WALRUS PUMP

TPU Series

Self Priming Pump

IE3-IE4 Motor



Better Life
Through Innovation

TPU Series Self Priming Pump



50 Hz

Power: 1.1 - 1.5 kW
Head: Up to 19 M
Flow: Up to 415 L/min
Outlet: 2"
Inlet: 2"

60 Hz

Power: 0.55 - 1.5 kW
Head: Up to 28 M
Flow: Up to 510 L/min
Outlet: 1.5" - 2"
Inlet: 1.5" - 2"



Product Features

- Horizontal single stage centrifugal pump, self-priming, co-axial pump/motor design, impellers mounted on extended motor shaft. Main working parts made by stainless steel and engineering plastics.

Applications

The semi-open impeller design prevents blockage caused by suspended solids in the fluid, making it suitable for high-flow rate transfer. And pump casing constructed with high-performance composite materials can be applied in seawater or other saline environments, such as:

- Fishery and transport Sea water
- Seawater Heating and Cooling System
- Gardening or greenhouse sprinkler system
- Agriculture/Industrial/Animal husbandry seawater transferring

Model Code

TPU 1100
- 1100: Output power
- TPU: Model series

Operating Conditions

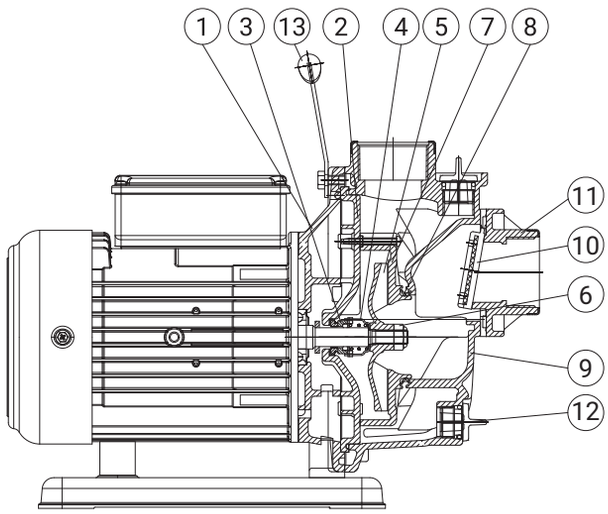
- Ambient Temperature: Max.+40°C
- Liquids Temperature: +4°C ~ +40°C
- System Pressure: Max. 3 kg/cm²
- Inlet Pressure: Max. 0 kg/cm²
- Max. Suction Depth: 6 m
- Kinematical Viscosity: 1 cst (mm²/s)
- Particle Size: 1mm

Motor

- Enclosure protection class: IP54
- Insulation class: F.
- Nominal speed: 2900/3500 rpm
- Frequency range: 50/60 Hz
- Voltages code:

Code	PH	50Hz	60Hz
51R	1	200-240	-
61R	1	-	200-240
9V	3	200-230 / 342-380	220-240 / 380-440

Sectional Drawing



Materials

NO.	Part name	Material
1	Flange Bracket	FC20
2	Intermediate	PPS
3	Mechanical seal	HGSH
4	Sleeve(Mechanical seal)	SUS 316
5	Impeller	SUS 304
6	Nut	SUS 316
7	Intermediate	PPE
8	Gasket	NBR
9	Pump Casing	PPE
10	Check Valve	NBR+SUS304
11	Flange	Nylon
12	Water Plug	Nylon
13	Handle	NBR+SUS304

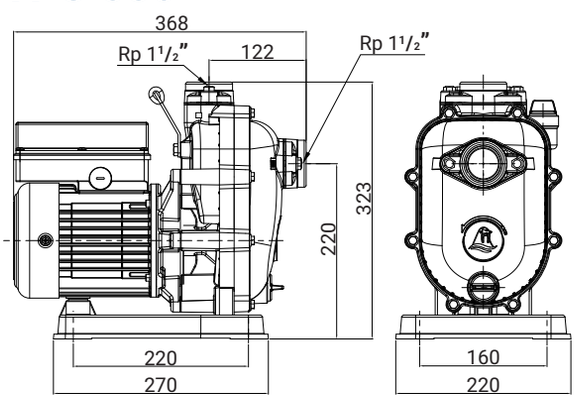
Electrical Data, (Single Phase)

