



WALRUS
PUMP

TPHK Series

Immersible Pump

IE3 
Motor



**Better Life
Through Innovation**

Content

General Data	03
Performance Range	04
Sectional Drawing	05
Performance Curves/Technical Data	
TPHK 2T	06
TPHK 4T	08
TPHK 8T_E	10
TPHK 12T	12

TPHK Series Immersible Pump

50 Hz

Power: 0.37 - 3.4 kW

Head: Up to 65 M

Flow: Up to 280 L/min

Outlet: 3/4" - 1 1/4"

60 Hz

Power: 0.37 - 3.7 kW

Head: Up to 90 M

Flow: Up to 280 L/min

Outlet: 3/4" - 1 1/4"



Construction Industry



Agriculture & Fishing Industry



Manufacturing Industry



Electricity & New Energy Industry



Entertainment & Leisure Industry



Accommodation & Food Service Industry



Wholesale & Retail Industry



Water Supply & Pollution Control



Service Industry



Product Features

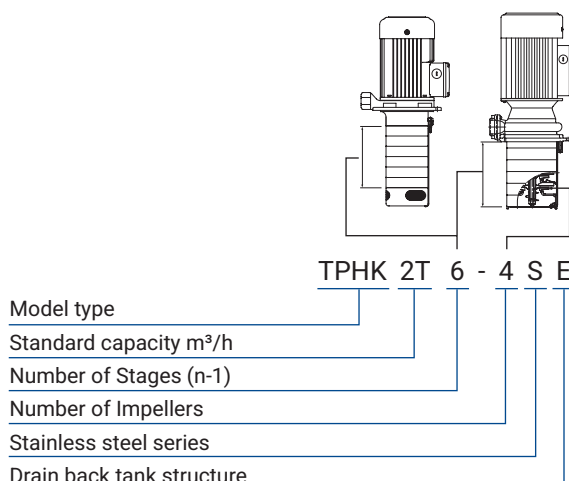
- Immersible vertical multistage centrifugal pump, self-priming, co-axial pump/motor design, impellers mounted on extended motor shaft. Main working parts made by stainless steel.

Applications

The TPHK Series is vertical multistage centrifugal pump, designed for industrial use, specially for machine tools. 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

