

VERTICAL MULTI-STAGE HIGH PRESSURE CENTRIFUGAL PUMP

FP-TPHK Series





TOP PHOENIX INTERNATIONAL CORP. Machinery Exporter & Importer No. 48-3, Wayao Rd., Dali Dist., Taichung City 412, Taiwan E-Mail: sales@topphoenix.com.tw; topphoenix24@gmail.com; top.phoenix@msa.hinet.net http: //www.topphoenix.com.tw Tel: 886-4-2406-5028 (Rep.) Fax:886-4-2406-5019

FP-TPHK Series Immersible Pump



50Hz

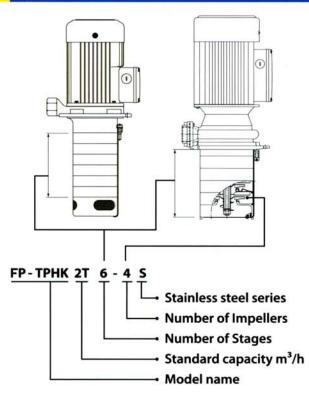
Power: 0.34 - 3.8 kW Head: Up to 65M Flow: Up to 280 L/min 60Hz Power: 0.37 - 4.15 kW Head: Up to 90M Flow: Up to 280 L/min Outlet: ³/₄" -1¹/₄"

Applications

The FP-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 1. Ambient temperature : Max. +40°C

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

Pump Construction

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.

Motor

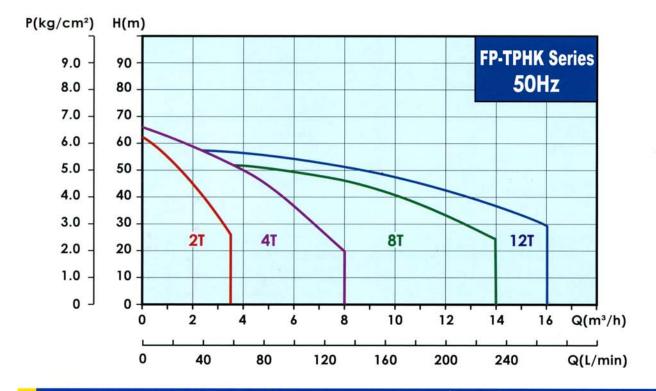
Enclosure class : IP54 Insulation class : F. Nominal speed : 2900 / 3500 rpm Frequency range : 50 / 60 Hz Voltages Code :

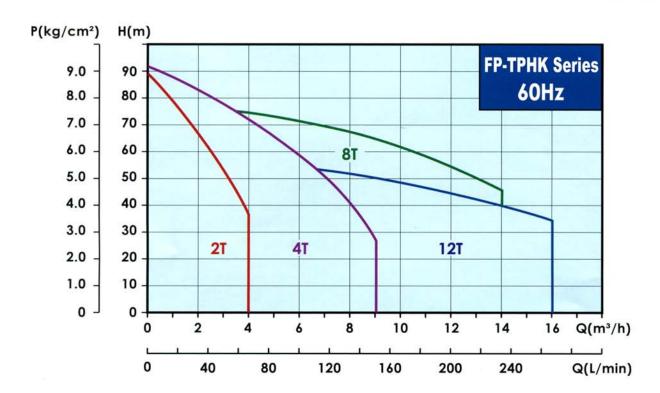
Code	PH	50Hz	60Hz
53Q	3	200-240/380-440V	-
A3Z*	3	200-255/380-440V	200-255/380-480V
A3U*	3	200-240/380-415V	200-240/380-440V

* The motor can be use in both 50/60 hz.

FP-TPHK Series Immersible Pump

Performance curve (50Hz)