Model	PH ø	Voltage code	Cycle Hz	Volts V	Input kW	Output kW	Ampere A	Inlet in.	Outlet in.	N.W. kg	G.W. kg	
TPU1100	1	51R	50	200-240	1.35	1.10	8.2-6.8	2"	2"	23	24.8	12
TPU1500	1	51R	50	200-240	1.64	1.50	9.3-8.0	2"	2"	25	26.8	12

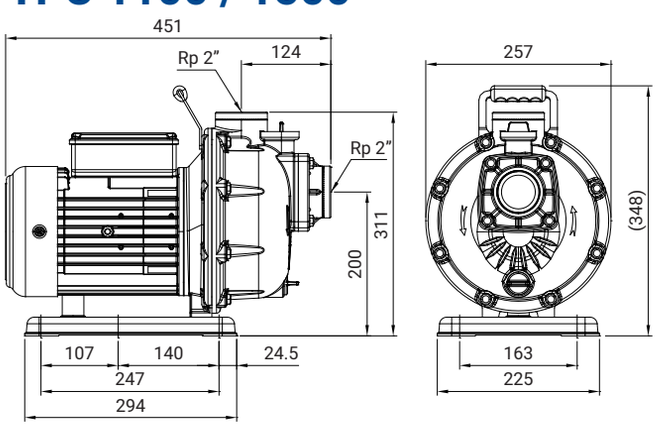
Model	PH ø	Voltage code	Cycle Hz	Volts V	Input kW	Output kW	Ampere A	Inlet in.	Outlet in.	N.W. kg	G.W. kg	
TPU550	1	61R	60	200-240	0.90	0.55	4.7-4.2	1.5"	1.5"	12	15.4	12
TPU1100	1	61R	60	200-240	1.98	1.10	10.5-9.1	2"	2"	23	24.8	12
TPU1500	1	61R	60	200-240	2.74	1.50	14.2-12.4	2"	2"	25	26.8	12

