

WALRUS

PUMPS CATALOGUE



Better life through innovation





WALRUS

WALRUS PUMP CO., LTD.





Pump Performance Test



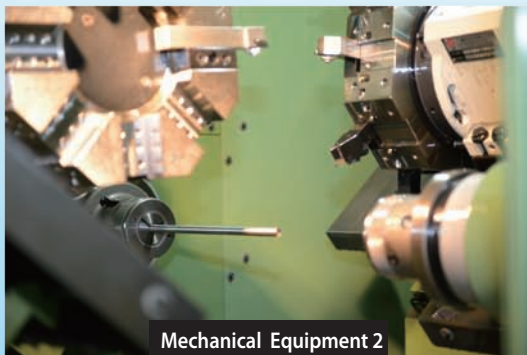
Dynamics Laboratory



CNC Facilities



Mechanical Equipment 1



Mechanical Equipment 2



Mechanical Equipment 3

WALRUS

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.

WALRUS established two primary factories in Taiwan, which located in Taipei and Kaohsiung. We invest the state of art CNC facilities to upgrade the quality of our manufacture. Industrial water pump products (TPH,TPHK,TPAK) were tested to ensure the quality and reliability.

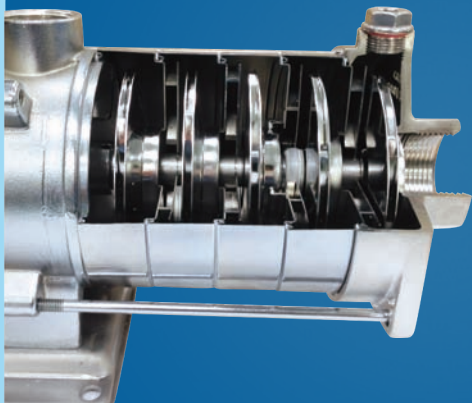
Currently, WALRUS is already the number 1 brand in Taiwan's home use market, its products are exported to over 40 countries, and it has received 5 global certifications: European CE & RoHS, Canadian CSA-C/US, Chinese 3C and ISO9001. Now, WALRUS is laying out regional markets in the US, Mainland China, Japan, Europe, India, Southeast Asia, Canada, Brazil, Australia, etc.



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.



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HQ Series Electronic Control Pump



Applications

The HQ 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.

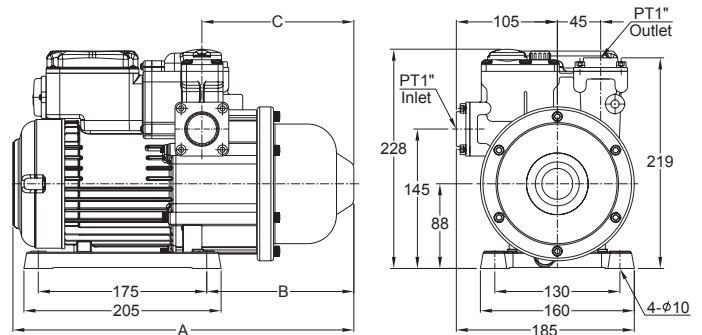
Operating Conditions

1. Ambient temperature: Max. +40°C
2. Liquid temperature: +4°C ~ +40°C
3. System Pressure : Max. 8.5 kg/cm²
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