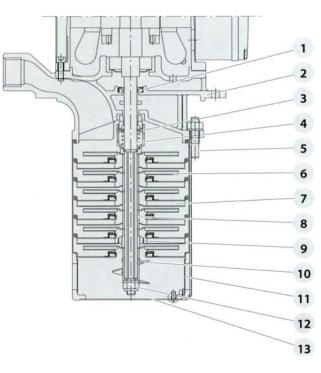




FP-TPHK Series

Sectional drawing

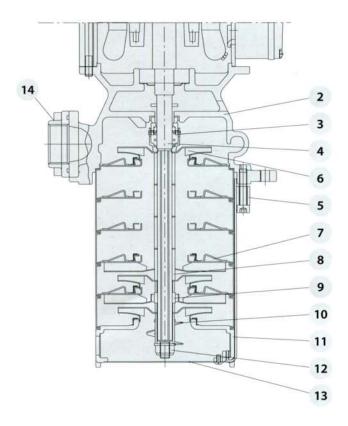




Materials

		Mate	erial
NO.	Part name	Standard	S series
1	Oil Seal	NE	BR
2	Pump Casing	FCD 45	SUS 304
3	Mechanical Seal	HSSH	HGSH
4	Shaft	SUS	304
5	Strap	SUS	304
6	Impeller	SUS	304
7	Intermediate chamber	SUS	304
8	Sleeve	SUS	304
9	Bearing	Si	iC
10	Priming screw	SUS	304
11	Suction intercon-nector	SUS	304
12	Lock Nut	SUS	316
13	Filter	SUS	304
14	Flange	SUS	304

FP-TPHK 8T/12T



Options on request

- Special mechanical seal

1. Sec. 1.	Material				
Mechanical seal type	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				

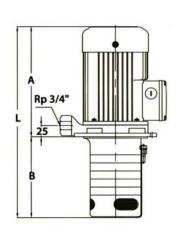
FP-TPHK 2T

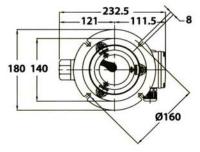
Electrical data

Standard Model	Phase (Ø)	Voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Ampere (A)
	2	427	50	200-255 / 380-440	340	1.6-2.8 / 1.0-1.5
FP - TPHK 2T 3 - 1	3	A3Z	60	200-255 / 380-480	370	1.5-1.9 / 1.0-1.3
FP-TPHK 2T 3 - 2		4.77	50	200-255 / 380-440	450	1.9-2.8 / 1.2-1.5
	3	A3Z	60	200-255 / 380-480	560	2.1-2.2 / 1.5-1.5
FP - TPHK 2T 3 - 3	3	A3Z	50	200-255 / 380-440	530	2.0-2.8 / 1.3-1.6
			60	200-255 / 380-480	750	2.6-2.5 / 1.6-1.6
	3	A3Z	50	200-255 / 380-440	620	2.2-2.9 / 1.4-1.7
FP - TPHK 2T 4 - 4			60	200-255 / 380-480	910	3.0-2.9 / 1.7-1.7
	_	4.5.7	50	200-255 / 380-440	700	2.4-3.0 / 1.4-1.6
FP - TPHK 2T 5 - 5	3	A3Z	60	200-255 / 380-480	1060	3.3-3.0 / 1.8-1.8
TO TOUMAT & C		4.7.7	50	200-255 / 380-440	850	3.1-3.6 / 1.8-2.1
FP-TPHK 2T 6-6	3	A3Z	60	200-255 / 380-480	1290	4.0-3.6 / 2.4-2.4
FP - TPHK 2T 7 - 7	-	4.211	50	200-240 / 380-415	1320	4.6-6.7 / 2.9-3.7
	3	A3U	60	200-240 / 380-440	1800	5.6-5.4 / 3.2-3.2

Maximum 11 Stages

Dimensions (mm)