Model Code



Operating Conditions

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

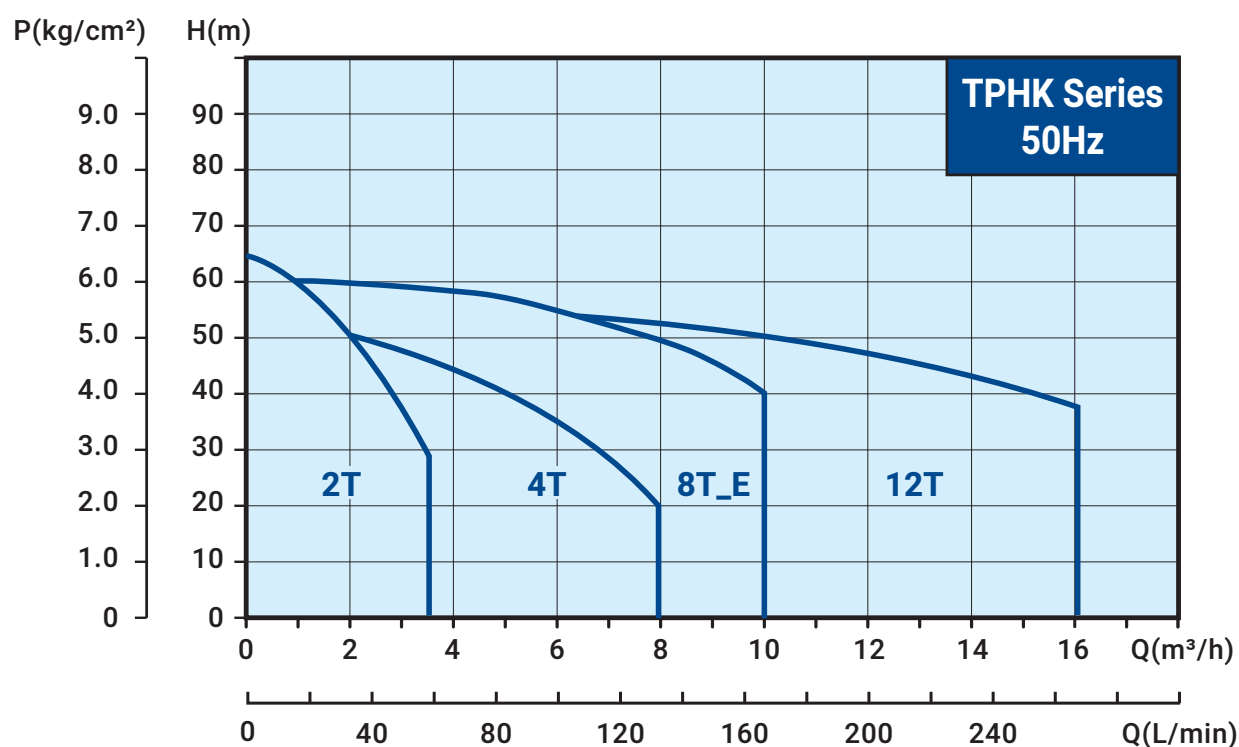
Motor

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

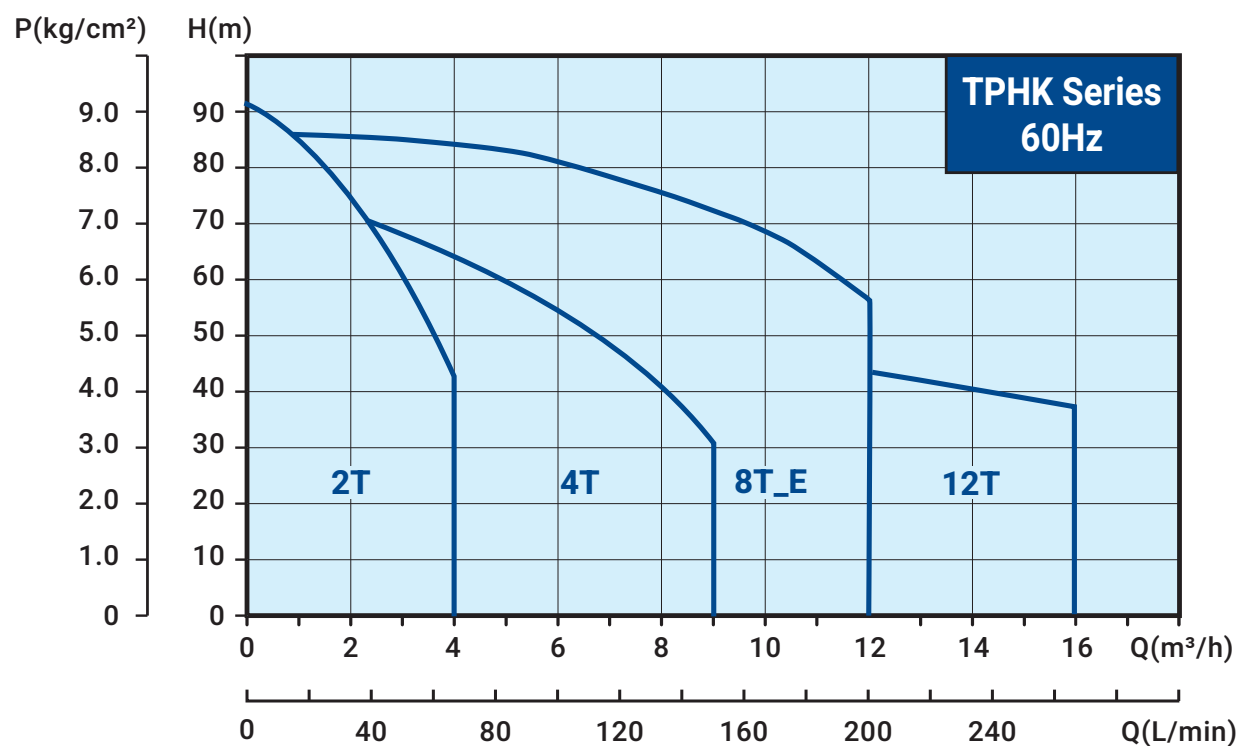
Code	PH	50Hz	60Hz
A6V*	3	200-230/342-415V	220-240/380-480V
A9V*	3	200-230/342-380V	220-240/380-440V
59V	3	200-230/342-380V	-

* The motor can be used in both 50/60Hz.

Performance Curve, 50Hz

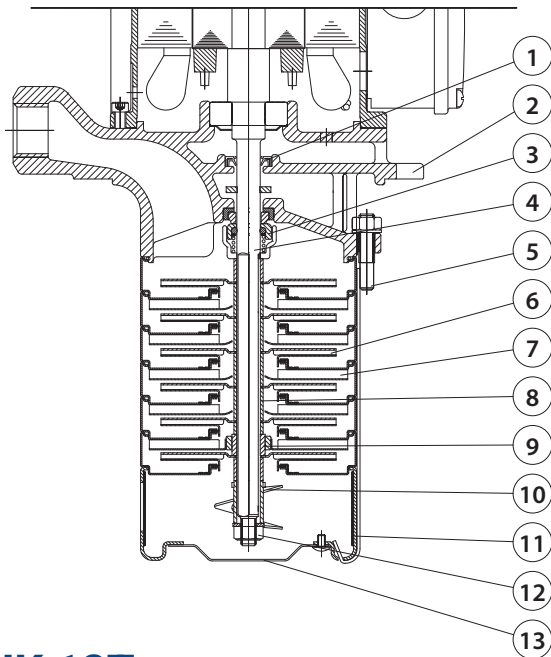


Performance Curve, 60Hz

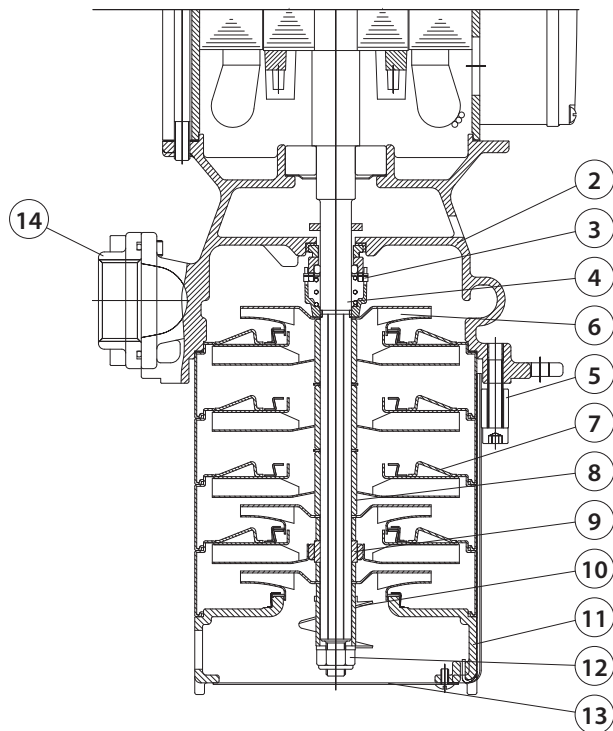


Sectional Drawing

TPHK 2T/4T/8T_E



TPHK 12T



Materials

NO.	Part Name	Material	
		Standard	S series
1	Oil Seal	NBR	
2	Pump Casing	FC 25	SUS 304
3	Mechanical Seal	MSSH(2T/4T/8T_E) HSSH(12T)	
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 interconnector	SUS 304	
12	Lock Nut	SUS 316	
13	Filter	SUS 304	
14	Flange	SUS 304	

SUS 304 may be replaced by SUS 316, depending on stock availability.

