Tsurumi Pump

Series:

Discharge Bore:

Motor Output / Pole:

KRS(Energy-Saving)

100 - 200mm

3 - 9kW / 4-pole

Drainage Pumps

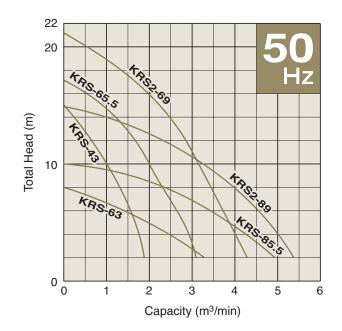


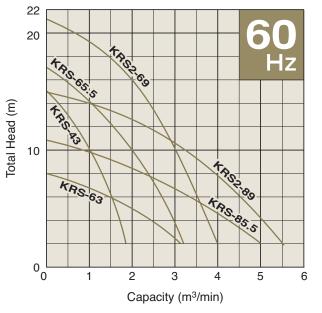
The KRS-series of energy-saving type is a submersible three-phase cast iron high volume heavy-duty drainage pump driven by a 4-pole motor. It consumes less energy than the standard KRS-series at lower head applications. The cast iron body, combined with the low speed motor, presents extra durability for use in the most demanding conditions. The top discharge, side flow design assures efficient motor cooling even when it operates with its motor exposed to air.

Selection Table

Model	Discharge Bore	Motor Output	Phase	Starting Method	Pole	Dry Weight
	mm	kW				kg
KRS-43	100	3	3-phase	Direct on Line	4	95
KRS-63	150	3	3-phase	Direct on Line	4	97
KRS-65.5	150	5.5	3-phase	Direct on Line	4	118
KRS2-69	150	9	3-phase	Direct on Line	4	155
KRS-85.5	200	5.5	3-phase	Direct on Line	4	126
KRS2-89	200	9	3-phase	Direct on Line	4	175

Performance Curves





🥟 Tsurumi Pump

SPECIFICATIONS | Model

KRS-43

KRS(E-Save)-series

Drainage Pumps

3kW, 3-phase

Type of Pump

Submersible high volume 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 100mm, Hose Coupling

Motor Output 3kW

Power Supply Three-phase

Starting Method Direct on Line (Star-Delta available on special request)

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: E Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)

 Power Supply Voltages & Rated Currents

 50Hz
 60Hz

 380V - 6.9A
 220V - 11.6A

 400V - 6.5A
 380V - 6.7A

 415V - 6.3A
 440V - 5.8A

Power Cable

Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 2.0mm², O.D. 14.4mm

Dry Weight (excluding cable) 95kg

Impeller

Semi-open impeller made of ductile cast iron

Solids Passage 50Hz – ¢12mm 60Hz – ¢12mm

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 420 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: SiC + SiC Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal) 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), 1440ml

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

Male Threaded Coupling

Special Specifications

High Temperature Liquids Version (60.80°C)

🥟 Tsurumi Pump

SPECIFICATIONS | Model

KRS-63

KRS(E-Save)-series

Drainage Pumps

3kW, 3-phase

Type of Pump

Submersible high volume 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 150mm, Hose Coupling

Motor Output 3kW

Power Supply Three-phase

Starting Method Direct on Line (Star-Delta available on special request)

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: E Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)

 Power Supply Voltages & Rated Currents

 50Hz
 60Hz

 380V - 6.9A
 220V - 11.6A

 400V - 6.5A
 380V - 6.7A

 415V - 6.3A
 440V - 5.8A

Power Cable

Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 2.0mm², O.D. 14.4mm

Dry Weight (excluding cable) 97kg

Impeller

Closed impeller made of ductile cast iron

Solids Passage 50Hz – ¢15mm 60Hz – ¢15mm

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 420 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: SiC + SiC Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal) 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), 1440ml

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

Male Threaded Coupling

Special Specifications

High Temperature Liquids Version (60.80°C)

🥏 Tsurumi Pump

SPECIFICATIONS | Model

KRS-65.5

KRS(E-Save)-series

Drainage Pumps

5.5kW, 3-phase

Type of Pump

Submersible high volume 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 150mm, Hose Coupling

Motor Output 5.5kW

Power Supply Three-phase

Starting Method Direct on Line (Star-Delta available on special request)

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: E Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)

 Power Supply Voltages & Rated Currents

 50Hz
 60Hz

 380V - 12.8A
 220V - 20.0A

 400V - 12.1A
 380V - 12.1A

 415V - 11.7A
 440V - 10.3A

Power Cable

Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 3.5mm², O.D. 16.8mm

Dry Weight (excluding cable) 118kg

Impeller

Semi-open impeller made of ductile cast iron

Solids Passage 50Hz – ¢20mm 60Hz – ¢20mm

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 420 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: SiC + SiC Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal) 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), 1960ml

