2013

WALRUS

PUMPS CATALOGUE

Better life through innovation

WALRUS

WALRUS PUMP CO., LTD.

About **Walrus**

About Walrus

Leading Brand of Pump in Taiwan

Walrus Pump Co., ltd is the leading manufacturers of pumps located in Taiwan since 1967, our value is to satisfy customers with a range of comprehensive products, innovative technology and superior quality, value and service. We continuously invest in new product research and development to bring you the best in the industry. Walrus has obtained ISO 9001 and continuously to meet worldwide safety standards.

World Distribution

About Walrus

Completed Support with Full range Service

Competition

Walrus is actively expanding its export markets; we provide wide range pumps for three major applications, such as residential, commercial and industrial, and established sales/distribution channels and service centers worldwide. We are to satisfy our customers' needs with the best quality products, reasonable price, shortest lead time, highest safety standards, and most comprehensive and reliable after sales services.

Go Beyond Excellence

Innovation

To become a major worldwide manufacturer of very high-quality pumps as our goal, from market research to product design to source raw material to manufacturing and quality control, Walrus takes worldwide perspectives and needs into account to produce world class products.

Promising Future of Human Beings

Environment

Walrus's vision is to utilize water usage and provide our society with greater convenience, we using non-toxic materials as components for wide range pumps to meets RoHS, and we proactively reduce waste and use recyclable materials to maintain a balance in our environment, society and economy.

Contents

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Contents

TQ Series Electronic Control Pump

50Hz
Power: 0.18 - 2.2 kW
Head: Up to 34M
Flow: Up to 250 L/min
60Hz
Power: 0.18 - 3.7 kW
Head: Up to 52M
Flow: Up to 270 L/min
Outlet: 1" - 2"

Applications:

The TQ series pumps are designed for water supply and pressure boosting in residential, commercial and light industrial applications where low or inadequate water pressure exists. It is suitable for boosting pressure from underground or surface water supplies.

Operation Conditions:

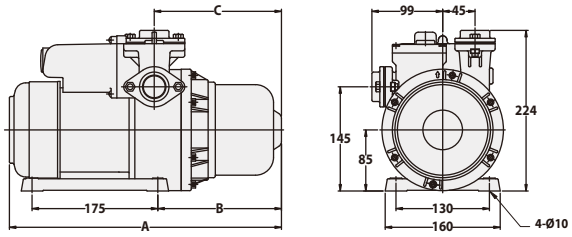
1. Ambient temperature: Max. +40°C
2. Liquid temperature: +4°C ~ +40°C
3. System Pressure : Max. 8.5 kg/cm^2
4. Relative humidity: Max. 85% (RH)
5. Under normal operation, it is not necessary to adjust the pressure unless the cut in pressure is higher than preset activation point (refer to specification).

Product Features:

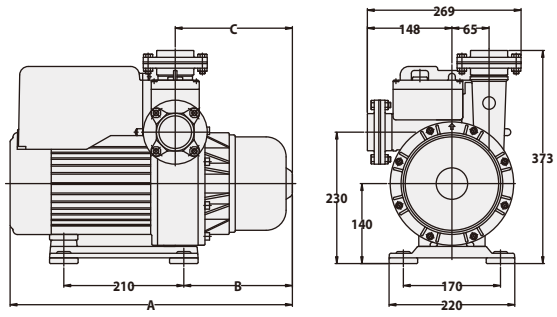
1. The TQ is a complete, all-in-one unit, consisting of pump, motor, pressure tank, and electronic controller. The built-in electronic controller provides constant pressure which ensures that the pump starts automatically when water is consumed and operates continuously until water is not required.
2. Compact design and quiet operation make the TQ series suitable for many applications.
3. The TQ is constructed from the top quality corrosion resistant materials.
4. Pump has built in dry-run shut off with automatic reset function.
5. The motor has built-in thermal overload to protect against high operating temperatures and over current. (Single phase motor only)
6. The TQ has an anti-cycling feature which prevents the pump from continuous starting and stopping when you have a dripping tap or minor leak in the system.
7. The pumps will lift water up to 7.6m. with foot valve and pump suction piping filled with water.

Dimensions:

TQ200/400/800

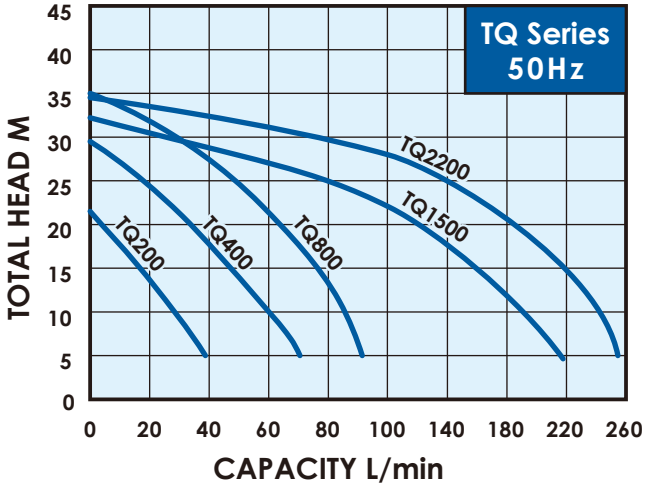


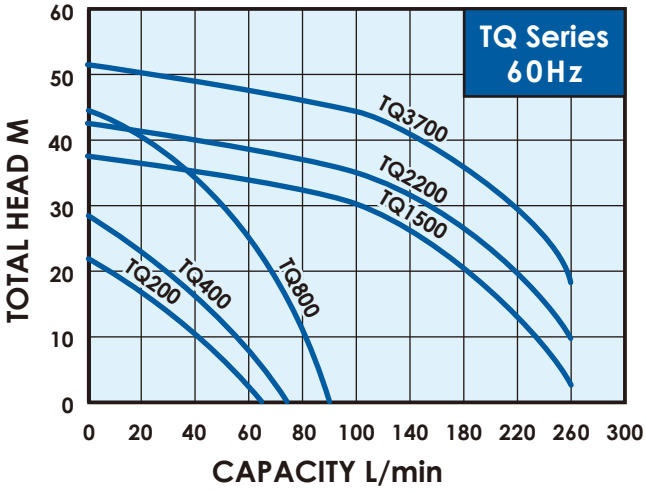
TQ1500/2200/3700



Model	Cycle (Hz)	Dimensions (mm)		
		A	B	C
TQ200	50	389	183	188
	60	365	159	164
TQ400	50	405	198	203
	60	379	172	177
TQ800	50 / 60	451	198	203
TQ1500 ~ 2200	50 / 60	501	197	212
3700	60	501	197	212

Performance curve:





Specification, 50Hz

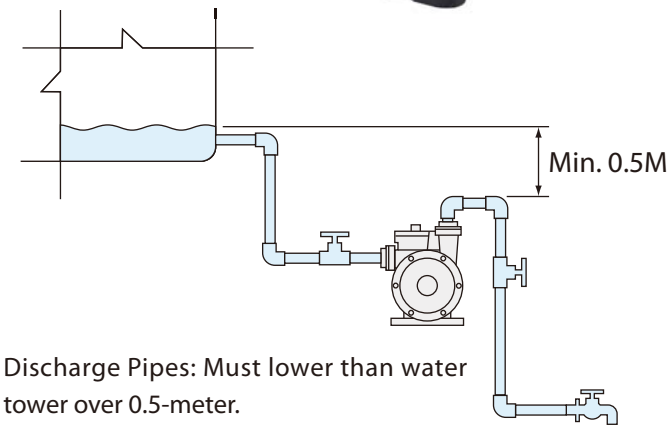
Model	Power (kW)	Cycle (Hz)	Phase (Ø)	Voltage (V)	Amp's (A)	Inlet (in.)	Outlet (in.)	Preset activation point (kg/cm²)	H max. (m)	Q max. (L/min)	N.W. kg	
TQ200	0.18	50	1	200~240	1.5	1"	1"	1.2	22	45	7.4	30
TQ400	0.37	50	1	200~240	3	1"	1"	1.8	30	75	9.4	30
TQ800	0.75	50	1	200~240	4.4	1"	1"	2.0	35	95	11	24
TQ1500	1.5	50	1	200~240	7.2	2"	2"	2.5	32	230	28	12
			3	200~240	5.8							
			3	380~440	3.3							
TQ2200	2.2	50	1	200~240	11.1	2"	2"	2.5	34	250	31	12
			3	200~240	7.2							
			3	380~440	4.1							

Specification, 60Hz

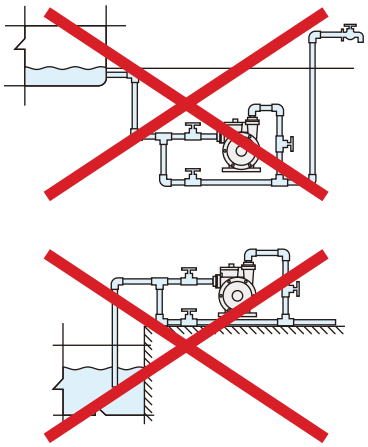
Model	Power (kW)	Cycle (Hz)	Phase (Ø)	Voltage (V)	Amp's (A)	Inlet (in.)	Outlet (in.)	Preset activation point (kg/cm²)	H max. (m)	Q max. (L/min)	N.W. kg	
TQ200	0.18	60	1	110/220	4.0/2.0	1"	1"	1.4	22	60	7.4	30
TQ400	0.37	60	1	110/220	6.0/3.0	1"	1"	2.0	28	70	9.4	30
TQ800	0.75	60	1	110/220	11/5.5	1"	1"	2.5	44	90	11.6	24
TQ1500	1.5	60	1	220	9.5	2"	2"	3.0	37	270	28	12
			3	220	6.5							
			3	380	4.2							
TQ2200	2.2	60	3	220	9.5	2"	2"	3.0	42	270	31	12
			3	380	5.2							
TQ3700	3.7	60	3	220	13.8	2"	2"	3.0	52	270	31.5	12
			3	380	6.8							

TQC Series Automatic Flow-Controlled Pump

Power: 0.18 - 0.75 kW
50Hz
Head: Up to 3.5 kg/cm²
Flow: Up to 95 L/min
60Hz
Head: Up to 4.4 kg/cm²
Flow: Up to 90 L/min
Outlet: 1"



Discharge Pipes: Must lower than water tower over 0.5-meter.



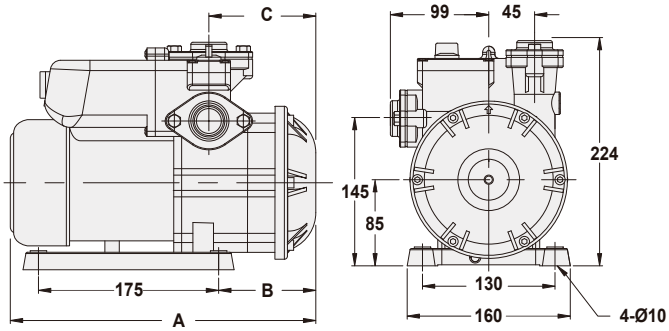
Product Features:

1. This TQC series most suitable to Install it below the water tower, to downward pressurization, When using the water; the pump will automatically start increase the pressure to supply water, when stop using the pump will automatically stop supply power and water.
2. Compact design and quiet operation make the TQC series suitable for many applications.
3. The TQC is constructed from the top quality corrosion resistant materials.
4. The motor has built-in thermal overload to protect against high operating temperatures and over current.

Operation Conditions:

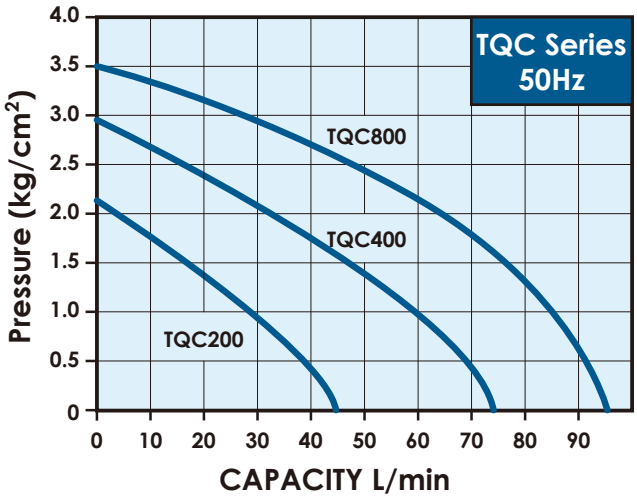
1. Ambient temperature: Max. +40°C
2. Liquid temperature: + 4°C ~ + 40°C
3. Pressure Range : Max. 6kg/cm²
4. Suction Pipes: Must run in positive pressure only a negative pressure unable to work the pump.
5. Discharge Pipes: Must lower than water tower over 0.5-meter.

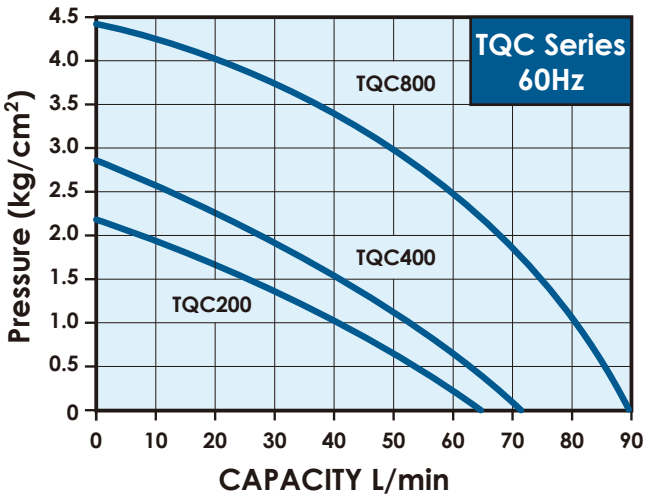
Dimensions:



Model	Cycle (Hz)	Dimensions (mm)		
		A	B	C
TQC200	50	297	90	95
	60	273	66	71
TQC400	50	305	98	104
	60	279	72	78
TQC800	50/60	351	98	104

Performance curve:





Specification, 50Hz

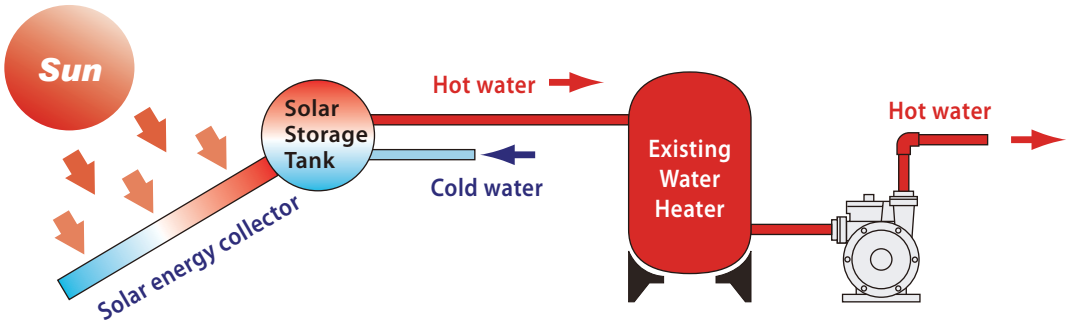
Model	Power (kW)	Cycle (Hz)	Phase (Ø)	Voltage (V)	Amp's (A)	Inlet (in.)	Outlet (in.)	P max. (kg/cm²)	Q max. (L/min)	N.W. (kg)	
TQC200	0.18	50	1	200~240	1.5	1"	1"	2.2	45	6.4	36
TQC400	0.37	50	1	200~240	3	1"	1"	3.0	75	8.2	36
TQC800	0.75	50	1	200~240	4.4	1"	1"	3.5	95	10.4	30

Specification, 60Hz

Model	Power (kW)	Cycle (Hz)	Phase (Ø)	Voltage (V)	Amp's (A)	Inlet (in.)	Outlet (in.)	P max. (kg/cm²)	Q max. (L/min)	N.W. (kg)	
TQC200	0.18	60	1	110/220	4.0/2.0	1"	1"	2.2	60	6.4	36
TQC400	0.37	60	1	110/220	6.0/3.0	1"	1"	2.8	70	8.2	36
TQC800	0.75	60	1	110/220	11/5.5	1"	1"	4.4	90	11.0	30

TQCN Series Hot Water Pump

50Hz
Power: 0.18 - 2.2 kW
Head: Up to 34M
Flow: Up to 250 L/min
60Hz
Power: 0.18 - 3.7 kW
Head: Up to 52M
Flow: Up to 270 L/min
Outlet: 1" - 2"



Applications:

This TQCN Series are designed for hot water supply (up to +90°C) and pressure boosting in residential and commercial applications. They are suitable for solar energy hot water system or other types of hot water systems.

Operation Conditions:

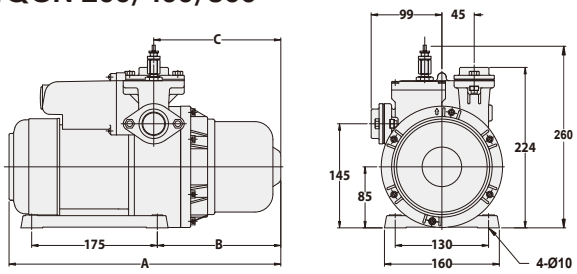
1. Ambient temperature: Max. +40°C
2. Liquid temperature: +4°C ~ +90°C
3. Relief pressure value automatically : 5kg/cm^2
4. Relative humidity: Max. 85% (RH)
5. Before using the pump, be sure the inlet pressure setting is lower than factory pressure setting.

Product Features:

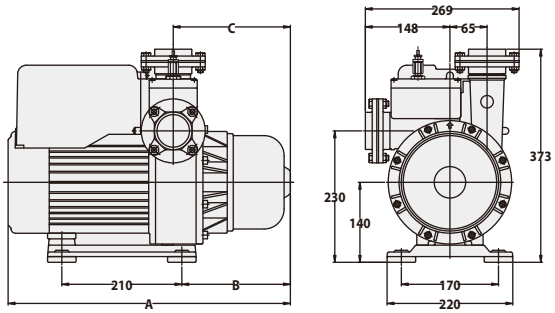
1. The TQCN is a complete, all-in-one unit, consisting of pump, motor, pressure tank, and electronic controller. The built-in electronic controller provides constant pressure which ensures that the pump starts automatically when water is consumed and operates continuously until water is not required.
2. Compact design and quiet operation make the TQCN series suitable for many applications.
3. The TQCN is constructed from the top quality corrosion resistant materials.
4. The motor has built-in thermal overload to protect against high operating temperatures and over current.
5. The TQCN has an anti-cycling feature which prevents the pump from continuous starting and stopping when you have a dripping tap or minor leak in the system.
6. Relief value will automatically release the pressure when the TQCN full system pressure exceeds 5kg/cm^2.

Dimensions:

TQCN 200/400/800

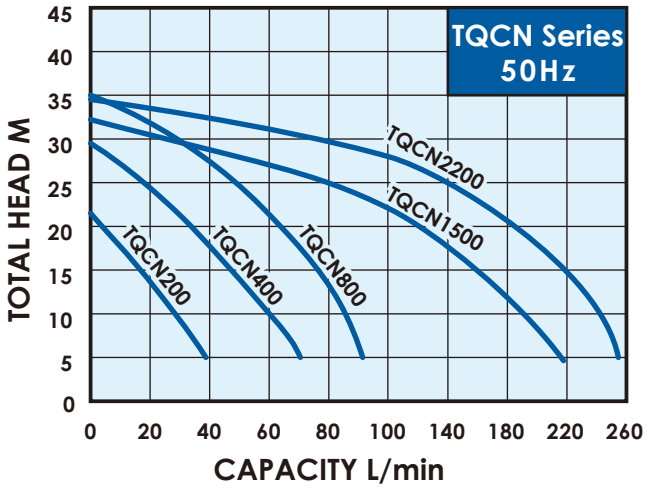


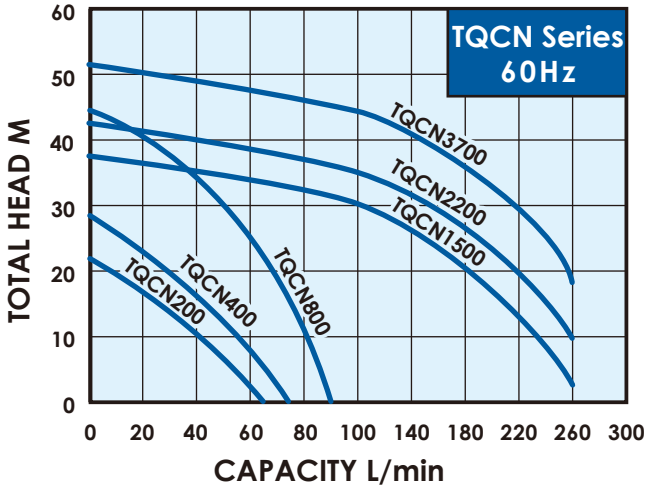
TQCN1500/2200/3700



Model	Cycle (Hz)	Dimensions (mm)		
		A	B	C
TQCN200	50	389	183	188
	60	365	159	164
TQCN400	50	405	198	203
	60	379	172	177
TQCN800	50 / 60	451	198	203
TQCN1500 ~ 2200	50 / 60	501	197	212
TQCN 3700	60	501	197	212

Performance curve:





Specification, 50Hz

Model	Power (kW)	Cycle (Hz)	Phase (Ø)	Voltage (V)	Amp's (A)	Inlet (in.)	Outlet (in.)	Preset activation point (kg/cm²)	H max. (m)	Q max. (L/min)	N.W. kg	
TQCN200	0.18	50	1	200~240	1.5	1"	1"	1.2	22	45	7.4	30
TQCN400	0.37	50	1	200~240	3	1"	1"	1.8	30	75	9.4	30
TQCN800	0.75	50	1	200~240	4.4	1"	1"	2.0	35	95	11	24
TQCN1500	1.5	50	1	200~240	7.2	2"	2"	2.5	32	230	28	12
			3	200~240	5.8							
			3	380~440	3.3							
TQCN2200	2.2	50	1	200~240	11.1	2"	2"	2.5	34	250	31	12
			3	200~240	7.2							
			3	380~440	4.1							

Specification, 60Hz

Model	Power (kW)	Cycle (Hz)	Phase (Ø)	Voltage (V)	Amp's (A)	Inlet (in.)	Outlet (in.)	Preset activation point (kg/cm²)	H max. (m)	Q max. (L/min)	N.W. kg	
TQCN200	0.18	60	1	110/220	4.0/2.0	1"	1"	1.4	22	60	7.4	30
TQCN400	0.37	60	1	110/220	6.0/3.0	1"	1"	2.0	28	70	9.4	30
TQCN800	0.75	60	1	110/220	11/5.5	1"	1"	2.5	44	90	11	24
TQCN1500	1.5	60	1	220	9.5	2"	2"	3.0	37	270	28	12
			3	220	6.5							
			3	380	4.2							
TQCN2200	2.2	60	3	220	9.5	2"	2"	3.0	42	270	31	12
			3	380	5.2							
TQCN3700	3.7	60	3	220	13.8	2"	2"	3.0	52	270	31.5	12
			3	380	6.8							

TP8-P Series Automatic Booster Pump

Power: 0.18 - 0.37 kW

50Hz

Head: Up to 30 M

Flow: Up to 35 L/min

60Hz

Head: Up to 38 M

Flow: Up to 42 L/min

Outlet: ¾" - 1"

Applications:

Ideal for pumping clean, non-volatile liquids without fibres or solids in such applications as :

1. Homes where the incoming city water supply pressure is too low
2. Portable water supply or underground
3. Irrigation
4. Washing/cleaning system

Model code:

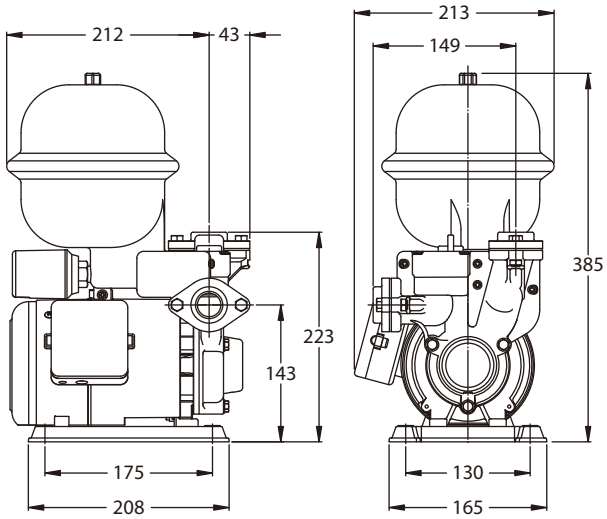
TP820P T

- T — Temperature control(Optional)
- TP820P — Model name

Operation Conditions:

1. Ambient temperature: Max. +40°C
2. Liquid temperature: +4°C ~ +40°C
3. Suction head: Max. 8 m
4. Inlet pressure: Lower than the pressure switch OFF setting. (See Specification)

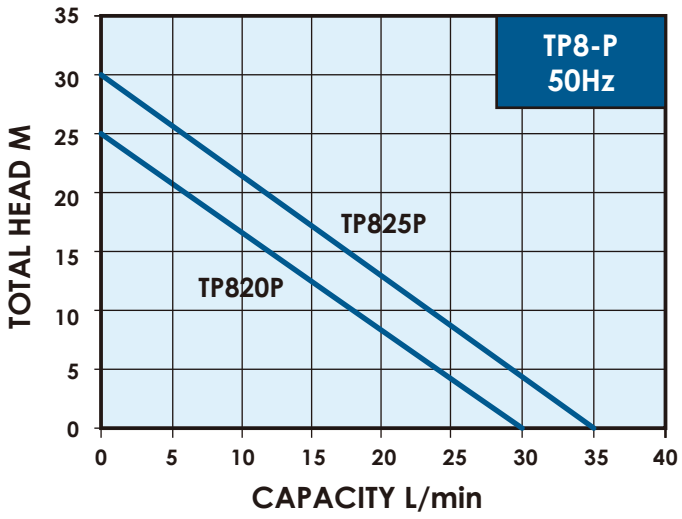
Dimensions:

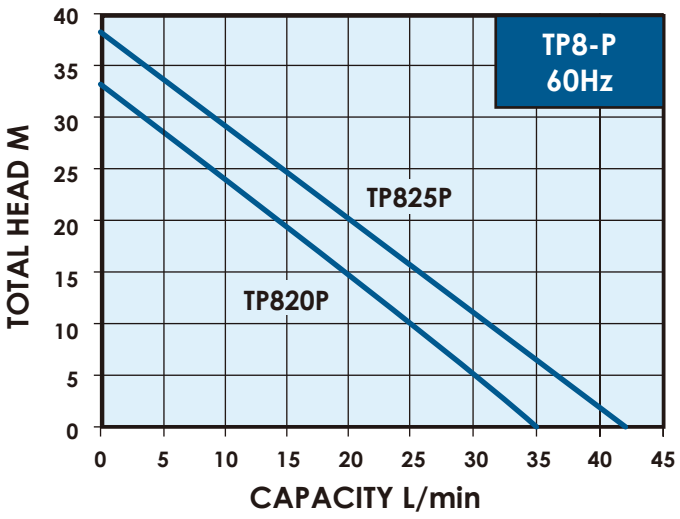


Product Features:

1. Manufactured with non-corrosive rust proof materials.
2. Special design corrosive resistant pressure tank with good appearance.
3. Appropriate reliable check valve with silent operation.
4. Compact design, small size, easy installation.
5. Every pumps tested in our factory to ensure quality and reliability.
6. High performance, electricity saving motor with patented cooling construction. Build-in thermal overload protector for motor burnt out protection.

Performance curve:





Specification, 50Hz

Model	Power (kW)	Cycle (Hz)	Phase (Ø)	Voltage (V)	Amp's (A)	Pressure Switch kg/cm²		Inlet (in.)	Outlet (in.)	H max. (m)	Q max. (L/min)	N.W. (kg)	
						ON	OFF						
TP820P(T)	0.18	50	1	200-240	1.4	0.9	1.8	¾"	¾"	25	30	6.7	32
TP825P(T)	0.37	50	1	200-240	2.7	1.8	2.8	1"	1"	30	35	7.6	32

Specification, 60Hz

Model	Power (kW)	Cycle (Hz)	Phase (Ø)	Voltage (V)	Amp's (A)	Pressure Switch kg/cm²		Inlet (in.)	Outlet (in.)	H max. (m)	Q max. (L/min)	N.W. (kg)	
						ON	OFF						
TP820P(T)	0.18	60	1	110/220	3.2/1.6	1.2	2.4	¾"	¾"	34	35	6.7	32
TP825P(T)	0.37	60	1	110/220	5.2/2.6	2.0	3.0	1"	1"	38	42	7.6	32

TPHIC Series Constant Pressure Inverter Control System

Power: 0.5 - 15 HP

Pre-set Pressure: Up to 6 kg/cm²

Flow: Up to 1610 L/min

Outlet: 1" -6"

Applications:

Apartment buildings, houses, villa water supply, factories, water supply systems, drinking water systems, RO water treatment equipment, supermarkets, motels, SPA, etc.

Operation Conditions:

1. Ambient temperature: Max. +40°C
2. Liquid temperature: +4°C ~+40°C
3. Suitable liquids:Potable water or other clean, thin or non-aggressive liquids.
4. Inlet pressure: Lower than the constant pressure setting limit (see page 12~17)

Model code:

Example: TPH 4T 3K S IC V x2

- **Pump series TPH**
- **Nominal flow rate [m³/h]**
- **Nominal head [kg/cm²]**
- **Stainless steel series**
- **IC: IC inverter series**
- **Deluxe**
- **Number of pumps in parallel**

Product Features:

he pump will start smoothly when water is consumed. The inverter controller has a pressure sensor to detect down-stream pressure and adjust the motor speed to keep it at the required psi.

Constant and stable pressure control:
The pump will maintain a constant operating pressure at the pressure setting. This ensures a stable water supply even though occasionally the output flow is over the capacity.

Dry-run protection:
The pump will automatically shut down to protect against dry running. Once the pump starts to operate, the pressure sensor will automatically detect the pressure limit. If the pressure limit can not reach to the original setting within 2 minutes, the pump will stop and attempt to restart every 10 minutes until the function is deactivate.