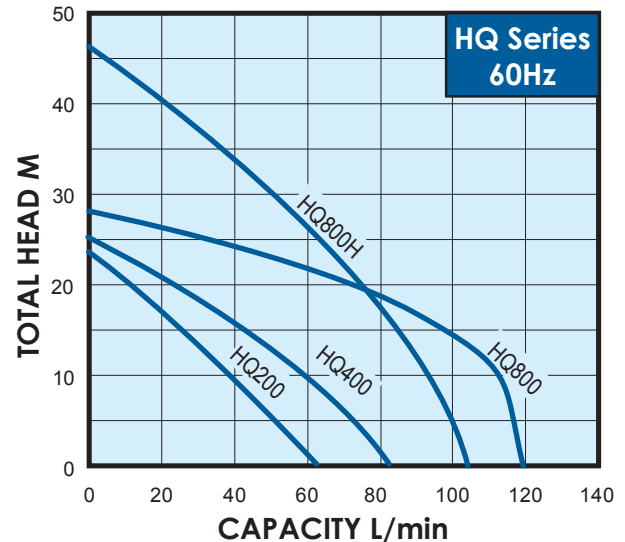
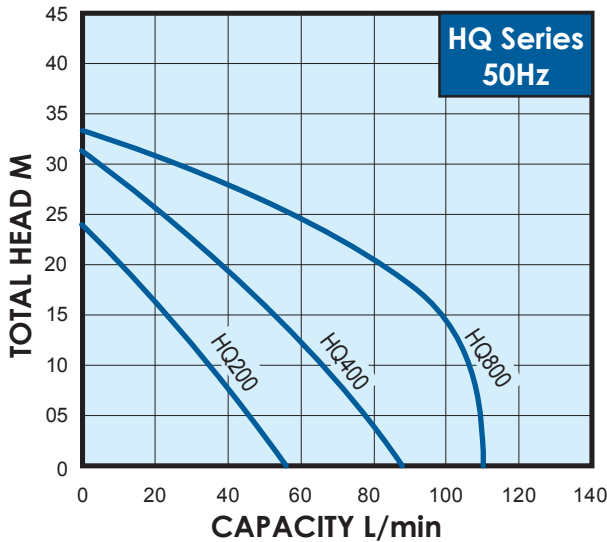
1. The HQ is a complete, all-in-one unit, consisting of pump, motor, pressure tank, and electronic controller. The built-in electronic controller provides constant pressure which ensures that the pump starts automatically when water is consumed and operates continuously until water is not required.
2. Compact design and quiet operation make the HQ series suitable for many applications.
3. The HQ 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.
6. The HQ 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




| Model | Cycle (Hz) | Dimensions(mm) | | |
|--------|--------------|----------------|-----|-----|
| | | A | B | C |
| HQ200 | 50 / 60 | 355 | 153 | 158 |
| HQ400 | 50 / 60 | 355 | 153 | 158 |
| HQ800 | 50 / 60 | 410 | 162 | 167 |
| HQ800H | 60 | 410 | 162 | 167 |


Performance curve



Specification, 50Hz

| Model | Power (kW) | Cycle (Hz) | Phase (Ø) | Voltage (V) | Amp's (A) | Inlet (in.) | Outlet (in.) | Preset activation point (kg/cm ²) | H max. (m) | Q max. (L/min) | N.W. kg |  |
|-------|------------|------------|-----------|-------------|-----------|-------------|--------------|---|------------|----------------|---------|---|
| HQ200 | 0.18 | 50 | 1 | 200~240 | 1.5 | 1" | 1" | 1.6 | 24 | 55 | 7.5 | 30 |
| HQ400 | 0.37 | 50 | 1 | 200~240 | 2.8 | 1" | 1" | 2.0 | 31 | 85 | 8.5 | 30 |
| HQ800 | 0.75 | 50 | 1 | 200~240 | 4.5 | 1" | 1" | 2.0 | 33 | 110 | 11.3 | 24 |

Specification, 60Hz

| Model | Power (kW) | Cycle (Hz) | Phase (Ø) | Voltage (V) | Amp's (A) | Inlet (in.) | Outlet (in.) | Preset activation point (kg/cm ²) | H max. (m) | Q max. (L/min) | N.W. kg |  |
|--------|------------|------------|-----------|-------------|-----------|-------------|--------------|---|------------|----------------|---------|---|
| HQ200 | 0.18 | 60 | 1 | 110/220 | 4.0/2.0 | 1" | 1" | 1.6 | 24 | 60 | 7.5 | 30 |
| HQ400 | 0.37 | 60 | 1 | 110/220 | 6.0/3.0 | 1" | 1" | 1.8 | 26 | 80 | 8.5 | 30 |
| HQ800 | 0.75 | 60 | 1 | 110/220 | 9.0/4.5 | 1" | 1" | 2.0 | 28 | 120 | 10.8 | 24 |
| HQ800H | 0.75 | 60 | 1 | 110/220 | 9.0/4.5 | 1" | 1" | 2.5 | 46 | 105 | 11.3 | |

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.