Options on Request

■ Special mechanical seal

(TPHK 2/4T/8T_E)

Mechanical seal type	Material	
	Stationary Face/ Rotary Face	Cup Gasket & O Ring
MGSH MGSV MGSE	(G)Carbon/ (S)Silicon carbide	(H) HNBR (V) Viton (E) EPDM
MSSH MSSV MSSE	(S)Silicon carbide/ (S)Silicon carbide	

(TPHK 12T)

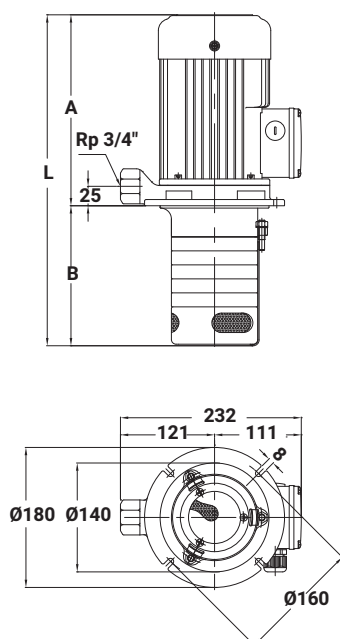
Mechanical seal type	Material	
	Stationary Face/ Rotary Face	Cup Gasket & O Ring
HGSH HGSV HGSE	(G)Carbon/ (S)Silicon carbide	(H) HNBR (V) Viton (E) EPDM
HSSH HSSV HSSE	(S)Silicon carbide/ (S)Silicon carbide	

Electrical Data, 50/60Hz

Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)
TPHK2T3-1	3	A3V	50 60	200-240/342-415V 200-255/342-480V	0.37	1.8-2.0/1.1-1.2 1.8-1.7/1.0-1.0	1.1 1.5	2.0-2.1/1.1-1.2 2.3-2.1/1.3-1.2
TPHK2T3-2	3	A3V	50 60	200-240/342-415V 200-255/342-480V	0.37	1.8-2.0/1.1-1.2 1.8-1.7/1.0-1.0	1.1 1.5	2.0-2.1/1.1-1.2 2.3-2.1/1.3-1.2
TPHK2T3-3	3	A3V	50 60	200-240/342-415V 200-255/342-480V	0.37	1.8-2.0/1.1-1.2 1.8-1.7/1.0-1.0	1.0 1.5	2.0-2.1/1.1-1.2 2.3-2.1/1.3-1.2
TPHK2T4-4	3	A6V	50 60	200-230/342-415V 220-240/380-480V	0.55	2.5-2.4/1.5-1.4 2.3-2.2/1.3-1.3	1.1 1.5	2.7-2.6/1.6-1.5 3.2-3.0/1.9-1.6
TPHK2T5-5	3	A6V	50 60	200-230/342-415V 220-240/380-480V	0.75	3.5-3.6/2.0-2.2 3.1-3.1/1.8-1.9	1.1 1.4	3.8-3.8/2.2-2.3 4.1-3.9/2.3-2.3
TPHK2T6-6	3	A6V	50 60	200-230/342-415V 220-240/380-480V	0.75	3.5-3.6/2.0-2.2 3.1-3.1/1.8-1.9	1.1 1.4	3.8-3.8/2.2-2.3 4.1-3.9/2.3-2.3
TPHK2T7-7	3	A6V	50 60	200-230/342-415V 220-240/380-480V	1.1	5.2-5.4/3.1-3.4 4.6-4.6/2.8-3.1	1.1 1.4	5.5-5.7/3.3-3.5 6.2-5.7/3.6-3.5

