

SPECIFICATIONS	Model	50PU2.75S	
		PU-series 0.75kW, 1-phase	

Type of Pump

Submersible vortex pump made of 304 stainless steel and resin suitable for pumping sewage, wastewater, storm water, etc.

Type of Fluid

Sewage, wastewater, and water carrying solid matters

Temperature: 0 to 40°C

Discharge Bore

50mm

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 – 5.5A	110V – 9.0A
230V – 5.4A	220V – 5.0A
240V – 5.3A	

Power Cable

Sheath: PVC

Standard Length: 5m

200 to 240V supply:

1 × 3 × 1.25mm², O.D. 10.1mm

100 to 120V supply:

1 × 3 × 2.0mm², O.D. 10.9mm

Dry Weight (excluding cable)

Standard Model: 8.9kg

Automatic Model: 9.5kg

Impeller

Vortex impeller made of glass-fiber reinforced PPO

Solids Passage

50Hz – φ35mm

60Hz – φ35mm

Cable Entry with Anti-Wicking Block

Watertight cable entry with strain-relief device. The anti-wicking 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

304 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 + Ceramic

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

Liquid Paraffin (ISO VG32), 240ml

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
TOK Set (Guide Rail Fitting Type)

- Duckfoot Bend
- Guide Support
- Guide Hook
- Lifting Chain 4m (with Shackles)

NO.