Operating Conditions

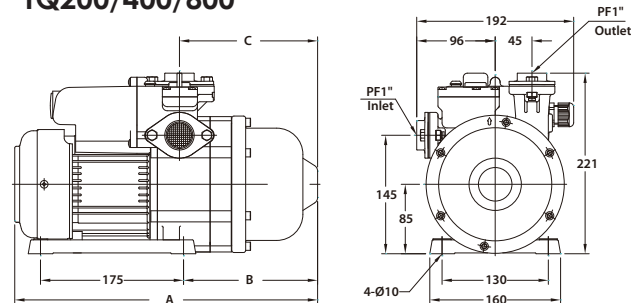
1. Ambient temperature: Max. +40°C
2. Liquid temperature: +4°C ~ +40°C
3. System Pressure : Max. 8.5 kg/cm²
4. Relative humidity: Max. 85% (RH)
5. Under normal operation, it is not necessary to adjust the pressure unless the cut in pressure is higher than preset activation point (refer to specification).

Product Features

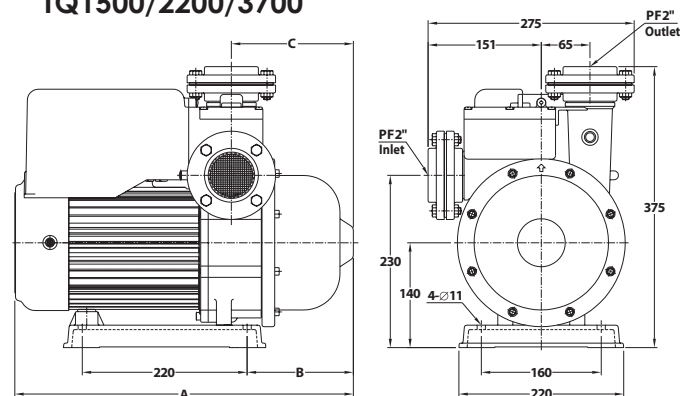
1. The TQ is a complete, all-in-one unit, consisting of pump, motor, pressure tank, and electronic controller. The built-in electronic controller provides constant pressure which ensures that the pump starts automatically when water is consumed and operates continuously until water is not required.
2. 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

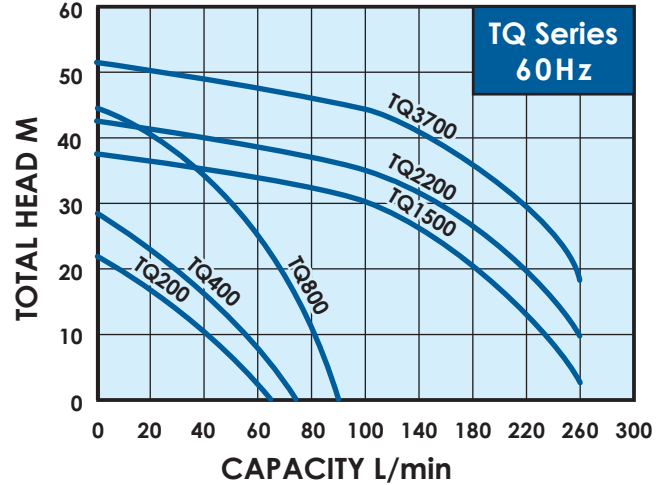
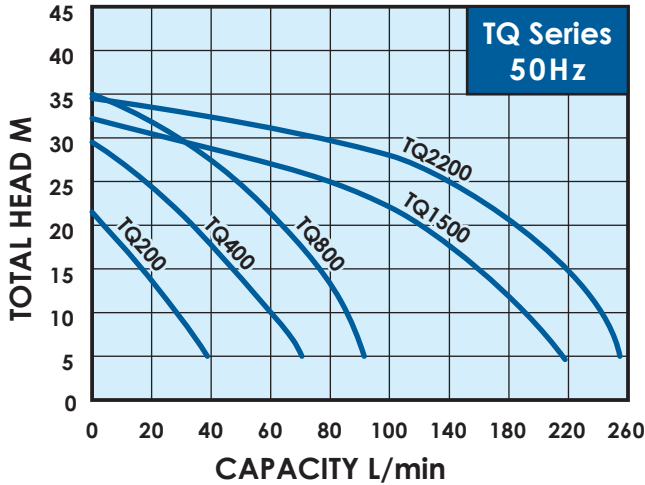


