 type IDP2 type IFED·KFD2 type Sea water pump	Indoor / Outdoor	TEFC indoor quipment TEFC indoor TEFC indoor Il regional drink TEFC indoor TEFC indoor	Clean water	0~40°C 0~90°C / 0~45°C 0~40°C 5~40°C 0~40°C	S M	1 or 3	Bronze Bronze Bronze SCS13 or Bronze Bronze or SCS13 or Resin	SUS304 Alumina Ceramics SUS304 SUS304 SUS304	Cast iron SCS13 SCS13 SCS13 SCS13 SCS13 SCS13 SCS13 Cast iron with
Small booster pu IR type I3-N type Hot water auxilia FRH(W) / FR(W) type IFD(N)-K type Hand pump IDStype Water supply equ IDP2 type IDP2 type FED·KFD2 type Sea water pump SSZB2-KZB type	Indoor / Outdoor Indoor Indoor Indoor Indoor	TEFC indoor quipment TEFC indoor TEFC indoor Ill regional drink TEFC indoor TEFC indoor TEFC indoor TEFC indoor	Clean water	0~40°C 0~90°C / 0~45°C 0~40°C 5~40°C 0~40°C 0~40°C 0~40°C	M M M M	1 or 3 3	Bronze Bronze SCS13 or Bronze Bronze or SCS13 or Resin SCS14 (KZB: Resin)	Alumina Ceramics SUS304 SUS304 SUS304 SUS304 SUS304 SUS304 SUS316	Cast iron SCS13 SCS13 SCS13 SCS13 SCS13 SCS13 Cast iron with Nylon coating
Small booster pu R type 3-N type Hot water auxilia FRH(W) / FR(W) type FD(N)-K type Hand pump DStype Water supply equ DP2 type DP2 type DP2 type FED·KFD2 type Sea water pump SZB2·KZB type SP3·4 type	Indoor / Outdoor Indoor / Indoor Indoor / Outdoor Indoor / Outdoor	TEFC indoor quipment TEFC indoor TEFC indoor Il regional drink TEFC indoor TEFC indoor TEFC indoor TEFC outdoor	Clean water Sea water Sea water	0~40°C 0~90°C / 0~45°C 0~40°C 5~40°C 0~40°C 0~40°C 0~40°C 0~40°C	M M M M M	1 or 3 1 1 or 3 3 3	Bronze Bronze SCS13 or Bronze Bronze or SCS13 or Resin SCS14 (KZB: Resin) METTON® Resin	SUS304 Alumina Ceramics SUS304 SUS304 SUS304 SUS304 SUS304 SUS316 SUS316	Cast iron SCS13 SCS13 SCS13 SCS13 SCS13 SCS13 Cast iron with Nylon coating METTON® Res
Small booster pu IR type I3-N type Hot water auxilia FRH(W) / FR(W) type IFD(N)-K type Hand pump IDStype Water supply equ IDP2 type (IDP2 type (IDP2 type (IDP2 type (IDP2 type (IDP3 type	Indoor / Outdoor Submerged	TEFC indoor quipment TEFC indoor TEFC indoor TEFC indoor TEFC indoor TEFC indoor TEFC indoor TEFC outdoor TEFC outdoor TEFC outdoor Dry-sealed	Clean water	0~40°C 0~90°C / 0~45°C 0~40°C 5~40°C 0~40°C 0~40°C 0~40°C	M M M M	1 or 3 3	Bronze Bronze SCS13 or Bronze Bronze or SCS13 or Resin SCS14 (KZB: Resin) METTON® Resin	Alumina Ceramics SUS304 SUS304 SUS304 SUS304 SUS304 SUS304 SUS316	Cast iron SCS13 SCS13 SCS13 SCS13 SCS13 SCS13 Cast iron with Nylon coating
Small booster purity by the state of the sta	Indoor / Outdoor Series Indoor Indoor / Outdoor Submerged Int spring) pum	TEFC indoor quipment TEFC indoor TEFC indoor III regional drink TEFC indoor TEFC indoor TEFC indoor TEFC indoor TEFC outdoor TEFC outdoor Dry-sealed p series	Clean water Sea water Sea water Sea water Sewage	0~40°C 0~90°C / 0~45°C 0~40°C 5~40°C 0~40°C 0~40°C 0~40°C 0~40°C 0~40°C	M S M M M M M M M	1 or 3 3 or 3 1 or 3	Bronze Bronze SCS13 or Bronze Bronze or SCS13 or Resin SCS14 (KZB: Resin) METTON® Resin Resin	SUS304 Alumina Ceramics SUS304 SUS304 SUS304 SUS304 SUS316 SUS316 Titanium	Cast iron SCS13 SCS13 SCS13 SCS13 SCS13 SCS13 Cast iron with Nylon coating METTON® Res Resin
