

TPHK(S)E Series

Immersible Pump

IE3 High Efficiency
Motor



WALRUS
WALRUS PUMP CO., LTD.

TPHK(S)E Series Immersible Pump



50Hz

Power: 1.1 - 3.4 kW

Head: Up to 60M

Flow: Up to 200 L/min

60Hz

Power: 1.1 - 3.7 kW

Head: Up to 86M

Flow: Up to 230 L/min

Applications

The TPHK8T(S)E is vertical multistage centrifugal pump, designed for industrial use, specially for machine tool. It is suitable to carry fluids such as water, coolant, light oil and other clean, non aggressive matters:

- Industrial circulation system
- Washing/cleaning system
- Filtration system

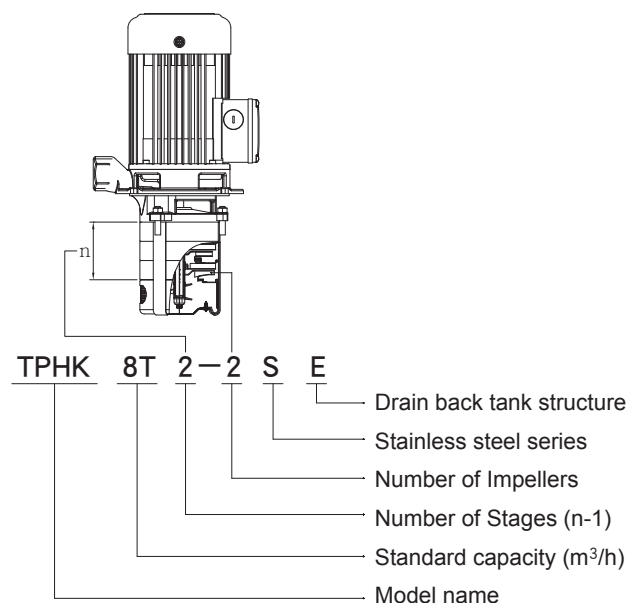
Operating conditions

Ambient temperature : Max. +40°C
Liquid temperature : +0°C ~ +90°C
Operating pressure : Max. 10kg/cm²
Submerged depth : Min. 40mm

Product feature

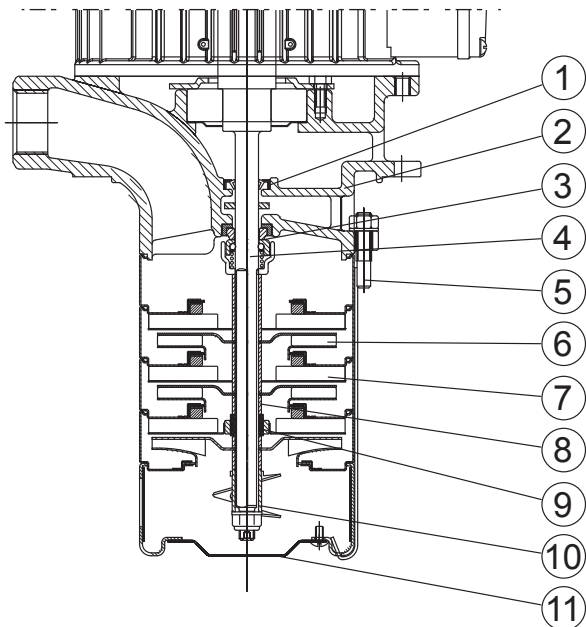
Immersible vertical multistage centrifugal pump, self-priming, co-axial pump/motor design, impellers mounted on extended motor shaft. Main working parts made by stainless steel. Enclosure protection class : IP54
Insulation class : F.

Standard Mode





Materials



NO	Part name	Material	
		Standard	S series
1	Oil seal	NBR	
2	Pump Casing	FC 20	SUS 304
3	Mechanical seal	MSSH / MGSH	
4	Shaft	SUS 304	
5	Strap	SUS 304	
6	Impeller	SUS 304	
7	Intermediate Chamber	SUS 304	
8	Sleeve	SUS 304	
9	Bearing	SiC	
10	Priming screw	SUS 304	
11	Suction intercon-necter	SUS 304	

SUS 304 may be replaced by SUS316 depended on stock availability.