TQ1500/2200/3700




| Model | Cycle (Hz) | Dimensions (mm) | | |
|---------------|------------|-----------------|-----|-----|
| | | A | B | C |
| TQ200 | 50 | 360 | 153 | 158 |
| | 60 | 336 | 129 | 134 |
| TQ400 | 50 | 371 | 164 | 169 |
| | 60 | 345 | 138 | 143 |
| TQ800 | 50 / 60 | 417 | 164 | 169 |
| TQ1500 ~ 2200 | 50 / 60 | 452 | 142 | 163 |
| TQ3700 | 60 | 452 | 142 | 163 |


Performance curve



Specification, 50Hz

| Model | Power (kW) | Cycle (Hz) | Phase (Ø) | Voltage (V) | Amp's (A) | Inlet (in.) | Outlet (in.) | Preset activation point (kg/cm ²) | 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 | | | | | | | |
| TQ2200 | 2.2 | 50 | 1 | 200~240 | 11.1 | 2" | 2" | 2.5 | 34 | 250 | 31 | 12 |
| | | | 3 | 200~240 | 7.2 | | | | | | | |

Specification, 60Hz

| Model | Power (kW) | Cycle (Hz) | Phase (Ø) | Voltage (V) | Amp's (A) | Inlet (in.) | Outlet (in.) | Preset activation point (kg/cm ²) | 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 | | | | | | | |
| TQ2200 | 2.2 | 60 | 3 | 220 | 9.5 | 2" | 2" | 3.0 | 42 | 270 | 31 | 12 |
| TQ3700 | 3.7 | 60 | 3 | 220 | 13.8 | 2" | 2" | 3.0 | 52 | 270 | 31.5 | 12 |

HQC Series Automatic Flow-Controlled Pump



Power: 0.18 - 0.75 kW

50Hz

Head: Up to 3.5 kg/cm²

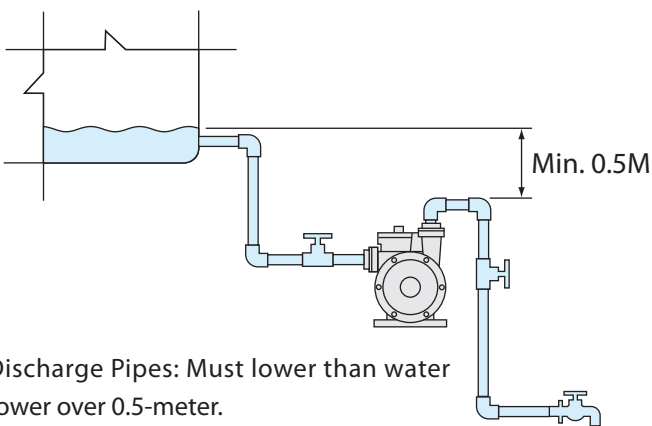
Flow: Up to 95 L/min

60Hz

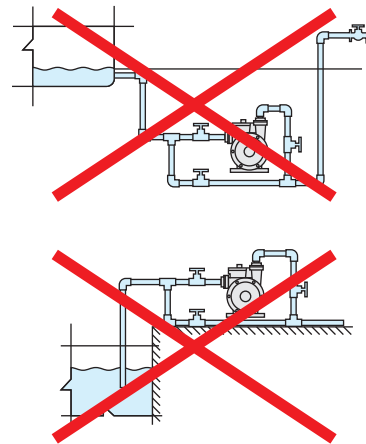
Head: Up to 4.4 kg/cm²

Flow: Up to 90 L/min

Outlet: 1"



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



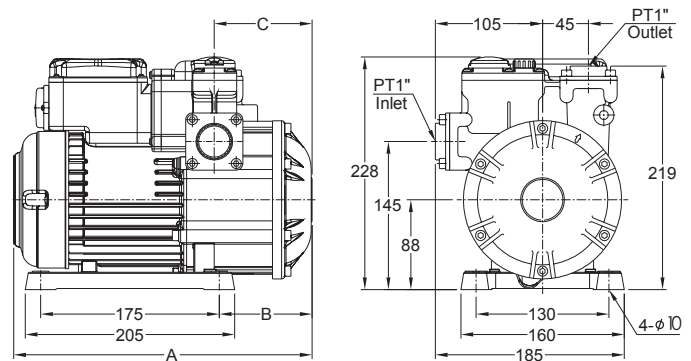
Product Features

1. This HQC 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 HQC series suitable for many applications.
3. The HQC 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.