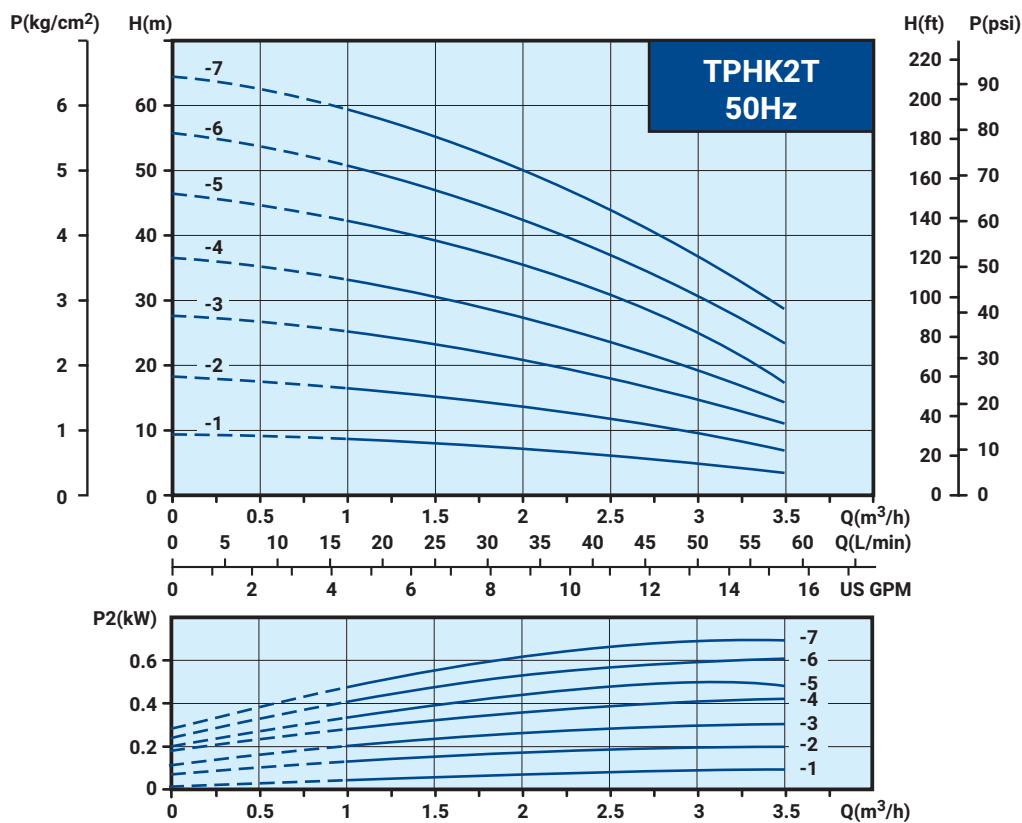
Maximum 11 Stages

Dimensions

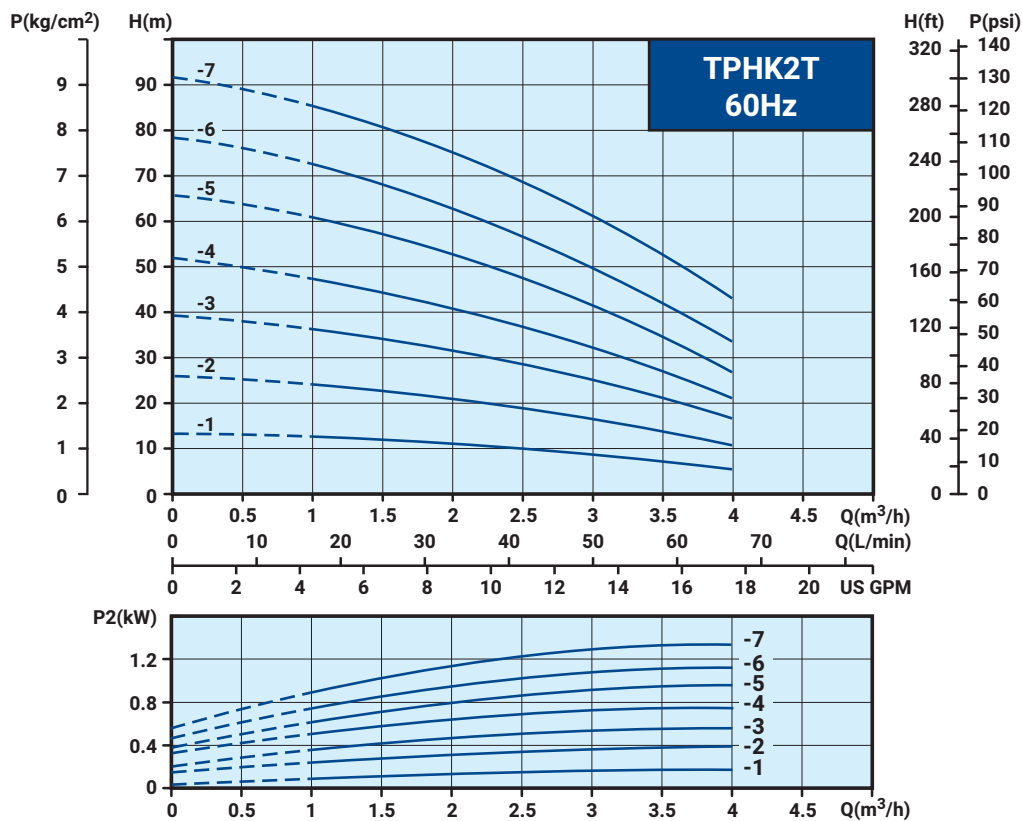


Model	A mm	B mm	L mm	N.W. kg	
TPHK2T3-1**	185.5	144	329.5	9.7	36
TPHK2T8-1**	185.5	234	419.5	10.4	30
TPHK2T3-2**	185.5	144	329.5	9.7	36
TPHK2T5-2**	185.5	180	365.5	10.0	30
TPHK2T9-2**	185.5	252	437.5	10.5	24
TPHK2T3-3**	185.5	144	329.5	9.7	36
TPHK2T4-3**	185.5	162	347.5	9.9	36
TPHK2T5-3**	185.5	180	365.5	10.1	30
TPHK2T6-3**	185.5	198	383.5	10.2	30
TPHK2T8-3**	185.5	234	419.5	10.5	24
TPHK2T11-3**	185.5	288	473.5	10.9	24
TPHK2T4-4**	245.5	162	407.5	12.2	30
TPHK2T6-4**	245.5	198	443.5	12.5	30
TPHK2T5-5	253.5	180	433.5	13.2	30
TPHK2T6-5	253.5	198	451.5	13.3	24
TPHK2T6-6	253.5	198	451.5	13.5	24
TPHK2T8-6	253.5	234	487.5	13.8	24
TPHK2T9-6	253.5	252	505.5	13.9	24
TPHK2T10-6	253.5	270	523.5	14.1	24
TPHK2T11-6	253.5	288	541.5	14.2	24
TPHK2T7-7	284	216	500	16.5	24