A-10475-2

PUMP PERFORMANCE CURVES

TYPE Sewage
Submersible Vortex Pump

MODEL 50PU2.75S -53
50PUA2.75S -53

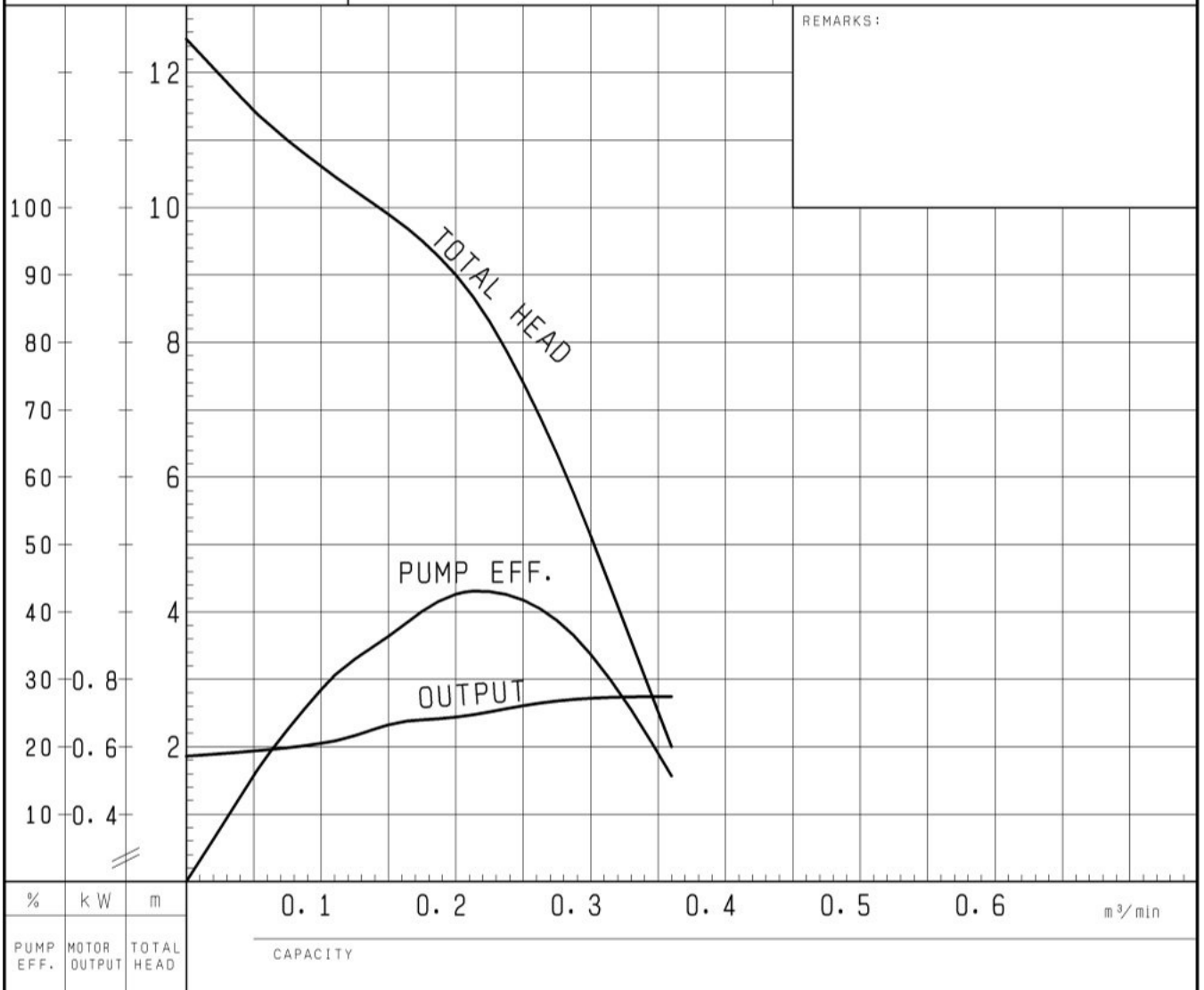
FREQUENCY
50 Hz

CUSTOMER'S NAME

EQUIPMENT TITLE

NO.

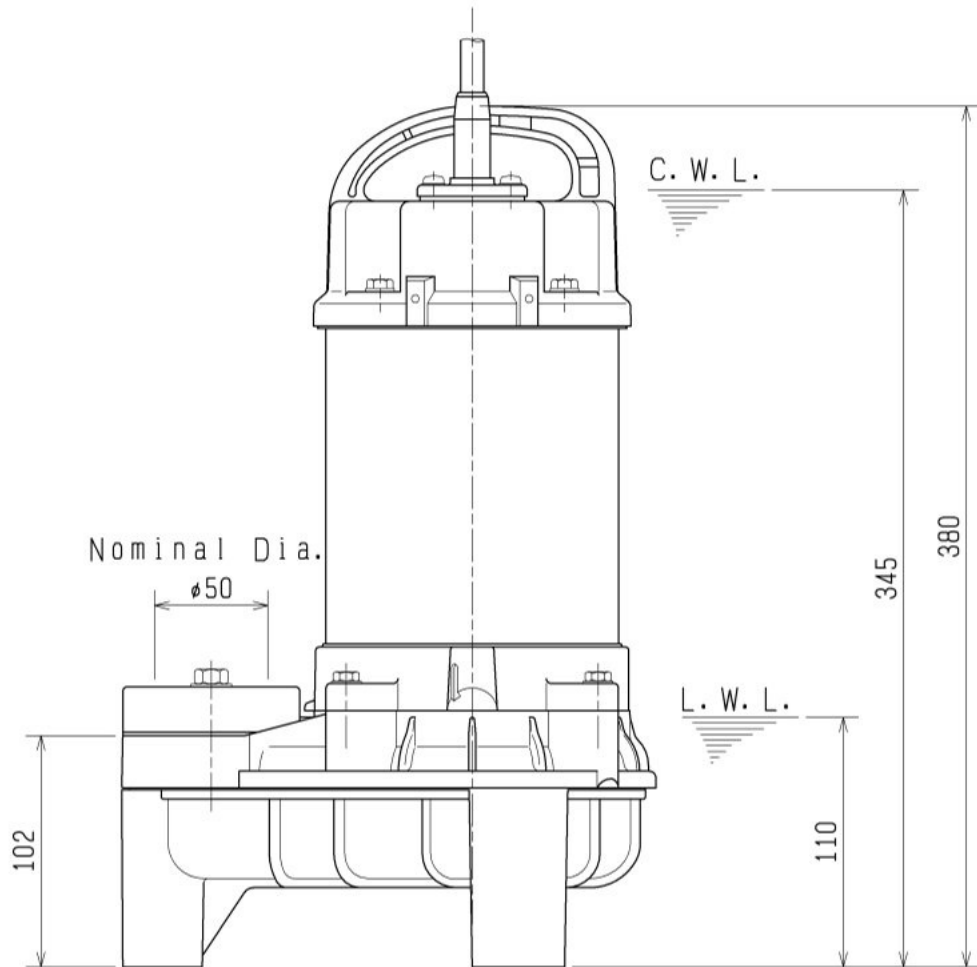
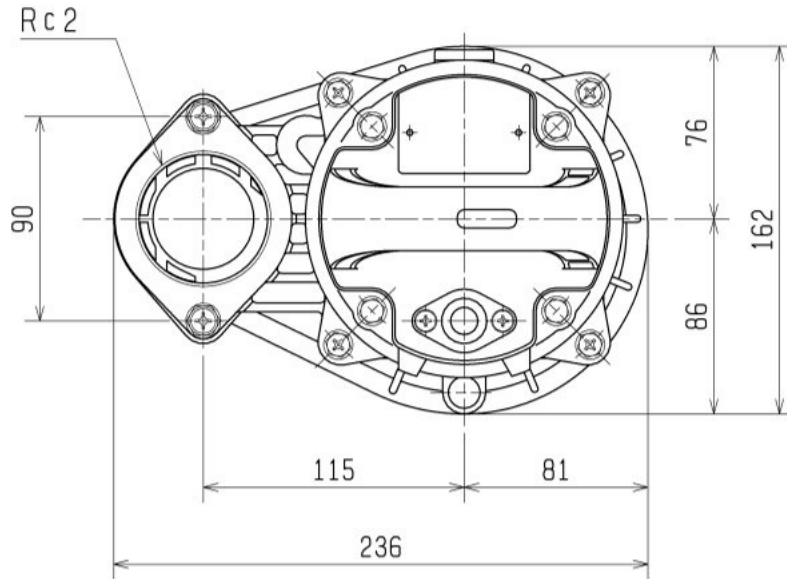
	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	50 mm	mm
TOTAL HEAD	9.0 m	m
CAPACITY	0.2 m ³ /min	m ³ /min
MOTOR OUTPUT	0.75 kW	kW
PHASE × VOLTAGE	1 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	2 P / s. s. 3000 min ⁻¹	P / min ⁻¹
STARTING METHOD	CAPACITOR MOTOR	
INSULATION CLASS	E	