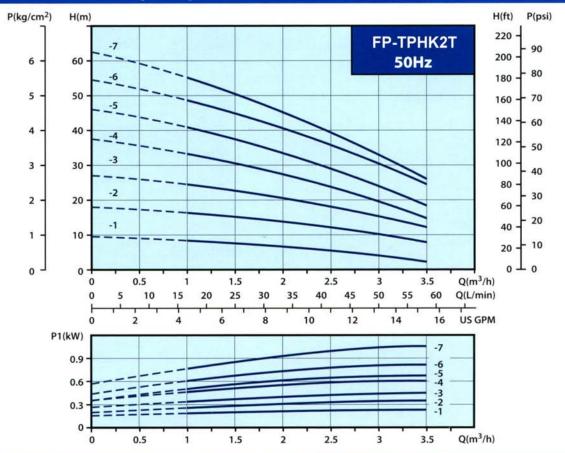


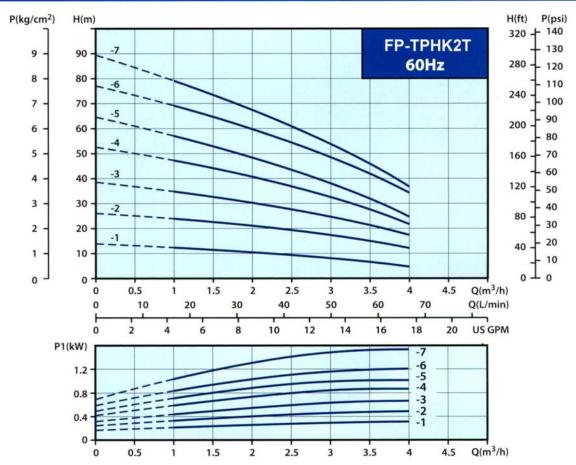


Model	A (mm)	B (mm)	L (mm)	N.W.(kg)	
FP-TPHK 2T 3-1	205.5	144	349.5	10.9	30
FP-TPHK 2T 8 -1	205.5	234	439.5	11.9	30
FP-TPHK 2T 3 -2	205.5	144	349.5	11.1	30
FP-TPHK 2T 5 -2	205.5	180	385.5	11.5	30
FP-TPHK 2T 9 -2	205.5	252	457.5	12.3	30
FP-TPHK 2T 3-3	205.5	144	349.5	11.2	30
FP-TPHK 2T 4 -3	205.5	162	367.5	11.4	30
FP-TPHK 2T 5-3	205.5	180	385.5	11.6	30
FP-TPHK 2T 6 -3	205.5	198	403.5	11.8	30
FP-TPHK 2T 8 -3	205.5	234	439.5	12.2	30
FP-TPHK 2T11-3	205.5	288	493.5	12.6	24
FP-TPHK 2T 4 -4	205.5	162	367.5	11.5	30
FP-TPHK 2T 6 -4	205.5	198	403.5	11.9	30
FP-TPHK 2T 5-5	245.5	180	425.5	12.7	30
FP-TPHK 2T 6 -5	245.5	198	443.5	13.3	30
FP-TPHK 2T 6 -6	253.5	198	451.5	13.5	30
FP-TPHK 2T 8 -6	253.5	234	487.5	13.9	30
FP-TPHK 2T 9 -6	253.5	252	505.5	14.1	24
FP-TPHK 2T10-6	253.5	270	523.5	14.2	24
FP-TPHK 2T11-6	253.5	288	541.5	14.4	24
FP-TPHK 2T 7 -7	253.5	216	469.5	13.0	30

FP-TPHK 2T

Performance curve (50Hz)





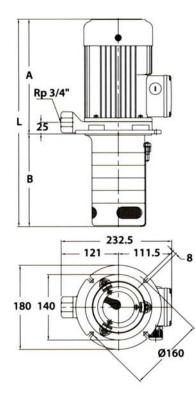
FP-TPHK 4T

Electrical data

Standard Model	Phase (Ø)	Voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Ampere (A)
	-	4.27	50	200-255 / 380-440	570	1.9-2.8 / 1.2-1.7
FP-TPHK 4T 2 - 1	3	A3Z	60	200-255 / 380-480	600	2.3-2.3 / 1.4-1.4
FP-TPHK 4T 2 - 2		4.27	50	200-255 / 380-440	650	2.2-2.9 / 1.4-1.7
	3	A3Z	60	200-255 / 380-480	960	3.0-2.7 / 1.7-1.7
FP-TPHK 4T 3 - 3	3	A3Z	50	200-255 / 380-440	850	3.1-3.6 / 1.8-2.1
			60	200-255 / 380-480	1290	4.0-3.6 / 2.4-2.4
	3	A3U	50	200-240 / 380-415	1080	3.4-3.5 / 2.0-2.0
FP-TPHK 4T 4 - 4			60	200-240 / 380-440	1620	4.5-5.0 / 2.9-2.9
	-	A3U	50	200-240 / 380-415	1440	4.9-6.8 / 3.0-3.8
FP-TPHK 4T 5 - 5	3		60	200-240 / 380-440	2100	6.2-6.0 / 3.5-3.5
		4.711	50	200-240 / 380-415	1740	6.3-9.9 / 4.2-5.5
FP-TPHK 4T 6-6	3	A3U	60	200-240 / 380-440	2400	7.7-7.6 / 4.5-4.5
	-	A-11	50	200-240 / 380-415	2140	6.9-10.3 / 4.5-5.8
FP-TPHK 4T 7 - 7	3	A3U	60	200-240 / 380-440	2800	8.7-8.4 / 4.9-4.9