Operating Conditions

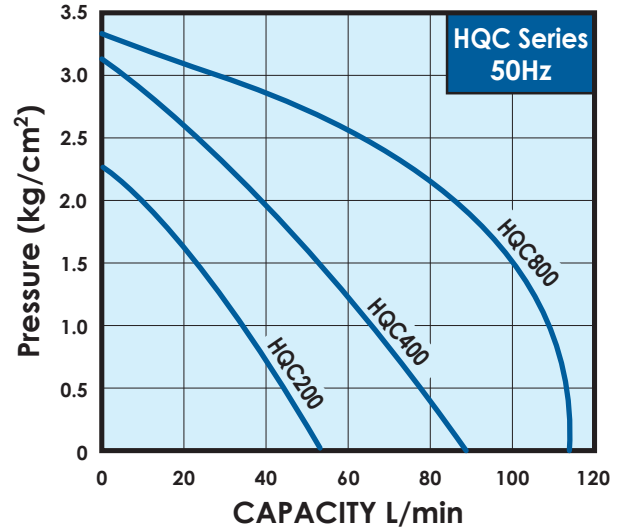
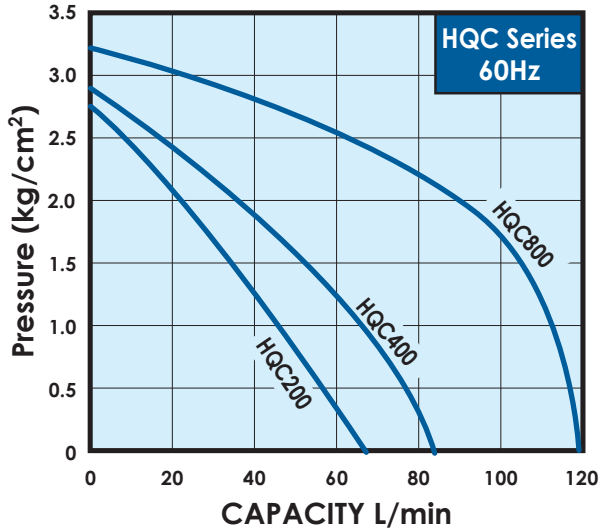
1. Ambient temperature: Max. +40°C
2. Liquid temperature: + 4°C ~ + 40°C
3. Pressure Range : Max. 6kg/cm²
4. Suction Pipes: Must run in positive pressure only a negative pressure unable to work the pump.
5. Discharge Pipes: Must lower than water tower over 0.5-meter.

Dimensions




| Model | Cycle (Hz) | Dimensions (mm) | | |
|--------|--------------|-----------------|----|-----|
| | | A | B | C |
| HQC200 | 50 / 60 | 292 | 91 | 96 |
| HQC400 | 50 / 60 | 292 | 91 | 96 |
| HQC800 | 50 / 60 | 344 | 96 | 101 |


Performance curve:



Specification, 50Hz

| Model | Power (kW) | Cycle (Hz) | Phase (∅) | Voltage (V) | Amp's (A) | Inlet (in.) | Outlet (in.) | P max. (kg/cm ²) | Q max. (L/min) | N.W. (kg) |  |
|--------|------------|------------|-----------|-------------|-----------|-------------|--------------|------------------------------|----------------|-----------|---|
| HQC200 | 0.18 | 50 | 1 | 200~240 | 1.5 | 1" | 1" | 2.4 | 55 | 7.3 | 36 |
| HQC400 | 0.37 | 50 | 1 | 200~240 | 2.8 | 1" | 1" | 3.1 | 85 | 8.3 | 36 |
| HQC800 | 0.75 | 50 | 1 | 200~240 | 4.5 | 1" | 1" | 3.3 | 110 | 11.1 | 30 |

Specification, 60Hz

| Model | Power (kW) | Cycle (Hz) | Phase (∅) | Voltage (V) | Amp's (A) | Inlet (in.) | Outlet (in.) | P max. (kg/cm ²) | Q max. (L/min) | N.W. (kg) |  |
|--------|------------|------------|-----------|-------------|-----------|-------------|--------------|------------------------------|----------------|-----------|---|
| HQC200 | 0.18 | 60 | 1 | 110/220 | 4.0/2.0 | 1" | 1" | 2.4 | 60 | 7.3 | 36 |
| HQC400 | 0.37 | 60 | 1 | 110/220 | 6.0/3.0 | 1" | 1" | 2.6 | 80 | 8.3 | 36 |
| HQC800 | 0.75 | 60 | 1 | 110/220 | 9.0/4.5 | 1" | 1" | 2.8 | 120 | 10.6 | 30 |