TSURUMI MFG. CO., LTD.

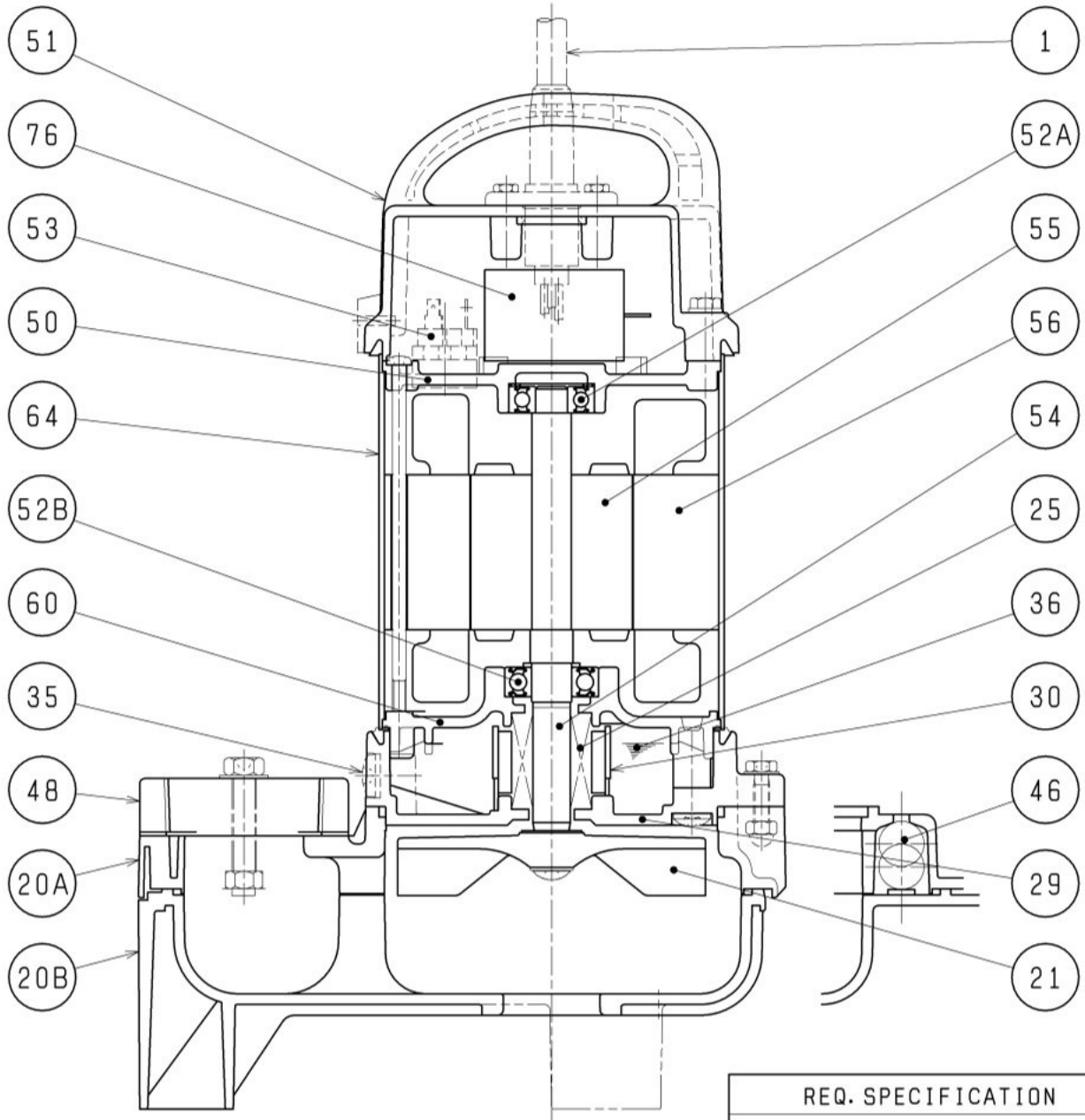
DIMENSION DRAWING		No.	No. A-10477-2
TYPE	Sewage Submersible Vortex Pump	MODEL	50PU2.75S -53/63

Approximate Weight (※)
8.9kg
※excluding cable



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

SECTIONAL DRAWING		No.	No. A-17606-2
TYPE Submersible Vortex Sewage Pump		MODEL	50PU2.75S -53/63



REQ. SPECIFICATION	

* Upper and lower blocks form a one-piece casing.

No.	DESCRIPTION	QTY	MATERIAL / NOTE	No.	DESCRIPTION	QTY	MATERIAL / NOTE
1	Cabtyre Cable	1	PVC Sheath	52A	Upper Bearing	1	6201ZZC3
20A	Upper Pump Casing	※ 1	Plastic W/GF	52B	Lower Bearing	1	6302ZZC3
20B	Lower Pump Casing	1	Plastic	53	Motor Protector	1	
21	Impeller	1	Plastic W/GF	54	Shaft	1	Stainless Steel 304
25	Mechanical Seal	1	W-14HC	55	Rotor	1	
29	Oil Casing	1	Plastic W/GF	56	Stator	1	
30	Oil Lifter	1	Plastic	60	Bearing Housing	1	Aluminium Die Casting
35	Oil Plug	1	Stainless Steel 304	64	Motor Frame	1	Stainless Steel 304
36	Lubricant		Liquid Paraffin (ISO VG32)	76	Capacitor	1	
46	Air Release Valve	1	Glass Ball				
48	Screwed Flange	1	Plastic W/GF				
50	Motor Bracket	1	Aluminium Die Casting				
51	Head Cover	1	Plastic W/GF				