Maximum 8 Stages

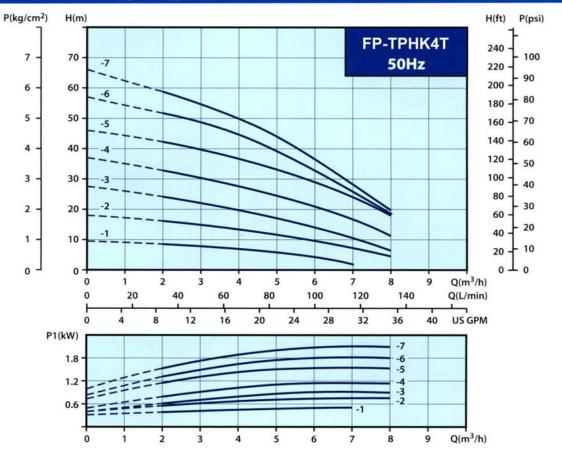
Dimensions (mm)

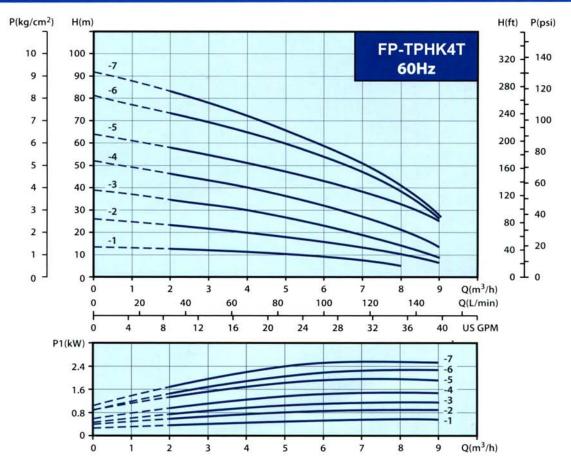


Model	A (mm) 50Hz / 60Hz	B (mm)	L (mm) 50Hz / 60Hz	N.W.(kg)	
FP-TPHK 4T 2 -1	205.5	144	349.5	10.8	30
FP-TPHK 4T 3 -1	205.5	171	376.5	11.0	30
FP-TPHK 4T 2 -2	205.5	144	349.5	11.0	30
FP-TPHK 4T 3 -2	205.5	171	376.5	11.2	30
FP-TPHK 4T 4 -2	205.5	198	403.5	11.4	30
FP-TPHK 4T 6 -2	205.5	252	457.5	11.6	24
FP-TPHK 4T 3 -3	245.5	171	416.5	11.7	30
FP-TPHK 4T 4 -3	245.5	198	443.5	11.9	30
FP-TPHK 4T 5 -3	245.5	225	470.5	12.1	30
FP-TPHK 4T 6 -3	245.5	252	497.5	12.3	24
FP-TPHK 4T 8 -3	245.5	306	551.5	12.7	24
FP-TPHK 4T 4 -4	245.5	198	443.5	13.3	30
FP-TPHK 4T 5 -4	245.5	225	470.5	13.5	30
FP-TPHK 4T 6 -4	245.5	252	497.5	13.7	24
FP-TPHK 4T 5 -5	253.5	225	478.5	13.9	30
FP-TPHK 4T 8 -5	253.5	306	559.5	14.5	24
FP-TPHK 4T 6 -6	253.5/284	252	505.5 / 536	14.1	24
FP-TPHK 4T 8 -6	253.5/284	306	559.5 / 590	14.6	24
FP-TPHK 4T 7 -7	284	279	563	14.6	24
FP-TPHK 4T 8 -7	284	306	590	14.8	24

FP-TPHK 4⊤

Performance curve (50Hz)





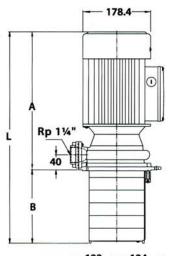
FP-TPHK 8T

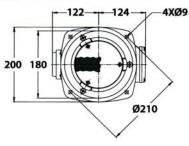
Electrical data

Standard Model	Phase (Ø)	Voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Ampere (A)
FP - TPHK 8T 6 - 2	-	A3Z	50	200-255 / 380-440	1200	3.7-6.0 / 2.3-3.2
	3		60	200-255 / 380-480	1650	5.1-4.7 / 2.8-2.9
FP - TPHK 8T 3 - 3	3	A3Z	50	200-255 / 380-440	1550	4.9-6.3 / 2.9-3.6
			60	200-255 / 380-480	2350	7.1-6.4 / 4.0-3.7
	3	A3U	50	200-240 / 380-415	2200	7.6-13.2 / 5.7-8.0
FP - TPHK 8T 4 - 4			60	200-240 / 380-440	3000	9.3-9.6 / 5.3-5.7
FP - TPHK 8T 5 - 5		A3U	50	200-240 / 380-415	2600	8.5-13.5 / 5.7-7.9
	3		60	200-240 / 380-440	3900	11.4-12.3 / 6.3-6.5