TQC Series Automatic Flow-Controlled Pump



Power: 0.18 - 0.75 kW

50Hz

Head: Up to 3.5 kg/cm²

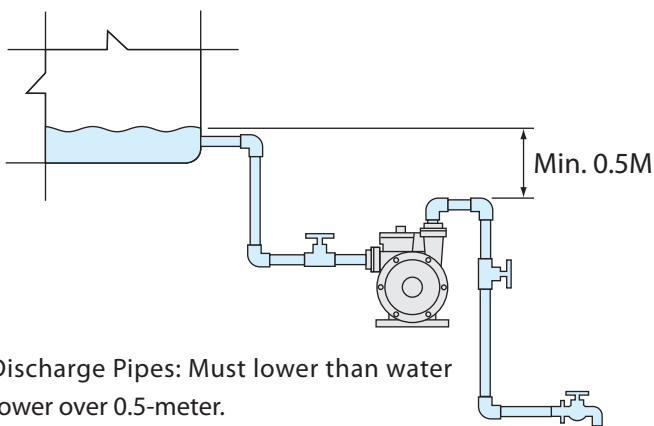
Flow: Up to 95 L/min

60Hz

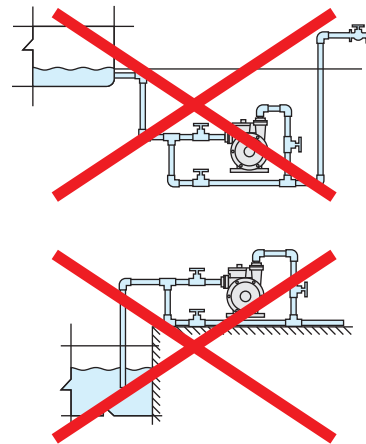
Head: Up to 4.4 kg/cm²

Flow: Up to 90 L/min

Outlet: 1"



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



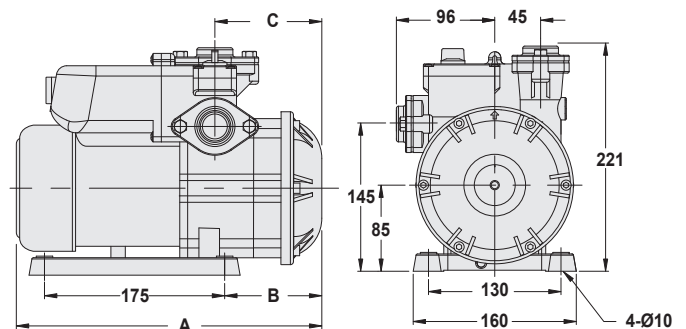
Product Features

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.

Operating Conditions

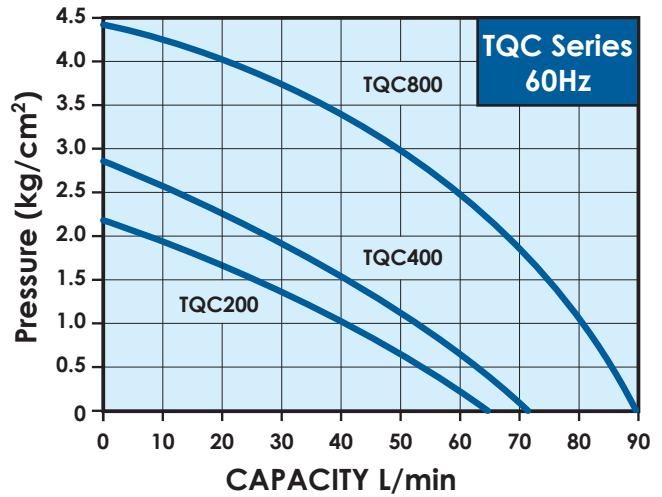
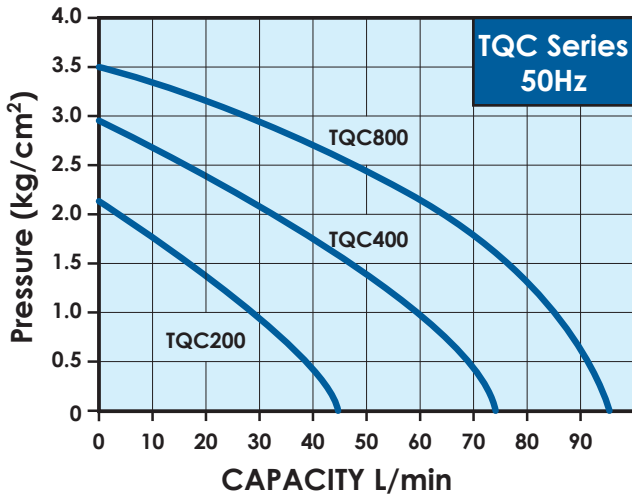
1. Ambient temperature: Max. +40°C
2. Liquid temperature: + 4°C ~ + 40°C
3. Pressure Range : Max. 6kg/cm²
4. Suction Pipes: Must run in positive pressure only a negative pressure unable to work the pump.
5. Discharge Pipes: Must lower than water tower over 0.5-meter.