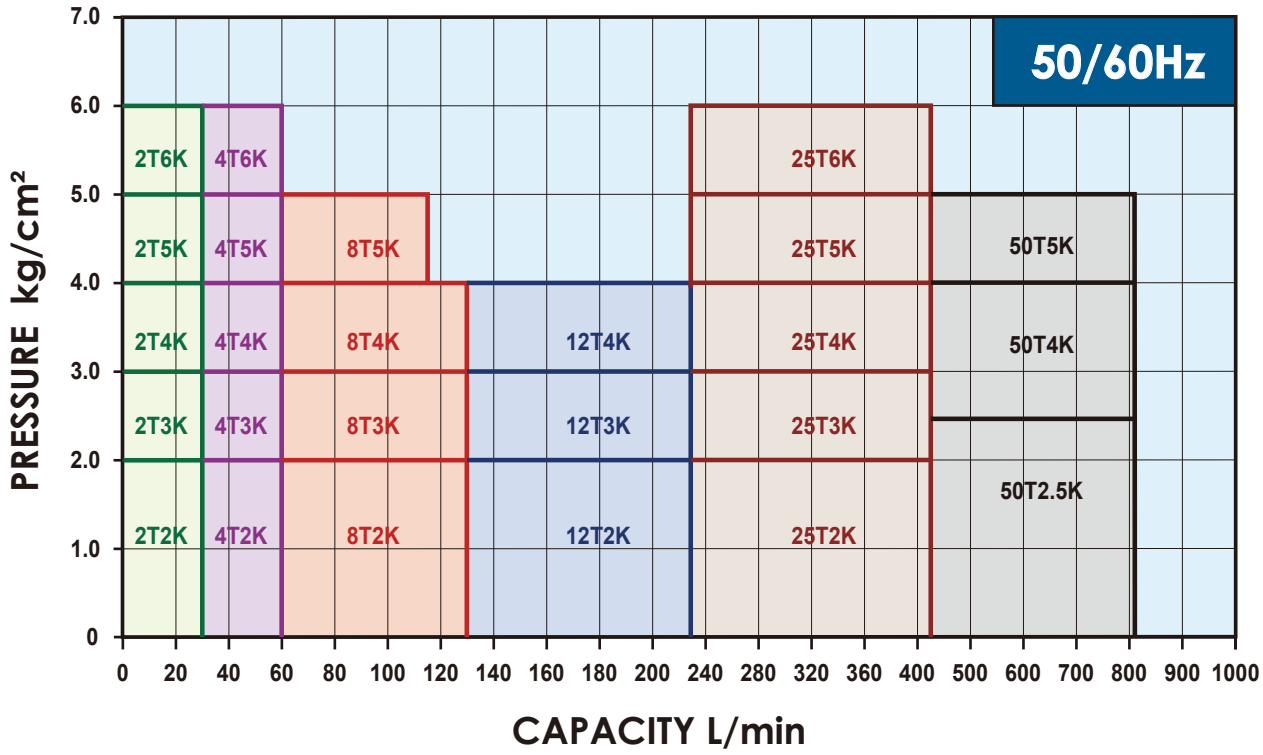
Automatic stop when flow stops:
The pump will automatically cycle down as water usage decreases.

Pressure compensation for pipeline leaks:
Should the down steam pressure drop due to leaks in the piping system, the microcomputer will detect the pressure loss automatically and operate the pump to maintain the pressure setting limit.

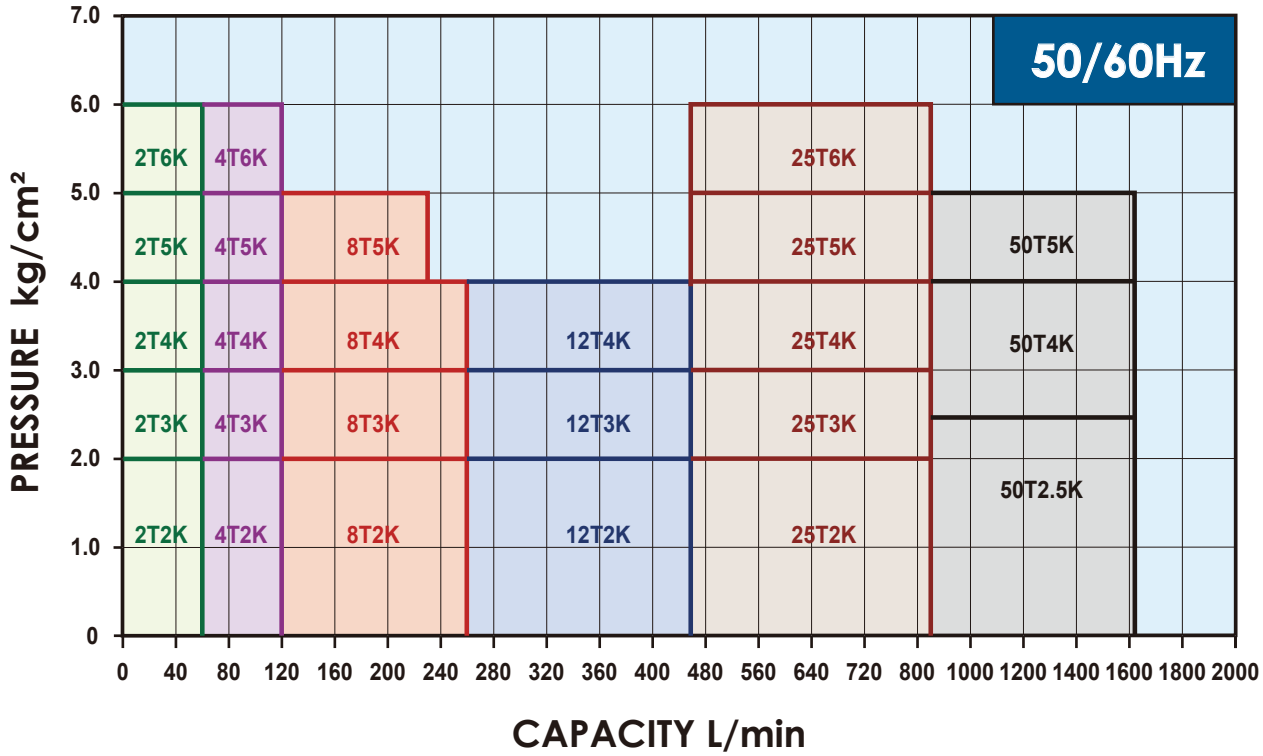
Single or parallel unit operation:
Parallel operation: When water usage is low, one unit will begin to operate until the water usage increases, when it can no longer handle the required water pressure, the other unit will start functioning in parallel. The duplex unit will switch to single unit operation automatically with the decrease in water demand.

Interchangeable operation:
When a pump has operated through the preset interval (adjustable at 0-24 hours) the system will automatically switch to the other unit. This cycle will continue through time.

Performance curves - Single unit



Performance curves - Duplex



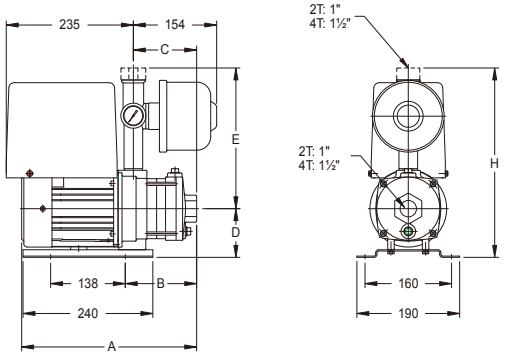
2T/4T IC

Specifications - Single unit

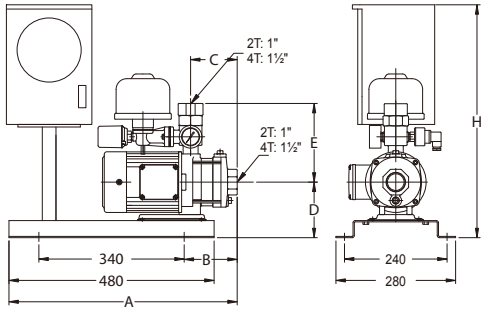
Model	Inverter Controller Output Power (HP)	Phase (Ø)	Voltage (V)	Pre-set Pressure (kg/cm²)	Inlet (in.)	Outlet (in.)	Nominal Set Head (M)	Nominal Set Flow (L/min)
TPH2T2KIC	1	1Ø	200-240V	2.0	1	1	20	30
		3Ø	200-240V or 380-440V					
TPH2T3KIC	1	1Ø	200-240V	3.0	1	1	30	30
		3Ø	200-240V or 380-440V					
TPH2T4KIC	1	1Ø	200-240V	4.0	1	1	40	30
		3Ø	200-240V or 380-440V					
TPH2T5KIC	1	1Ø	200-240V	5.0	1	1	50	30
		3Ø	200-240V or 380-440V					
TPH2T6KIC	1	1Ø	200-240V	6.0	1	1	60	30
		3Ø	200-240V or 380-440V					
TPH4T2KIC	1	1Ø	200-240V	2.0	1½	1½	20	60
		3Ø	200-240V or 380-440V					
TPH4T3KIC	1	1Ø	200-240V	3.0	1½	1½	30	60
		3Ø	200-240V or 380-440V					
TPH4T4KIC	2	1Ø	200-240V	4.0	1½	1½	40	60
		3Ø	200-240V or 380-440V					
TPH4T5KIC	2	1Ø	200-240V	5.0	1½	1½	50	60
		3Ø	200-240V or 380-440V					
TPH4T6KIC	2	1Ø	200-240V	6.0	1½	1½	60	60
		3Ø	200-240V or 380-440V					

Dimensions (mm)

• Fig.1 TPH2T /4T – IC



• Fig. 2 TPH2T /4T – ICV



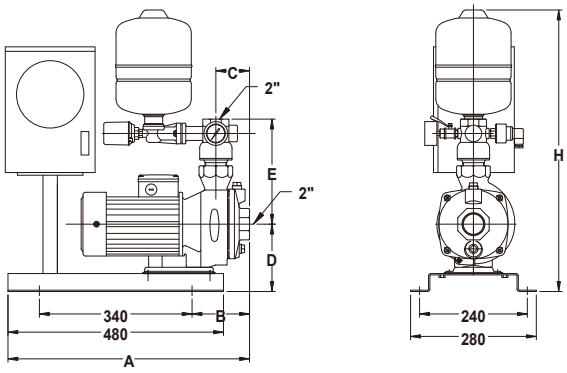
Model	A	B	C	D	E	H	Pressure tank (L)	Fig
TPH2T2KIC	305	114	99	90	267	357	0.8	1
TPH2T3KIC	323	132	117	90	267	357	0.8	1
TPH2T4KIC	341	150	135	90	267	357	0.8	1
TPH2T5KIC	399	168	153	90	267	357	0.8	1
TPH2T6KIC	417	186	171	90	267	357	0.8	1
TPH2T2KICV	524	114	99	130	184	545	0.8	2
TPH2T3KICV	542	132	117	130	184	545	0.8	2
TPH2T4KICV	560	150	135	130	184	545	0.8	2
TPH2T5KICV	578	168	153	130	184	545	0.8	2
TPH2T6KICV	596	186	171	130	184	545	0.8	2
TPH4T2KIC	315	123	108	90	238	328	0.8	1
TPH4T3KIC	381	150	135	90	238	328	0.8	1
TPH4T4KIC	408	177	162	90	238	328	0.8	1
TPH4T5KIC	435	204	189	90	238	328	0.8	1
TPH4T6KIC	493	231	216	90	238	328	0.8	1
TPH4T2KICV	533	123	108	130	155	545	0.8	2
TPH4T3KICV	560	150	135	130	155	545	0.8	2
TPH4T4KICV	587	177	162	130	155	545	0.8	2
TPH4T5KICV	614	204	189	130	155	545	0.8	2
TPH4T6KICV	641	231	216	130	155	545	0.8	2

Specifications - Single unit

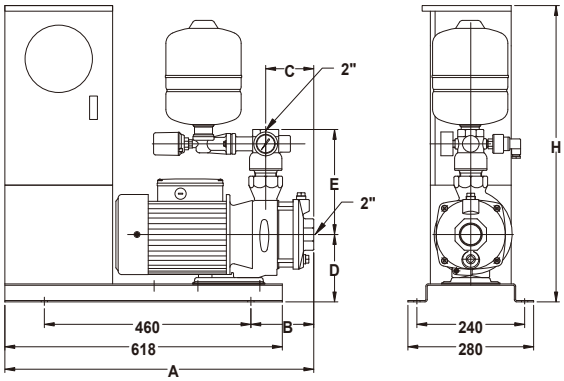
Model	Inverter Controller Output Power (HP)	Phase (Ø)	Voltage (V)	Pre-set Pressure (kg/cm^2)	Inlet (in.)	Outlet (in.)	Nominal Set Head (M)	Nominal Set Flow (L/min)
TPH 8 T 2 KIC	1	1Ø	200-240V	2.0	2	2	20	130
		3Ø	200-240V or 380-440V					
TPH 8 T 3 KIC	2	1Ø	200-240V	3.0	2	2	30	130
		3Ø	200-240V or 380-440V					
TPH 8 T 4 KIC	3	1Ø	200-240V	4.0	2	2	40	130
		3Ø	200-240V or 380-440V					
TPH 8 T 5 KIC	3	1Ø	200-240V	5.0	2	2	50	115
		3Ø	200-240V or 380-440V					
TPH12T 2 KIC	2	1Ø	200-240V	2.0	2	2	20	230
		3Ø	200-240V or 380-440V					
TPH12T 3 KIC	3	1Ø	200-240V	3.0	2	2	30	230
		3Ø	200-240V or 380-440V					
TPH12T 4 KIC	5	1Ø	200-240V	4.0	2	2	40	230
		3Ø	200-240V or 380-440V					

Dimensions (mm)

- Fig.1 TPH8T /12T - IC



- Fig.2 TPH 12T4KIC



Model	A	B	C	D	E	H	Pressure tank (L)	Fig
TPH8T2KIC	538	128	75	150	235	625	4	1
TPH8T3KIC	570	160	107	150	235	625	4	1
TPH8T4KIC	570	160	107	150	235	625	4	1
TPH8T5KIC	604	194	141	150	235	625	4	1
TPH12T2KIC	538	128	75	150	235	625	4	1
TPH12T3KIC	570	160	107	150	235	625	4	1
TPH12T4KIC	708	160	107	150	235	660	4	2

25T/50T IC

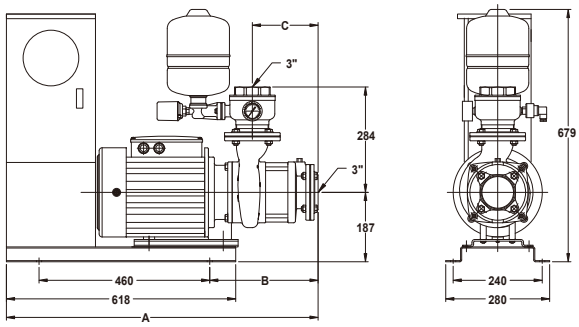
Specifications - Single unit

Model	Inverter Controller Output Power (HP)	Phase (Ø)	Voltage (V)	Pre-set Pressure (kg/cm^2)	Inlet (in.)	Outlet (in.)	Nominal Set Head (M)	Nominal Set Flow (L/min)
TPH25T 2 KIC	5	3Ø	200-240V or 380-440V	2.0	3	3	20	415
TPH25T 3 KIC	5	3Ø	200-240V or 380-440V	3.0	3	3	30	415
TPH25T 4 KIC	7½	3Ø	200-240V or 380-440V	4.0	3	3	40	415
TPH25T 5 KIC	10	3Ø	200-240V or 380-440V	5.0	3	3	50	415
TPH25T 6 KIC	10	3Ø	200-240V or 380-440V	6.0	3	3	60	415
TPH50T2.5KIC	7½	3Ø	200-240V or 380-440V	2.5	4	4	25	810
TPH50T 4 KIC	10	3Ø	200-240V or 380-440V	4.0	4	4	40	810
TPH50T 5 KIC	15	3Ø	200-240V or 380-440V	5.0	4	4	50	810

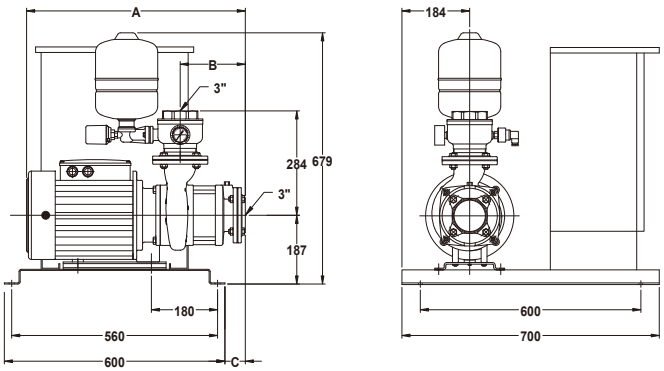
Dimensions (mm)

Model	A	B	C	Pressure tank (L)	Fig
TPH25T2KIC	776	228	120	4	1
TPH25T3KIC	836	288	180	4	1
TPH25T4KIC	598	180	58	4	2
TPH25T5KIC	708	240	118	4	2
TPH25T6KIC	708	240	118	4	2
TPH50T2.5KIC	583	162	43	12	3
TPH50T4KIC	693	222	103	12	3
TPH50T5KIC	743	222	103	12	3

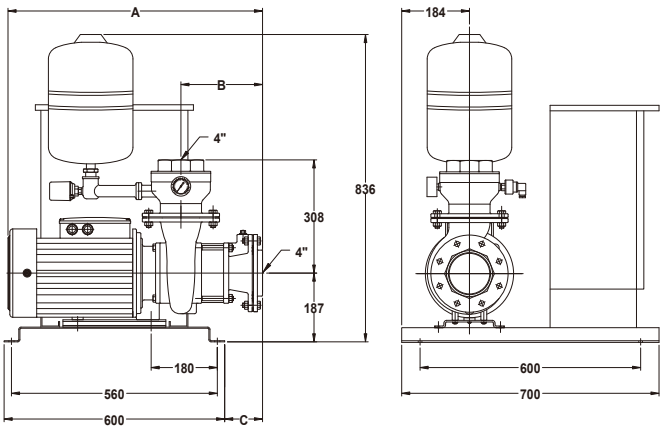
- Fig. 1 TPH 25T2KIC / TPH 25T3KIC



- Fig. 2 TPH 25T4KIC ~ TPH25T6KIC



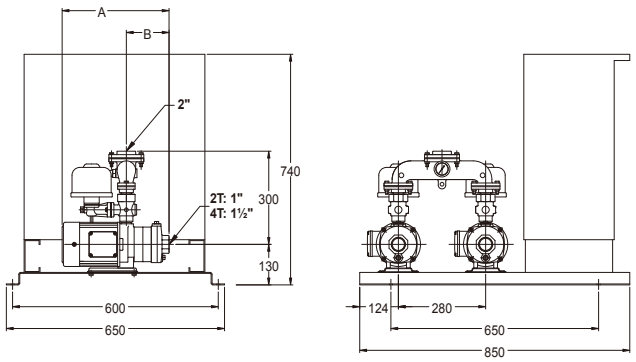
- Fig. 3 TPH 50T - IC



Specifications - Duplex

Model	Inverter Controller Output Power (HP)	Phase (Ø)	Voltage (V)	Pre-set Pressure (kg/cm^2)	Inlet (in.)	Outlet (in.)	Nominal Set Head (M)	Nominal Set Flow (L/min)
TPH2T2KIC x2	1 x2	1Ø	200-240V	2.0	1	2	20	60
		3Ø	200-240V or 380-440V					
TPH2T3KIC x2	1 x2	1Ø	200-240V	3.0	1	2	30	60
		3Ø	200-240V or 380-440V					
TPH2T4KIC x2	1 x2	1Ø	200-240V	4.0	1	2	40	60
		3Ø	200-240V or 380-440V					
TPH2T5KIC x2	1 x2	1Ø	200-240V	5.0	1	2	50	60
		3Ø	200-240V or 380-440V					
TPH2T6KIC x2	1 x2	1Ø	200-240V	6.0	1	2	60	60
		3Ø	200-240V or 380-440V					
TPH4T2KIC x2	1 x2	1Ø	200-240V	2.0	1½	2	20	120
		3Ø	200-240V or 380-440V					
TPH4T3KIC x2	1 x2	1Ø	200-240V	3.0	1½	2	30	120
		3Ø	200-240V or 380-440V					
TPH4T4KIC x2	2 x2	1Ø	200-240V	4.0	1½	2	40	120
		3Ø	200-240V or 380-440V					
TPH4T5KIC x2	2 x2	1Ø	200-240V	5.0	1½	2	50	120
		3Ø	200-240V or 380-440V					
TPH4T6KIC x2	2 x2	1Ø	200-240V	6.0	1½	2	60	120
		3Ø	200-240V or 380-440V					

Dimensions (mm)



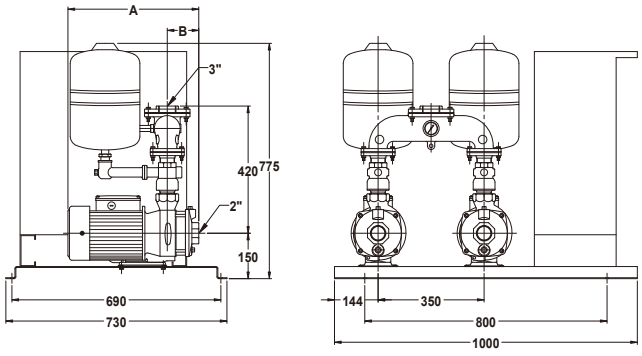
Model	A	B	Pressure tank (L)
TPH2T2KIC x2	395	99	0.8 x2
TPH2T3KIC x2	413	117	0.8 x2
TPH2T4KIC x2	431	135	0.8 x2
TPH2T5KIC x2	449	153	0.8 x2
TPH2T6KIC x2	467	171	0.8 x2
TPH4T2KIC x2	404	108	0.8 x2
TPH4T3KIC x2	431	135	0.8 x2
TPH4T4KIC x2	458	162	0.8 x2
TPH4T5KIC x2	485	189	0.8 x2
TPH4T6KIC x2	512	216	0.8 x2

8T/12T ICx2

Specifications - Duplex

Model	Inverter Controller Output Power (HP)	Phase (Ø)	Voltage (V)	Pre-set Pressure (kg/cm²)	Inlet (in.)	Outlet (in.)	Nominal Set Head (M)	Nominal Set Flow (L/min)
TPH 8 T 2 KIC x2	1 x2	1Ø	200-240V	2.0	2	3	20	260
		3Ø	200-240V or 380-440V					
TPH 8 T 3 KIC x2	2 x2	1Ø	200-240V	3.0	2	3	30	260
		3Ø	200-240V or 380-440V					
TPH 8 T 4 KIC x2	3 x2	1Ø	200-240V	4.0	2	3	40	260
		3Ø	200-240V or 380-440V					
TPH 8 T 5 KIC x2	3 x2	1Ø	200-240V	5.0	2	3	50	230
		3Ø	200-240V or 380-440V					
TPH12T 2 KIC x2	2 x2	1Ø	200-240V	2.0	2	3	20	460
		3Ø	200-240V or 380-440V					
TPH12T 3 KIC x2	3 x2	1Ø	200-240V	3.0	2	3	30	460
		3Ø	200-240V or 380-440V					
TPH12T 4 KIC x2	5 x2	1Ø	200-240V	4.0	2	3	40	460
		3Ø	200-240V or 380-440V					

Dimensions (mm)



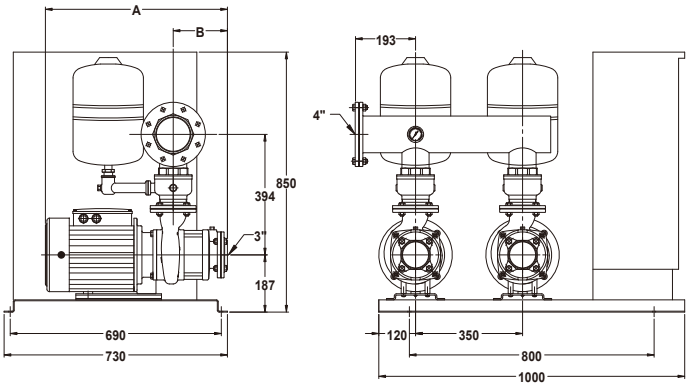
Model	A	B	Pressure tank (L)
TPH8T2KIC x2	395	75	12 x2
TPH8T3KIC x2	427	107	12 x2
TPH8T4KIC x2	435	107	12 x2
TPH8T5KIC x2	467	139	12 x2
TPH12T2KIC x2	395	75	12 x2
TPH12T3KIC x2	435	107	12 x2
TPH12T4KIC x2	435	107	12 x2

Specifications - Duplex

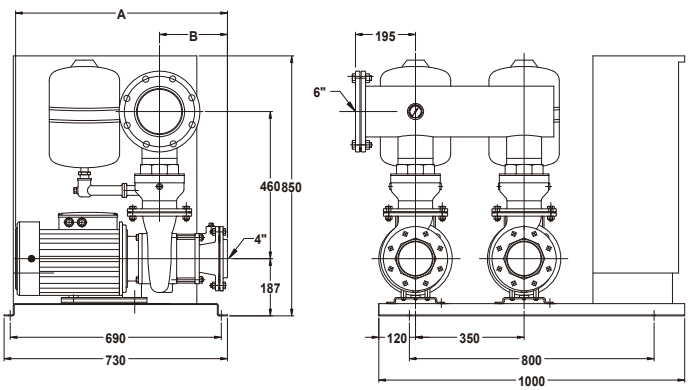
Model	Inverter Controller Output Power (HP)	Phase (Ø)	Voltage (V)	Pre-set Pressure (kg/cm²)	Inlet (in.)	Outlet (in.)	Nominal Set Head (M)	Nominal Set Flow (L/min)
TPH25T 2 KIC x2	5 x2	3Ø	200-240V or 380-440V	2.0	3	4	20	830
TPH25T 3 KIC x2	5 x2	3Ø	200-240V or 380-440V	3.0	3	4	30	830
TPH25T 4 KIC x2	7½ x2	3Ø	200-240V or 380-440V	4.0	3	4	40	830
TPH25T 5 KIC x2	10 x2	3Ø	200-240V or 380-440V	5.0	3	4	50	830
TPH25T 6 KIC x2	10 x2	3Ø	200-240V or 380-440V	6.0	3	4	60	830
TPH50T2.5KIC x2	7½ x2	3Ø	200-240V or 380-440V	2.5	4	6	25	1610
TPH50T 4 KIC x2	10 x2	3Ø	200-240V or 380-440V	4.0	4	6	40	1610
TPH50T 5 KIC x2	15 x2	3Ø	200-240V or 380-440V	5.0	4	6	50	1610

Dimensions (mm)

- Fig. 1 TPH 25T – IC x2



- Fig. 2 TPH 50T – IC x2



Model	A	B	Pressure tank (L)	Fig
TPH25T2KIC x2	537.5	120	12 x2	1
TPH25T3KIC x2	597.5	180	12 x2	1
TPH25T4KIC x2	597.5	180	12 x2	1
TPH25T5KIC x2	707.5	240	12 x2	1
TPH25T6KIC x2	707.5	240	12 x2	1
TPH50T2.5KIC x2	583	162	12 x2	2
TPH50T4KIC x2	693	222	12 x2	2
TPH50T5KIC x2	743	222	12 x2	2

TP3-P Series Direct Water Pump

Power: 0.37 kW

50Hz

Head: Up to 35 M

Flow: Up to 35 L/min

60Hz

Head: Up to 40 M

Flow: Up to 42 L/min

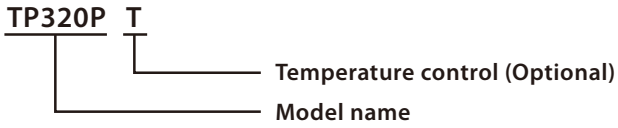
Outlet: ¾" - 1"

Applications:

Ideal for pumping clean, non-volatile liquids without fibres or solids in such applications as :

1. The water supply for apartment and residences
2. Portable water supply or underground
3. Irrigation
4. Washing/cleaning system

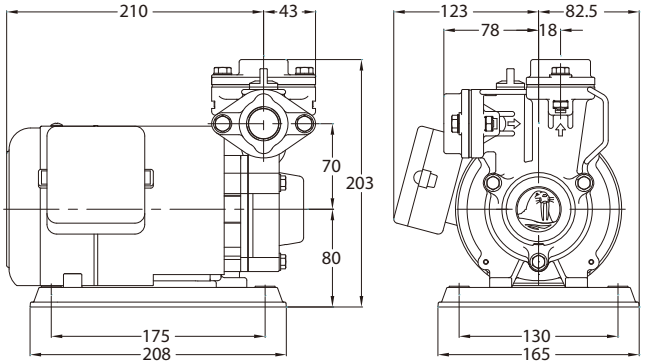
Model code:



Operation Conditions:

1. Ambient temperature: Max. +40°C
2. Liquid temperature: +4°C ~ +40°C
3. Suction head: Max. 8 m

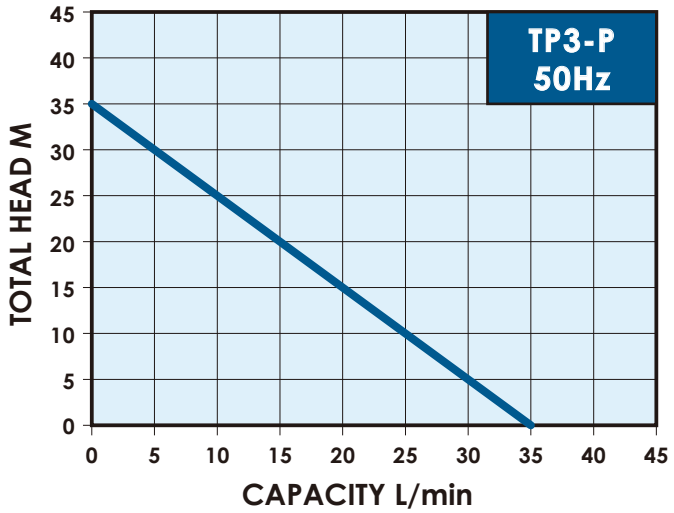
Dimensions:

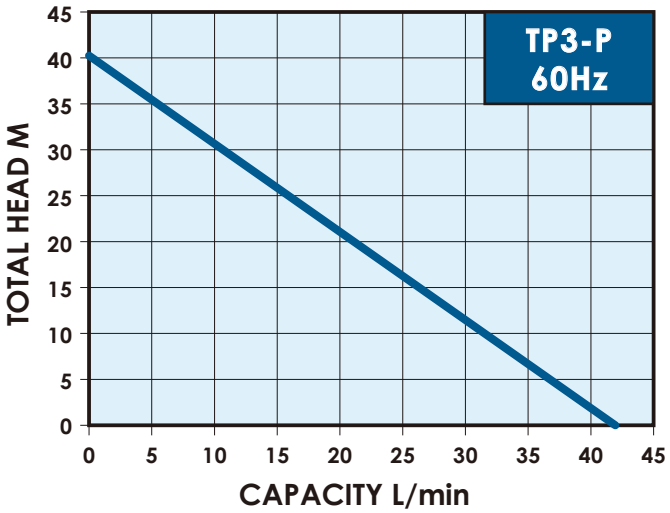


Product Features:

1. Manufactured with non-corrosive rust proof materials.
2. Special design high efficiency and low noise impeller.
3. High quality mechanical seal ensuring no leakage and long life.
4. Compact design, small size, easy installation.
5. Every pumps tested in our factory to ensure quality and reliability.
6. High performance, electricity saving motor with patented cooling construction. Build-in thermal overload protector for motor burnt out protection.