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

Male Threaded Coupling

Special Specifications

High Temperature Liquids Version (60.80°C)

🧭 Tsurumi Pump

SPECIFICATIONS | Model

KRS2-69

KRS(E-Save)-series

Drainage Pumps

9kW, 3-phase

Type of Pump

Submersible high volume 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 150mm, Hose Coupling

Motor Output 9kW

Power Supply Three-phase

Starting Method Direct on Line (Star-Delta available on special request)

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: B Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)

 Power Supply Voltages & Rated Currents

 50Hz
 60Hz

 380V - 20.0A
 220V - 33.0A

 400V - 19.0A
 380V - 19.1A

 415V - 19.0A
 440V - 16.5A

Power Cable

Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 5.5mm², O.D. 19.8mm

Dry Weight (excluding cable) 155kg

Impeller

Semi-open impeller made of ductile cast iron

Solids Passage 50Hz – ¢20mm 60Hz – ¢20mm

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 420 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: SiC + SiC Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal) 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), 2300ml

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

Male Threaded Coupling

Special Specifications

High Temperature Liquids Version (60.80°C)

🥏 Tsurumi Pump

SPECIFICATIONS | Model

KRS-85.5

KRS(E-Save)-series

Drainage Pumps

5.5kW, 3-phase

Type of Pump

Submersible high volume 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 200mm, Hose Coupling

Motor Output 5.5kW

Power Supply Three-phase

Starting Method Direct on Line (Star-Delta available on special request)

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: E Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)

 Power Supply Voltages & Rated Currents

 50Hz
 60Hz

 380V - 12.8A
 220V - 20.0A

 400V - 12.1A
 380V - 12.1A

 415V - 11.7A
 440V - 10.3A

Power Cable

Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 3.5mm², O.D. 16.8mm

Dry Weight (excluding cable) 126kg

Impeller

Closed impeller made of ductile cast iron

Solids Passage 50Hz – ¢20mm 60Hz – ¢20mm

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 420 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: SiC + SiC Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal) 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), 1960ml

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

Male Threaded Coupling

Special Specifications

High Temperature Liquids Version (60.80°C)

🧭 Tsurumi Pump

SPECIFICATIONS | Model

KRS2-89

KRS(E-Save)-series

Drainage Pumps

9kW, 3-phase

Type of Pump

Submersible high volume 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 200mm, Hose Coupling

Motor Output 9kW

Power Supply Three-phase

Starting Method Direct on Line (Star-Delta available on special request)

Motor Continuous-duty rated, dry-type induction motor

Insulation Class: B Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)

 Power Supply Voltages & Rated Currents

 50Hz
 60Hz

 380V - 20.0A
 220V - 33.0A

 400V - 19.0A
 380V - 19.1A

 415V - 19.0A
 440V - 16.5A

Power Cable

Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 5.5mm², O.D. 19.8mm

Dry Weight (excluding cable) 175kg

Impeller

Semi-open impeller made of ductile cast iron

Solids Passage 50Hz – ¢30mm 60Hz – ¢30mm

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 420 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: SiC + SiC Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal) 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), 2300ml

Motor Protection Device

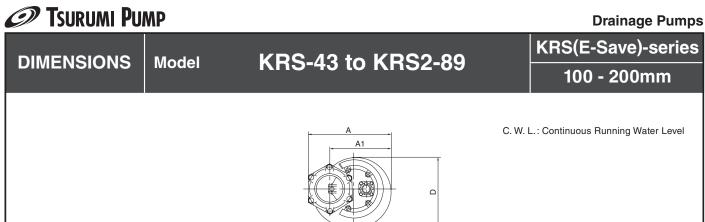
A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

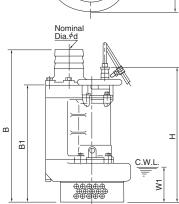
Optional Accessory

Male Threaded Coupling

Special Specifications

High Temperature Liquids Version (60.80°C)





	Unit: mm
Н	W1

Model	d	А	A1	В	B1	D	Н	W1
KRS-43	100	378	288	723	561	347	622	170
KRS-63	150	384	294	866	686	365	747	300
KRS-65.5	150	425	305	790	608	370	669	190
KRS2-69	150	490	372	812	630	424	742	200
KRS-85.5	200	446	326	941	710	413	771	295
KRS2-89	200	473	355	933	701	408	913	300