Dimensions




| Model | Cycle (Hz) | Dimensions (mm) | | |
|--------|--------------|-----------------|----|-----|
| | | A | B | C |
| TQC200 | 50 | 297 | 91 | 96 |
| | 60 | 273 | 67 | 72 |
| TQC400 | 50 | 306 | 99 | 104 |
| | 60 | 280 | 73 | 78 |
| TQC800 | 50/60 | 352 | 99 | 104 |


Performance curve:



Specification, 50Hz

| Model | Power (kW) | Cycle (Hz) | Phase (∅) | Voltage (V) | Amp's (A) | Inlet (in.) | Outlet (in.) | P max. (kg/cm ²) | 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 (∅) | Voltage (V) | Amp's (A) | Inlet (in.) | Outlet (in.) | P max. (kg/cm ²) | 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 |

HQCN Series Hot Water Pump



50Hz

Power: 0.18 - 2.2 kW

Head: Up to 34M

Flow: Up to 250 L/min

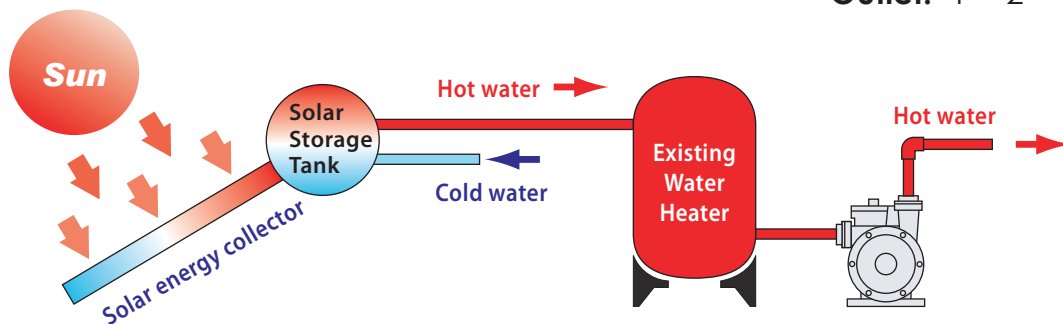
60Hz

Power: 0.18 - 3.7 kW

Head: Up to 52M

Flow: Up to 270 L/min

Outlet: 1" - 2"



Applications

This HQCN 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.

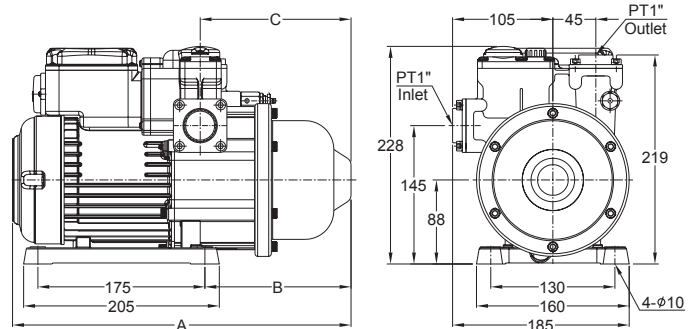
Operating Conditions

1. Ambient temperature: Max. +40°C
2. Liquid temperature: +4°C ~ +90°C
3. Relief pressure value automatically : 5kg/cm²
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