Performance curve:





Specification, 50Hz

Model	Power (kW)	Cycle (Hz)	Phase (Ø)	Voltage (V)	Amp's (A)	Inlet (in.)	Outlet (in.)	H max. (m)	Q max. (L/min)	N.W. (kg)	
TP320P(T)	0.37	50	1	200-240	2.7	¾"	¾"	35	35	6.7	60
TP325P(T)						1"	1"				

Specification, 60Hz

Model	Power (kW)	Cycle (Hz)	Phase (Ø)	Voltage (V)	Amp's (A)	Inlet (in.)	Outlet (in.)	H max. (m)	Q max. (L/min)	N.W. (kg)	
TP320P(T)	0.37	60	1	110/220	5.2/2.6	¾"	¾"	40	42	6.7	60
TP325P(T)						1"	1"				

TS Series **Multistage Centrifugal** Pump

Power: 0.18 - 3.7 kW
50Hz
Head: Up to 34 M
Flow: Up to 250 L/min
60Hz
Head: Up to 50 M
Flow: Up to 270 L/min
Outlet: 1" - 2"

Applications:

The TS series are multistage centrifugal pumps suitable for pressure boosting applications such as increasing water pressure from city mains or private water systems. They are also suitable for other applications such as:

- Water circulation
- Liquid transfer
- Irrigation systems
- Lawn sprinkle systems
- Washing systems
- General purpose pumping

Operation Conditions:

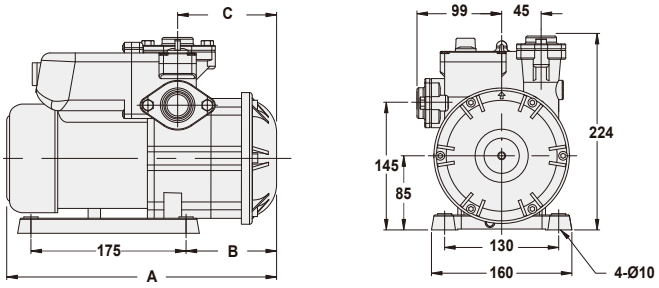
1. Ambient temperature: Max. +40°C
2. Liquid temperature: +4°C ~ +40°C
3. System Pressure : Max. 8.5 kg/cm^2

Product Features:

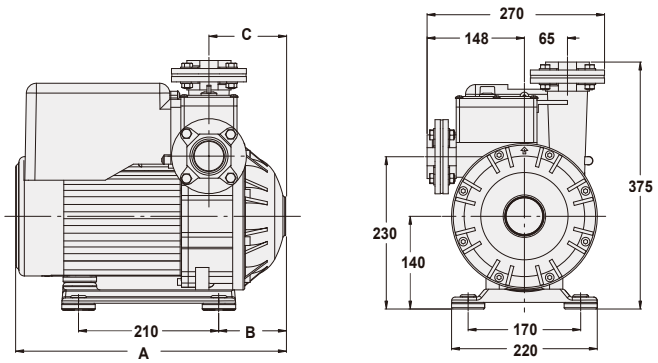
1. Multistage design provides steady, quiet and vibration-free operation for years of trouble-free service.
2. Close coupled, space saving design provides easy installation.
3. All parts in contact with water are made from corrosion resistant materials.
4. Capable of transferring both plain and salt water.
5. The pump is installed with thermostat protection switch to protect against dry running. The pump will shut off when water temperature exceeds 130° F (55° C). (TS400 /800 only)
6. The motor has a built-in thermal overload to protect against high operating temperatures and over current (Single phase motor only)
7. The pumps will lift water up to 7.6m. with foot valve and pump suction piping filled with water

Dimensions:

TS400 / 800

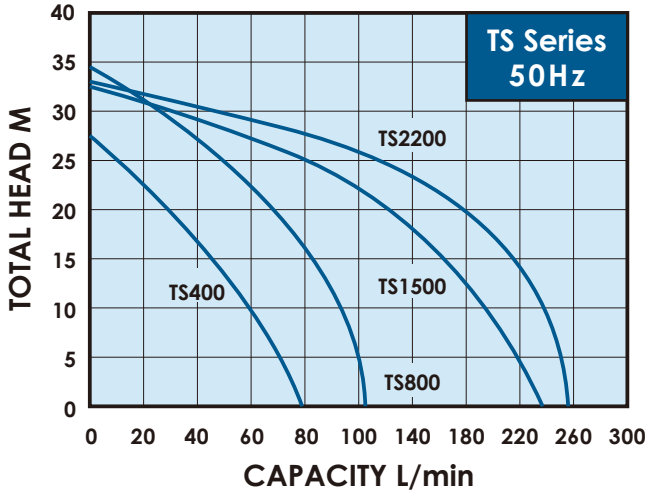


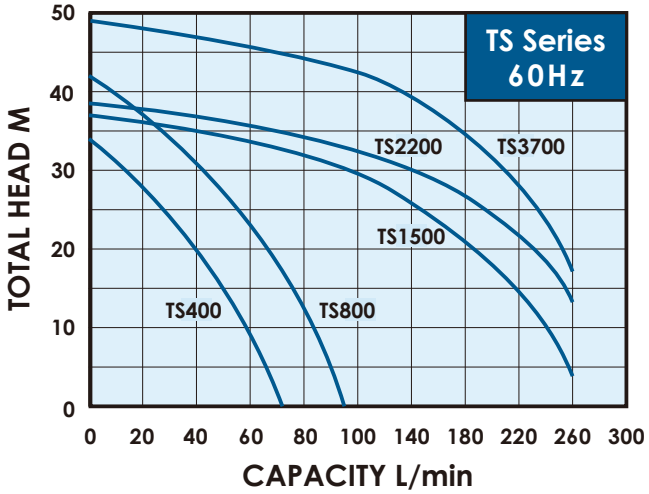
TS1500 / 2200 / 3700



Model	Cycle (Hz)	A (mm)	B (mm)	C (mm)
TS400	50	305	99	104
	60	297	90	95
TS800	50 / 60	352	99	104
TS1500/2200	50 / 60	405	101	116
TS3700	60	405	101	116

Performance curve:





Specification, 50Hz

Model	Power (kW)	Cycle (Hz)	Phase (Ø)	Voltage (V)		Amp's (A)		Inlet (in.)	Outlet (in.)	H max. (m)	Q max. (L/min)	N.W. (kg)	
TS400	0.37	50	1	200-240		3.0		1"	1"	30	75	8	36
TS800	0.75	50	1	200-240		4.4		1"	1"	35	100	11	30
TS1500	1.5	50	1	200-240		7.2		2"	2"	32	230	26	18
			3	200-240	380-440	6.2	3.5	2"	2"	32	230	26	18
TS2200	2.2	50	1	200-240		11.1		2"	2"	34	250	27	18
		50	3	200-240	380-440	9.0	4.5	2"	2"	34	250	27	18

Specification, 60Hz

Model	Power (kW)	Cycle (Hz)	Phase (Ø)	Voltage (V)		Amp's (A)		Inlet (in.)	Outlet (in.)	H max. (m)	Q max. (L/min)	N.W. (kg)	
TS400	0.37	60	1	110/220		6.0/3.0		1"	1"	35	70	8	36
TS800	0.75	60	1	110/220		11/5.5		1"	1"	42	95	11	30
TS1500	1.5	60	1	220		9.5		2"	2"	38	265	26	18
			3	220	380	6.5	4.2	2"	2"	38	265	26	18
TS2200	2.2	60	3	220	380	9.5	5.2	2"	2"	39	270	27	18
TS3700	3.7	60	3	220	380	13.8	6.8	2"	2"	50	270	29	18

TH Series Atomize Pump

Power: 0.25 - 0.37 kW

50Hz

Pressure: Up to 30 kg/cm²

Flow: Up to 7.5 L/min

60Hz

Pressure: Up to 30 kg/cm²

Flow: Up to 8.5 L/min

Outlet: ¼"

Applications:

1. Household and industrial washing and cleaning.
2. High pressure water supplying.
3. Garden and agricultural chemicals spraying.
4. Hydraulic piping leakage testing.

Maximum output pressure:

1. TH400P - 30 kg/cm²
2. TH250P - 20 kg/cm²

Product Features:

1. Portable compact design, easy to carry.
2. Easy operation, and maintenance.
3. High pressure discharge head, and large capacity.
4. Powerful electrical motor,high reliability.
5. Suitable for agricultural spraying.
6. Self priming suction function.

Standard Accessories:

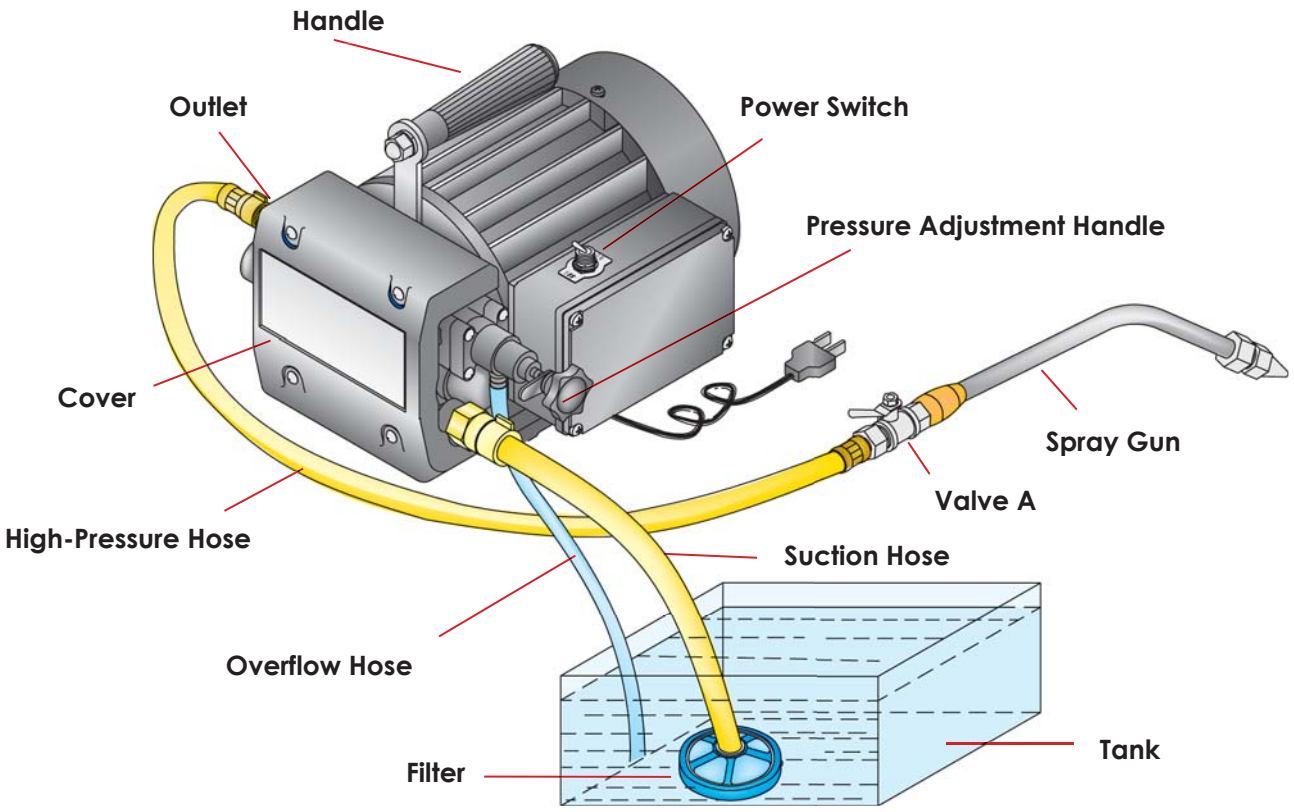
1. Suction hose pipe with inlet filter.
2. High pressure hose (30 ft.)
3. Overflow hose.
4. Spray gun.

Optional Accessories:

1. Hydraulic testing kit
   (pressure gauge, valve and high pressure hose pipe).

2. Spary gun.

Sprayer Components



Specification, 50Hz

Type	Output (kW)	Cycle Hz	Pole P	Voltage Single V	Pressure kg/cm²	Capacity L/min	Box Outline L x W x H mm	Weight kg	
TH250P	0.25	50	4	200 - 240	20	7.5	358 X 288 X 261	9.0	27
TH400P	0.37	50	4	200 - 240	30	7.5	358 X 288 X 261	13.2	27

Specification, 60Hz

Type	Output (kW)	Cycle Hz	Pole P	Voltage Single V	Pressure kg/cm²	Capacity L/min	Box Outline L x W x H mm	Weight kg	
TH250P	0.25	60	4	110 or 220	20	8.5	358 X 288 X 261	9.0	27
TH400P	0.37	60	4	110 or 220	30	8.5	358 X 288 X 261	13.2	27

PW-A Series Submersible Pump

Power: 0.1 - 0.4 kW
Head: Up to 10 M
Flow: Up to 260 L/min
Outlet: 1" - 2"

Coverage of Application

1. To be used to circulate water in garden ponds
2. To be applicable to the sprinkler for vegetations of parks.
3. Watering in the garden and washing car.
4. To drain the accumulated water for basement of residence.
5. To drain the ground water.
6. To drain accumulated water for civil and architecture engineering.
7. The "R" type available to used in sea fish breeding.
8. The "C" type equipped level regulator.
9. The "F" type equipped float ball level switch.
10. The "D" type low suction capability up to 3 mm

Characteristic

1. Submersible pumps for clean water.
2. Corrosion-resistant and compact.
3. Built-in capacitor.
4. Supplied with power cable with plug
5. Motor with thermo overload protection

Specifications

1. Power supply: single-phase 50 or 60 Hz
2. Power: 100W to 400W
3. Insulation class: B
4. Protection: IP68
5. Length of cable: 4 or 5 m
   10 m (Optional)
6. Delivery: up to 260 L/min
7. Head: up to 10 m
8. Temperature of pumped liquid: 4°C to +35°C

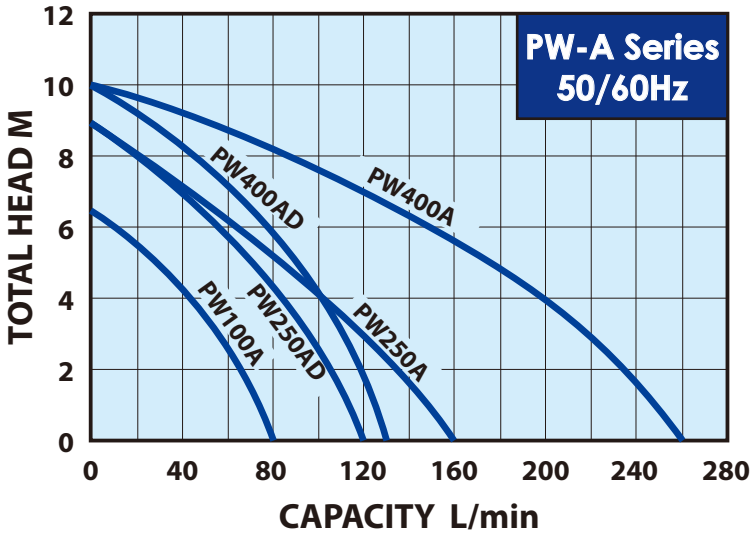
Level regulator

PW100AC / PW100ARC

Float ball level switch

PW100AF / PW100ARF
PW250AF
PW400AF / PW400ARF

Performance curve:



Specification:

Type	Outlet Diameter In. (mm)	Output W	Cycle Hz	Volt V		Amp's A		Maximum Head m	Maximum Capacity L/min	Dimensions L x W x H mm	Cable Wire C x mm² x m	N.W. kg	G.W. kg	
PW100A	1" (25)	100	50	220 - 240		1.0		6.5	80	155 x 140 x 241	3 x 0.75 x 4	4.1	4.7	72
			60	110	220	2.0	1.0							
PW250A	1½" (32)	250	50	220 - 240		2.0		9.0	160	164 x 164 x 350	3 x 1.25 x 5	5.1	5.5	48
			60	110	220	4.0	2.0							
PW400A	2" (50)	400	50	220 - 240		3.5		10	260	183 x 183 x 382	3 x 1.25 x 5	7.9	8.3	50
			60	110	220	7.0	3.5							
Sea water pump														
PW100AR	1" (25)	100	50	220 - 240		1.0		6.5	80	155 x 140 x 241	3 x 0.75 x 4	4.1	4.7	72
			60	110	220	2.0	1.0							
PW400AR	2" (50)	400	50	220 - 240		3.5		10	260	183 x 183 x 382	3 x 1.25 x 5	7.9	8.3	50
			60	110	220	7.0	3.5							
Pump with level regulator														
PW100AC PW100ARC	1" (25)	100	50	220 - 240		1.0		6.5	80	220 x 140 x 241	3 x 0.75 x 4	4.6	5.1	48
			60	110	220	2.0	1.0							
Pump with float ball level switch.														
PW100AF PW100ARF	1" (25)	100	50	220 - 240		1.0		6.5	80	155 x 140 x 241	3 x 0.75 x 4	4.3	4.9	48
			60	110	220	2.0	1.0							
PW250AF	1½" (32)	250	50	220 - 240		2.0		9.0	160	164 x 164 x 350	3 x 1.25 x 5	5.3	5.7	48
			60	110	220	4.0	2.0							
PW400AF PW400ARF	2" (50)	400	50	220 - 240		3.5		10	260	183 x 183 x 382	3 x 1.25 x 5	8.1	8.5	50
			60	110	220	7.0	3.5							
Low Suction Pump (Drainage to 3 mm from floor)														
PW250AD	1½" (32)	250	50	220 - 240		2.0		9	120	164 x 164 x 350	3 x 1.25 x 5	5.6	6.0	48
			60	110	220	4.0	2.0							
PW400AD	2" (50)	400	50	220 - 240		3.5		10	130	183 x 183 x 384	3 x 1.25 x 5	8.4	8.8	50
			60	110	220	7.0	3.5							

TPHP Series Multistage Centrifugal Pump

50Hz

Power: 0.38- 1.2 kW

Head: Up to 55M

Flow: Up to 140 L/min

60Hz

Power: 0.54- 1.8 kW

Head: Up to 75M

Flow: Up to 140 L/min

Outlet: 1" -1¼"

Applications:

The TPHP pumps are primarily designed for industrial applications:

Water supply and pressure boosting

Air-conditioning

Water treatment

Heating and cooling in industrial processes

Industrial washing and dish-washing machines

Softened water

Pressure boosting of process water

Fertilizer/dosing systems

Operation Conditions:

1. Ambient temperature :Max. +40°C
2. Liquid temperature range:+0°C ~ +90°C
3. Operating pressure:Max. 10 kg/cm^2
4. Inlet pressure:Max. 6 kg/cm^2

Pump Construction:

Horizontal, multistage centrifugal pump of the non selfpriming type with extended pump/motor shaft and fitted with a mechanical shaft seal.

Compact pump unit with small physical dimensions, axial suction port and radial discharge port.

Pumped liquids

Thin, clean and non-explosive liquids without solid particles or fibres.

The pumps are able to pump liquids such as demineralised water, softened water, cleaning solutions and light oils.

When pumping liquids with a density and/or viscosity higher than that of water, motors with correspondingly higher outputs must be used, if required.

Whether a pump is suitable for a particular liquid depends on a number of factors of which the most important are chloride content, pH value, temperature and content of solvents, oils, etc.

Motor

Enclosure protection class: IP54

Insulation class: F.

Frequency range: 50 / 60 Hz

Nominal speed : 2900 / 3500 rpm

Standard voltages: 3Ø 200-240 / 380-440V, 50Hz

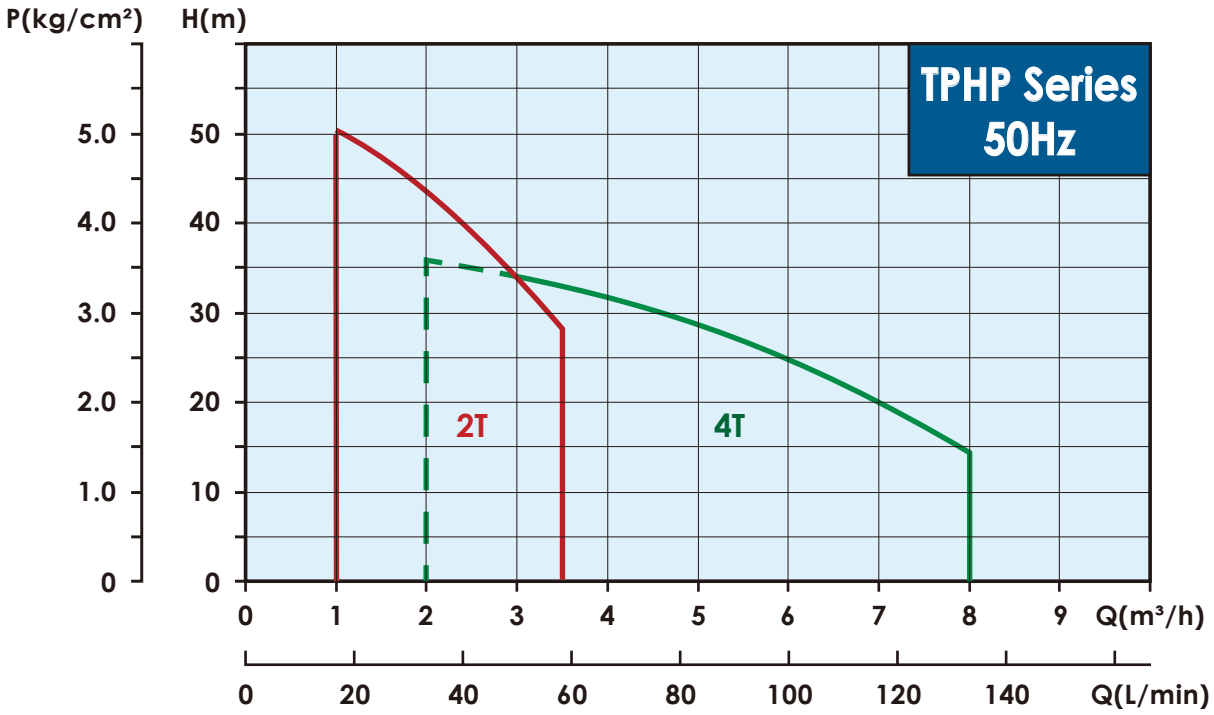
3Ø 200-255 / 380-480V, 60Hz

Model code:

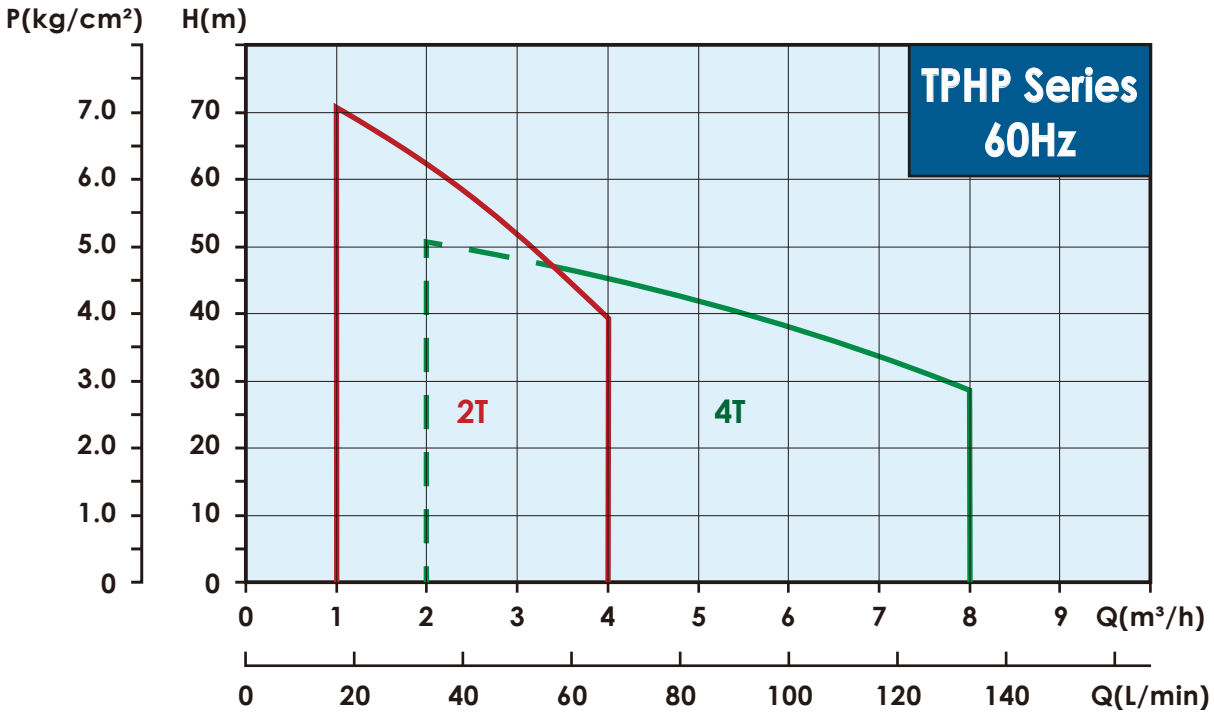
TPHP 4T 2K

- **Nominal head (kg/cm^2)**
- **Nominal flow rate (m^3/hr)**
- **Model type**

Performance curve (50Hz)



Performance curve (60Hz)

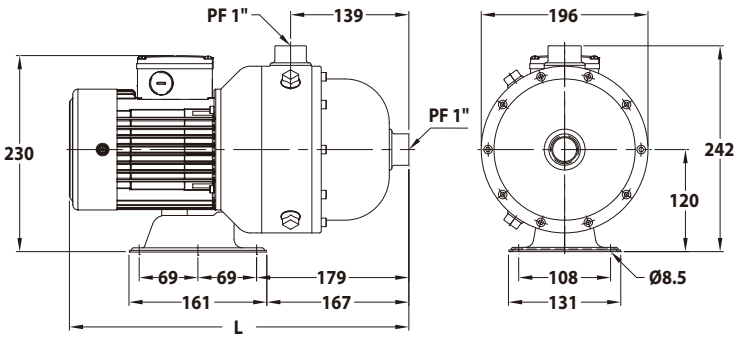


TPHP 2T

Electrical data, 50/60Hz

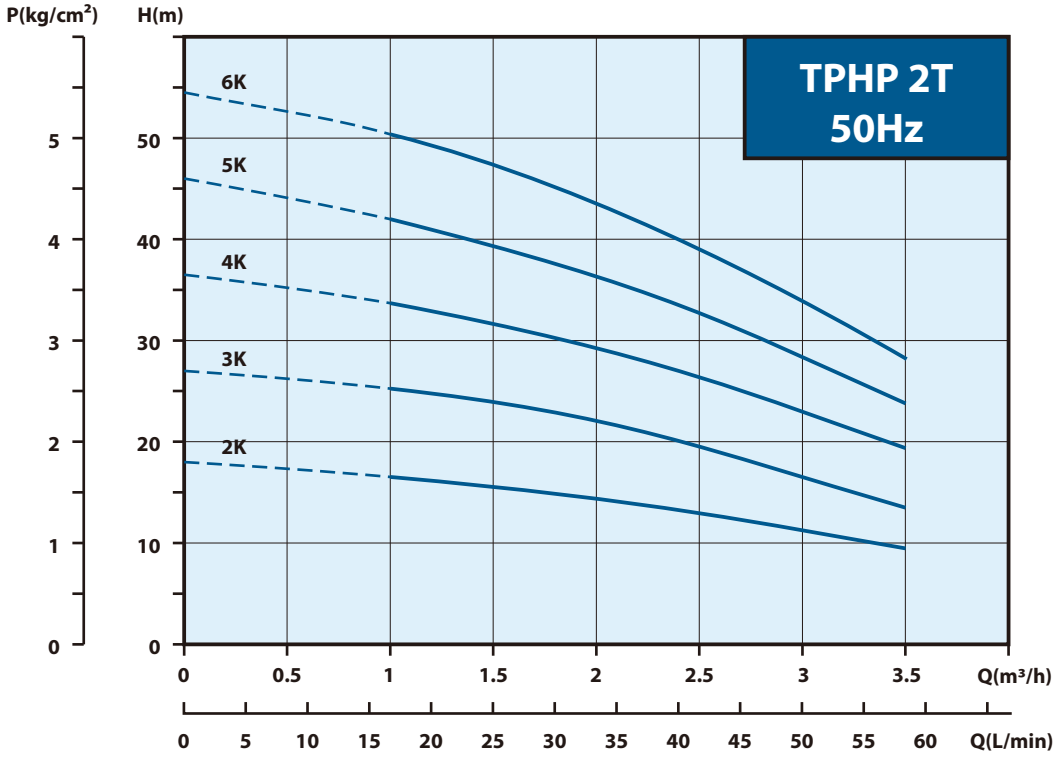
Model	PH (Ø)	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPHP 2T 2K	3	50	200-240 / 380-440	380	1.7-2.2 / 1.1-1.4
		60	200-255 / 380-480	540	1.9-2.0 / 1.2-1.2
TPHP 2T 3K	3	50	200-240 / 380-440	500	1.9-2.3 / 1.2-1.5
		60	200-255 / 380-480	740	2.4-2.3 / 1.4-1.4
TPHP 2T 4K	3	50	200-240 / 380-440	620	2.2-2.4 / 1.3-1.6
		60	200-255 / 380-480	930	2.9-2.7 / 1.6-1.6
TPHP 2T 5K	3	50	200-240 / 380-440	810	2.9-3.8 / 1.8-2.6
		60	200-255 / 380-480	1170	3.7-3.6 / 2.2-2.2
TPHP 2T 6K	3	50	200-240 / 380-440	920	3.2-3.9 / 1.9-2.7
		60	200-255 / 380-480	1350	4.2-4.0 / 2.4-2.4

Dimensions (mm)

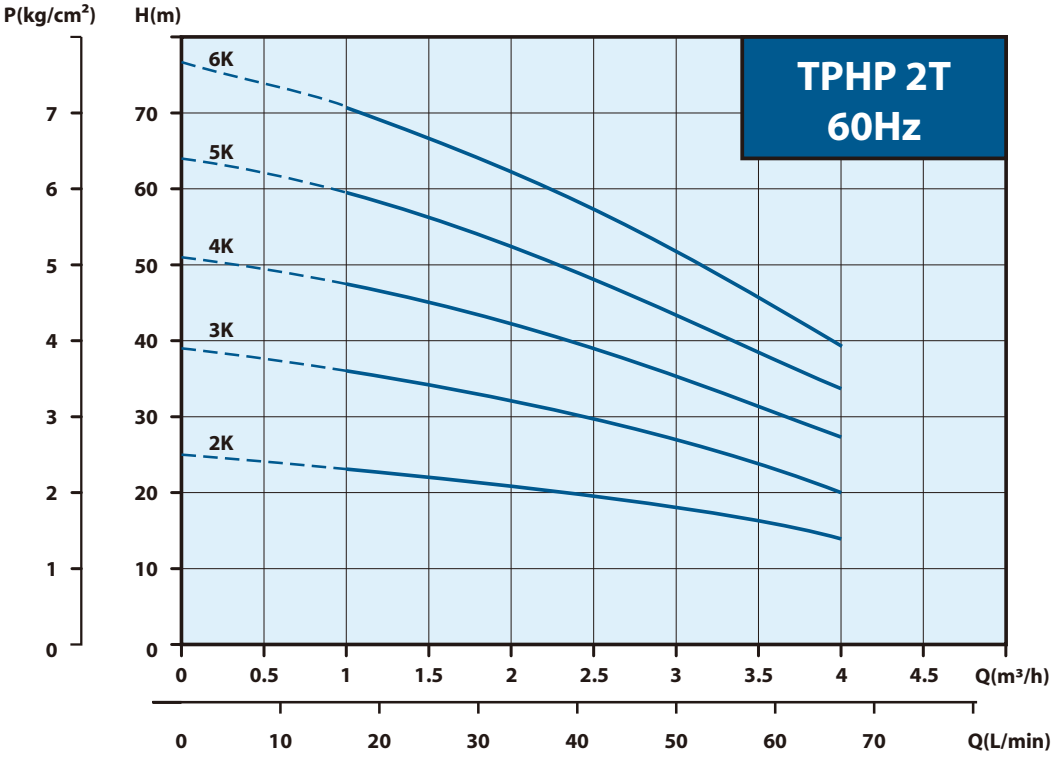


Model	L(mm)	N.W.(kg)	
TPHP 2T 2K	400	11.6	24 pcs
TPHP 2T 3K	400	11.8	
TPHP 2T 4K	400	12.0	
TPHP 2T 5K	440	13.1	
TPHP 2T 6K	440	13.3	

