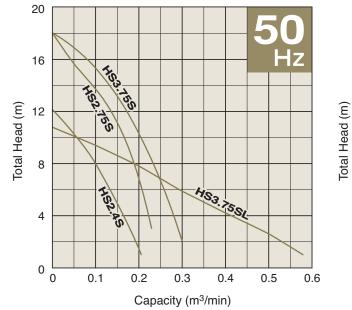
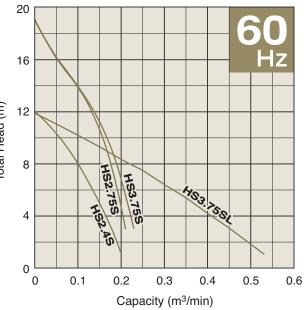
Tsurumi Pump		Drainage Pumps
Series:	Discharge Bore:	Motor Output / Pole:
HS	50·80mm	0.4·0.75kW / 2-pole
	it is a single-phase unit, the pump phase drainage pumps, since the we materials. The side discharge, spiral	-phase portable drainage pump. Though has the durability equivalent to three- ar parts are made of abrasion-resistant design allows smoother passage of the nted agitator prevents the air lock that vortex pumps.

Selection Table

Model	Discharge Bore mm	Motor Output kW	Phase	Starting Method	Pole	Dry Weight kg
HS2.4S	50	0.4	1-phase	Capacitor Run	2	11.3
HS2.75S	50	0.75	1-phase	Capacitor Run	2	16.4
HS3.75S	80	0.75	1-phase	Capacitor Run	2	16.8
HS3.75SL	80	0.75	1-phase	Capacitor Run	2	19.6

Performance Curves





SPECIFICATIONS Model

HS2.4S

Drainage Pumps

HS-series

0.4kW, 1-phase

Type of Pump

Submersible drainage pump for construction and foundation works, floodwater drainage, etc.

Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water

Temperature: 0 to 40°C

Discharge Bore & Connection 50mm, Hose Coupling

Motor Output 0.4kW

Power Supply Single-phase

Starting Method Capacitor Run

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: E Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min⁻¹ (50/60Hz)

 Power Supply Voltages & Rated Currents

 50Hz
 60Hz

 220V - 2.7A
 110V - 5.4A

 230V - 2.6A
 220V - 2.7A

 240V - 2.6A
 220V - 2.7A

Power Cable

Sheath: PVC Standard Length: 5m 100 to 240V supply: 1 x 3 x 1.25mm², O.D. 10.1mm

Dry Weight (excluding cable) 11.3kg

Impeller

Vortex impeller deigned for "high-gap structure", made of urethane rubber

Solids Passage 50Hz – ¢7mm 60Hz – ¢7mm

Agitator Sintered alloy

Cable Entry with Anti-Wicking Block

Watertight cable entry with strain-relief device. The antiwicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

Shaft 403 stainless steel

Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.

Upper Seal Face: Ceramic + Carbon Lower Seal Face: SiC + Ceramic

OIL LIFTER

Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 160ml

Motor Protection Device

A miniature thermal protector is embedded in winding of the motor. Directly cuts the motor circuit if excessive heat builds up in the motor.

Optional Accessory

SPECIFICATIONS Model

HS2.75S

Drainage Pumps

HS-series 0.75kW, 1-phase

Type of Pump

Submersible drainage pump for construction and foundation works, floodwater drainage, etc.

Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water

Temperature: 0 to 40°C

Discharge Bore & Connection 50mm, Hose Coupling

Motor Output 0.75kW

Power Supply Single-phase

Starting Method Capacitor Run

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: E Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min⁻¹ (50/60Hz)

 Power Supply Voltages & Rated Currents

 50Hz
 60Hz

 220V - 4.9A
 110V - 10.0A

 230V - 4.8A
 220V - 5.1A

 240V - 4.7A
 220V - 5.1A

Power Cable

Sheath: PVC Standard Length: 5m 200 to 240V supply: 1 x 3 x 1.25mm², O.D. 10.1mm 100 to 120V supply: 1 x 3 x 2.0mm², O.D. 10.9mm

Dry Weight (excluding cable) 16.4kg

Impeller

Vortex impeller deigned for "high-gap structure", made of urethane rubber

Solids Passage 50Hz – ¢7mm 60Hz – ¢7mm

Agitator Sintered alloy

Cable Entry with Anti-Wicking Block

Watertight cable entry with strain-relief device. The antiwicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

Shaft 403 stainless steel

Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.

Upper Seal Face: Ceramic + Carbon Lower Seal Face: SiC + Ceramic

V-Ring Used as a "Dust Seal", it protects the mechanical seal from abrasive particles.