Performance Curve, 50Hz



Performance Curve, 60Hz

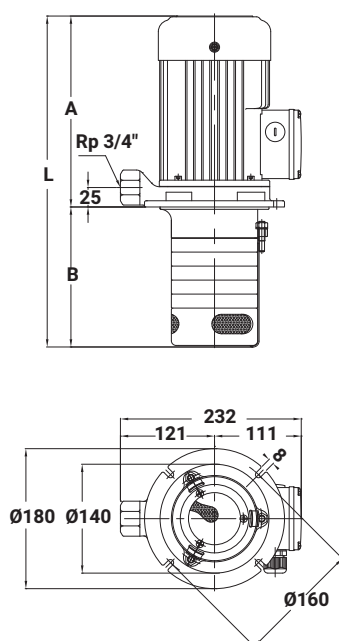


Electrical Data, 50/60Hz

Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)
TPHK4T2-1	3	A3V	50 60	200-240/342-415V 200-255/342-480V	0.37	1.8-2.0/1.1-1.2 1.8-1.7/1.0-1.0	1.1 1.5	2.0-2.1/1.1-1.2 2.3-2.1/1.3-1.2
TPHK4T2-2	3	A6V	50 60	200-230/342-415V 220-240/380-480V	0.55	2.5-2.4/1.5-1.4 2.3-2.2/1.3-1.3	1.1 1.5	2.7-2.6/1.6-1.5 3.2-3.0/1.9-1.6
TPHK4T3-3	3	A6V	50 60	200-230/342-415V 220-240/380-480V	0.75	3.5-3.6/2.0-2.2 3.1-3.1/1.8-1.9	1.1 1.4	3.8-3.8/2.2-2.3 4.1-3.9/2.3-2.3
TPHK4T4-4	3	A6V	50 60	200-230/342-415V 220-240/380-480V	1.1	5.2-5.4/3.1-3.4 4.6-4.6/2.8-3.1	1.1 1.4	5.5-5.7/3.3-3.5 6.2-5.7/3.6-3.5
TPHK4T5-5	3	A6V	50 60	200-230/342-415V 220-240/380-480V	1.5	6.7-6.7/3.8-4.0 6.0-5.9/3.5-3.6	1.1 1.4	7.3-7.1/4.1-4.2 8.1-7.6/4.7-4.2
TPHK4T6-6	3	A6V	50 60	200-230/342-415V 220-240/380-480V	1.5	6.7-6.7/3.8-4.0 6.0-5.9/3.5-3.6	1.1 1.4	7.3-7.1/4.1-4.2 8.1-7.6/4.7-4.2