Performance curve (50Hz)



Performance curve (60Hz)

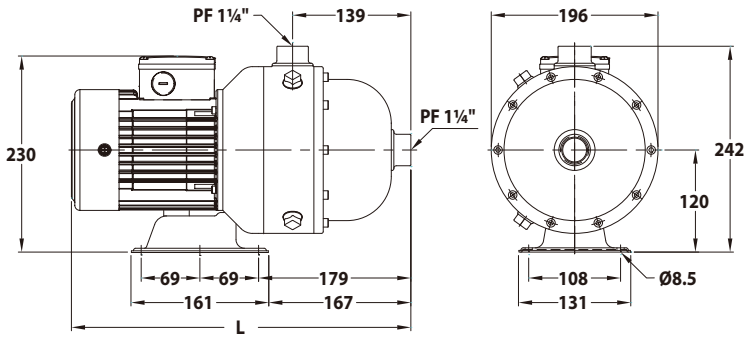


TPHP 4T

Electrical data, 50/60Hz

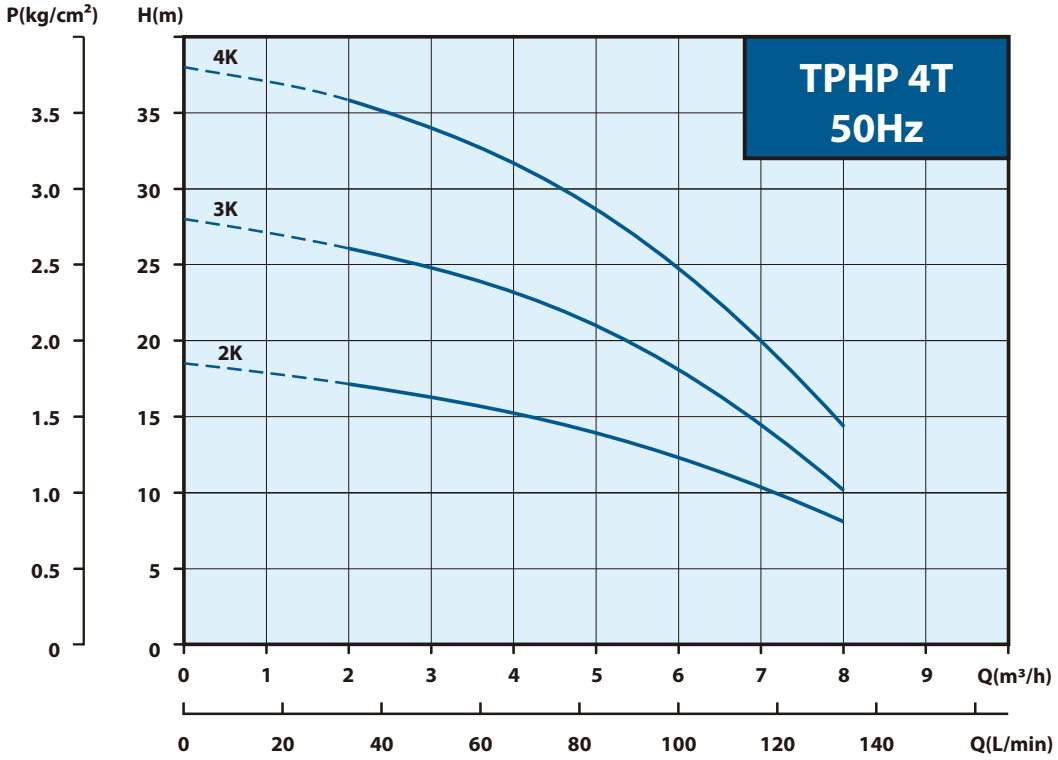
Model	PH (Ø)	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPHP 4T 2K	3	50	200-240 / 380-440	670	2.3-2.5 / 1.4-1.6
		60	200-255 / 380-480	1000	3.1-2.8 / 1.7-1.7
TPHP 4T 3K	3	50	200-240 / 380-440	960	3.3-4.1 / 2.0-2.7
		60	200-255 / 380-480	1420	4.4-4.1 / 2.5-2.5
TPHP 4T 4K	3	50	200-240 / 380-440	1200	4.0-4.7 / 2.4-3.1
		60	200-255 / 380-480	1800	5.5-5.1 / 3.0-3.0

Dimensions (mm)

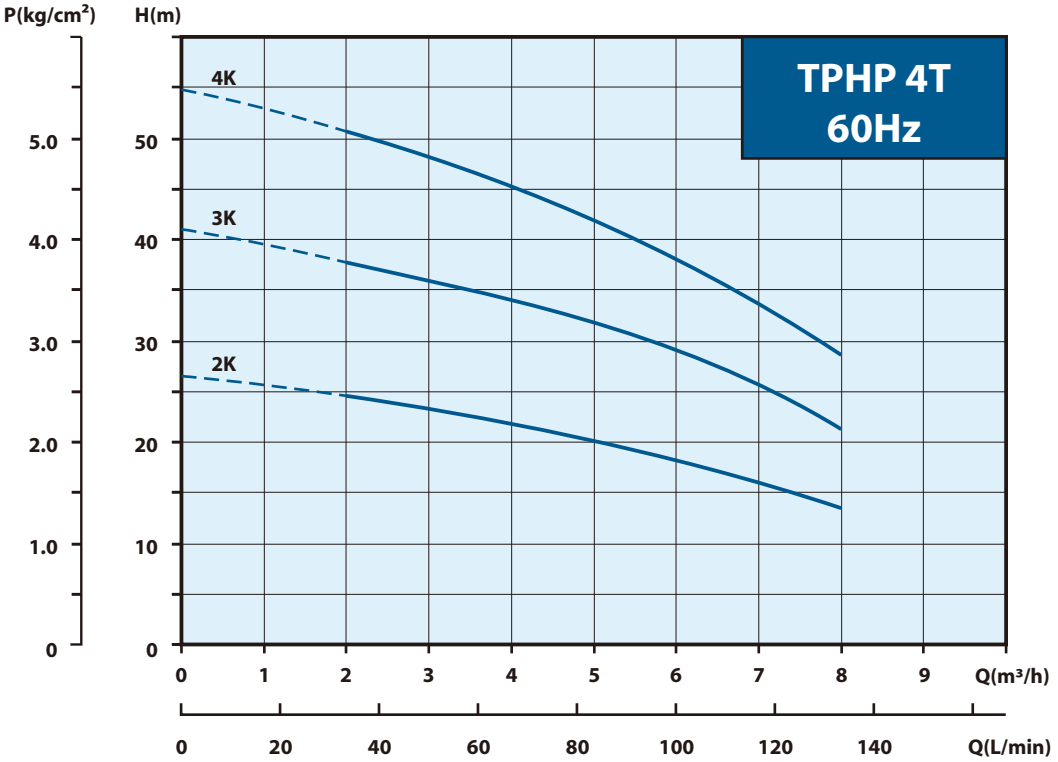


Model	L(mm)	N.W.(kg)	
TPHP 4T 2K	400	11.8	24 pcs
TPHP 4T 3K	440	12.9	
TPHP 4T 4K	440	13.5	

Performance curve (50Hz)



Performance curve (60Hz)



TPH Series Multistage Centrifugal Pump

50Hz

Power: 0.42 - 11.6 kW

Head: Up to 70M

Flow: Up to 1200 L/min

60Hz

Power: 0.37 - 14.2 kW

Head: Up to 80M

Flow: Up to 1400 L/min

Outlet: 1" - 4"

Applications:

The WALRUS TPH Series is horizontal multistage centrifugal pump, suitable for clean water/liquid without abrasive matters. The applications are versatile, such as pressure boosting, transfer, circulation, and machinery.

- Industrial circulation system
- Washing/cleaning system
- Pressure booster system
- Water/liquid transfer
- Agricultural irrigation

Operation Conditions:

1. Ambient temperature :Max. +40°C
2. Liquid temperature range:+0°C ~ +90°C
3. Operating pressure:Max. 10 kg/cm^2
4. Inlet pressure:Max. 6 kg/cm^2

Pump Construction:

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

Standard Mode:

TPH 4T 2K

- Nominal head (kg/cm^2)
- Nominal flow rate (m^3/hr)
- Model type

Code

TPH 4T 2K S F A H

- Insulation class: H.
- Air conditioning (IP 44)
- Flange type
- S: SUS 304 (2T/4T/8T/12T)
- N: SUS 316 (2T/4T/25T/50T)
- Standard mode

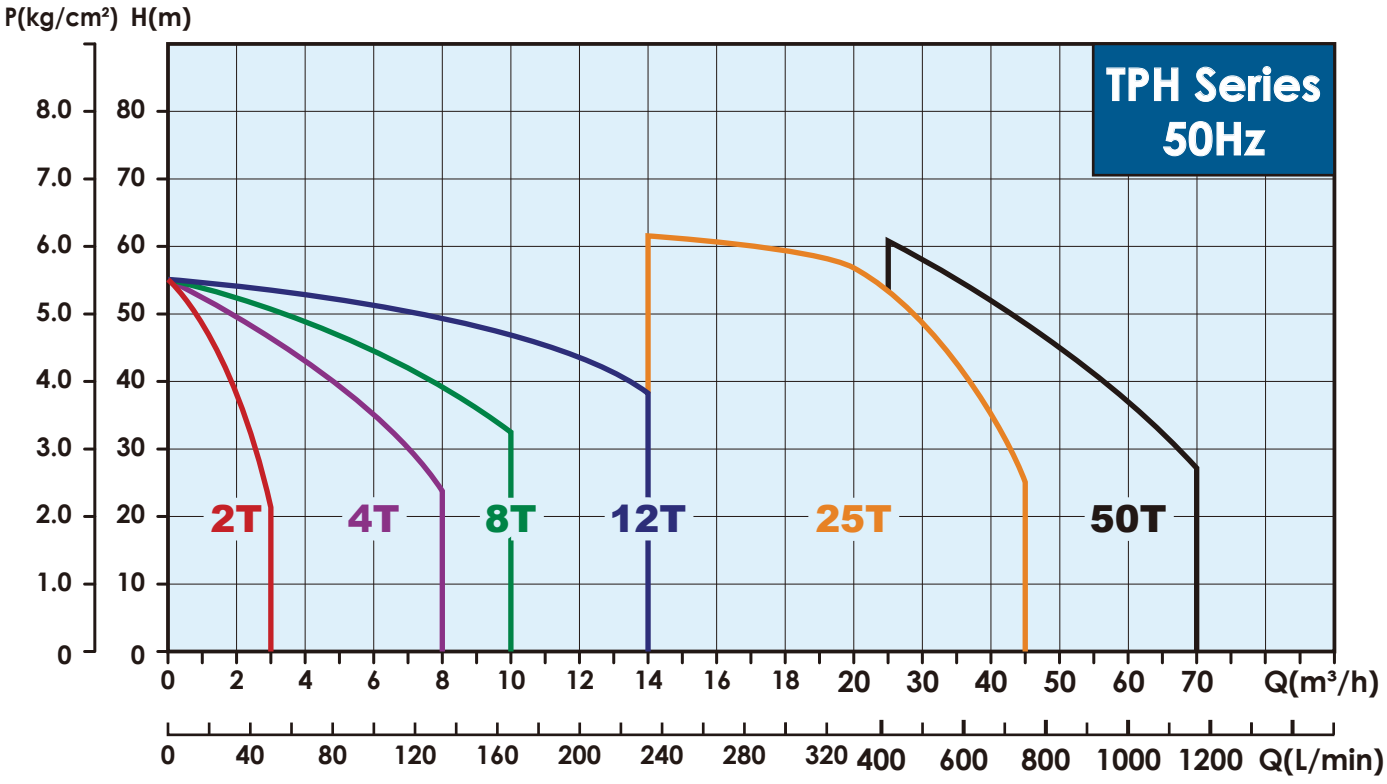
Motor

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

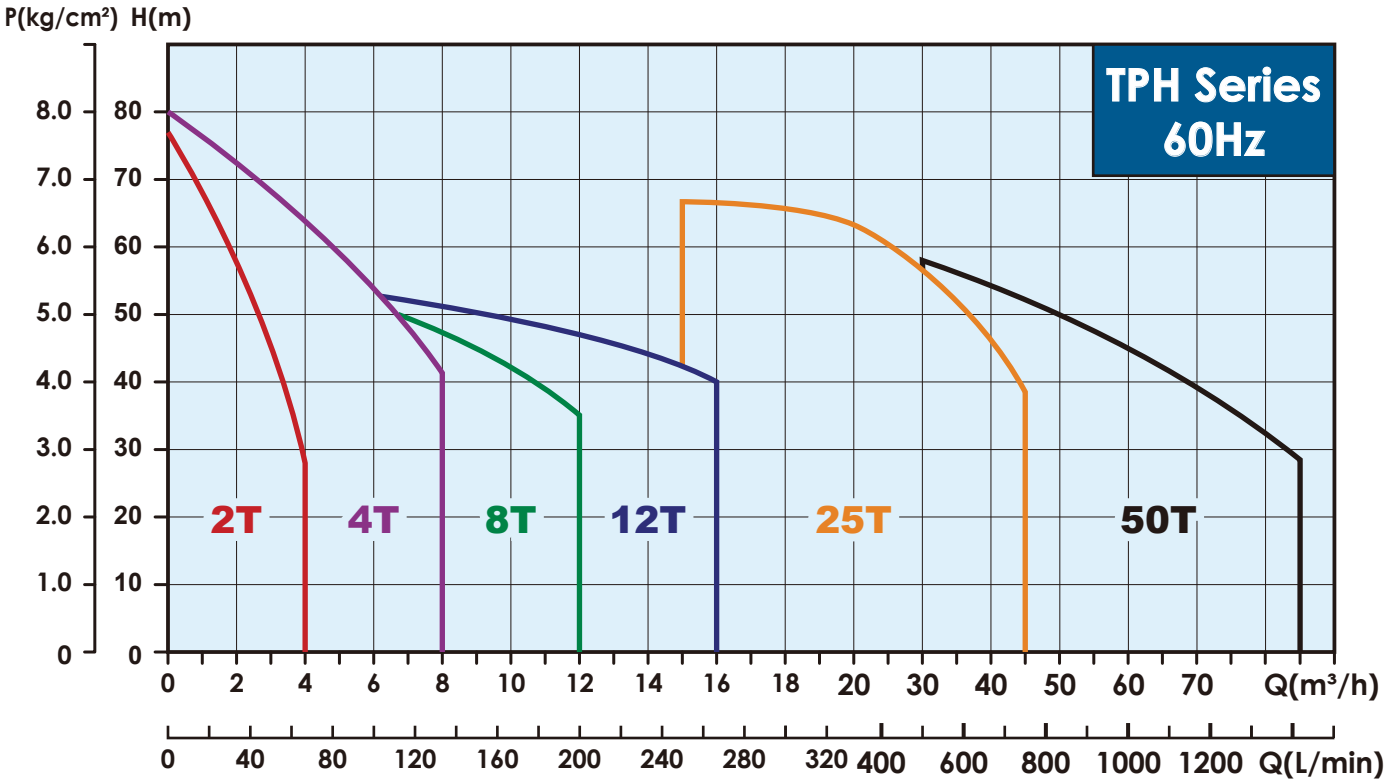
Code	PH	50Hz	60Hz
1B	1	-	220V
1R	1	200-240V	-
3Q	3	200-240/380-440V	-
3Z*	3	200-255/380-440V	200-255/380-480V
4U*	3	200-240/380-415V	200-240/380-440V
6Q	3	-	200-240/380-440V
6Z	3	-	200-255/380-480V

Optional : 50hz, 60hz models are available on request.
* The motor can be use in both 50/60 hz.

Performance curve (50Hz)



Performance curve (60Hz)



TPH 2T

Electrical data, 50Hz

Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 2T 2K	1	1R	50	200-240	450	2.4
	3	3Q	50	200-240 / 380-440	420	2.0 / 1.3
TPH 2T 3K	1	1R	50	200-240	500	2.5
	3	3Q	50	200-240 / 380-440	520	2.2 / 1.4
TPH 2T 4K	1	1R	50	200-240	600	2.9
	3	3Q	50	200-240 / 380-440	590	2.3 / 1.4
TPH 2T 5K	1	1R	50	200-240	760	4.0
	3	3Q	50	200-240 / 380-440	680	3.0 / 1.9
TPH 2T 6K	1	1R	50	200-240	880	4.3
	3	3Q	50	200-240 / 380-440	860	3.1 / 2.0

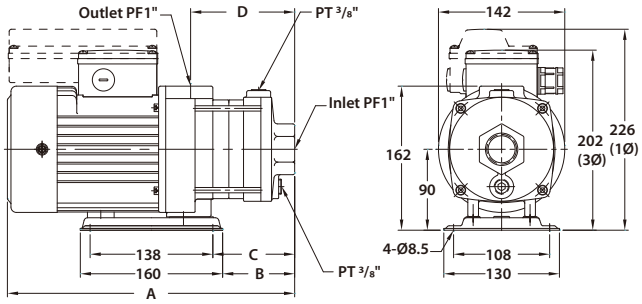
Electrical data, 50/60Hz

Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 2T 1K	3	3Z	50	200-255 / 380-440	340	1.6-2.8 / 1.0-1.5
			60	200-255 / 380-480	370	1.5-1.9 / 1.0-1.3
TPH 2T 2K	3	3Z	50	200-255 / 380-440	450	1.9-2.8 / 1.2-1.5
			60	200-255 / 380-480	560	2.1-2.2 / 1.5-1.5
TPH 2T 3K	3	3Z	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
TPH 2T 4K	3	3Z	50	200-255 / 380-440	620	2.2-2.9 / 1.4-1.7
			60	200-255 / 380-480	910	3.0-2.9 / 1.7-1.7
TPH 2T 5K	3	3Z	50	200-255 / 380-440	700	2.4-3.0 / 1.4-1.6
			60	200-255 / 380-480	1060	3.3-3.0 / 1.8-1.8
TPH 2T 6K	3	3Z	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

Electrical data, 60Hz

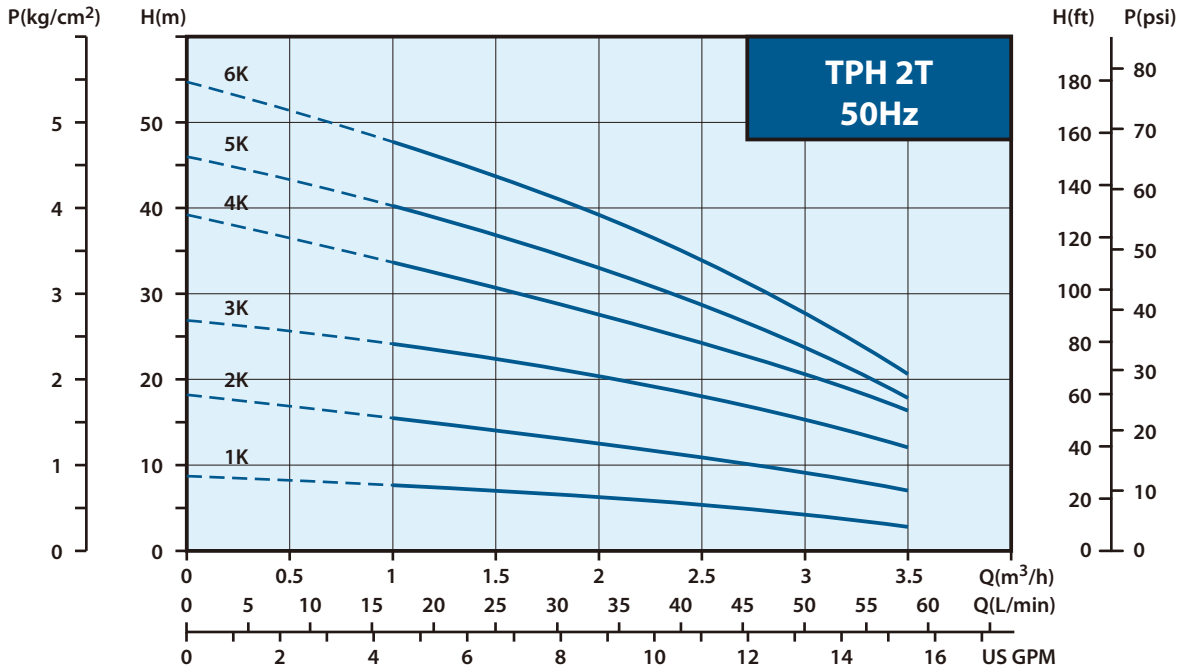
Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 2T 1K	1	1B	60	220	450	2.1
TPH 2T 2K	1	1B	60	220	760	4.3
TPH 2T 3K	1	1B	60	220	900	4.8
TPH 2T 4K	1	1B	60	220	1030	5.3
TPH 2T 5K	1	1B	60	220	1300	6.3
TPH 2T 6K	1	1B	60	220	1500	7.0

Dimensions (mm)

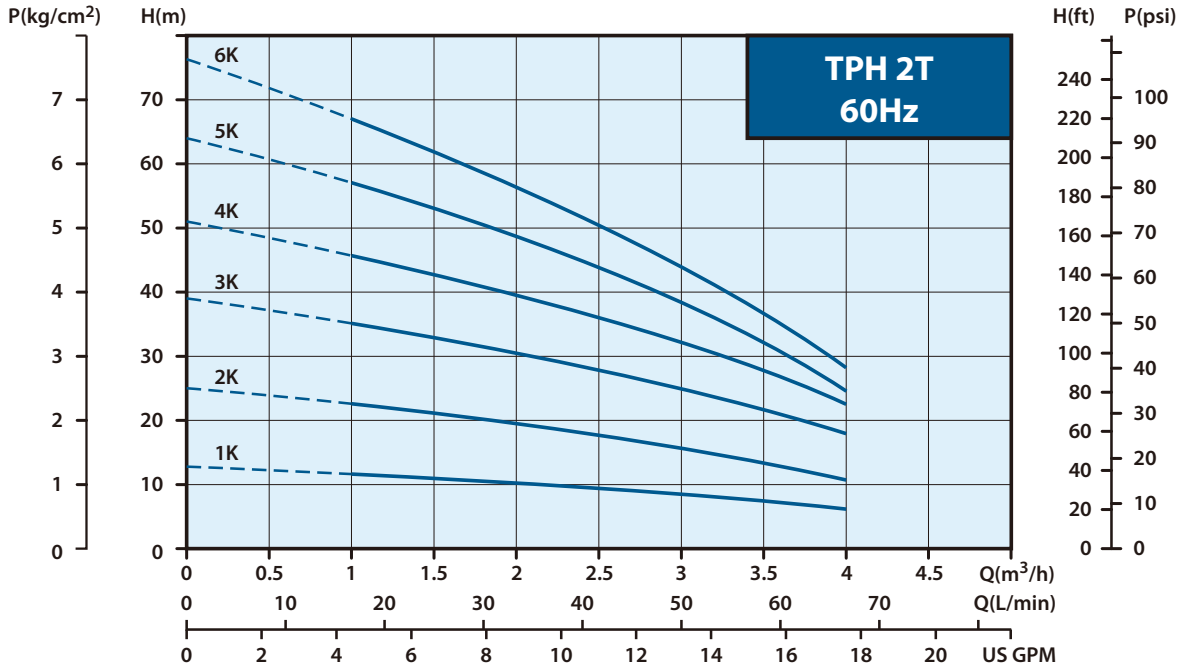


Model	A(mm)	B(mm)	C(mm)	D(mm)	N.W.(kg)	
TPH 2T 1K	305	63	74	99	11.7	36 pcs
TPH 2T 2K	305	63	74	99	11.8	
TPH 2T 3K	323	81	92	117	11.9	
TPH 2T 4K	341	99	110	135	12.0	
TPH 2T 5K	399	117	128	153	13.5	30 pcs
TPH 2T 6K	417	135	146	171	13.6	

Performance curve (50Hz)



Performance curve (60Hz)



TPH 4T

Electrical data, 50Hz

Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 4T 2K	1	1R	50	200-240	600	3.1-2.9
	3	3Q	50	200-240 / 380-440	600	2.3 / 1.4
TPH 4T 3K	1	1R	50	200-240	950	4.5
	3	3Q	50	200-240 / 380-440	830	3.3 / 2.1
TPH 4T 4K	1	1R	50	200-240	1200	5.7
	3	3Q	50	200-240 / 380-440	1010	3.7 / 2.2
TPH 4T 5K	1	1R	50	200-240	1370	6.9
	3	3Q	50	200-240 / 380-440	1300	4.1 / 2.4
TPH 4T 6K	1	1R	50	200-240	1470	7.7
	3	3Q	50	200-240 / 380-440	1640	5.5 / 3.5

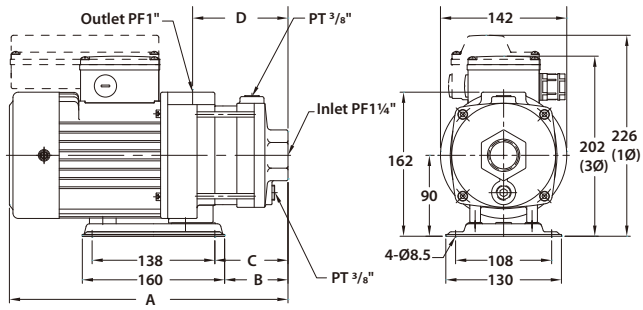
Electrical data, 50/60Hz

Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 4T 2K	3	3Z	50	200-255 / 380-440	650	2.2-2.9 / 1.4-1.7
			60	200-255 / 380-480	960	3.0-2.7 / 1.7-1.7
TPH 4T 3K	3	3Z	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
TPH 4T 4K	3	4U	50	200-240 / 380-415	1080	3.4-3.5 / 2.0-2.0
			60	200-240 / 380-440	1620	4.5-5.0 / 2.9-2.9
TPH 4T 5K	3	4U	50	200-240 / 380-415	1440	4.9-6.8 / 3.0-3.8
			60	200-240 / 380-440	2100	6.2-6.0 / 3.5-3.5
TPH 4T 6K	3	4U	50	200-240 / 380-415	1740	6.3-9.9 / 4.2-5.5
			60	200-240 / 380-440	2400	7.7-7.6 / 4.5-4.5

Electrical data, 60Hz

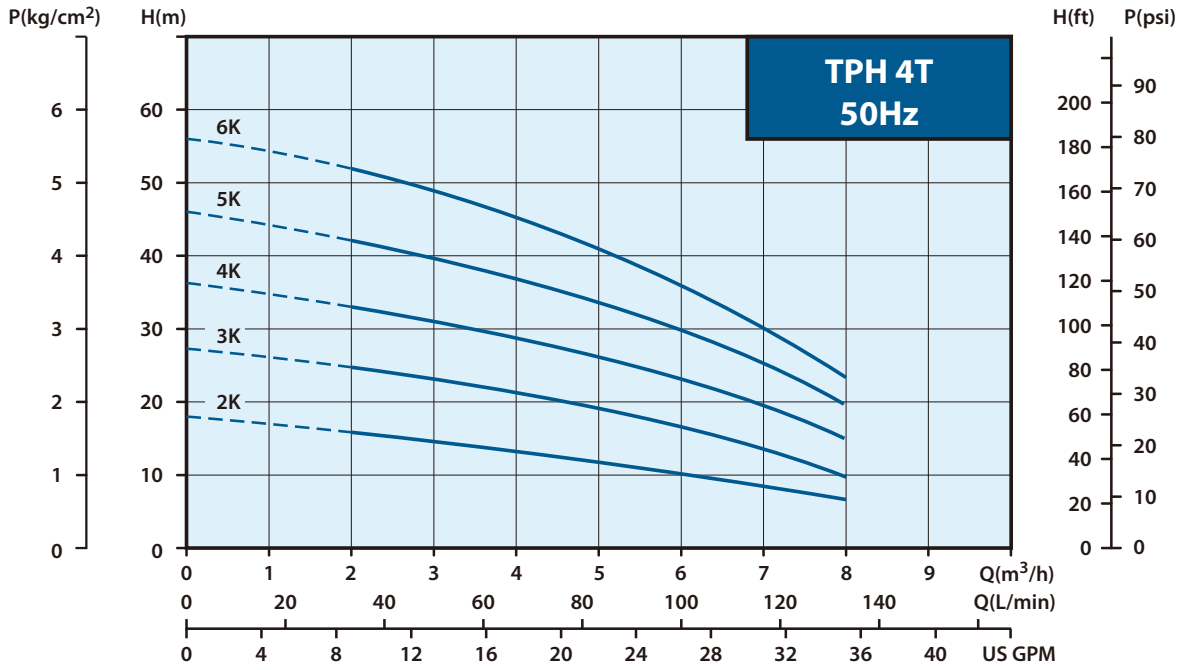
Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 4T 2K	1	1B	60	220	1030	5.3
TPH 4T 3K	1	1B	60	220	1500	7.0
TPH 4T 4K	1	1B	60	220	1760	8.6
TPH 4T 5K	1	1B	60	220	2100	10.0
TPH 4T 6K	1	1B	60	220	2600	12.0

Dimensions (mm)