Small booster pulls type Small booster pulls type Small booster pulls type Hot water auxilia FRH(W) / FR(W) type Hand pump IDStype Water supply equal IDP2 type IDP2 type IDP2 type Sea water pump SZB2·KZB type SP3·4 type For hot water (ho	Indoor / Outdoor Submerged	TEFC indoor quipment TEFC indoor TEFC indoor TEFC indoor TEFC indoor TEFC indoor TEFC indoor TEFC outdoor TEFC outdoor TEFC outdoor Dry-sealed	Clean water Sea water Sea water	0~40°C 0~90°C / 0~45°C 0~40°C 5~40°C 0~40°C 0~40°C 0~40°C 0~40°C	M M M M M	1 or 3 1 1 or 3 3 3	Bronze Bronze SCS13 or Bronze Bronze or SCS13 or Resin SCS14 (KZB: Resin) METTON® Resin	SUS304 Alumina Ceramics SUS304 SUS304 SUS304 SUS304 SUS304 SUS316 SUS316	Cast iron SCS13 SCS13 SCS13 SCS13 SCS13 SCS13 Cast iron with Nylon coating METTON® Res
Small booster pulls type Small booster pulls type Hot water auxilia FRH(W) / FR(W) type Hand pump IDStype Water supply equilibre type IDP2 type IDP2 type IFED·KFD2 type Sea water pump ISSZB2·KZB type ISSP3·4 type	Indoor / Outdoor Series Indoor Indoor / Outdoor Submerged Int spring) pum	TEFC indoor quipment TEFC indoor TEFC indoor III regional drink TEFC indoor TEFC indoor TEFC indoor TEFC indoor TEFC outdoor TEFC outdoor Dry-sealed p series	Clean water Sea water Sea water Sea water Sea water Sewage Hot water	0~40°C 0~90°C / 0~45°C 0~40°C 5~40°C 0~40°C 0~40°C 0~40°C 0~40°C 0~40°C	M S M M M M M M M	1 or 3 3 or 3 1 or 3	Bronze Bronze SCS13 or Bronze Bronze or SCS13 or Resin SCS14 (KZB: Resin) METTON® Resin Resin	SUS304 Alumina Ceramics SUS304 SUS304 SUS304 SUS304 SUS316 SUS316 Titanium	Cast iron SCS13 SCS13 SCS13 SCS13 SCS13 SCS13 Cast iron with Nylon coating METTON® Res Resin
Small booster pu IR type I3-N type Hot water auxilia FRH(W) / FRE(W) type Hobstype Water supply equ IDP2 type (DP2 type (FED-KFD2 type SSP3-4 type WUZ2-3 type For hot water (ho (URH2-3 type (FEH type	Indoor / Outdoor Submerged Indoor / Outdoor Submerged Submerged	TEFC indoor quipment TEFC indoor TEFC indoor TEFC indoor TEFC indoor TEFC indoor TEFC indoor TEFC outdoor TEFC outdoor Dry-sealed p series Canned	Clean water Sea water Sea water Sea water Sewage Hot water Simple thermal	0~40°C 0~90°C / 0~45°C 0~40°C 5~40°C 0~40°C 0~40°C 0~40°C 0~40°C 0~40°C 0~60°C 0~60°C	M S M M M M M M O	1 or 3 3 or 3 1 or 3	Bronze Bronze Bronze SCS13 or Bronze Bronze or SCS13 or Resin SCS14 (KZB: Resin) METTON® Resin SCS13	SUS304 Alumina Ceramics SUS304 SUS304 SUS304 SUS304 SUS316 Titanium SUS403	Cast iron SCS13 SCS13 SCS13 SCS13 SCS13 SCS13 Cast iron with Nylon coating METTON® Resin SCS13

^{*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



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
- 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

Kawamoto Pump MFG. CO., LTD.

verseas Marketing Section 11-39, Osu 4-Chome, Naka-ku, Nagoya 460-8650, JAPAN

TEL: +81-52-251-7173 FAX: +81-52-747-5500 E-mail: kawamotobo@kawamoto-oms.com http://www.kawamoto.co.jp

For any question about pumps, please contact your nearest distributor

Name	Pump Series
No.	5302 i 🖲