OIL LIFTER

Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 160ml

Motor Protection Device

A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

Optional Accessory

SPECIFICATIONS Model

HS3.75S

Drainage Pumps

HS-series 0.75kW, 1-phase

Type of Pump

Submersible drainage pump for construction and foundation works, floodwater drainage, etc.

Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water

Temperature: 0 to 40°C

Discharge Bore & Connection 80mm, Hose Coupling

Motor Output 0.75kW

Power Supply Single-phase

Starting Method Capacitor Run

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: E Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min⁻¹ (50/60Hz)

 Power Supply Voltages & Rated Currents

 50Hz
 60Hz

 220V - 4.9A
 110V - 10.0A

 230V - 4.8A
 220V - 5.1A

 240V - 4.7A
 220V - 5.1A

Power Cable

Sheath: PVC Standard Length: 5m 200 to 240V supply: 1 x 3 x 1.25mm², O.D. 10.1mm 100 to 120V supply: 1 x 3 x 2.0mm², O.D. 10.9mm

Dry Weight (excluding cable) 16.8kg

Impeller

Vortex impeller deigned for "high-gap structure", made of urethane rubber

Solids Passage 50Hz – ¢7mm 60Hz – ¢7mm

Agitator Sintered alloy

Cable Entry with Anti-Wicking Block

Watertight cable entry with strain-relief device. The antiwicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

Shaft 403 stainless steel

Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.

Upper Seal Face: Ceramic + Carbon Lower Seal Face: SiC + Ceramic

V-Ring

Used as a "Dust Seal", it protects the mechanical seal from abrasive particles.

OIL LIFTER

Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 160ml

Motor Protection Device

A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

Optional Accessory

SPECIFICATIONS Model

HS3.75SL

Drainage Pumps

HS-series

0.75kW, 1-phase

Type of Pump

Submersible drainage pump for construction and foundation works, floodwater drainage, etc.

Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water

Temperature: 0 to 40°C

Discharge Bore & Connection 80mm, Hose Coupling

Motor Output 0.75kW

Power Supply Single-phase

Starting Method Capacitor Run

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: E Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000/3600min⁻¹ (50/60Hz)

 Power Supply Voltages & Rated Currents

 50Hz
 60Hz

 220V - 4.9A
 110V - 10.0A

 230V - 4.8A
 220V - 5.1A

 240V - 4.7A
 220V - 5.1A

Power Cable

Sheath: PVC Standard Length: 5m 200 to 240V supply: 1 x 3 x 1.25mm², O.D. 10.1mm 100 to 120V supply: 1 x 3 x 2.0mm², O.D. 10.9mm

Dry Weight (excluding cable) 19.6kg

Impeller

Vortex impeller deigned for "high-gap structure", made of urethane rubber

Solids Passage 50Hz – ¢7mm 60Hz – ¢7mm

Agitator Sintered alloy

Cable Entry with Anti-Wicking Block

Watertight cable entry with strain-relief device. The antiwicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

Shaft 403 stainless steel

Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.

Upper Seal Face: Ceramic + Carbon Lower Seal Face: SiC + Ceramic

V-Ring

Used as a "Dust Seal", it protects the mechanical seal from abrasive particles.

OIL LIFTER

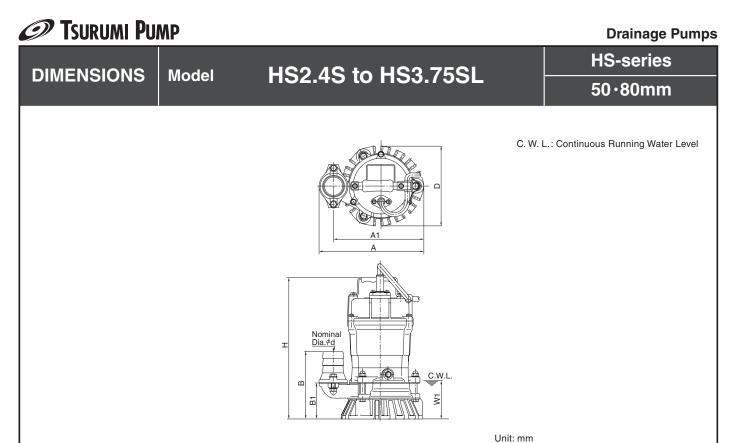
Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 160ml

Motor Protection Device

A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

Optional Accessory



Model	d	A	A1	В	B1	D	Н	W1
HS2.4S	50	241	207	158	84	184	328	90
HS2.75S	50	285	233	218	110	184	394	90
HS3.75S	80	285	233	218	110	184	394	90
HS3.75SL	80	288	233	249	141	184	425	120