Maximum 9 Stages

Dimensions (mm)

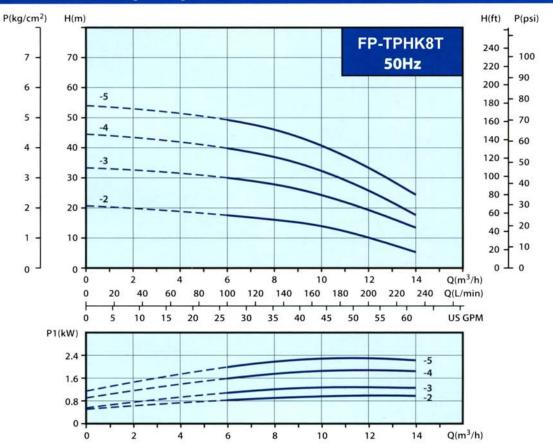


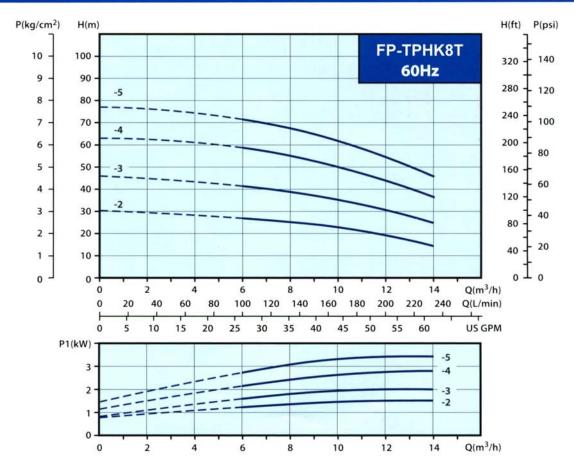


Model	A (mm)	B (mm)	L (mm)	N.W.(kg)	
FP-TPHK 8T 6 -2	369	196.5	565.5	24.0	15
FP-TPHK 8T 9 -2	369	298.5	667.5	25.3	15
FP-TPHK 8T 3 -3	369	94.5	463.5	23.0	15
FP-TPHK 8T 6 -3	369	196.5	565.5	24.3	15
FP-TPHK 8T 9 -3	369	298.5	667.5	25.6	15
FP-TPHK 8T 4 -4	369	128.5	497.5	27.0	15
FP-TPHK 8T 6 -4	369	196.5	565.5	28.0	15
FP-TPHK 8T 5 -5	369	162.5	531.5	28.0	15

FP-TPHK 8T

Performance curve (50Hz)





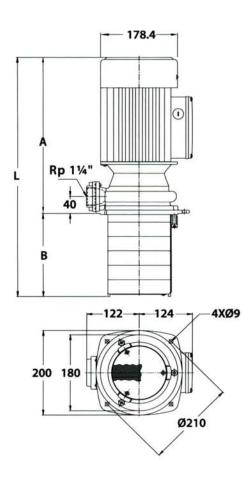
FP-TPHK 12T

Electrical data

Standard Model	Phase (Ø)	Voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Ampere (A)
FP - TPHK 12T 6 - 1	3	A3Z	50	200-255 / 380-440	1400	4.5-6.3 / 2.7-3.4
			60	200-255 / 380-480	2000	6.6-5.8 / 3.6-2.9
FP-TPHK 12T 6-2 3		A3U	50	200-240 / 380-415	3120	9.6-13.9 / 6.4-8.4
	3		60	200-240 / 380-440	4150	12.8-12.4 / 7.1-7.4
FP - TPHK 12T 6 - 3	3	53Q	50	200-240 / 380-440	3830	11.6-11.5 / 6.5-7.2

Maximum 9 Stages

Dimensions (mm)



Model	A (mm)	B (mm)	L (mm)	N.W.(kg)	
FP-TPHK12T 6 -1	369	196.5	565.5	27.0	15
FP-TPHK12T 6 -2	369	196.5	565.5	29.0	15
FP-TPHK12T 9 -2	369	298.5	667.5	30.5	15
FP-TPHK12T 6 -3	369	196.5	565.5	30.0	15
FP-TPHK12T 9 -3	369	298.5	667.5	31.5	15

FP-TPHK 12T

Performance curve (50Hz)