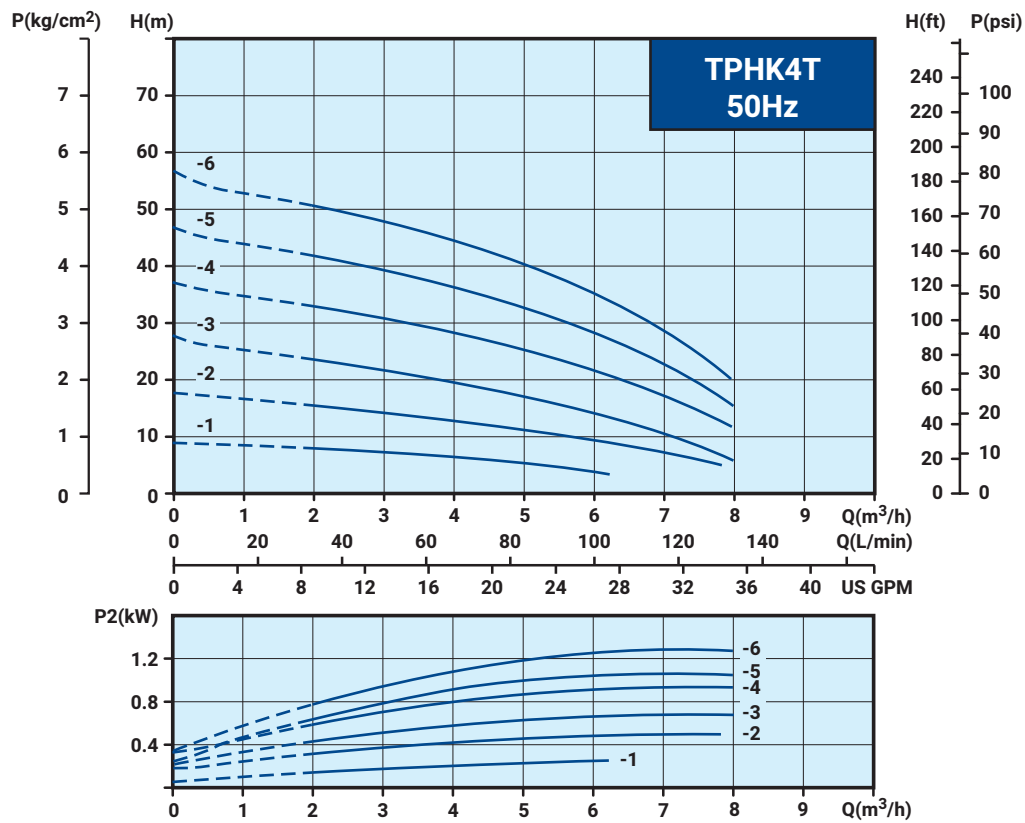
Maximum 8 Stages

Dimensions

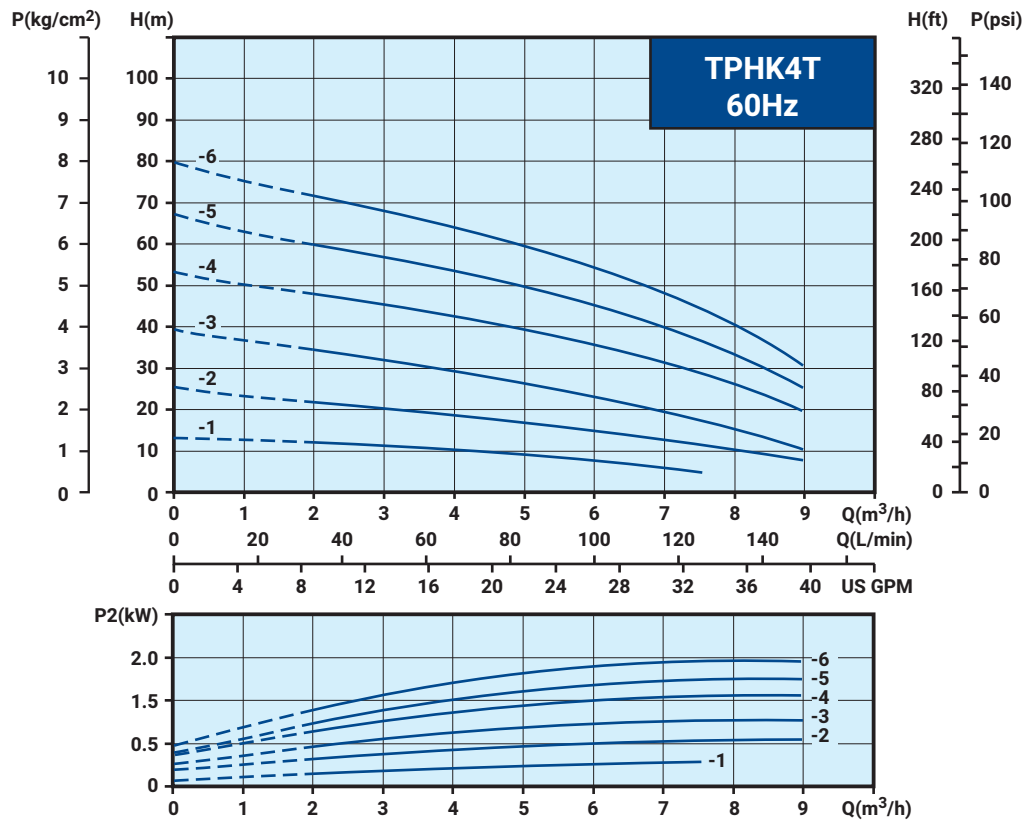


Model	A mm	B mm	L mm	N.W. kg	
TPHK4T2-1	185.5	144	329.5	9.9	36
TPHK4T3-1	185.5	171	376.5	10.0	30
TPHK4T2-2	245.5	144	389.5	12.2	30
TPHK4T3-2	245.5	171	416.5	12.4	30
TPHK4T4-2	245.5	198	443.5	12.5	24
TPHK4T6-2	245.5	252	497.5	12.9	24
TPHK4T3-3	245.5	171	416.5	13.2	30
TPHK4T4-3	245.5	198	443.5	13.4	24
TPHK4T5-3	245.5	225	470.5	13.5	24
TPHK4T6-3	245.5	252	497.5	13.7	24
TPHK4T8-3	245.5	306	551.5	14.0	24
TPHK4T4-4	284	198	482	16.2	24
TPHK4T5-4	284	225	509	16.4	24
TPHK4T6-4	284	252	536	16.5	24
TPHK4T5-5	309	225	534	18.4	24
TPHK4T8-5	309	306	615	18.9	15
TPHK4T6-6	309	252	561	18.7	15
TPHK4T8-6	309	306	615	19.1	15

Performance Curve, 50Hz



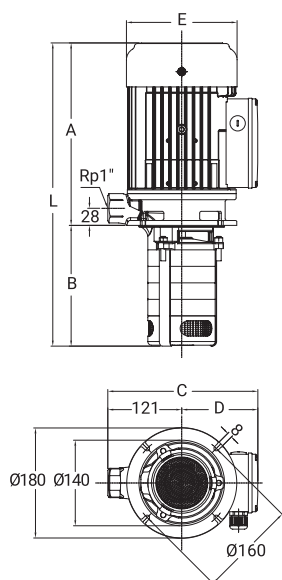
Performance Curve, 60Hz



Electrical Data, 50/60Hz

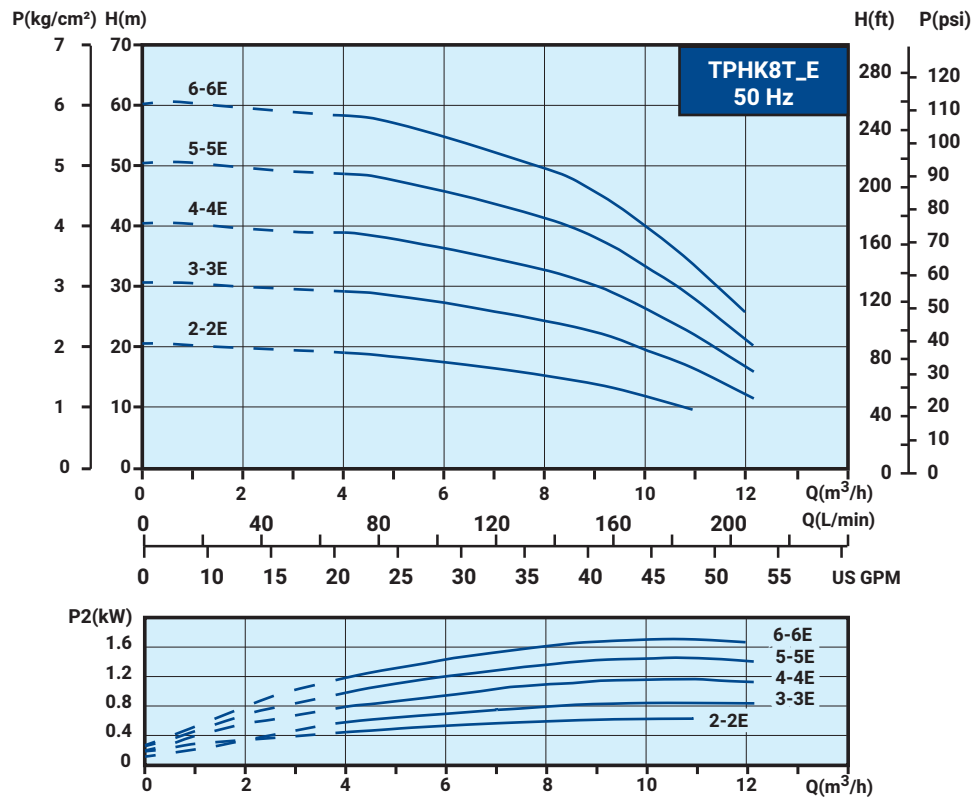
Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)
TPHK8T2-2(S)E	3	A6V	50 60	200-230/342-415 220-240/380-480	1.1 1.1	5.2-5.4/3.1-3.4 4.6-4.6/2.8-3.1	1.1 1.4	5.5-5.7/3.3-3.5 6.2-5.7/3.6-3.5
TPHK8T3-3(S)E	3	A9V	50 60	200-230/342-380 220-240/380-440	2.2 2.2	9.5-10.5/5.5-5.6 8.6-8.4/4.9-5.0	1.1 1.5	10.2-10.9/5.9-5.9 12.1-11.2/6.9-6.4
TPHK8T4-4(S)E	3	A9V	50 60	200-230/342-380 220-240/380-440	2.2 2.2	9.5-10.5/5.5-5.6 8.6-8.4/4.9-5.0	1.1 1.5	10.2-10.9/5.9-5.9 12.1-11.2/6.9-6.4
TPHK8T5-5(S)E	3	A9V	50 60	200-230/342-380 220-240/380-440	3.0 3.0	12.2-13.1/7.1-7.1 11.2-10.7/6.4-6.3	1.1 1.3	13.4-14.0/7.9-7.8 14.5-13.3/8.3-7.6
TPHK8T6-6(S)E	3	A9V	50 60	200-230/342-380 220-240/380-440	3.4 3.7	13.4-13.0/7.8-7.4 13.4-12.6/7.7-7.0	1.1 1.3	14.6-13.9/8.5-8.0 16.4-15.1/9.4-8.4