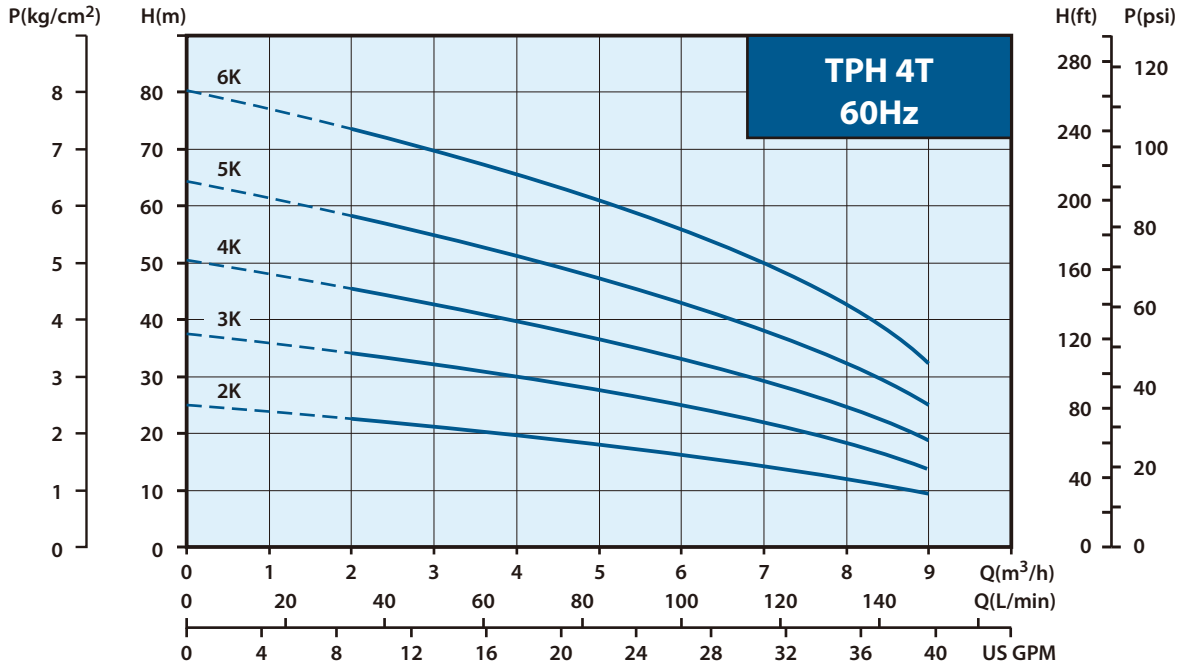


Model	A(mm)	B(mm)	C(mm)	D(mm)	N.W.(kg)	36 pcs
TPH 4T 2K	315	73	84	109	11.7	
TPH 4T 3K	381	99	110	135	13.3	30 pcs
TPH 4T 4K	408	126	137	162	14.1	
TPH 4T 5K	435	153	164	189	14.2	
TPH 4T 6K	493	181	192	217	16.1	

Performance curve (50Hz)



Performance curve (60Hz)



TPH 8T

Electrical data, 50Hz

Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 8T 2K	1	1R	50	200-240	900	4.3
	3	3Q	50	200-240 / 380-440	810	3.0 / 1.9
TPH 8T 3K	1	1R	50	200-240	1300	6.3
	3	3Q	50	200-240 / 380-440	1110	3.3 / 2.1
TPH 8T 4K	1	1R	50	200-240	1520	7.6
	3	3Q	50	200-240 / 380-440	1600	5.6 / 3.5
TPH 8T 5K	3	3Q	50	200-240 / 380-440	2000	6.0 / 3.6
TPH 8T 6K	3	3Q	50	200-240 / 380-440	2230	6.7 / 3.9

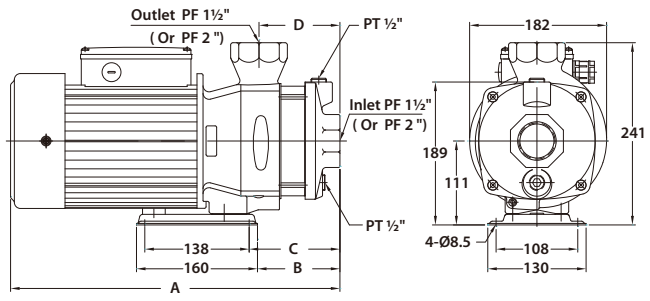
Electrical data, 50/60Hz

Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 8T 2K	3	3Z	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
TPH 8T 2.5K	3	4U	50	200-240 / 380-415	980	3.1-3.3 / 1.8-2.0
			60	200-240 / 380-440	1460	4.4-4.1 / 2.4-2.4
TPH 8T 3K	3	4U	50	200-240 / 380-415	1400	4.9-6.8 / 3.0-3.8
			60	200-240 / 380-440	2100	6.2-6.0 / 3.5-3.5
TPH 8T 4K	3	4U	50	200-240 / 380-415	1780	5.5-8.7 / 3.8-4.9
			60	200-240 / 380-440	2460	7.6-7.2 / 4.4-4.4
TPH 8T 5K	3	4U	50	200-240 / 380-415	2000	5.9-8.5 / 3.8-5.0
			60	200-240 / 380-440	2700	8.1-7.8 / 4.6-4.6

Electrical data, 60Hz

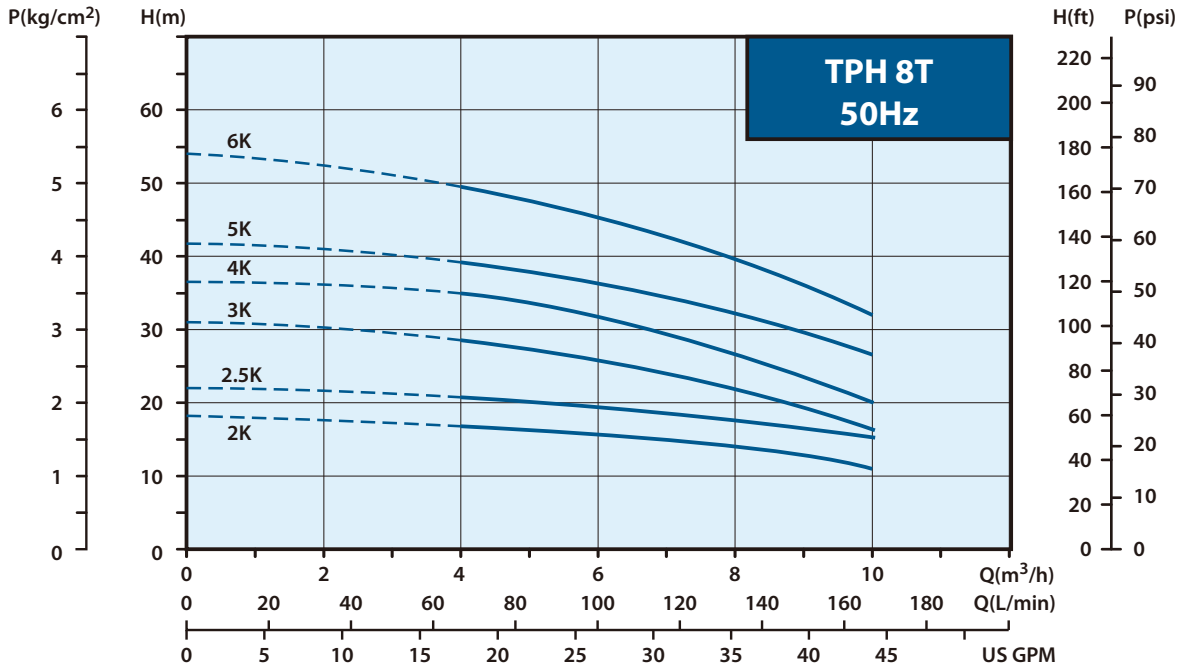
Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 8T 2K	1	1B	60	220	1500	7.0
TPH 8T 2.5K	1	1B	60	220	1720	8.7
TPH 8T 3K	1	1B	60	220	1970	10.0

Dimensions (mm)

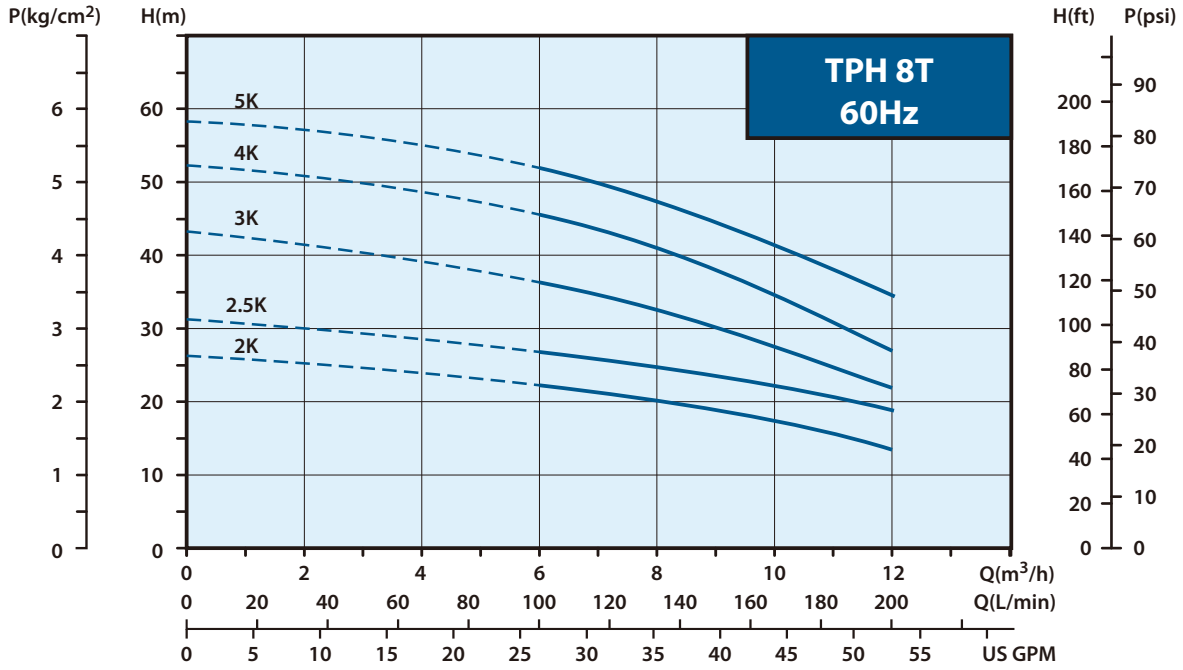


Model	A(mm)	B(mm)	C(mm)	D(mm)	N.W.(kg)	
TPH 8T 2K	375	77	88	75	18.8	24 pcs
TPH 8T 2.5 K	407	109	120	107	19.5	
TPH 8T 3K	407	109	120	107	20.0	
TPH 8T 4K	435	109	120	107	25.4	
TPH 8T 5K	473	143	154	141	25.5	
TPH 8T 6K	473	143	154	141	25.5	

Performance curve (50Hz)



Performance curve (60Hz)



TPH 12T

Electrical data, 50Hz

Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 12T 2K	1	1R	50	200-240	1380	6.5
	3	3Q	50	200-240 / 380-440	1140	3.6 / 2.1
TPH 12T 3K	1	1R	50	200-240	1700	7.9
	3	3Q	50	200-240 / 380-440	1580	5.8 / 3.6
TPH 12T 4K	3	3Q	50	200-240 / 380-440	2500	7.1 / 4.1
TPH 12T 5K	3	3Q	50	200-240 / 380-440	3050	10.8 / 6.8
TPH 12T 6K	3	3Q	50	200-240 / 380-440	3700	11.3 / 7.0

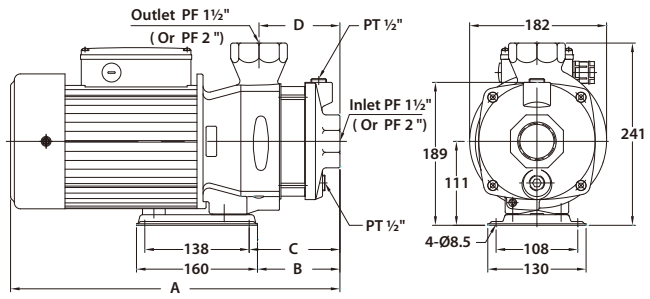
Electrical data, 50/60Hz

Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 12T 1K	3	3Z	50	200-255 / 380-440	600	2.2-2.9 / 1.4-1.7
			60	200-255 / 380-480	860	2.6-2.6 / 1.7-1.7
TPH 12T 2K	3	4U	50	200-240 / 380-415	1500	4.9-6.8 / 3.0-3.8
			60	200-240 / 380-440	2200	6.2-6.0 / 3.5-3.5
TPH 12T 3K	3	4U	50	200-240 / 380-415	2000	6.2-8.8 / 3.9-5.0
			60	200-240 / 380-440	2900	8.8-8.0 / 4.9-4.9
TPH 12T 4K	3	4U	50	200-240 / 380-415	2900	9.0-13.1 / 5.8-7.9
			60	200-240 / 380-440	4100	12.4-11.2 / 6.7-6.7

Electrical data, 60Hz

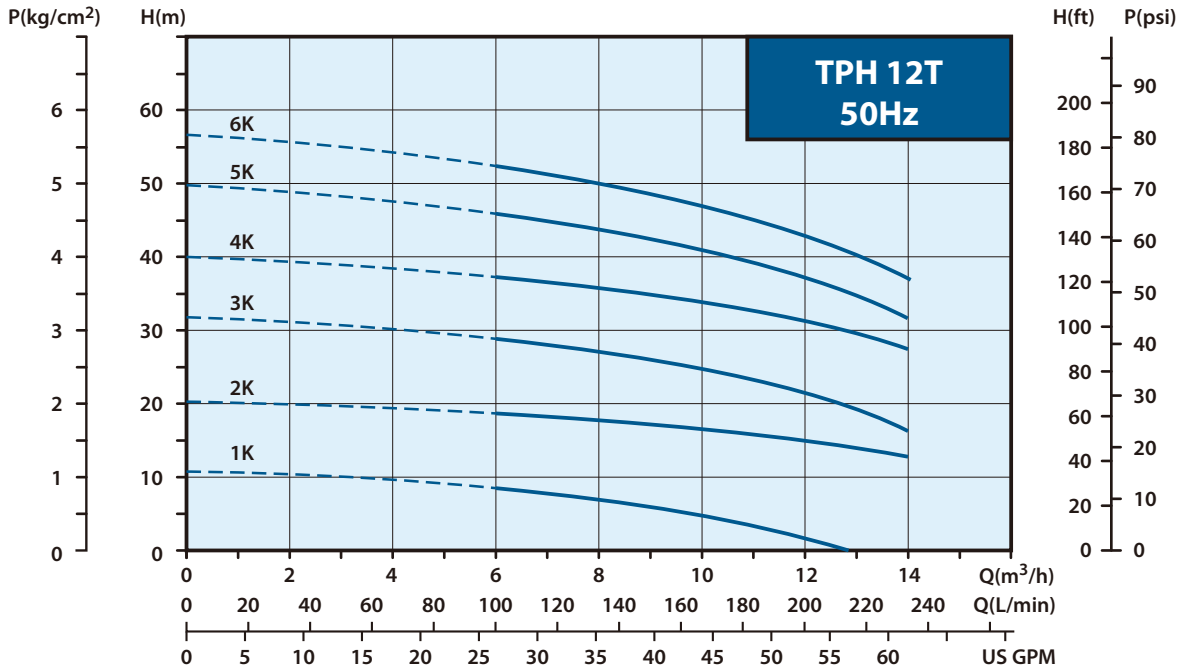
Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 12T 1K	1	1B	60	220	1030	5.3
TPH 12T 2K	1	1B	60	220	2200	11.2

Dimensions (mm)

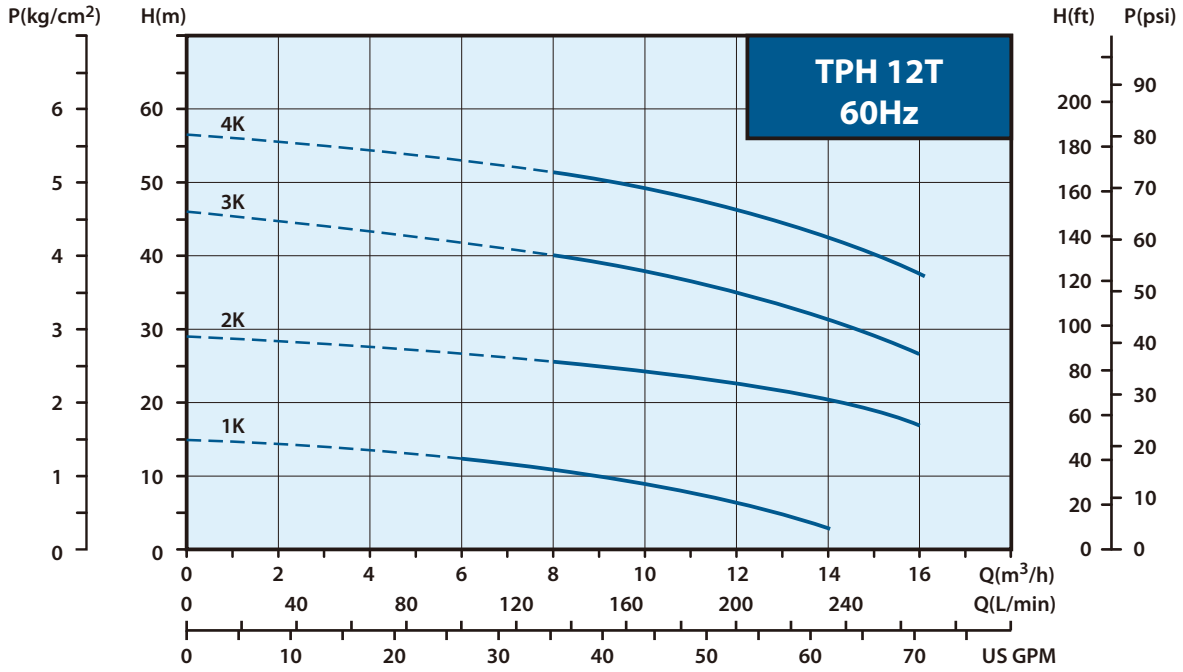


Model	A(mm)	B(mm)	C(mm)	D(mm)	N.W.(kg)	
TPH 12T 1K	335	77	88	75	17.6	24 pcs
TPH 12T 2K	375	77	88	75	20.0	
TPH 12T 3K	435	109	120	107	25.4	
TPH 12T 4K	435	109	120	107	28.0	
TPH 12T 5K	473	143	154	141	29.2	
TPH 12T 6K	473	143	154	141	29.2	

Performance curve (50Hz)



Performance curve (60Hz)

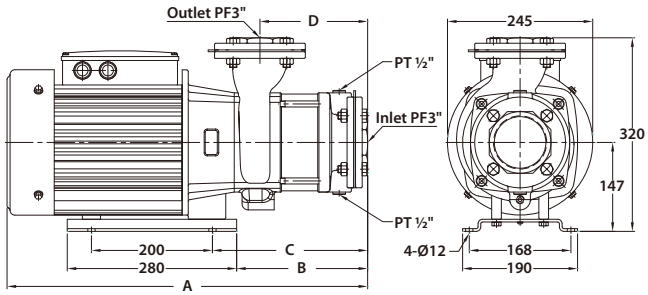


TPH 25T

Electrical data, 50Hz

Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 25T 2KF	3	3Q	50	200-240 / 380-440	4000	12.0 / 6.5
TPH 25T 3KF	3	3Q	50	200-240 / 380-440	4800	15.6 / 10.0
TPH 25T 4KF	3	3Q	50	200-240 / 380-440	5700	18.0 / 11.3
TPH 25T 5KF	3	3Q	50	200-240 / 380-440	7800	24.1 / 13.9

Dimensions (mm), 50Hz

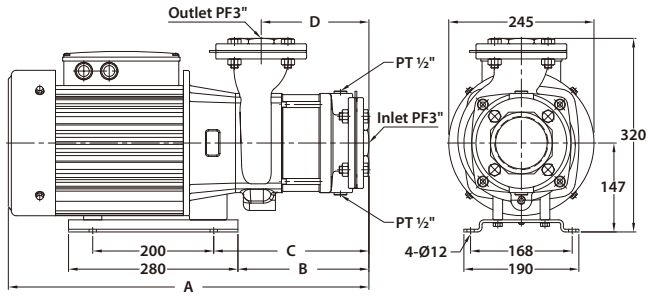


Model	A(mm)	B(mm)	C(mm)	D(mm)	N.W.(kg)
TPH 25T2KF	596	216.5	256.5	180	53.0
TPH 25T3KF	656	276.5	316.5	240	58.8
TPH 25T4KF	656	276.5	316.5	240	59.0
TPH 25T5KF	766	336.5	376.5	300	71.0

Electrical data, 60Hz

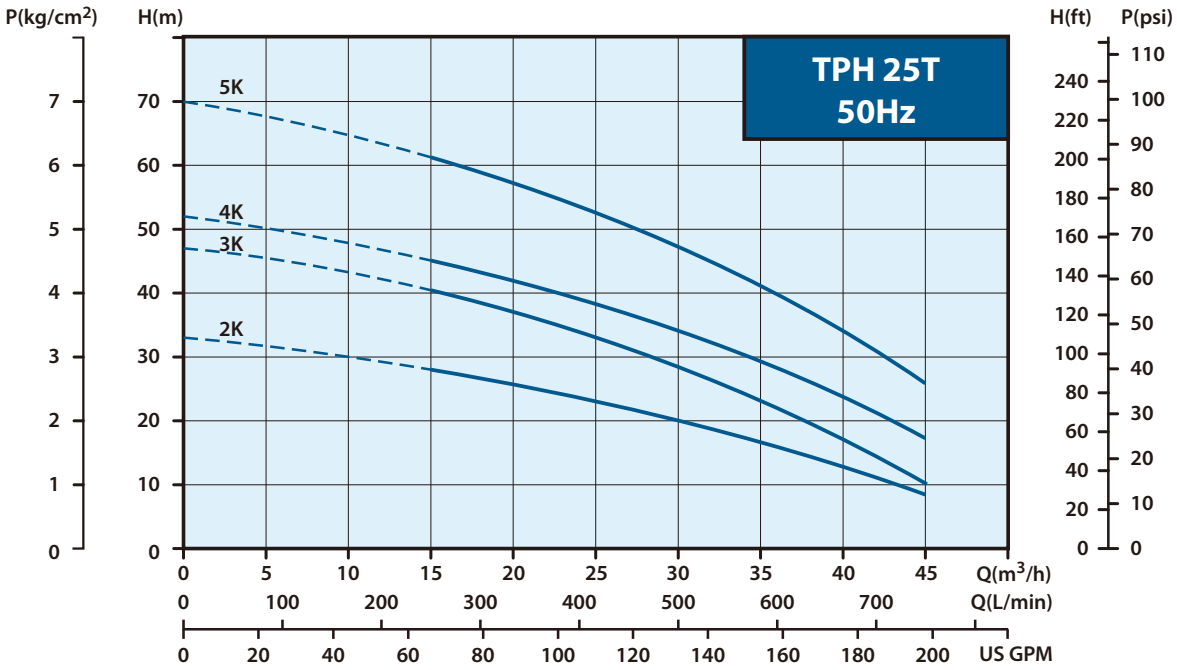
Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 25T 2KF	3	6Z	60	200-255 / 380-480	4000	12.9-10.5 / 7.3-5.8
TPH 25T 3KF	3	6Z	60	200-255 / 380-480	5100	15.6-13.1 / 8.7-8.2
TPH 25T 4KF	3	6Z	60	200-255 / 380-480	7200	21.2-20.5 / 12.3-12.5
TPH 25T 5KF	3	6Z	60	200-255 / 380-480	8000	25.6-22.4 / 13.7-13.2
TPH 25T 6KF	3	6Z	60	200-255 / 380-480	10200	31.2-27.5 / 17.5-15.8

Dimensions (mm), 60Hz

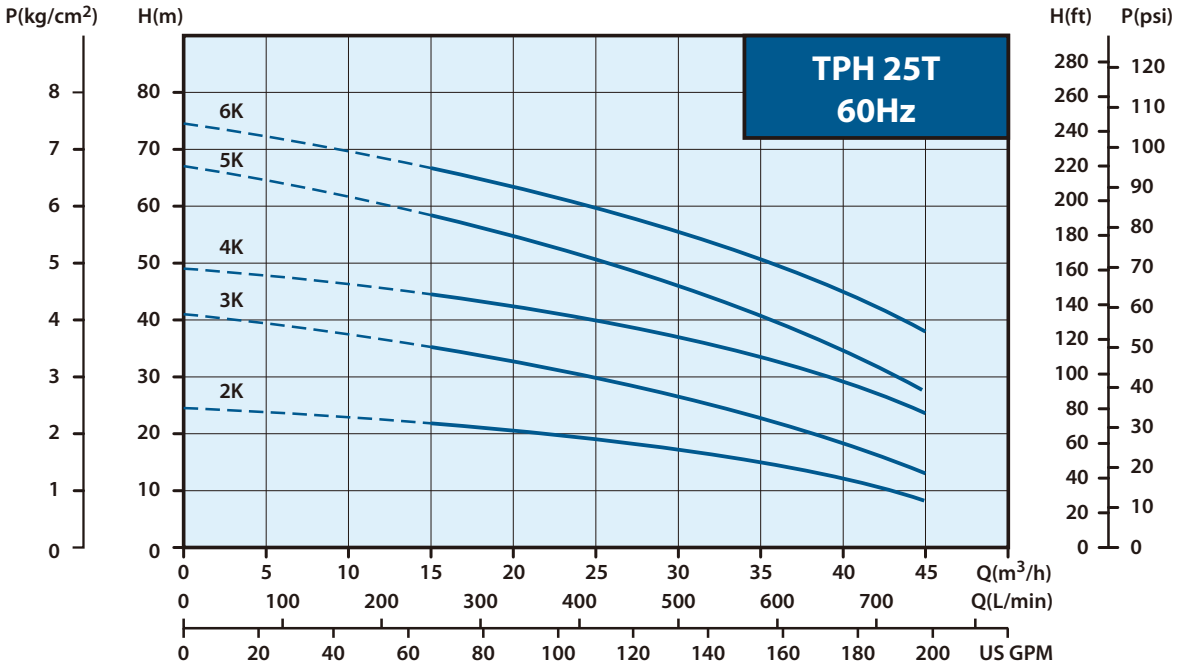


Model	A(mm)	B(mm)	C(mm)	D(mm)	N.W.(kg)
TPH 25T2KF	536	156.5	196.5	120	51.0
TPH 25T3KF	596	216.5	256.5	180	56.8
TPH 25T4KF	596	216.5	256.5	180	57.0
TPH 25T5KF	706	276.5	316.5	240	68.8
TPH 25T6KF	706	276.5	316.5	240	69.0

Performance curve (50Hz)



Performance curve (60Hz)

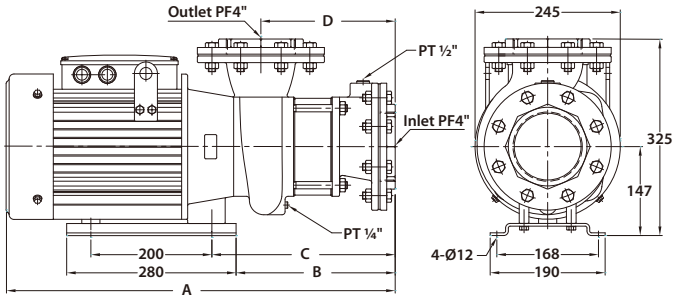


TPH 50T

Electrical data, 50Hz

Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 50 T 2 KF	3	3Q	50	200-240 / 380-440	6600	20.3-19.2 / 11.2-12.9
TPH 50 T 3 KF	3	3Q	50	200-240 / 380-440	8700	26.0-22.6 / 14.4-14.8
TPH 50 T 4 KF	3	3Q	50	200-240 / 380-440	11600	36.3-30.8 / 19.8-20.4

Dimensions (mm), 50Hz

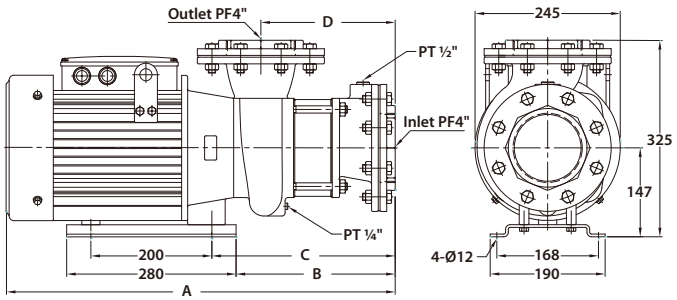


Model	A(mm)	B(mm)	C(mm)	D(mm)	N.W.(kg)
TPH 50T 2KF	642.5	263	303	222	61.5
TPH 50T 3KF	752.5	323	363	282	80.6
TPH 50T 4KF	802.5	323	363	282	88.0

Electrical data, 60Hz

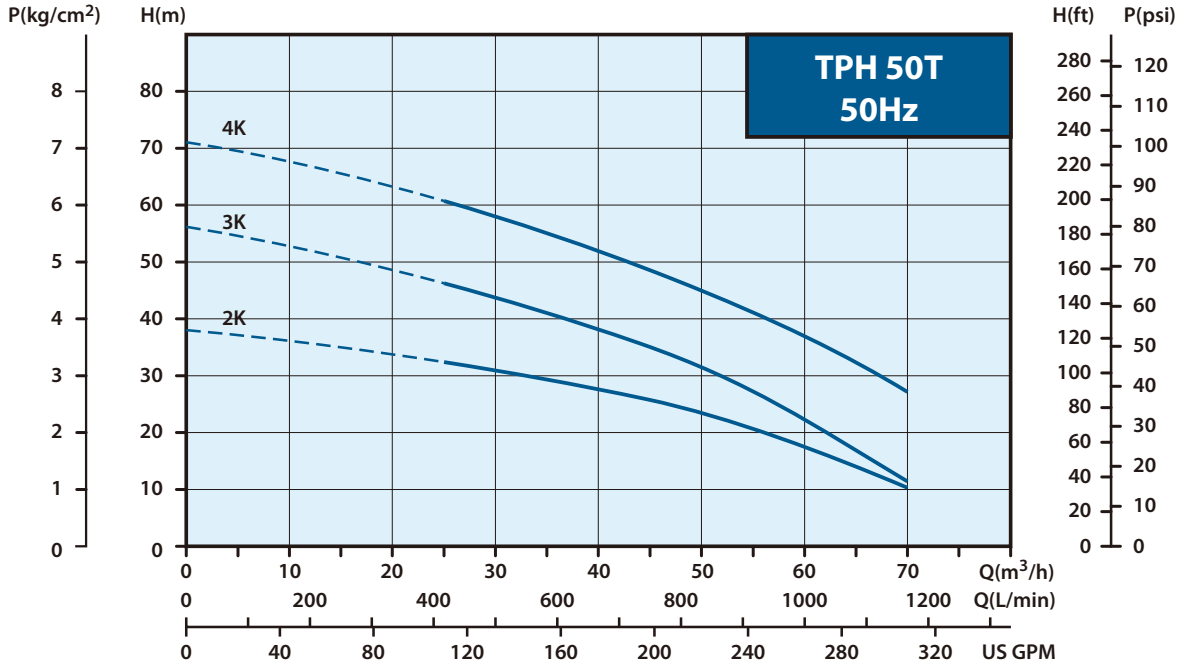
Model	PH (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPH 50 T2.5KF	3	6Q	60	200-240 / 380-440	8500	25.0-23.3 / 14.1-14.8
TPH 50 T 4 KF	3	6Z	60	200-255 / 380-480	11500	34.8-32.2 / 19.1-21.7
TPH 50 T 5 KF	3	6Q	60	200-240 / 380-440	14200	44.3-42.6 / 23.9-26.3

Dimensions (mm), 60Hz

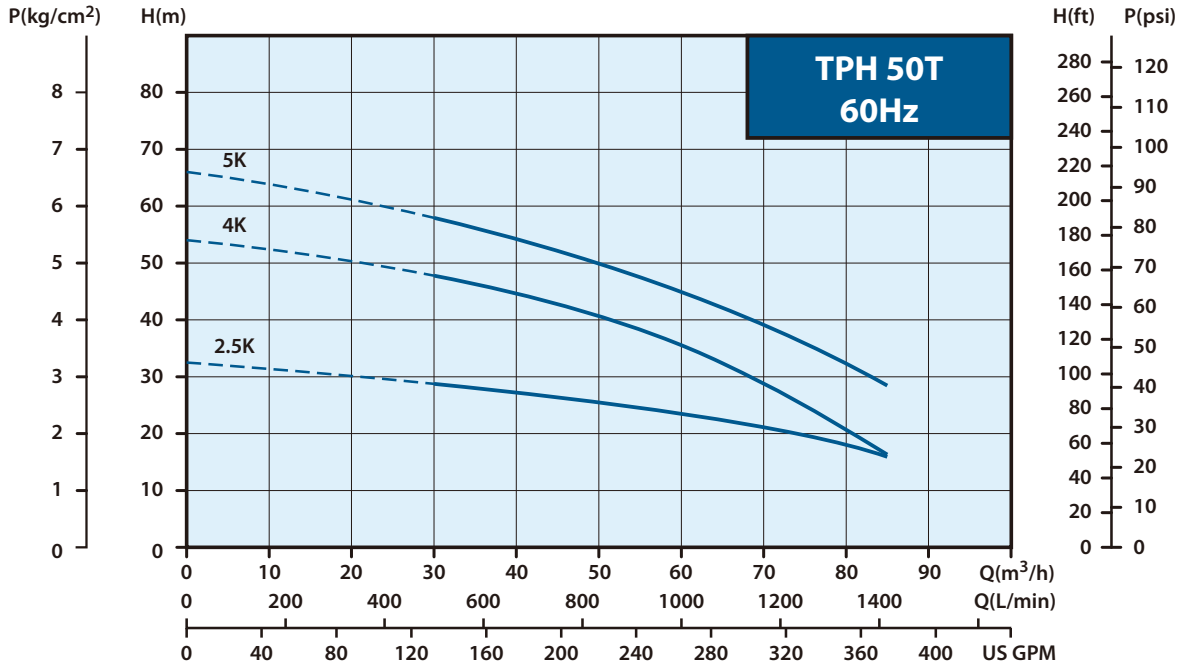


Model	A(mm)	B(mm)	C(mm)	D(mm)	N.W.(kg)
TPH 50T2.5KF	582.5	203	243	162	55.6
TPH 50T 4KF	692.5	263	303	222	77.6
TPH 50T 5KF	742.5	263	303	222	86.7

Performance curve (50Hz)



Performance curve (60Hz)



TPAK Series Coolant Pump

Power: ¼ - 1.5 HP

50Hz

Head: Up to 12M

Flow: Up to 360 L/min

60Hz

Head: Up to 17M

Flow: Up to 400 L/min

Outlet: ½" - 1½"

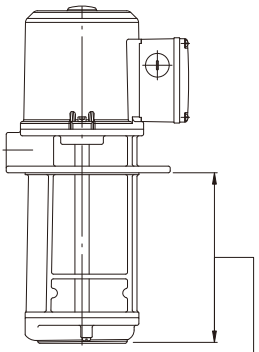
Applications:

The TPAK Series coolant pump is design for the circulation and spraying of cooling lubricants, especially for machine tools.

