

SPECIFICATIONS Model 50U21.5

U-series
1.5kW, 3-phase

Type of Pump

Submersible cast iron vortex pump suitable for pumping sewage, wastewater, storm water, etc.

Type of Fluid

Sewage, wastewater, and water carrying solid matters

Temperature: 0 to 40°C

(High temperature model available on special request)

Discharge Bore

50mm

Motor Output

1.5kW

Power Supply

Three-phase

Starting Method

Direct on Line

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: F Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)

2-pole, 3000/3600min⁻¹ (50/60Hz)

Power Supply Voltages & Rated Currents

50Hz 60Hz 380V - 3.5A 220V - 6.0A 400V - 3.5A 380V - 3.4A 415V - 3.5A 440V - 3.2A

Power Cable

Sheath: PVC Standard Length: 6m 200 to 600V supply:

 $1 \times 4 \times 1.25$ mm², O.D. 11.1mm

Dry Weight (excluding cable) Free Standing Type: 30kg Guide Rail Fitting Type: 35kg

Impeller

Vortex impeller, dynamically balanced

Solids Passage 50Hz – ∮35mm 60Hz – ∮35mm

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.

Bearings

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 Faces: Ceramic + Carbon Lower Seal Faces: SiC + SiC

Oil Seal (Lip Seal)

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

OIL LIFTER (Patented)

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), 840ml

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 Accessories

TOS Set (Guide Rail Fitting Type)

- Duckfoot Bend
- Guide Support
- Guide Hook
- Lifting Chain 5m (with Shackles)
- JIS 10kg/cm² Screwed Flange

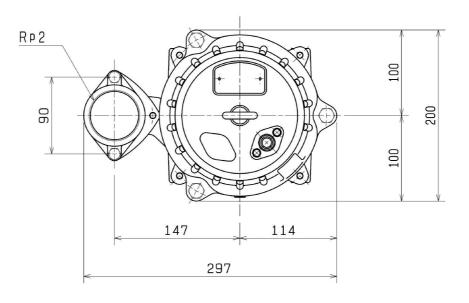
External Leakage Sensor

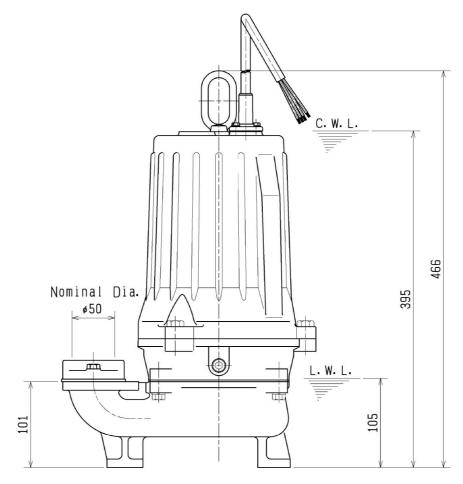
PEREC					
	RMAN	1CE	CURV	ES	
mersible	MODEL	50U (<i>A</i>	(/W) 21.5	-54 FREQ	UENCY 50 i
				NO.	
STANDARD	SPECIFIC	ATIONS	REQUIR	ED SPECIF	ICATIONS
	50	mm			п
15 m					
	0.2	m³/min			m ³ / m
	1.5	kW			k
3	φ×	V		φ×	
		А			
2 P/	S. S. 31	000 min-		P/	mi
DIREC	CT ON LI	NE			
	F				
			REMARKS:		
70.					
	A				
	YEA.				
PU	MP EFF.				
nu	TPUT				
0. 2	0.3	0. 4	0.5	0.6	m³/min
ГҮ					
	2 PZ DIREC	STANDARD SPECIFIC 50 15 0.2 1.5 3 Ø× DIRECT ON LI F PUMP EFF. OUTPUT 0.2 0.3	STANDARD SPECIFICATIONS 50 mm 15 m 0.2 m³/min 1.5 kW 3 ø× V A 2 P/ S. S. 3000 min DIRECT ON LINE F	STANDARD SPECIFICATIONS 50 mm 15 m 0.2 m ½ min 1.5 kW 3 Ø × V A 2 P / S. S. 3000 min ⁻¹ DIRECT ON LINE F PUMP EFF. OUTPUT 0.2 0.3 0.4 0.5	NO. STANDARD SPECIFICATIONS REQUIRED SPECIF



	IMENSION	DRAWIN	G	No.	No. A-11614-2
TYPE	Sewage Subm Vortex P		MODEL	·	50U21.5 -5 4 /6 4

Approximate
Weight(**)
30kg
*excluding cable

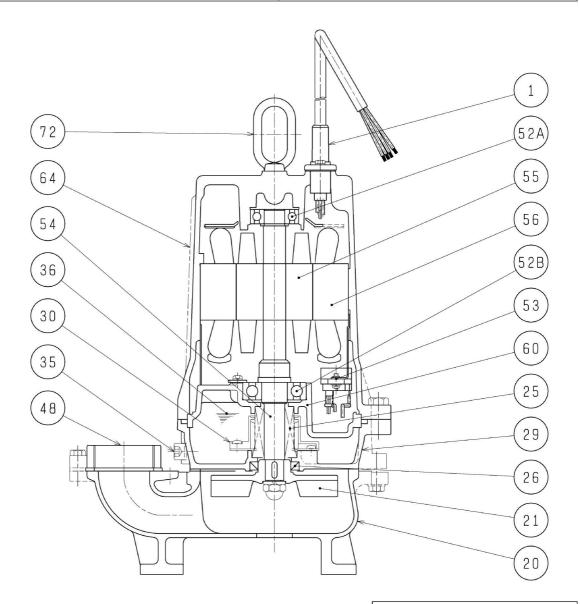




C. W. L. :Continuous Running Water Level L. W. L. :Lowest Running Water Level



SECTIONAL DR	AWING	No. A-11623-3
TYPE Sewage Submersib Vorte	le MODEL x Pump	50U21.5 -5 4 /6 4



REQ. SPECIFICATION

* the wetted part

	The second of th	_				-	
No.	DESCRIPTION	Q' TY	MATERIAL / NOTE	No.	DESCRIPTION	Q' TY	MATERIAL / NOTE
1	Cabtyre Cable	1	PVC Sheath	52B	Lower Bearing	1	6305ZZC3
20	Pump Casing	1	Gray Iron Casting	53	Motor Protector	1	
21	Impeller	1	Gray Iron Casting	54	Shaft	1	Stainless Steel 420J2(*)
25	Mechanical Seal	1	H-20A	55	Rotor	1	
26	Oil Seal	1	TC32488	56	Stator	1	
29	Oil Casing	1	Gray Iron Casting	60	Bearing Housing	1	Gray Iron Casting
30	Oil Lifter	1	Plastic	64	Motor Frame	1	Gray Iron Casting
35	Oil Plug	1	Stainless Steel 304	72	Eye Bolt	1	Stainless Steel 304
36	Lubricant		Turbine Oil (ISO VG32)				
48	Screwed Flange	1	Gray Iron Casting				
52A	Upper Bearing	1	6204ZZC3				