Dimensions

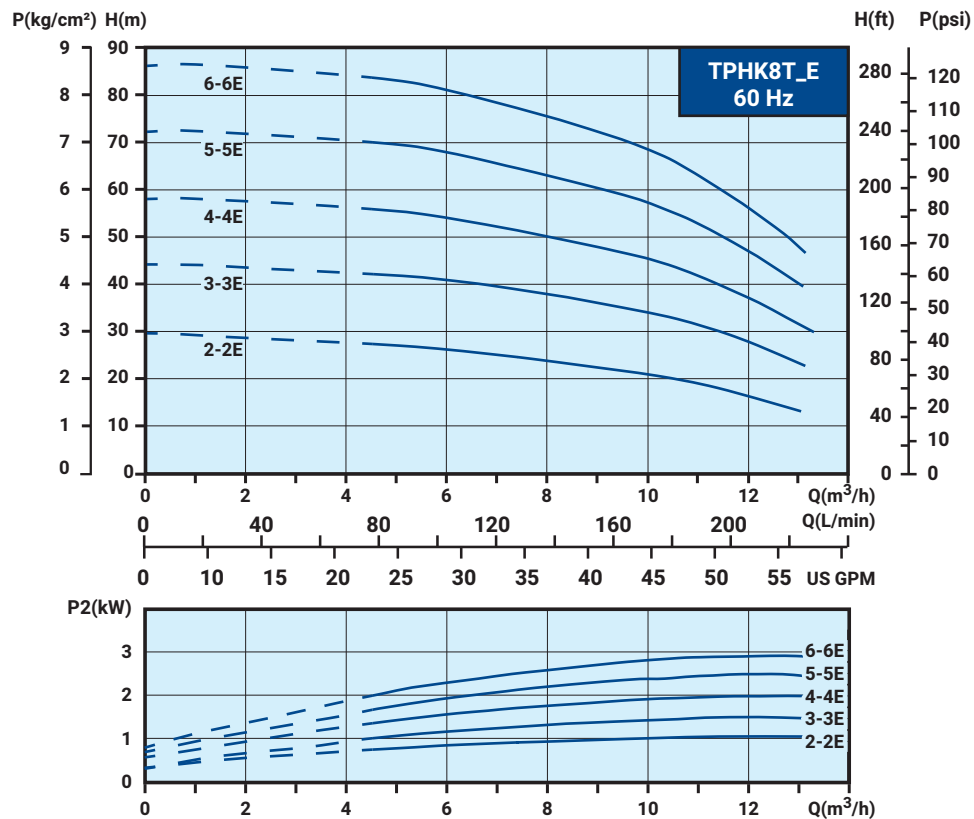


Model	Cycle Hz	L mm	A mm	B mm	C mm	D mm	E mm	N.W. kg	
TPHK8T2-2(S)E	50/60	455	284	171	232	111	145	17	24
TPHK8T3-3(S)E	50/60	519	321	198	244	124	181	24	24
TPHK8T4-4(S)E	50/60	546	321	225	244	124	181	25	24
TPHK8T5-5(S)E	50/60	598	346	252	244	124	181	28	15
TPHK8T6-6(S)E	50/60	645	366	279	244	124	181	31	15