This series may use on all machine tools performing Turning, Milling, Drilling, Cutting, Slitting, Grinding etc. operation.

It is suitable to carry liquids such as water, coolant, light oil and other clean, non aggressive matters.

Model code:



TPAK 2 - 18

- **Installation length [mm]**
  - **18 x 10 = 180 mm**
- **Output power**
  - **2 = ¼ HP**
  - **4 = ½ HP**
  - **8 = 1 HP**
  - **15 = 1.5HP**
- **Model name**

Operation Conditions:

1. Ambient temperature :Max. +40°C
2. Liquid temperature range:+0°C ~ +90°C
3. Operating pressure:Max. 10 kg/cm²

Pump Construction:

The pump is one-chamber vertical centrifugal pump, co-axial pump/motor design, impellers mounted on extended motor shaft.

Motor

Enclosure protection class: IP54

Insulation class: F.

Frequency range: 50 / 60 Hz

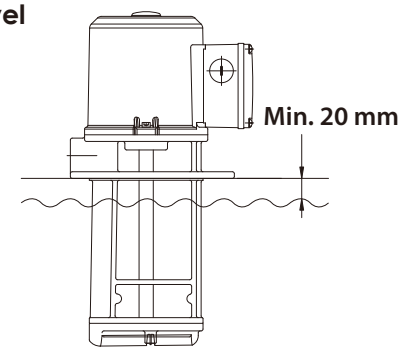
Nominal speed : 2900 / 3500 rpm

Standard voltages : 3Ø 50Hz: 200-255V / 380-440V

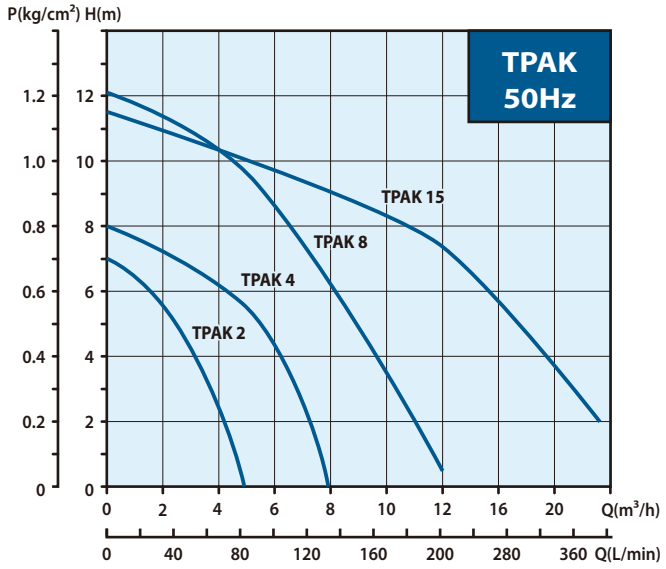
3Ø 60Hz: 200-255V / 380-480V

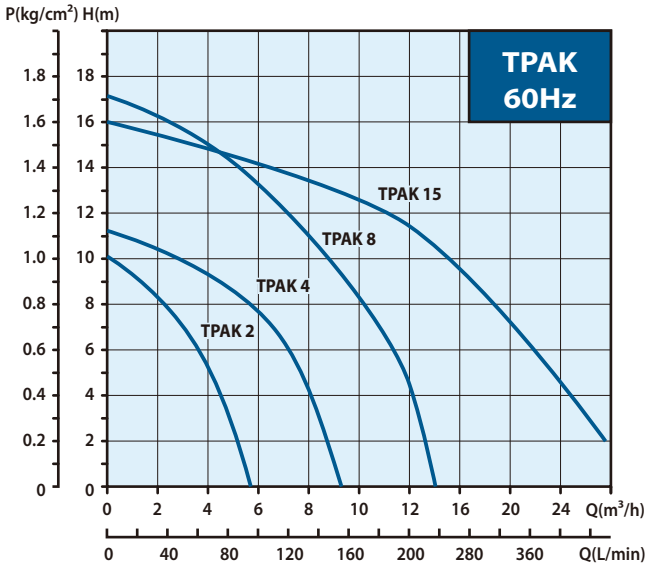
Installation

Maximum liquid level



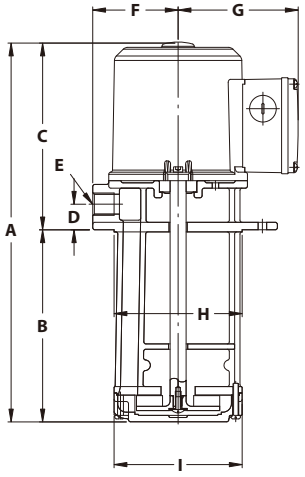
Performance curve





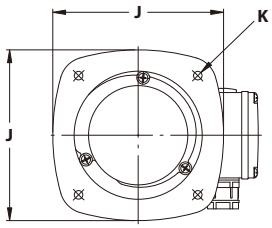
Dimensions (mm)

Model	DIMENSIONS: (mm)											N.W weight (kg)	
	A	B	C	D	E	F	G	H	I	J	K		
TPAK 2-15	325	150	175	24	PF ½"	80	112.5	Ø120	Ø120	160	4xØ8 PCD158	9.5	36
TPAK 2-18	355	180	175	24	PF ½"	80	112.5	Ø120	Ø120	160	4xØ8 PCD158	10.0	36
TPAK 2-25	425	250	175	24	PF ½"	80	112.5	Ø120	Ø120	160	4xØ8 PCD158	10.6	24
TPAK 4-15	385	150	235	28	PF ¾"	85	111	Ø135	Ø135	170	4xØ9 PCD170	11.2	24
TPAK 4-18	415	180	235	28	PF ¾"	85	111	Ø135	Ø135	170	4xØ9 PCD170	11.9	24
TPAK 4-25	485	250	235	28	PF ¾"	85	111	Ø135	Ø135	170	4xØ9 PCD170	12.7	24
TPAK 8-18	456	180	276	29	PF 1"	95	111	Ø150	Ø150	190	4xØ9 PCD185	15.5	24
TPAK 8-25	526	250	276	29	PF 1"	95	111	Ø150	Ø150	190	4xØ9 PCD185	17.1	24
TPAK 15-25	573	248	325	42	PF 1½"	122	124	Ø180	Ø180	200	4xØ9 PCD210	24.0	15



Electrical data, 50/60Hz

Model	PH (Ø)	Cycle (Hz)	Input Power (W)	Volts (V)	Full load current (A)
TPAK 2	3	50	270	200-255 / 380-440	1.0-1.3 / 0.6-0.8
		60	350	200-255 / 380-480	1.2 / 0.7
TPAK 4	3	50	440	200-255 / 380-440	1.5-1.9 / 0.9-1.2
		60	620	200-255 / 380-480	2.0 / 1.1
TPAK 8	3	50	930	200-255 / 380-440	3.1-4.4 / 1.9-2.6
		60	1320	200-255 / 380-480	4.0 / 2.4
TPAK 15	3	50	1300	220 / 380	4.8 / 2.8
		60	2000	220 / 380	5.4 / 3.1



TPK Series Immersible Pump

50Hz

Power: 0.22 - 1.3 kW

Head: Up to 70 M

Flow: Up to 90 L/min

60Hz

Power: 0.28 - 1.58 kW

Head: Up to 100 M

Flow: Up to 100 L/min

Outlet: ¾"

Applications:

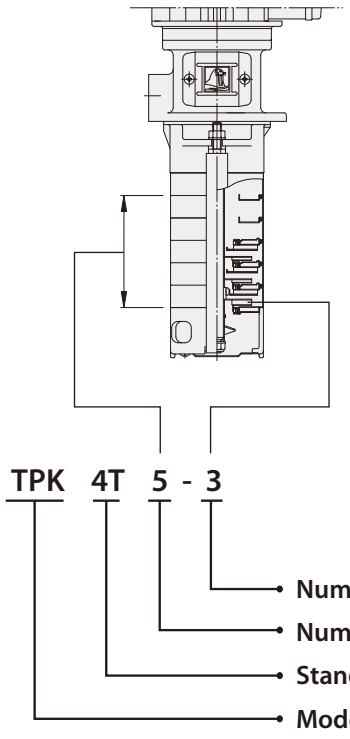
The WALRUS TPK Series is vertical multistage centrifugal pump, designed for industrial use, specially for machine tools, to carry fluids such as water, coolant, light oil and other clean, non aggressive matters.

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

Operation Conditions:

1. Ambient temperature :Max. +40°C
2. Liquid temperature range:+0°C ~ +90°C
3. Operating pressure:Max. 10 kg/cm^2
4. Submerged depth :Min. 65mm

Model code:



Pump Construction:

Submersible vertical multistage centrifugal pump, self-priming, stub pump shaft per coupling connect with motor. Main working parts made by stainless steel.

Motor

Enclosure class : IP54

Insulation class : F.

Nominal speed :2900 / 3500 rpm

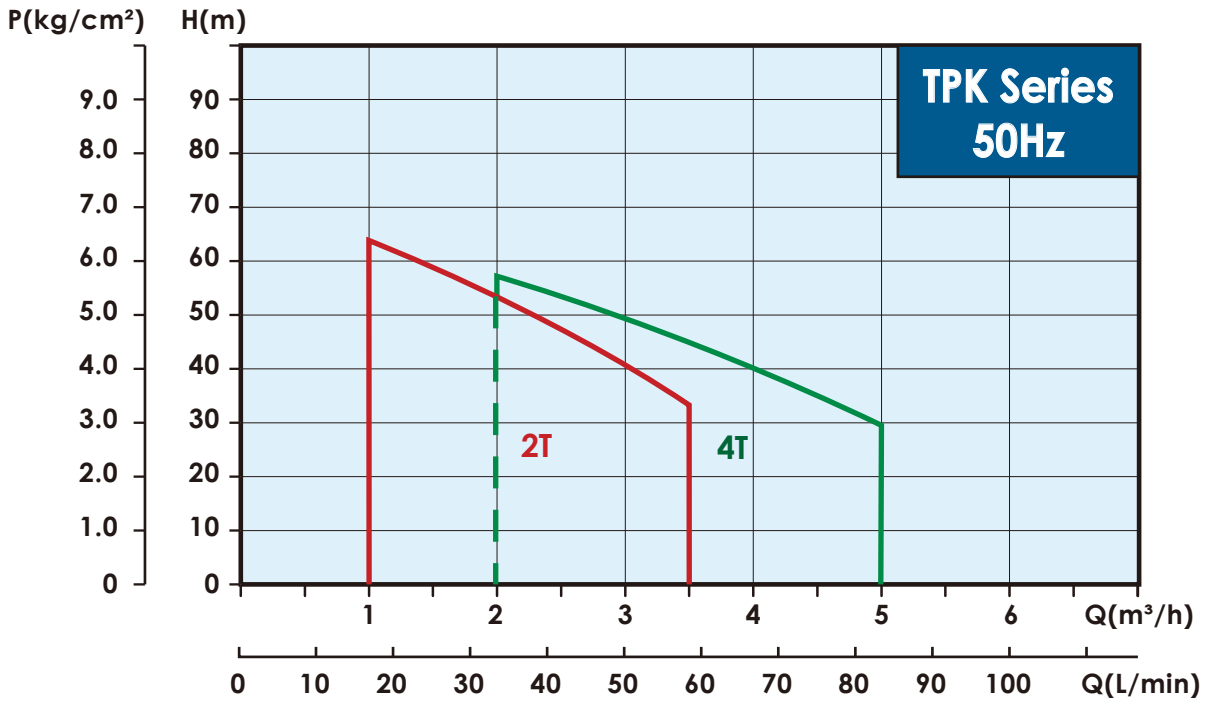
Frequency range : 50 / 60 Hz

Voltages Code:

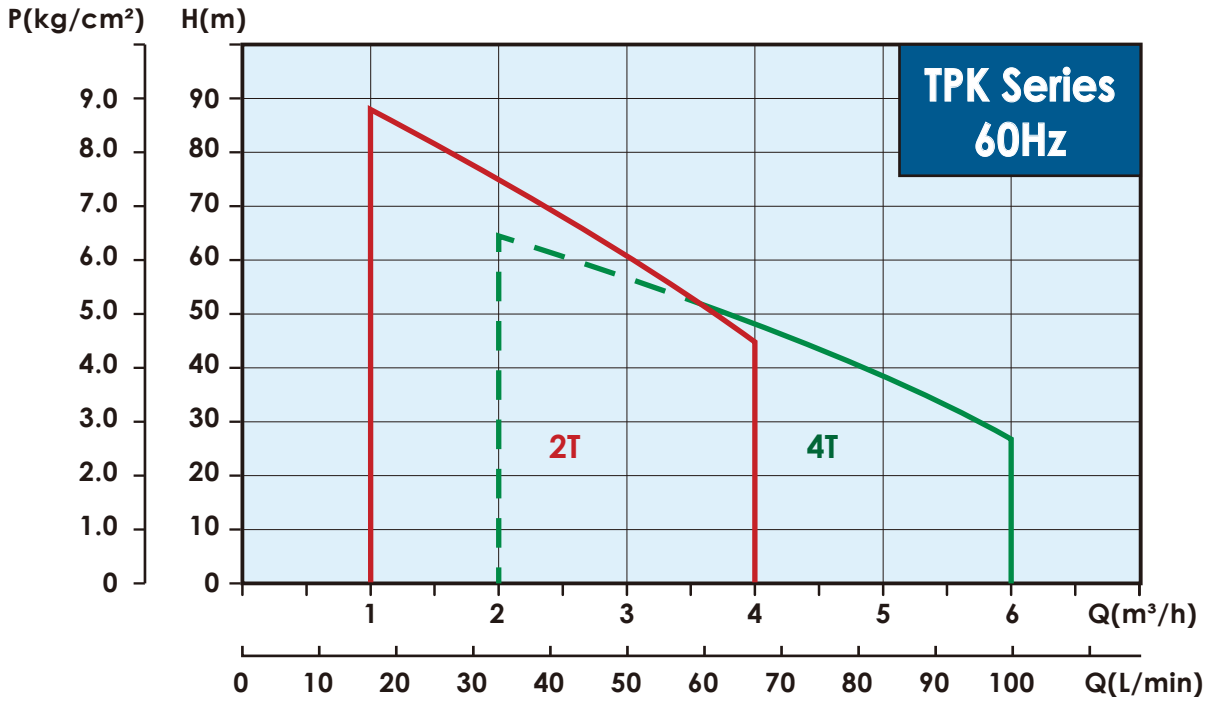
Code	PH	50Hz	60Hz
3Q	3	200-240/380-440V	-
3Z*	3	200-255/380-440V	200-255/380-480V
4U*	3	200-240/380-415V	200-240/380-440V

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

Performance curve (50Hz)



Performance curve (60Hz)



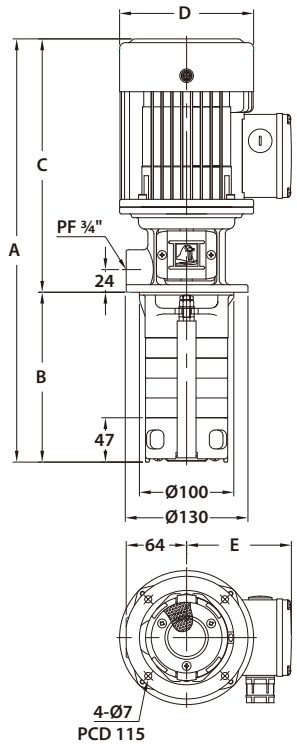
TPK 2T

Electrical data

Standard Model	Phase (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPK 2T 5 - 1	3	3Z	50	200-255 / 380-440	220	0.9 / 0.6
			60	200-255 / 380-480	280	0.9 / 0.6
TPK 2T 3 - 3	3	3Z	50	200-255 / 380-440	280	0.9 / 0.7
			60	200-255 / 380-480	370	1.1 / 0.6
TPK 2T 5 - 5	3	3Z	50	200-255 / 380-440	450	2.6 / 1.5
			60	200-255 / 380-480	600	2.2 / 1.5
TPK 2T 8 - 8	3	3Z	50	200-255 / 380-440	580	2.9 / 1.7
			60	200-255 / 380-480	820	2.7 / 1.6
TPK 2T 11-11	3	3Z	50	200-255 / 380-440	700	3.2 / 1.8
			60	200-255 / 380-480	1050	3.5 / 1.9
TPK 2T 12-12	3	3Z	50	200-255 / 380-440	780	3.5 / 1.9
			60	200-255 / 380-480	1160	3.6 / 2.0
TPK 2T 15-15	3	4U	50	200-240 / 380-415	850	3.0 / 1.8
			60	200-240 / 380-440	1300	4.1 / 2.3
TPK 2T 17-17	3	4U	50	200-240 / 380-415	950	3.6 / 2.1
			60	200-240 / 380-440	1450	5.0 / 2.7

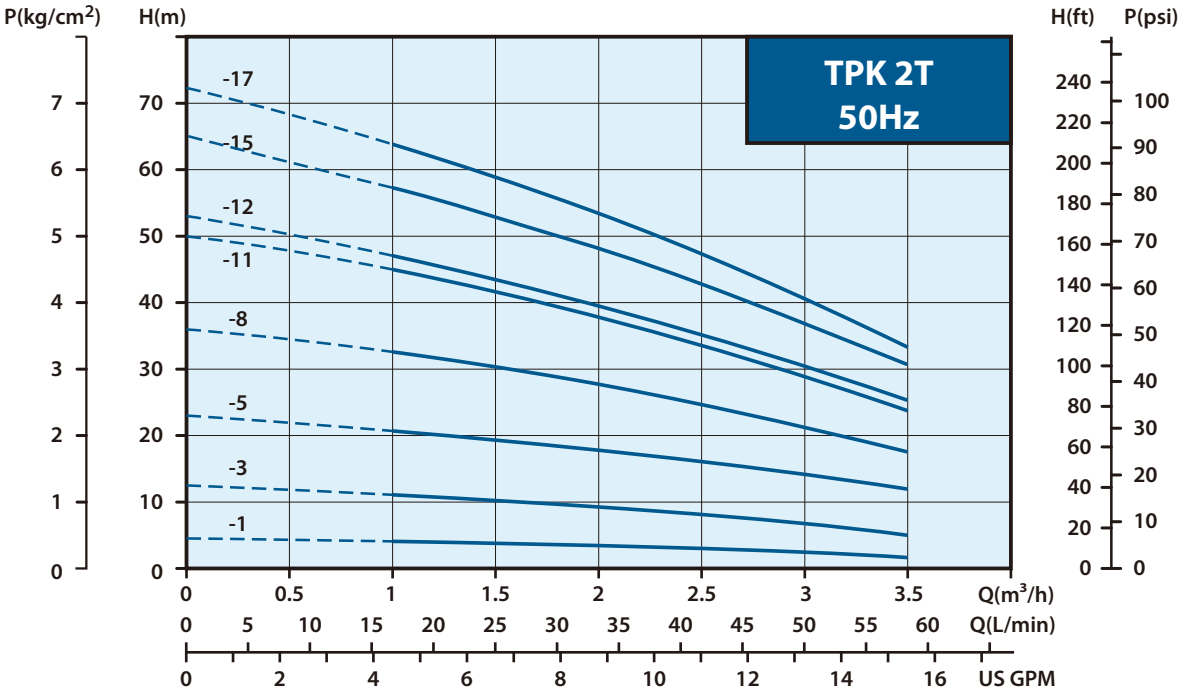
Maximum 19 Stages

Dimensions (mm)

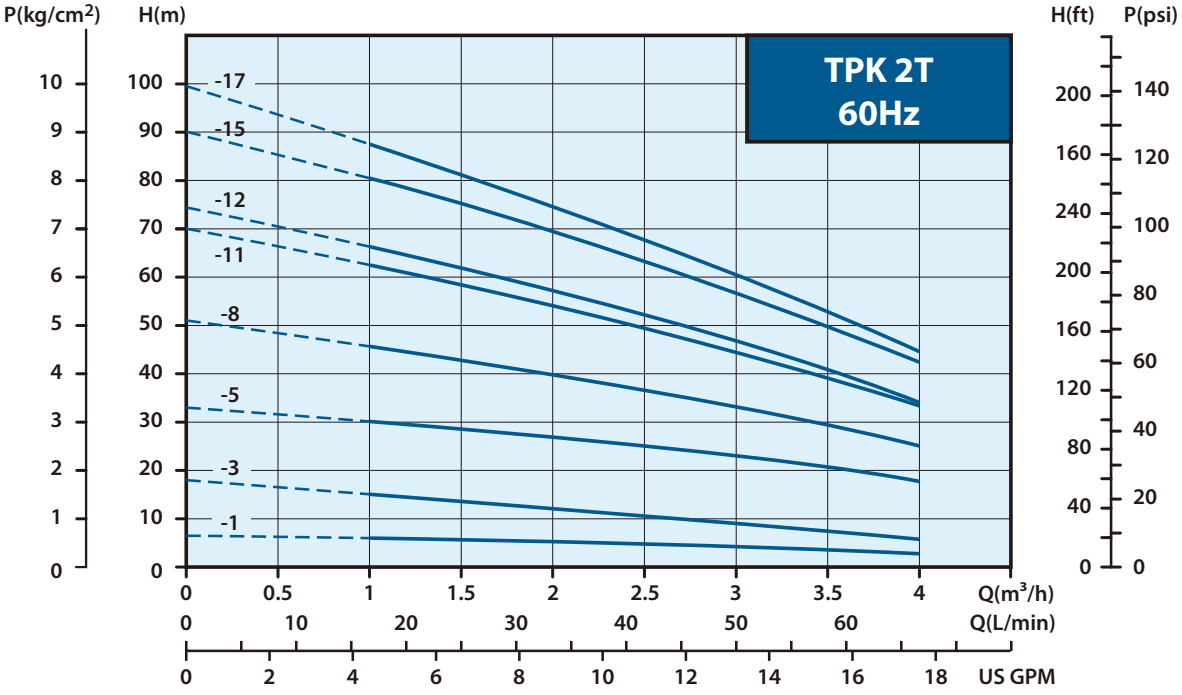


Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	N.W.(kg)	
TPK2T 5 - 1	480	222	258	123	99	8.7	30
TPK2T 3 - 3	438	180	258	123	99	8.7	30
TPK2T 5 - 3	480	222	258	123	99	8.9	30
TPK2T 8 - 3	543	285	258	123	99	9.2	24
TPK2T 11- 3	606	348	258	123	99	9.6	24
TPK2T 5 - 5	490	222	268	142	111	12.1	30
TPK2T 8 - 5	553	285	268	142	111	12.4	24
TPK2T 10- 5	595	327	268	142	111	12.6	24
TPK2T 11- 5	616	348	268	142	111	12.7	18
TPK2T 15- 5	700	432	268	142	111	13.0	18
TPK2T 8 - 8	553	285	268	142	111	12.7	24
TPK2T 11- 8	616	348	268	142	111	13.0	18
TPK2T 11-11	656	348	308	142	111	14.3	18
TPK2T 15-12	740	432	308	142	111	14.5	18
TPK2T 15-15	740	432	308	142	111	15.0	18
TPK2T 19-15	824	516	308	142	111	15.4	18
TPK2T 19-17	824	516	308	142	111	15.8	18

Performance curve (50Hz)



Performance curve (60Hz)



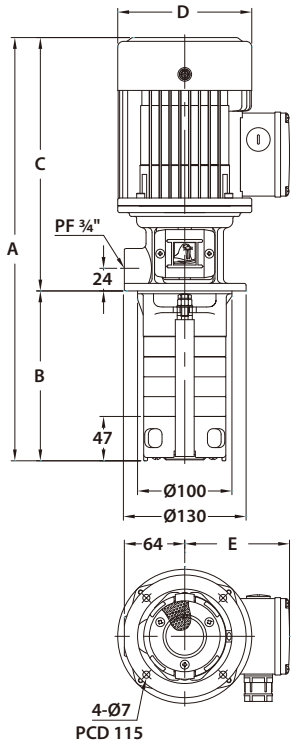
TPK 4T

Electrical data

Standard Model	Phase (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPK 4T 3 - 1	3	3Z	50	200-255 / 380-440	250	1.0 / 0.6
			60	200-255 / 380-480	300	1.0 / 0.6
TPK 4T 3 - 3	3	3Z	50	200-255 / 380-440	430	2.8 / 1.4
			60	200-255 / 380-480	550	2.2 / 1.2
TPK 4T 5 - 5	3	3Z	50	200-255 / 380-440	580	2.9 / 1.7
			60	200-255 / 380-480	900	2.7 / 1.6
TPK 4T 7 - 7	3	3Z	50	200-255 / 380-440	680	3.2 / 1.8
			60	200-255 / 380-480	1000	3.4 / 1.9
TPK 4T 8 - 8	3	3Z	50	200-255 / 380-440	750	3.5 / 1.9
			60	200-255 / 380-480	1160	3.6 / 2.0
TPK 4T 10-10	3	3Z	50	200-255 / 380-440	900	4.7 / 2.6
			60	200-255 / 380-480	1420	4.7 / 2.6
TPK 4T 11-11	3	4U	50	200-240 / 380-415	950	3.6 / 2.1
			60	200-240 / 380-440	1450	5.0 / 2.7
TPK 4T 12-12	3	4U	50	200-240 / 380-415	1050	3.9 / 2.3
			60	200-240 / 380-440	1580	5.3 / 2.9
TPK 4T 15-15	3	3Q	50	200-240 / 380-440	1300	4.4 / 2.8

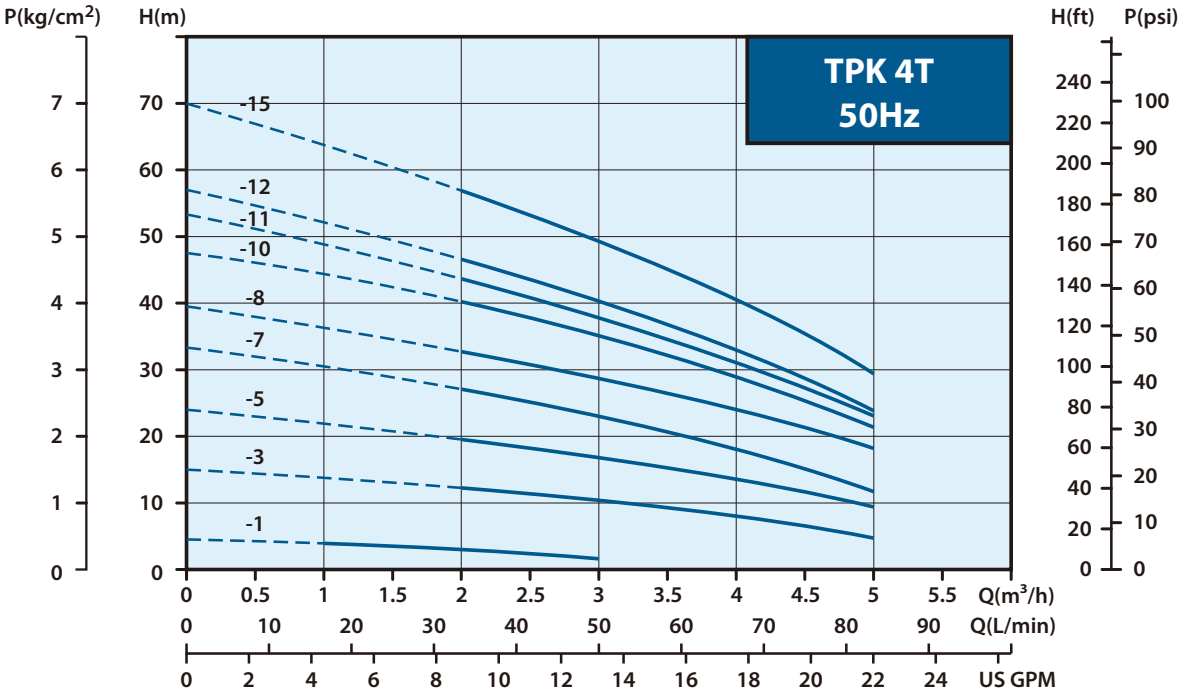
Maximum 19 Stages

Dimensions (mm)