Dimensions

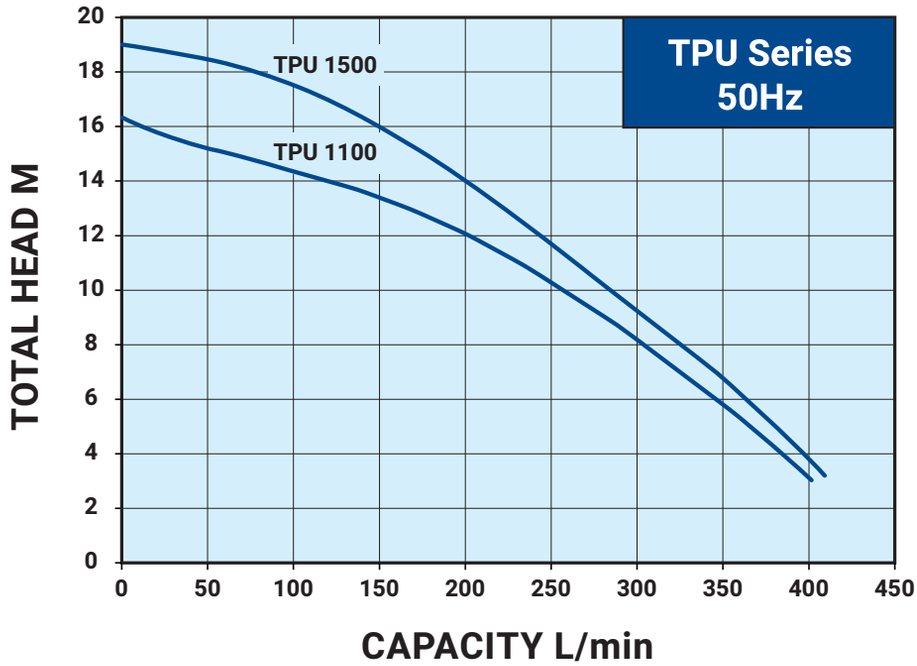
TPU 550



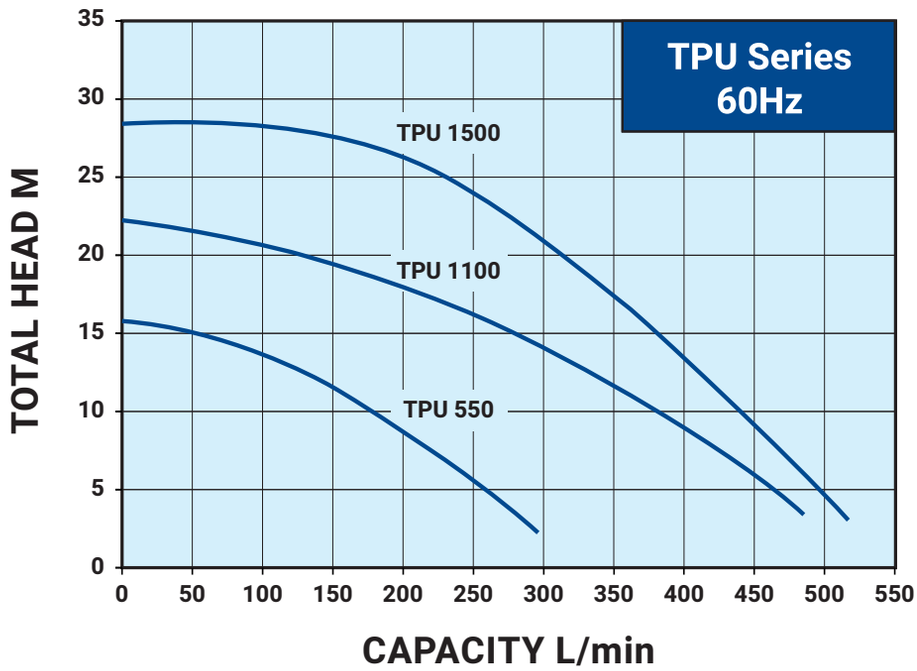
TPU 1100 / 1500



Performance Curve, 50Hz



Performance Curve, 60Hz



Electrical Cata, (Three Phase), Motor Efficiency IE3-IE4

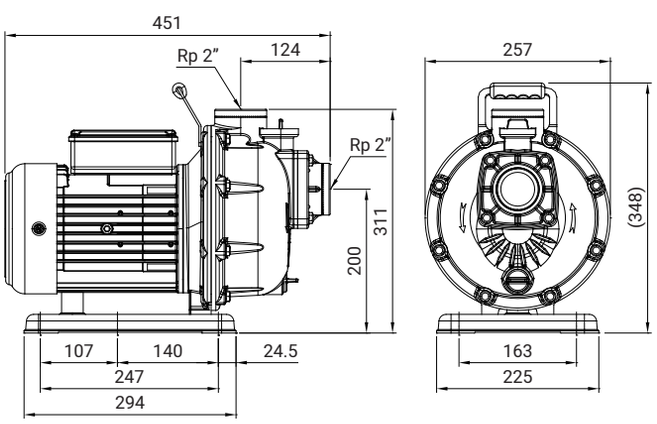
Model	PH ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere $I_{1/1}$(A)	Service Factor	Ampere I_{max}(A)	Inlet in.	Outlet in.	N.W. kg	G.W. kg	
TPU 1100	3	9V	50	200-230 / 342-380	1.1	5.2-6.0 / 3.0-3.2	1.1	5.5-6.2 / 3.2-3.3	2"	2"	23	24.8	12
TPU 1100	3	9V	60	220-240 / 380-440	1.1	4.8-4.7 / 2.8-2.9	1.5	6.0-5.8 / 3.5-3.4	2"	2"	23	24.8	12