Performance Curve, 50Hz



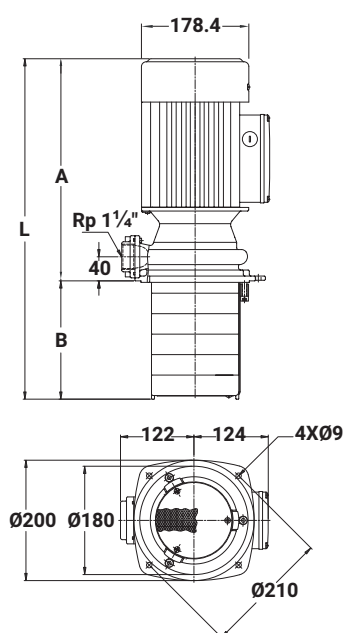
Performance Curve, 60Hz



Electrical Data, 50/60Hz

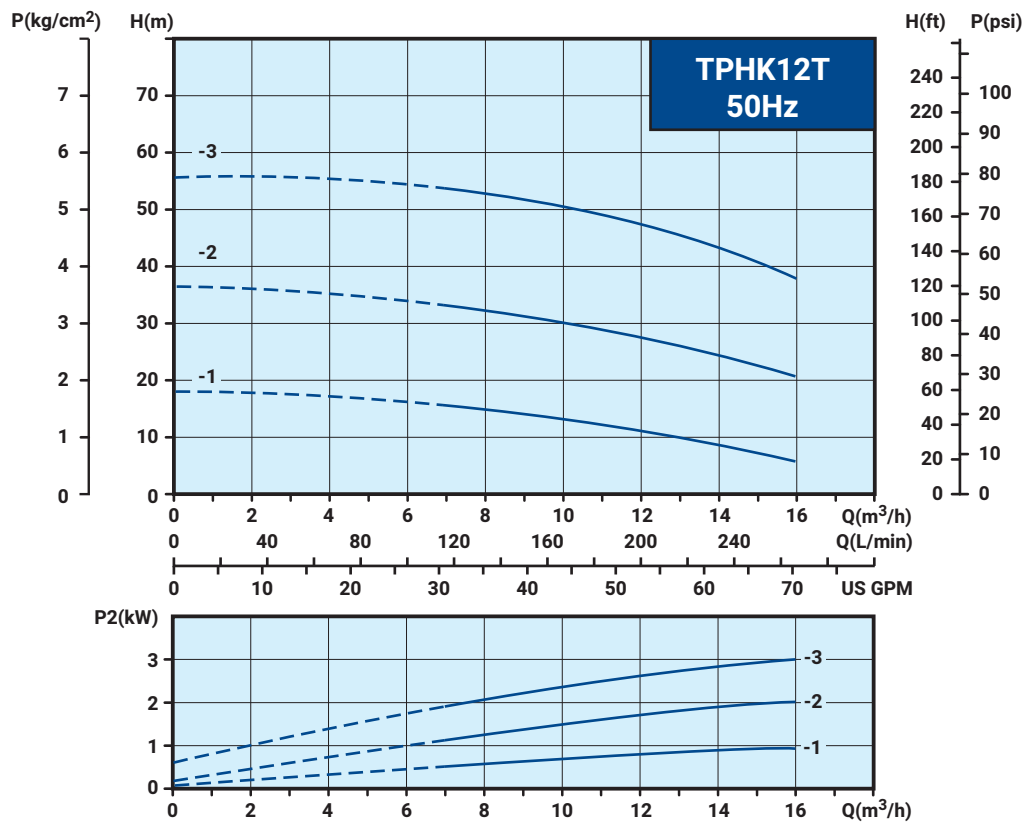
Model	PH Ø	Voltage code	Cycle Hz	Volts V	Output kW	Ampere I _{1/1} (A)	Service Factor	Ampere I _{max} (A)
TPHK12T6-1	3	A9V	50 60	200-230/342-380V 220-240/380-440V	1.5	6.3-6.1/3.6-3.5 5.8-5.5/3.4-3.1	1.1 1.5	6.8-6.5/3.9-3.7 8.3-7.6/4.8-4.2
TPHK12T6-2	3	A9V	50 60	200-230/342-380V 220-240/380-440V	3.4 3.7	13.4-13.0/7.8-7.4 13.4-12.6/7.7-7.0	1.1 1.25	14.6-13.9/8.5-8.0 16.4-15.1/9.4-8.4
TPHK12T6-3	3	59V	50	200-230/342-380V	3.4	13.4-13.0/7.8-7.4	1.1	14.6-13.9/8.5-8.0

Dimensions

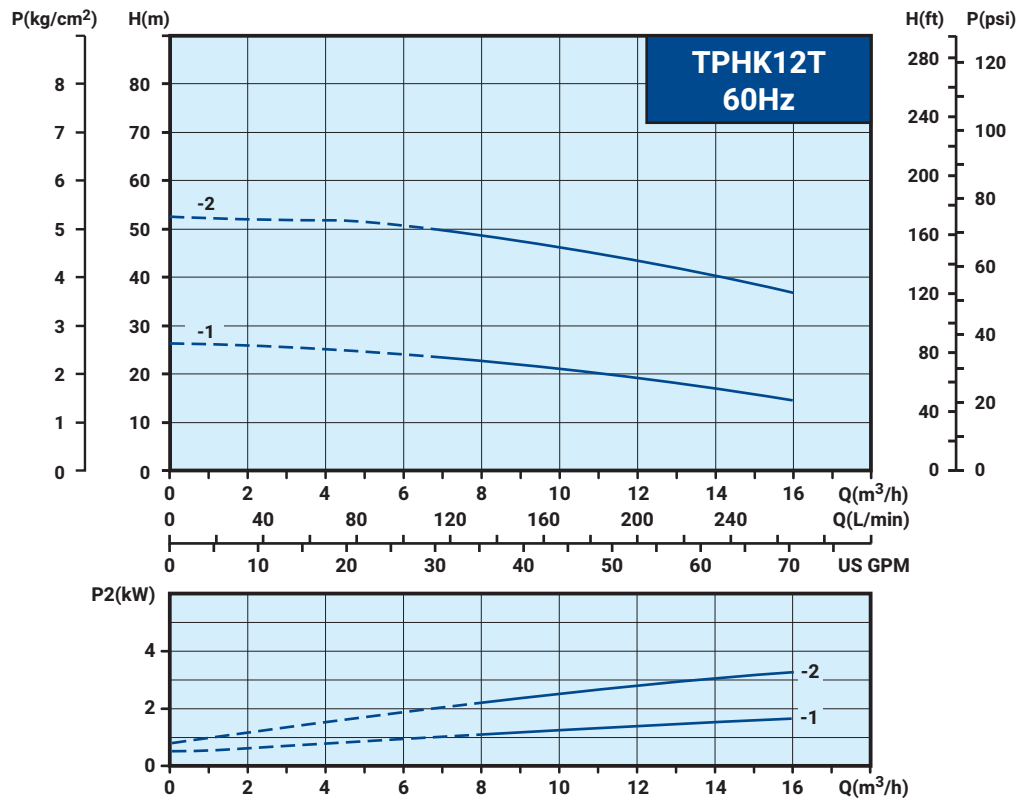


Model	A mm	B mm	L mm	N.W. kg	
TPHK12T6-1	369	196.5	565.5	28.5	15
TPHK12T6-2	436	196.5	632.5	36.9	15
TPHK12T9-2	436	298.5	734.5	37.4	15
TPHK12T6-3	436	196.5	632.5	36.3	15
TPHK12T9-3	436	298.5	734.5	37.7	15

Performance Curve, 50Hz



Performance Curve, 60Hz



Memo

Memo





WALRUS
PUMP

WALRUS PUMP CO., LTD.

Head office: No.83-14, Dapiantou, Sanzhi Dist.,

New Taipei City 252, Taiwan

Tel: (+886) 2 2636-1123~7

Fax: (+886) 2 2636-4660

Email : walrus.sales@walrus.com.tw



All specifications are subject to change without notice. TPHK-IE3-EN001c-202501