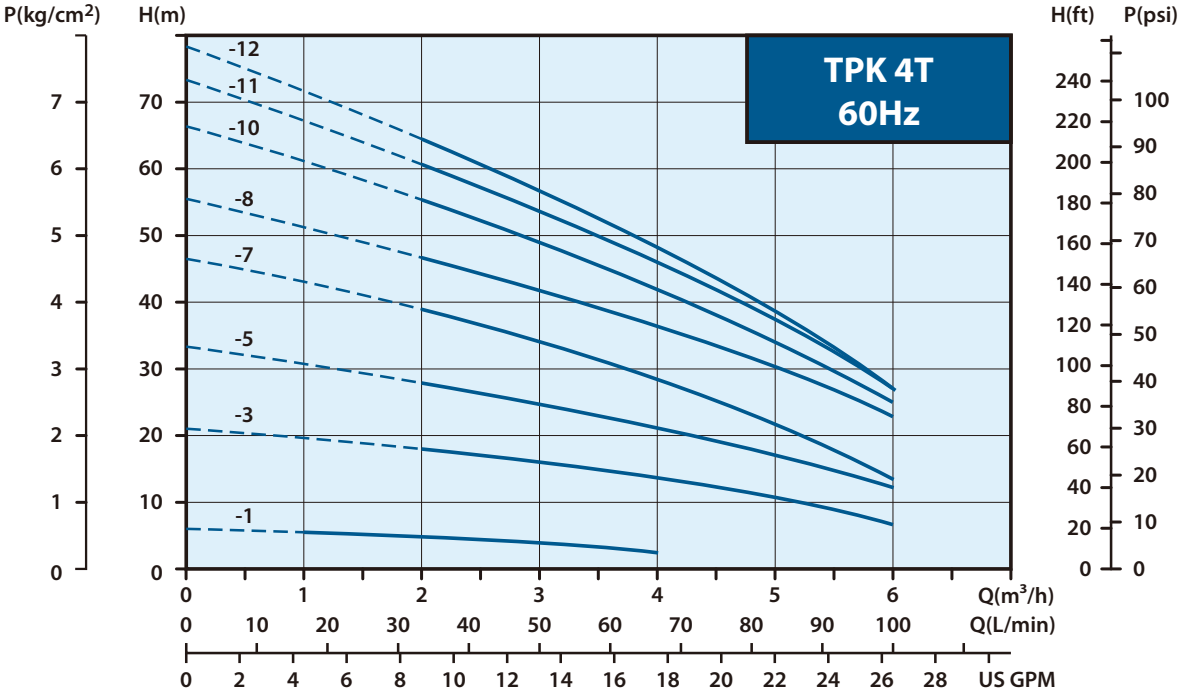


Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	N.W.(kg)	
TPK4T 3 - 1	438	180	258	123	99	8.4	30
TPK4T 5 - 1	480	222	258	123	99	8.7	30
TPK4T 3 - 3	448	180	268	142	111	11.8	30
TPK4T 5 - 3	490	222	268	142	111	12.0	30
TPK4T 8 - 3	553	285	268	142	111	12.3	24
TPK4T 19- 3	784	516	268	142	111	13.4	18
TPK4T 5 - 5	490	222	268	142	111	12.1	30
TPK4T 8 - 5	553	285	268	142	111	12.4	24
TPK4T 11- 5	616	348	268	142	111	12.7	18
TPK4T 15- 5	700	432	268	142	111	13.0	18
TPK4T 19- 5	784	516	268	142	111	13.3	18
TPK4T 19- 7	824	516	308	142	111	14.8	18
TPK4T 8 - 8	593	285	308	142	111	13.8	24
TPK4T 11- 8	656	348	308	142	111	14.1	18
TPK4T 15- 8	740	432	308	142	111	14.4	18
TPK4T 19- 8	824	516	308	142	111	14.8	18
TPK4T 11-10	656	348	308	142	111	14.2	18
TPK4T 15-10	740	432	308	142	111	14.5	18
TPK4T 19-10	824	516	308	142	111	14.9	18
TPK4T 11-11	656	348	308	142	111	14.3	18
TPK4T 15-12	740	432	308	142	111	14.6	18
TPK4T 19-12	824	516	308	142	111	14.8	18
TPK4T 15-15	740	432	308	142	111	15.0	18
TPK4T 19-15	824	516	308	142	111	15.4	18

Performance curve (50Hz)



Performance curve (60Hz)



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: ¾" -1¼"

Applications:

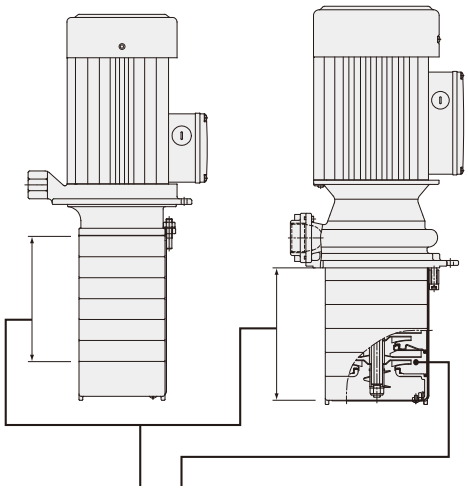
The WALRUS TPHK Series is vertical multistage centrifugal pump, designed for industrial use, specially for machine tools. It is suitable to carry fluids such as water, coolant, light oil and other clean, non aggressive matters for:

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

Operation Conditions:

1. Ambient temperature :Max. +40°C
2. Liquid temperature range:+0°C ~ +90°C
3. Operating pressure:Max. 10 kg/cm^2
4. Submerged depth :Min. 65mm

Model code:



Pump Construction:

Submersible 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

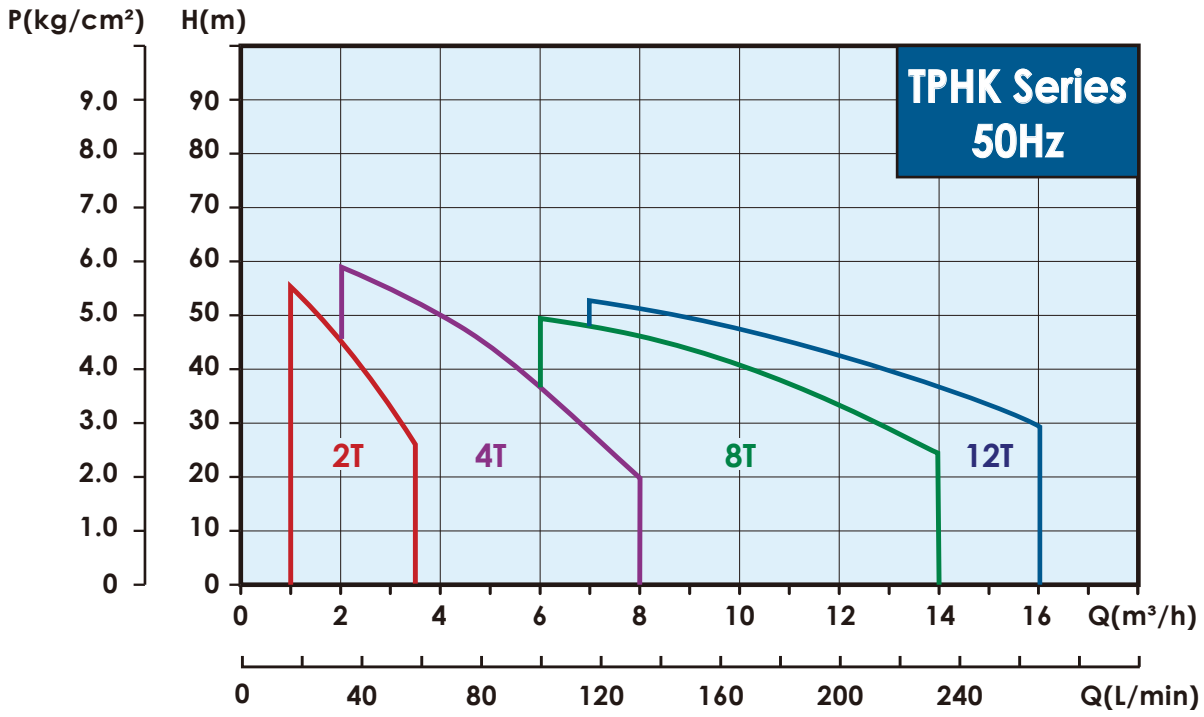
Frequency range : 50 / 60 Hz

Voltages Code:

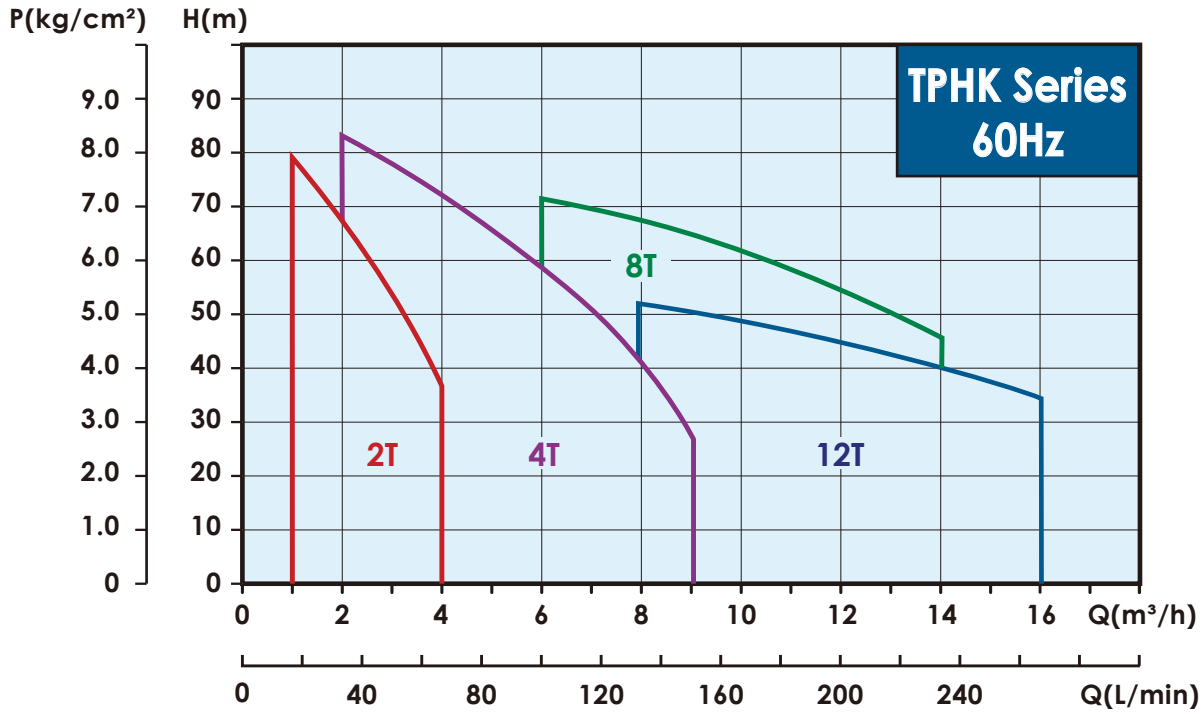
Code	PH	50Hz	60Hz
3Q	3	200-240/380-440V	-
3Z*	3	200-255/380-440V	200-255/380-480V
4U*	3	200-240/380-415V	200-240/380-440V

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

Performance curve (50Hz)



Performance curve (60Hz)



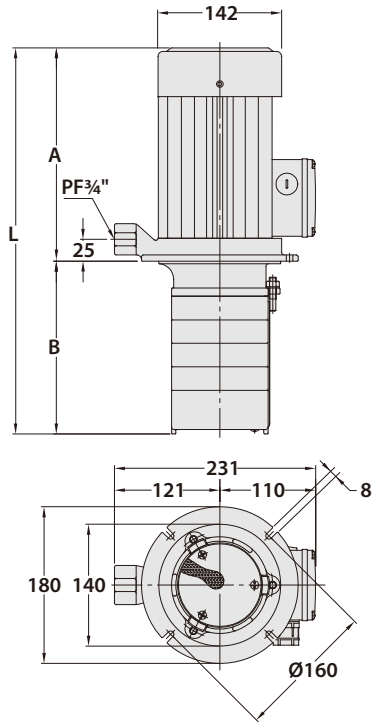
TPHK 2T

Electrical data

Standard Model	Phase (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPHK 2T 3 - 1	3	3Z	50	200-255 / 380-440	340	1.6-2.8 / 1.0-1.5
			60	200-255 / 380-480	370	1.5-1.9 / 1.0-1.3
TPHK 2T 3 - 2	3	3Z	50	200-255 / 380-440	450	1.9-2.8 / 1.2-1.5
			60	200-255 / 380-480	560	2.1-2.2 / 1.5-1.5
TPHK 2T 3 - 3	3	3Z	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
TPHK 2T 4 - 4	3	3Z	50	200-255 / 380-440	620	2.2-2.9 / 1.4-1.7
			60	200-255 / 380-480	910	3.0-2.9 / 1.7-1.7
TPHK 2T 5 - 5	3	3Z	50	200-255 / 380-440	700	2.4-3.0 / 1.4-1.6
			60	200-255 / 380-480	1060	3.3-3.0 / 1.8-1.8
TPHK 2T 6 - 6	3	3Z	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
TPHK 2T 7 - 7	3	4U	50	200-240 / 380-415	1320	4.6-6.7 / 2.9-3.7
			60	200-240 / 380-440	1800	5.6-5.4 / 3.2-3.2

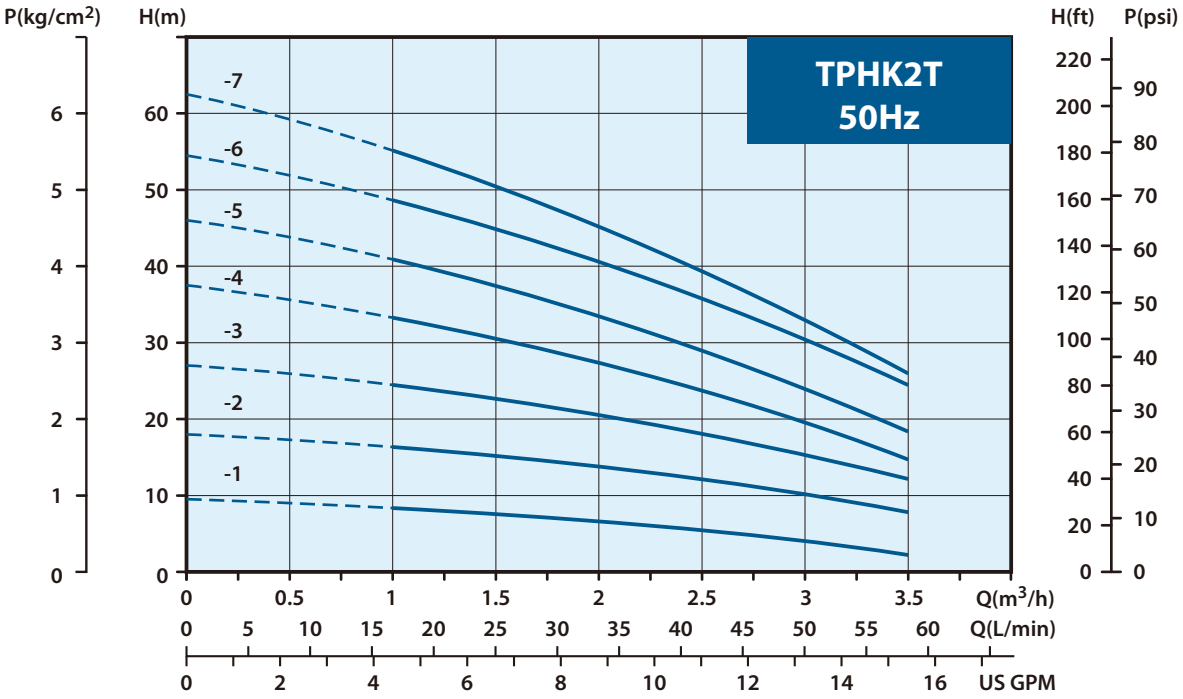
Maximum 11 Stages

Dimensions (mm)

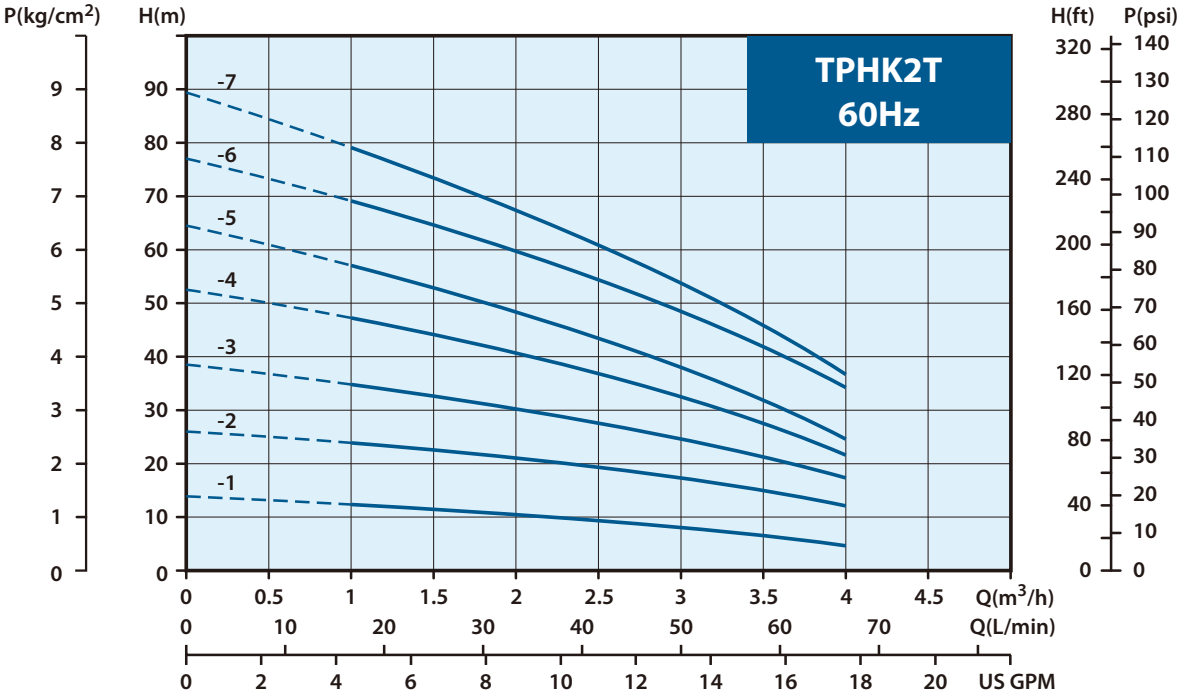


Model	A (mm)	B (mm)	L (mm)	N.W.(kg)	
TPHK 2T 3 -1	205	145	350	10.9	30
TPHK 2T 8 -1	205	235	440	11.9	30
TPHK 2T 3 -2	205	145	350	11.1	30
TPHK 2T 5 -2	205	181	386	11.5	30
TPHK 2T 9 -2	205	253	458	12.3	30
TPHK 2T 3 -3	205	145	350	11.2	30
TPHK 2T 4 -3	205	163	368	11.4	30
TPHK 2T 5 -3	205	181	386	11.6	30
TPHK 2T 6 -3	205	199	404	11.8	30
TPHK 2T 8 -3	205	235	440	12.2	30
TPHK 2T11-3	205	289	494	12.6	24
TPHK 2T 4 -4	205	163	368	11.5	30
TPHK 2T 6 -4	205	199	404	11.9	30
TPHK 2T 5 -5	245	181	426	12.7	30
TPHK 2T 6 -5	245	199	444	13.3	30
TPHK 2T 6 -6	253	199	452	13.5	30
TPHK 2T 8 -6	253	235	488	13.9	30
TPHK 2T 9 -6	253	253	506	14.1	24
TPHK 2T10-6	253	271	524	14.2	24
TPHK 2T11-6	253	289	542	14.4	24
TPHK 2T 7 -7	253	217	470	13.0	30

Performance curve (50Hz)



Performance curve (60Hz)



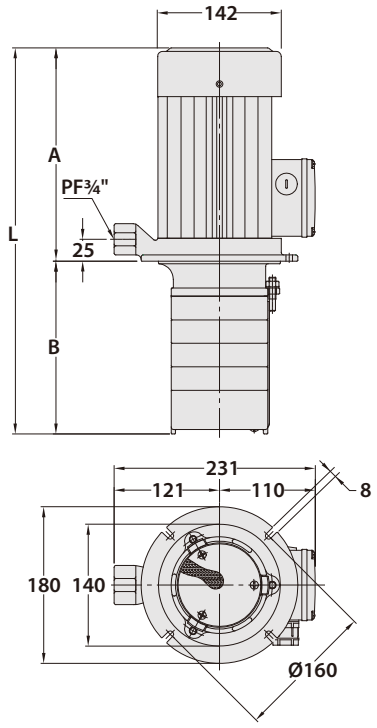
TPHK 4T

Electrical data

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

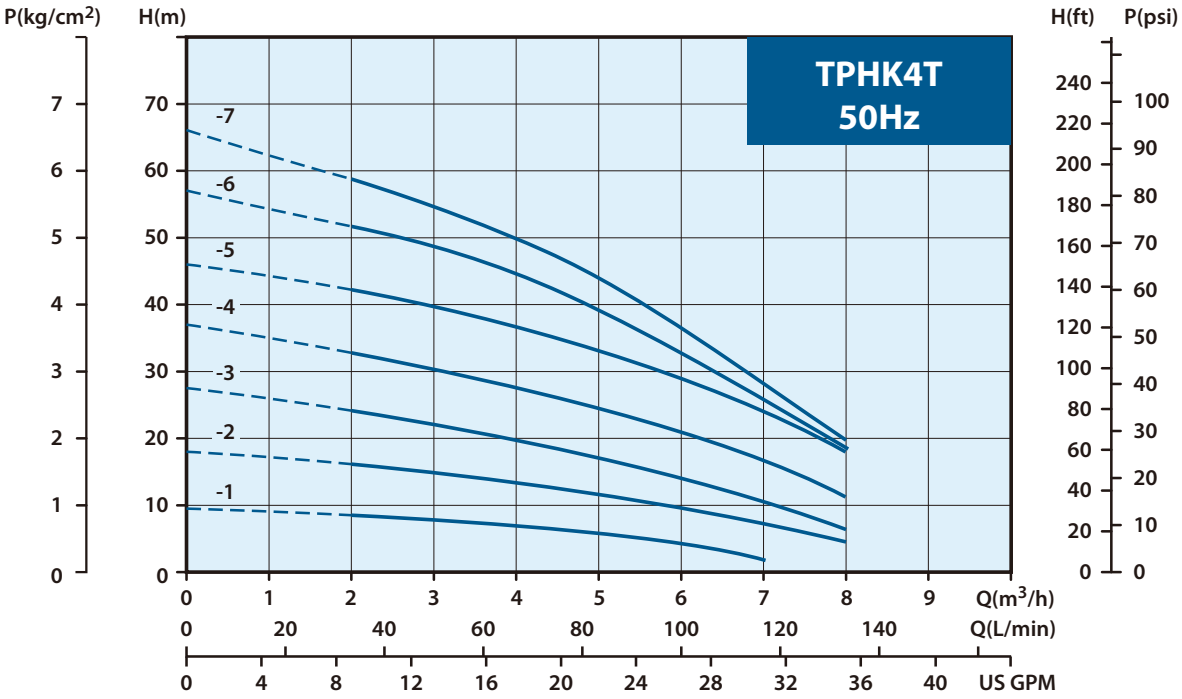
Maximum 8 Stages

Dimensions (mm)

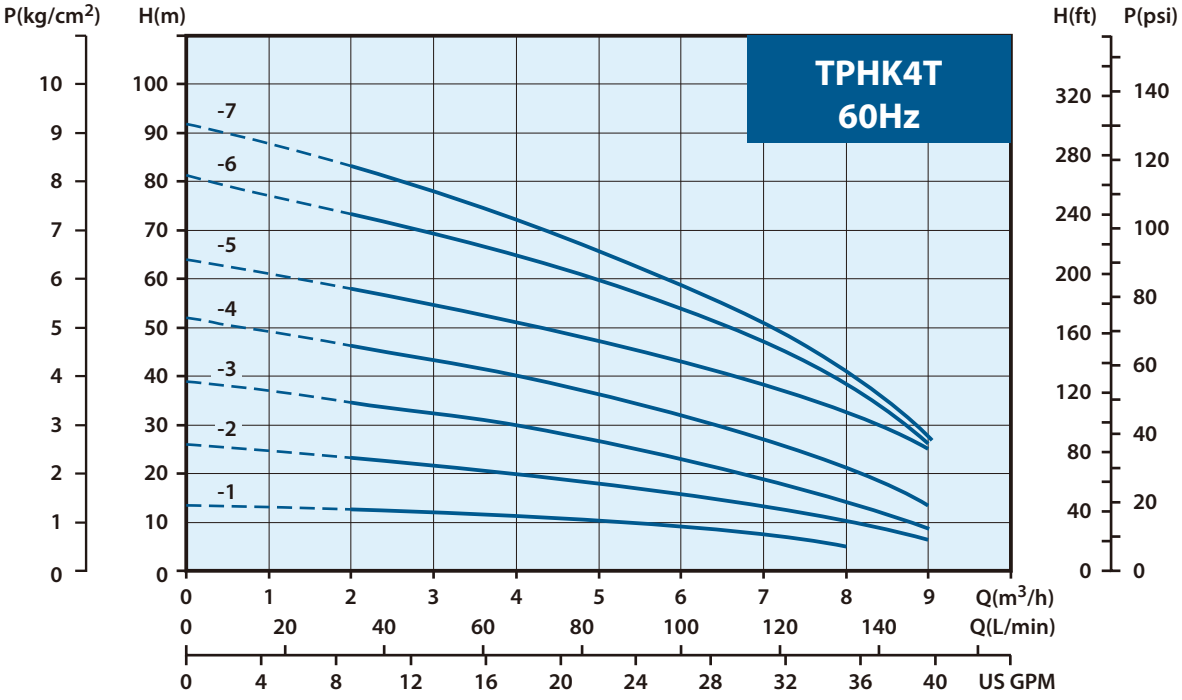


Model	A (mm) 50Hz / 60Hz	B (mm)	L (mm) 50Hz / 60Hz	N.W.(kg)	
TPHK 4T 2 -1	205	145	350	10.8	30
TPHK 4T 3 -1	205	172	377	11.0	30
TPHK 4T 2 -2	205	145	350	11.0	30
TPHK 4T 3 -2	205	172	377	11.2	30
TPHK 4T 4 -2	205	199	404	11.4	30
TPHK 4T 6 -2	205	253	458	11.6	24
TPHK 4T 3 -3	245	172	417	11.7	30
TPHK 4T 4 -3	245	199	444	11.9	30
TPHK 4T 5 -3	245	226	471	12.1	30
TPHK 4T 6 -3	245	253	498	12.3	24
TPHK 4T 8 -3	245	307	552	12.7	24
TPHK 4T 4 -4	245	199	444	13.3	30
TPHK 4T 5 -4	245	226	471	13.5	30
TPHK 4T 6 -4	245	253	498	13.7	24
TPHK 4T 5 -5	245	226	471	13.9	30
TPHK 4T 8 -5	245	307	552	14.5	24
TPHK 4T 6 -6	253 / 283	253	506 / 536	14.1	24
TPHK 4T 8 -6	253 / 283	307	560 / 590	14.6	24
TPHK 4T 7 -7	283	280	563	14.6	24
TPHK 4T 8 -7	283	307	590	14.8	24

Performance curve (50Hz)



Performance curve (60Hz)



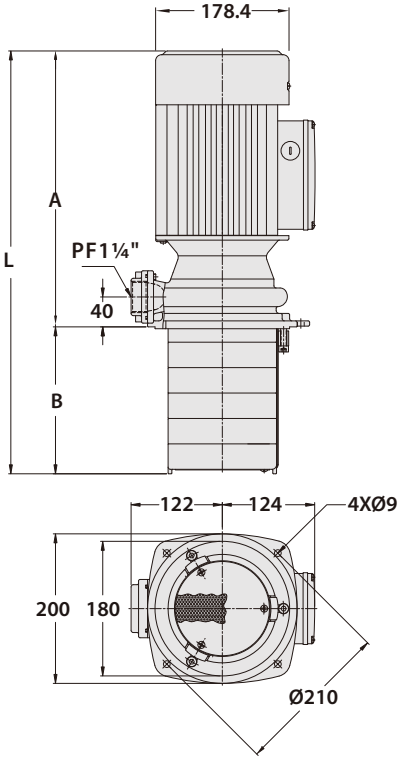
TPHK 8T

Electrical data

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

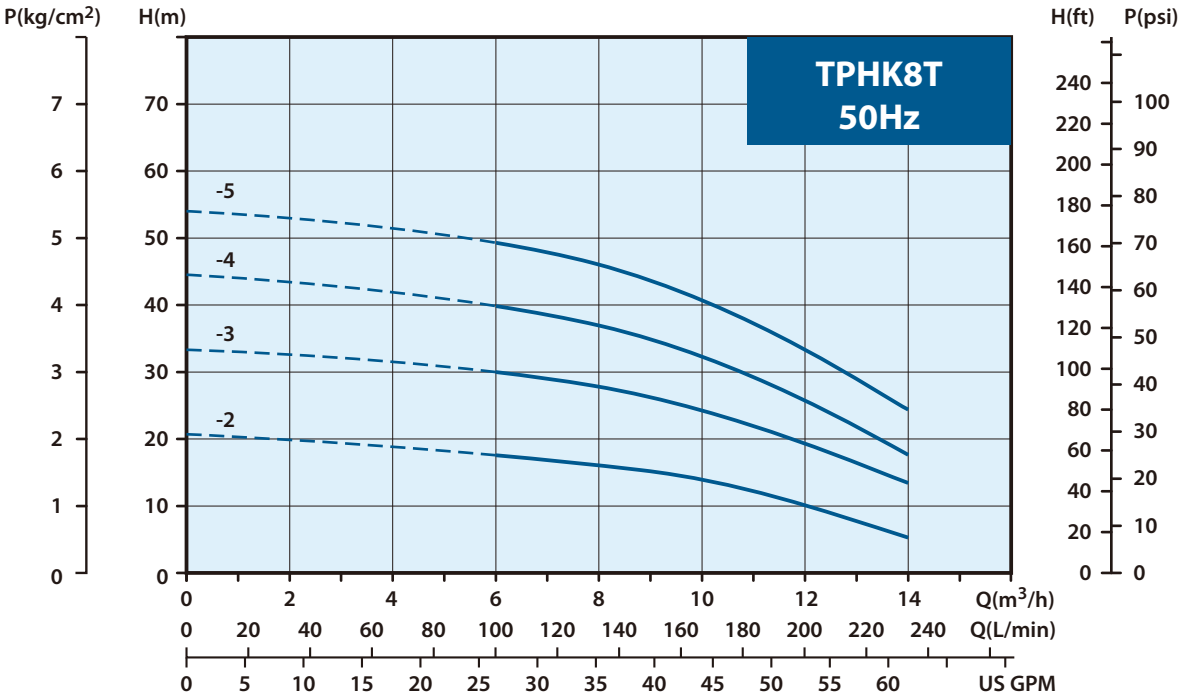
Maximum 9 Stages

Dimensions (mm)