Options on request

- Special mechanical seal

Mechanical seal type	Material	
	Stationary Face / Rotary Face	Cup Gasket / O Ring
HGSH HGSV HGSE	(G)Carbon (S)Silicium Carbide	(H)HNBR (V)Viton (E)EPDM
HSSH HSSV HSSE	(S)Silicium Carbide (S)Silicium Carbide	

TPHK(S)E

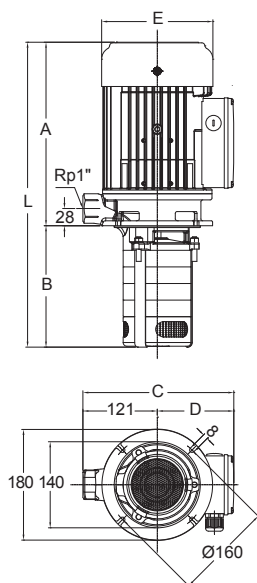
Electrical data, 50Hz

Model	PH (Ø)	Voltage code	Cycle (Hz)	Volts (V)	P2 (kW)	Amper I ¹ / ₁ (A)	Service Factor	Amper I _{max} (A)
TPHK8T2-2(S)E	3	A6V	50	200-230/342-415	1.1	5.2-5.4/3.1-3.4	1.1	5.5-5.7/3.3-3.5
TPHK8T3-3(S)E	3	A9V	50	200-230/342-380	2.2	9.5-10.5/5.5-5.6	1.1	10.2-10.9/5.9-5.9
TPHK8T4-4(S)E	3	A9V	50	200-230/342-380	2.2	9.5-10.5/5.5-5.6	1.1	10.2-10.9/5.9-5.9
TPHK8T5-5(S)E	3	A9V	50	200-230/342-380	3.0	12.2-13.1/7.1-7.1	1.1	13.4-14.0/7.9-7.8
TPHK8T6-6(S)E	3	A9V	50	200-230/342-380	3.4	13.4-13.0/7.8-7.4	1.1	14.6-13.9/8.5-8.0

Electrical data, 60Hz

Model	PH (Ø)	Voltage code	Cycle (Hz)	Volts (V)	P2 (kW)	Amper I ¹ / ₁ (A)	Service Factor	Amper I _{max} (A)
TPHK8T2-2(S)E	3	A6V	60	220-240/380-480	1.1	4.6-4.6/2.8-3.1	1.4	6.2-5.7/3.6-3.5
TPHK8T3-3(S)E	3	A9V	60	220-240/380-440	2.2	8.6-8.4/4.9-5.0	1.5	12.1-11.2/6.9-6.4
TPHK8T4-4(S)E	3	A9V	60	220-240/380-440	2.2	8.6-8.4/4.9-5.0	1.5	12.1-11.2/6.9-6.4
TPHK8T5-5(S)E	3	A9V	60	220-240/380-440	3.0	11.2-10.7/6.4-6.3	1.3	14.5-13.3/8.3-7.6
TPHK8T6-6(S)E	3	A9V	60	220-240/380-440	3.7	13.4-12.6/7.7-7.0	1.3	16.4-15.1/9.4-8.4

Dimensions (mm)