Electrical Cata, (Three Phase), Motor Efficiency IE4

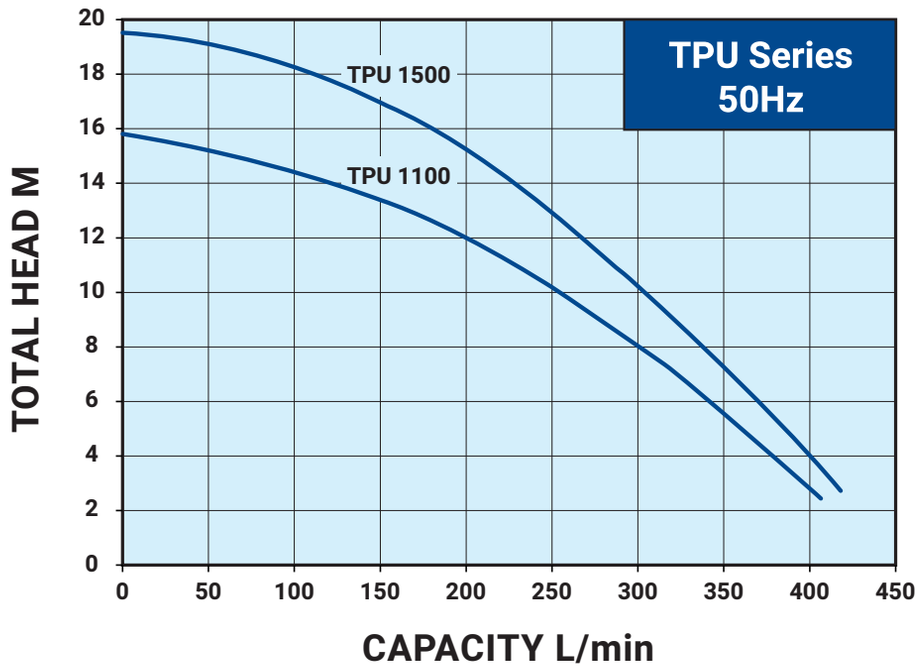
Model	PH ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere $I_{1/1}$(A)	Service Factor	Ampere I_{max}(A)	Inlet in.	Outlet in.	N.W. kg	G.W. kg	
TPU 1500	3	9V	50	200-230 / 342-380	1.5	6.3-6.1 / 3.6-3.5	1.1	6.8-6.5 / 3.9-3.7	2"	2"	23	24.8	12
TPU 1500	3	9V	60	220-240 / 380-440	1.5	5.8-5.5 / 3.4-3.1	1.5	8.3-7.6 / 4.8-4.2	2"	2"	25	26.8	12

Dimensions

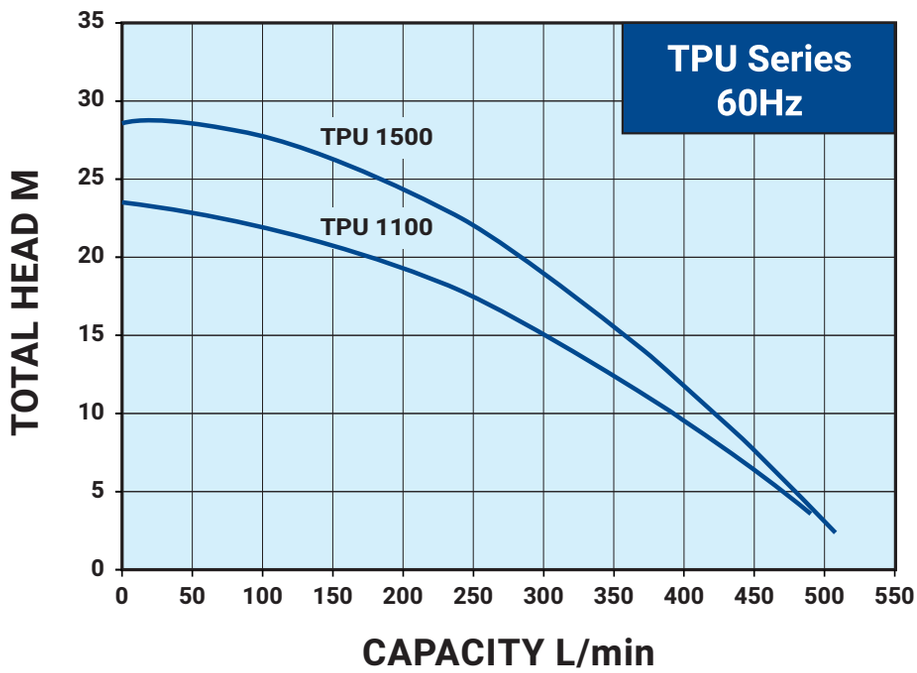
TPU 1100 / 1500



Performance Curve, 50Hz



Performance Curve, 60Hz



WALRUS PUMP

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All specifications are subject to change without notice. TPU-IE3-EN003b-202506

bsi. ISO 9001 品質管理系統

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