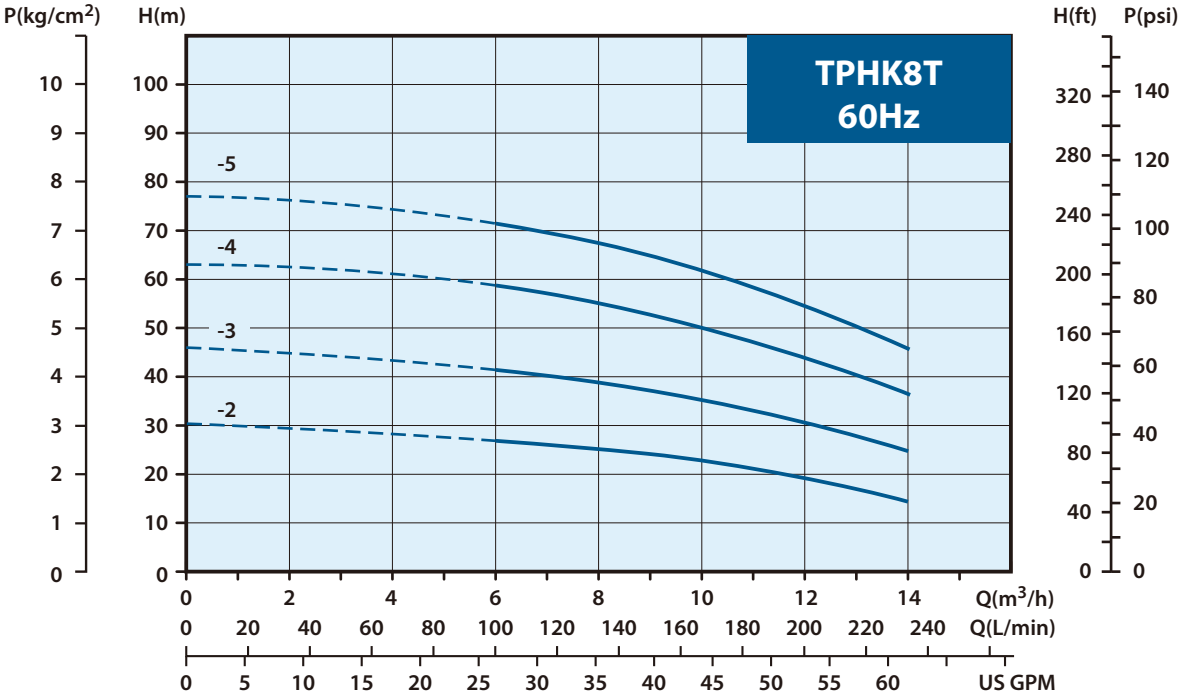


Model	A (mm)	B (mm)	L (mm)	N.W.(kg)	
TPHK 8T 6 -2	369	199	568	24.0	15
TPHK 8T 9 -2	369	298.5	667.5	25.3	15
TPHK 8T 3 -3	369	95.5	464.5	23.0	15
TPHK 8T 6 -3	369	199	568	24.3	15
TPHK 8T 9 -3	369	298.5	667.5	25.6	15
TPHK 8T 4 -4	369	130	499	27.0	15
TPHK 8T 6 -4	369	199	568	28.0	15
TPHK 8T 5 -5	369	164.5	533.5	28.0	15

Performance curve (50Hz)



Performance curve (60Hz)



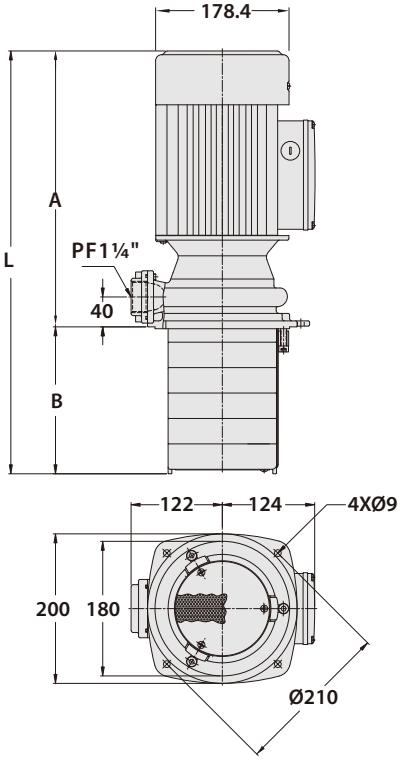
TPHK 12T

Electrical data

Standard Model	Phase (Ø)	voltage code	Cycle (Hz)	Volts (V)	Input Power (W)	Input Ampere (A)
TPHK 12T 6 - 1	3	3Z	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
TPHK 12T 6 - 2	3	4U	50	200-240 / 380-415	3120	9.6-13.9 / 6.4-8.4
			60	200-240 / 380-440	4150	12.8-12.4 / 7.1-7.4
TPHK 12T 6 - 3	3	3Q	50	200-240 / 380-440	3830	11.6-11.5 / 6.5-7.2

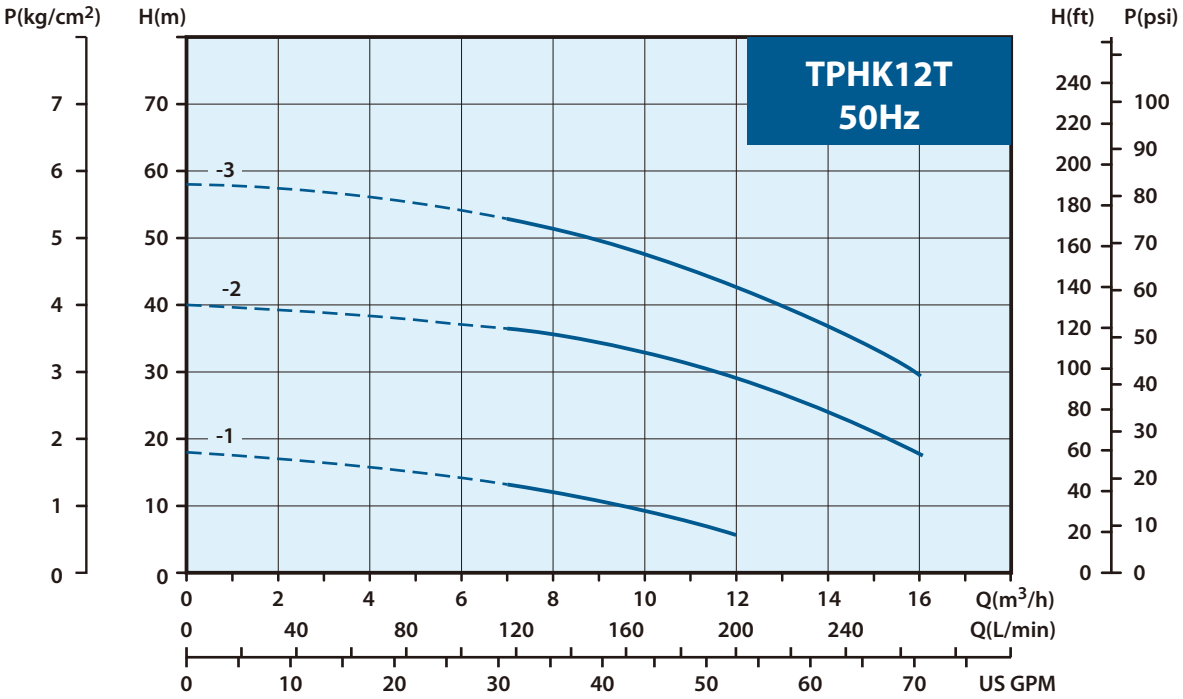
Maximum 9 Stages

Dimensions (mm)

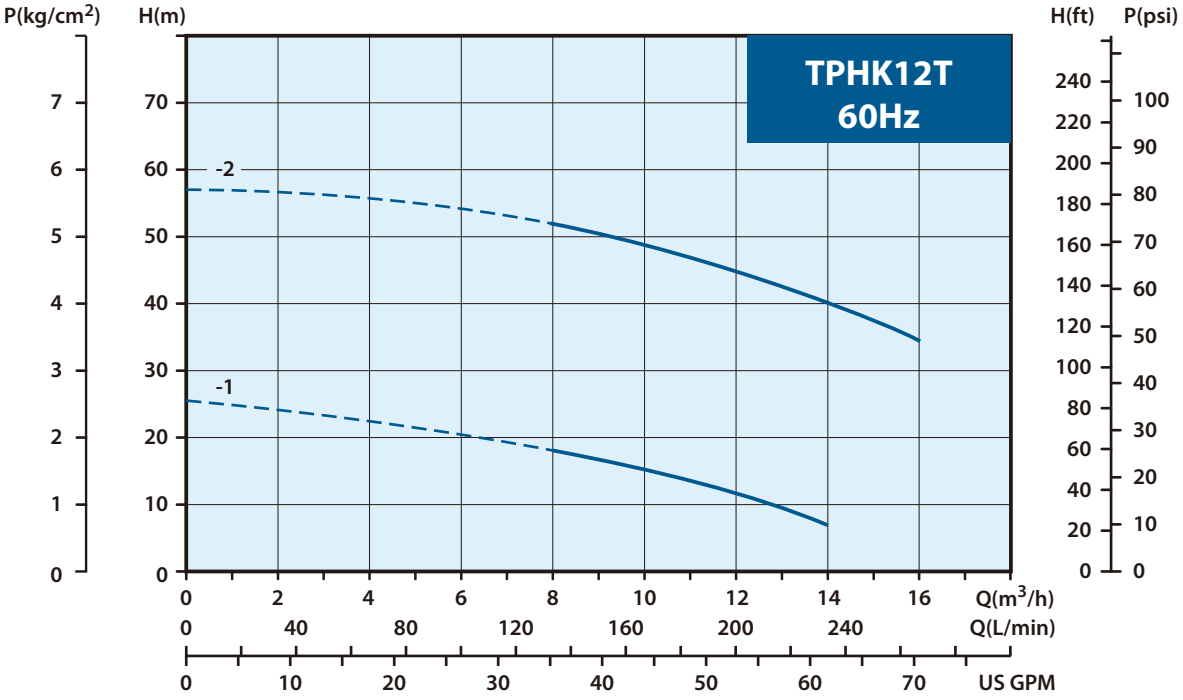


Model	A (mm)	B (mm)	L (mm)	N.W.(kg)	
TPHK12T 6 -1	369	199	568	27.0	15
TPHK12T 6 -2	369	199	568	29.0	15
TPHK12T 9 -2	369	298.5	667.5	30.5	15
TPHK12T 6 -3	369	199	568	30.0	15
TPHK12T 9 -3	369	298.5	667.5	31.5	15

Performance curve (50Hz)



Performance curve (60Hz)



TPCK Series Immersible Pump

50Hz

Power: 1.5 - 4.0 kW

Head: Up to 240 M

Flow: Up to 150 L/min

60Hz

Power: 2.2 - 4.0 kW

Head: Up to 260 M

Flow: Up to 180 L/min

Outlet: 1¼"

Applications:

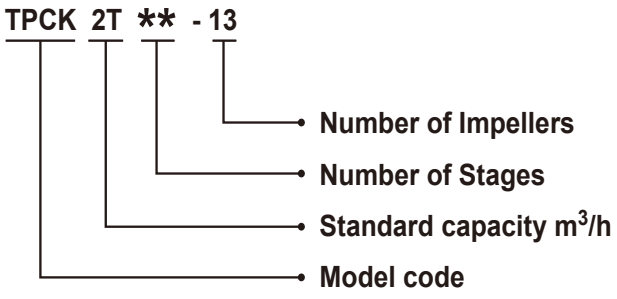
The WALRUS TPCK Series is vertical multistage centrifugal pump, designed for industrial use, specially for machine tools, to carry fluids such as water, coolant, light oil and other clean, non aggressive matters.

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

Operation Conditions:

1. Ambient temperature :Max. +40°C
2. Liquid temperature range:+0°C ~ +90°C
3. Operating pressure:Max. 30 kg/cm^2
4. Submerged depth :Min. 65mm

Model code:



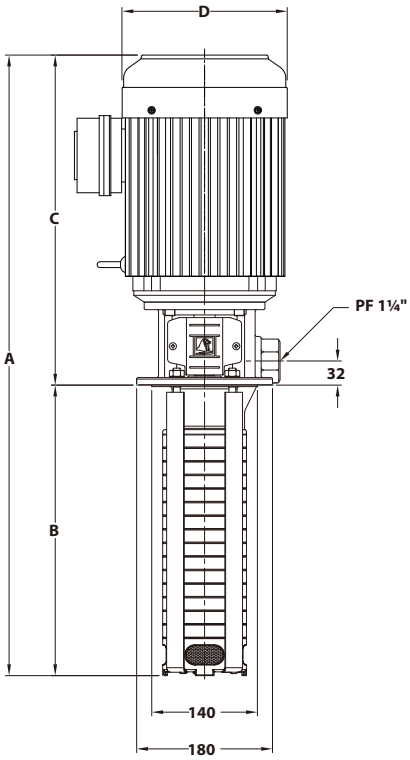
Pump Construction:

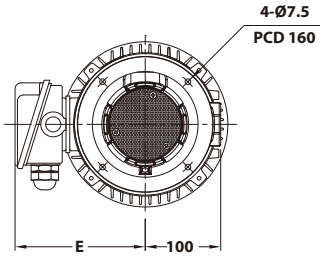
Immersible vertical multistage centrifugal pump, self-priming, coupling connection between pump and motor, stainless steel construction design ensures corrosion-free operation.

Motor

Nominal speed : 2860 or 3450 rpm
Frequency range : 50 or 60 Hz
Standard voltages : 3Ø 198-242 / 342-418V
Enclosure class : IP54
Insulation class : F.

Dimensions (mm)

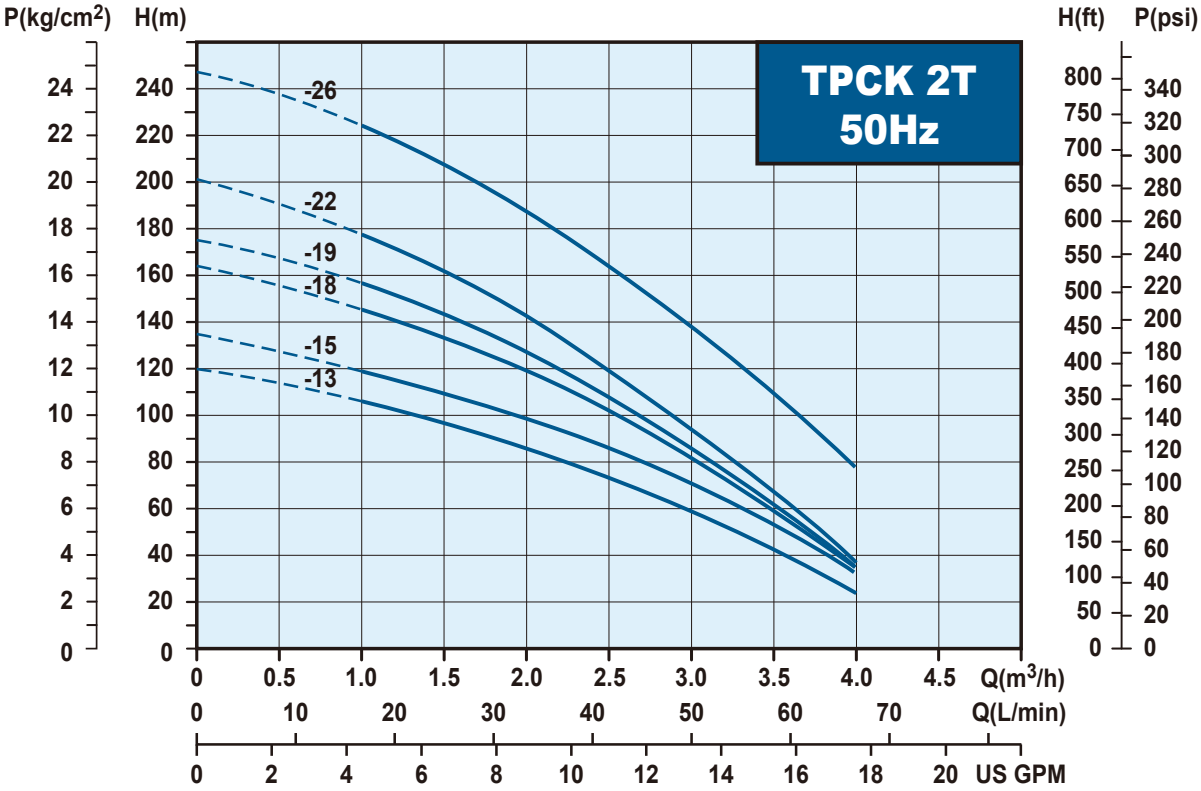




Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	N.W. (kg)	
TPCK 2T 60Hz							
TPCK2T 13-13	792	349	443	219	173	43.3	6
TPCK2T 15-15	828	385	443	219	173	43.5	6
TPCK2T 18-18	882	439	443	219	173	44.2	6
TPCK2T 20-20	918	475	443	219	173	45.5	6
TPCK2T 22-20	954	511	443	219	173	47.3	6
TPCK2T 26-20	1026	583	443	219	173	47.8	6
TPCK 2T 50Hz							
TPCK2T 13-13	724	349	375	175	142	28.8	6
TPCK2T 15-15	760	385	375	175	142	29.3	6
TPCK2T 18-18	814	439	375	175	142	30.0	6
TPCK2T 19-19	832	457	375	175	142	30.8	6
TPCK2T 22-22	886	511	375	175	142	31.3	6
TPCK2T 26-26	1026	583	443	219	173	47.6	6
TPCK 4T 60Hz							
TPCK4T 5 - 5	625	250	375	175	142	27.4	6
TPCK4T 6 - 6	652	277	375	175	142	27.7	6
TPCK4T 8 - 8	774	331	443	219	173	41.7	6
TPCK4T 10-10	828	385	443	219	173	43.1	6
TPCK4T 12-12	882	439	443	219	173	44.2	6
TPCK4T 14-12	936	493	443	219	173	44.6	6
TPCK4T 16-12	990	547	443	219	173	45.0	6
TPCK4T 17-12	1017	574	443	219	173	45.2	6
TPCK4T 19-12	1071	628	443	219	173	45.8	6
TPCK4T 22-12	1152	709	443	219	173	46.4	6
TPCK 4T 50Hz							
TPCK4T 8 - 8	706	331	375	175	142	27.1	6
TPCK4T 10-10	760	385	375	175	142	29.0	6
TPCK4T 12-12	814	439	375	175	142	29.4	6
TPCK4T 14-14	936	493	443	219	173	43.3	6
TPCK4T 16-16	990	547	443	219	173	44.8	6
TPCK4T 19-19	1071	628	443	219	173	46.1	6
TPCK4T 22-22	1152	709	443	219	173	47.6	6

TPCK 2T

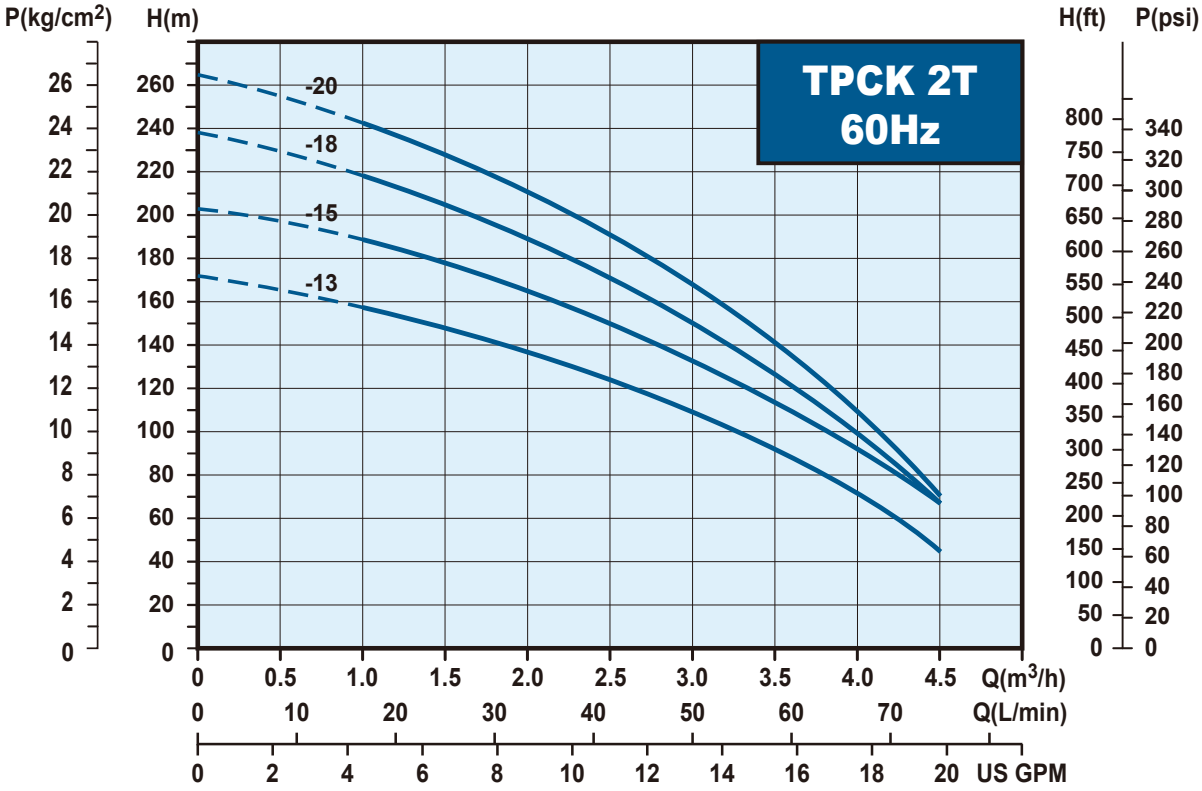
Performance curve, 50Hz



Electrical data, 50Hz

Model	PH (Ø)	Power (kW)	Volts (V)	Ampere (A)
TPCK2T 13-13	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
TPCK2T 15-15	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
TPCK2T 18-18	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
TPCK2T 19-19	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
TPCK2T 22-22	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
TPCK2T 26-26	3	3.0	198-242 / 342-418	11.4-9.3 / 6.6-5.4

Performance curve, 60Hz

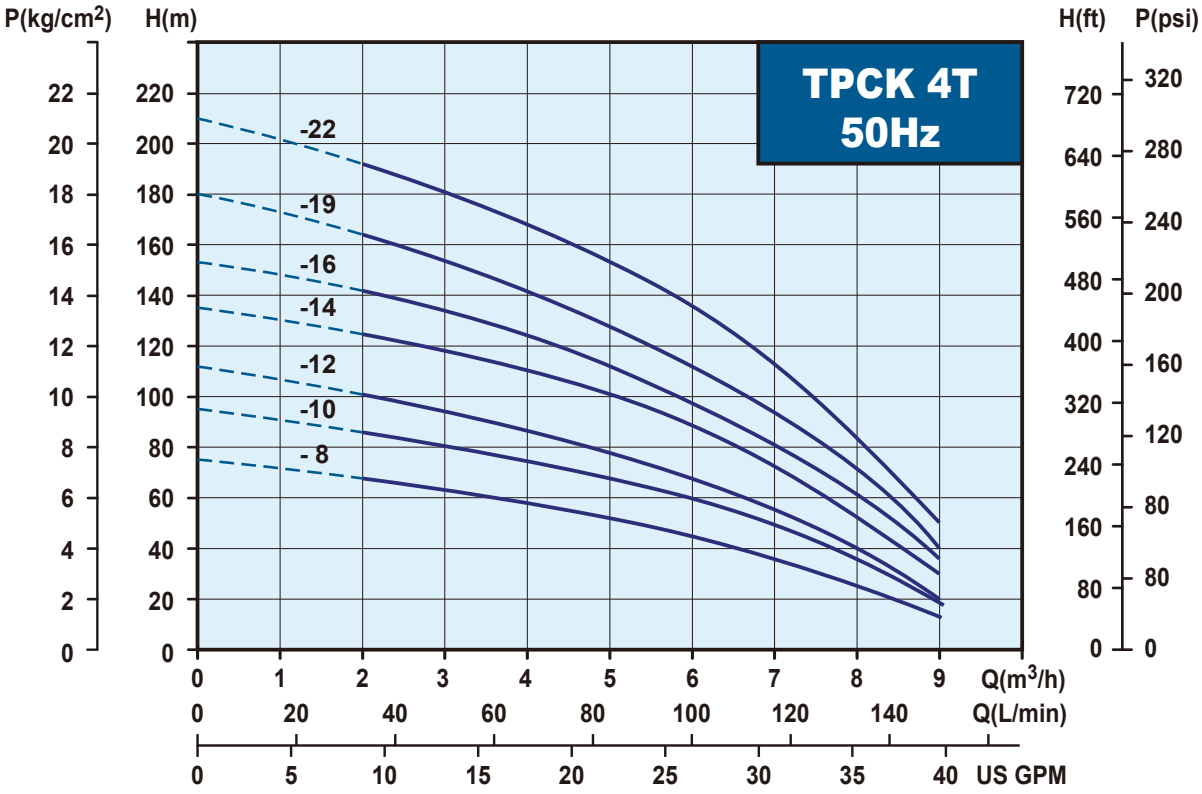


Electrical data, 60Hz

Model	PH (Ø)	Power (kW)	Volts (V)	Ampere (A)
TPCK2T 13-13	3	3.0	198-242 / 342-418	11.4-9.3 / 6.6-5.4
TPCK2T 15-15	3	3.0	198-242 / 342-418	11.4-9.3 / 6.6-5.4
TPCK2T 18-18	3	4.0	198-242 / 342-418	16.6-13.6 / 9.6-7.9
TPCK2T 20-20	3	4.0	198-242 / 342-418	16.6-13.6 / 9.6-7.9

TPCK 4T

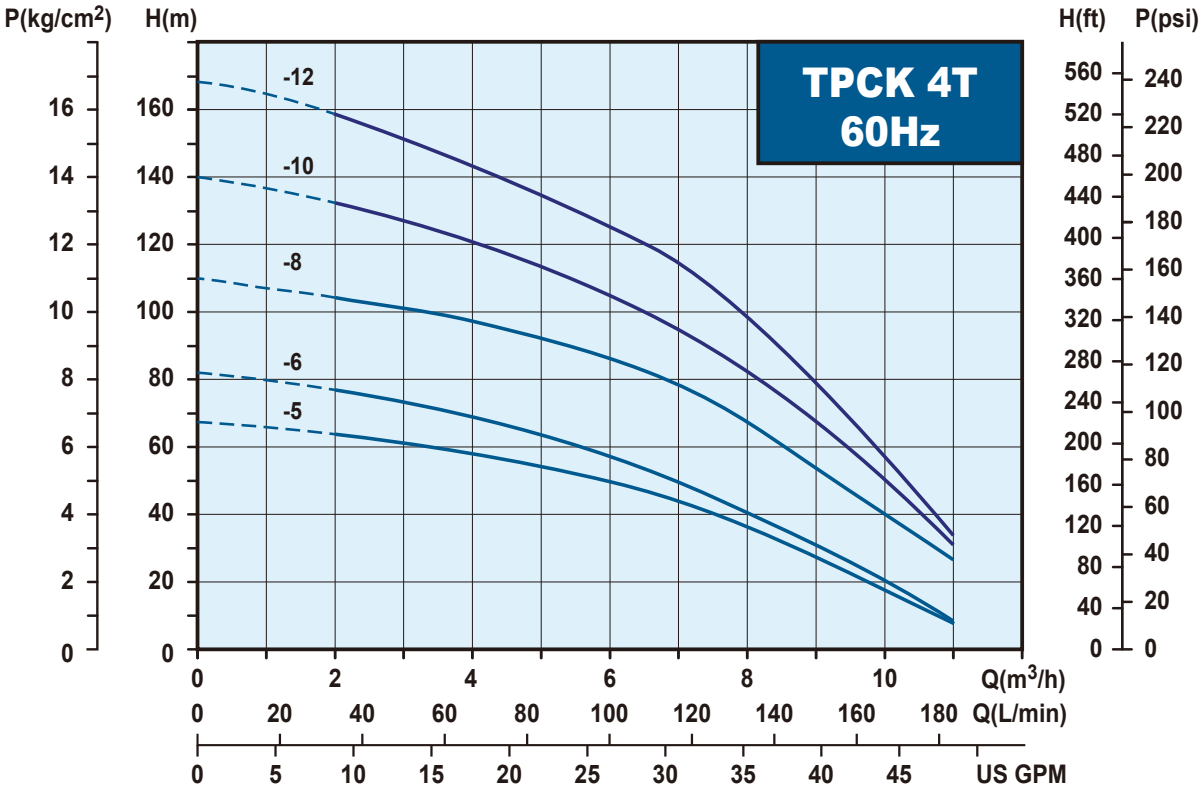
Performance curve, 50Hz



Electrical data, 50Hz

Model	PH (Ø)	Power (kW)	Volts (V)	Ampere (A)
TPCK4T 8 - 8	3	1.5	198-242 / 342-418	6.2-5.1 / 3.6-2.9
TPCK4T 10-10	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
TPCK4T 12-12	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
TPCK4T 14-14	3	3.0	198-242 / 342-418	11.4-9.3 / 6.6-5.4
TPCK4T 16-16	3	3.0	198-242 / 342-418	11.4-9.3 / 6.6-5.4
TPCK4T 19-19	3	4.0	198-242 / 342-418	16.6-13.6 / 9.6-7.9
TPCK4T 22-22	3	4.0	198-242 / 342-418	16.6-13.6 / 9.6-7.9

Performance curve, 60Hz



Electrical data, 60Hz

Model	PH (Ø)	Power (kW)	Volts (V)	Ampere (A)
TPCK4T 5 - 5	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
TPCK4T 6 - 6	3	2.2	198-242 / 342-418	8.9-7.3 / 5.1-4.2
TPCK4T 8 - 8	3	3.0	198-242 / 342-418	11.4-9.3 / 6.6-5.4
TPCK4T 10-10	3	4.0	198-242 / 342-418	16.6-13.6 / 9.6-7.9
TPCK4T 12-12	3	4.0	198-242 / 342-418	16.6-13.6 / 9.6-7.9

Memo

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WALRUS

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