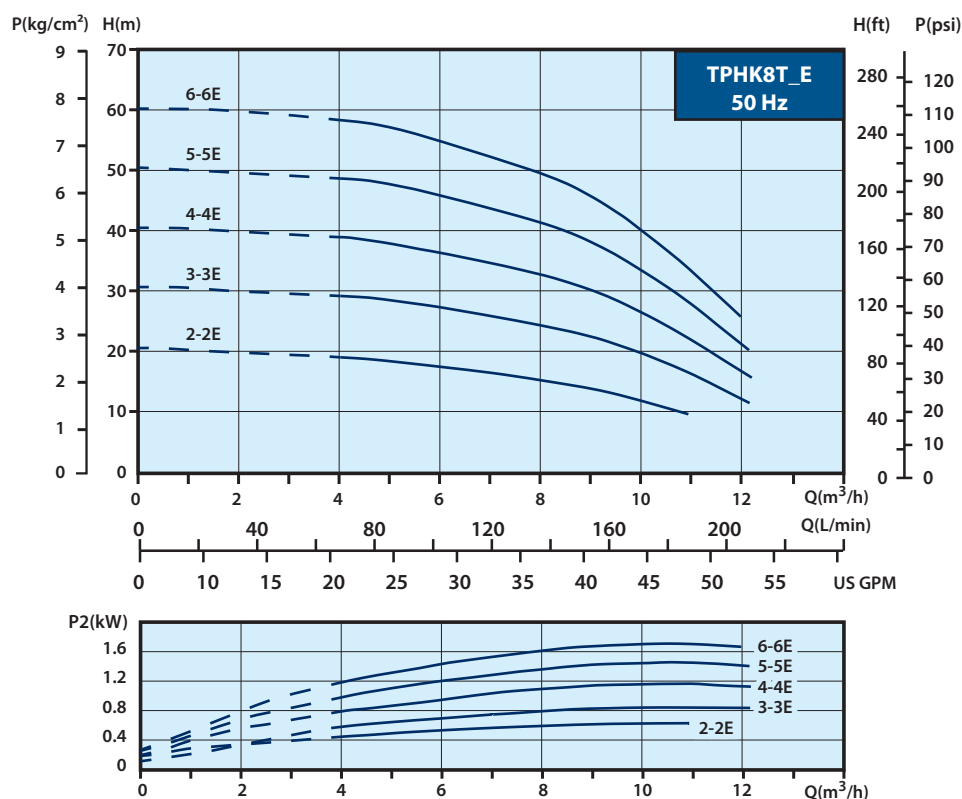


Model	Cycle (Hz)	Dimensions (mm)						N.W. (kg)
		L	A	B	C	D	E	
TPHK8T2-2(S)E	50 / 60	455	284	171	231	110	145	17
TPHK8T3-3(S)E	50 / 60	519	321	198	244	123	181	24
TPHK8T4-4(S)E	50 / 60	546	321	225	244	123	181	25
TPHK8T5-5(S)E	50 / 60	598	346	252	244	123	181	28
TPHK8T6-6(S)E	50 / 60	645	366	279	244	123	181	31

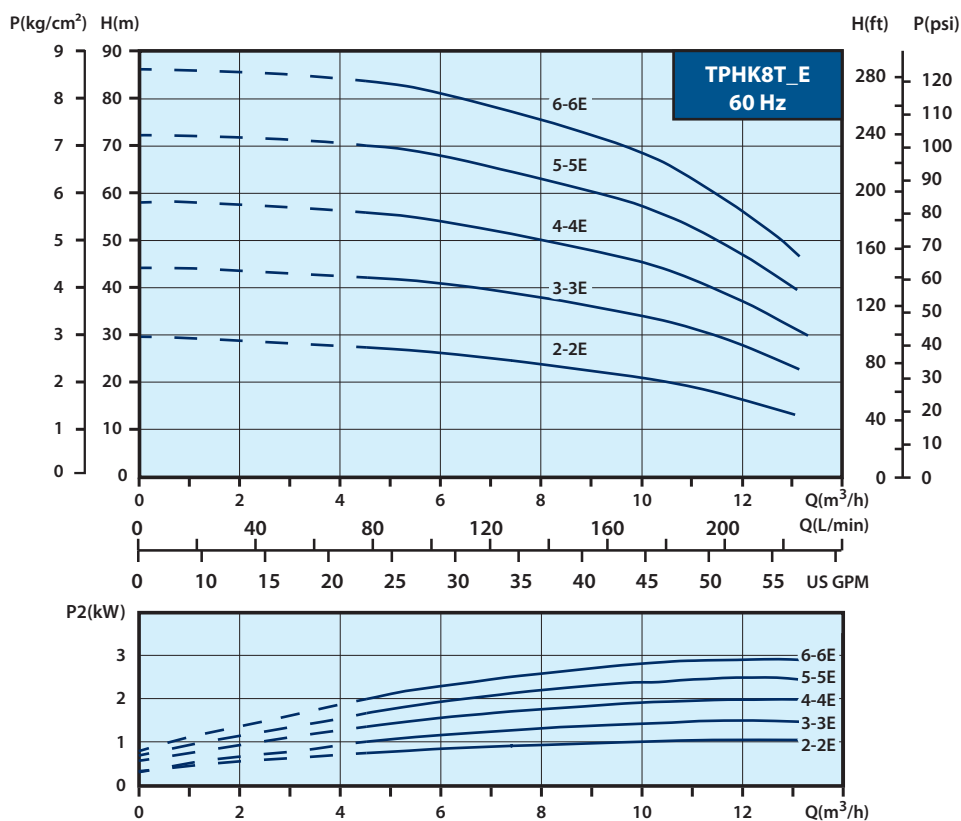


WALRUS TPHK(S)E Series

Performance curve (50Hz)



Performance curve (60Hz)





MEMO





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