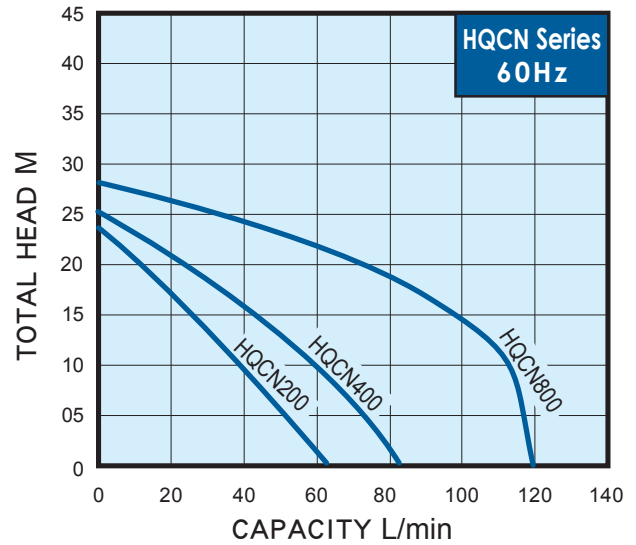
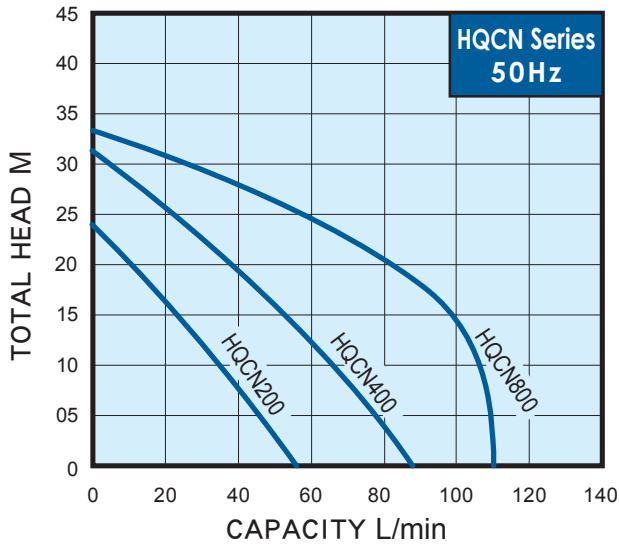
1. The HQCN is a complete, all-in-one unit, consisting of pump, motor, pressure tank, and electronic controller. The built-in electronic controller provides constant pressure which ensures that the pump starts automatically when water is consumed and operates continuously until water is not required.
2. Compact design and quiet operation make the HQCN series suitable for many applications.
3. The HQCN 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 HQCN 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 HQCN full system pressure exceeds 5kg/cm².

Dimensions




| Model | Cycle (Hz) | Dimensions(mm) | | |
|---------|--------------|----------------|-----|-----|
| | | A | B | C |
| HQCN200 | 50 / 60 | 355 | 153 | 158 |
| HQCN400 | 50 / 60 | 355 | 153 | 158 |
| HQCN800 | 50 / 60 | 410 | 162 | 167 |


Performance curve



Specification, 50Hz

| Model | Power (kW) | Cycle (Hz) | Phase (Ø) | Voltage (V) | Amp's (A) | Inlet (in.) | Outlet (in.) | Preset activation point (kg/cm ²) | H max. (m) | Q max. (L/min) | N.W. kg |  |
|---------|------------|------------|-----------|-------------|-----------|-------------|--------------|---|------------|----------------|---------|---|
| HQCN200 | 0.18 | 50 | 1 | 200~240 | 1.5 | 1" | 1" | 1.6 | 24 | 55 | 7.5 | 30 |
| HQCN400 | 0.37 | 50 | 1 | 200~240 | 2.8 | 1" | 1" | 2.0 | 31 | 85 | 8.5 | 30 |
| HQCN800 | 0.75 | 50 | 1 | 200~240 | 4.5 | 1" | 1" | 2.0 | 33 | 110 | 11.3 | 24 |

Specification, 60Hz

| Model | Power (kW) | Cycle (Hz) | Phase (Ø) | Voltage (V) | Amp's (A) | Inlet (in.) | Outlet (in.) | Preset activation point (kg/cm ²) | H max. (m) | Q max. (L/min) | N.W. kg |  |
|---------|------------|------------|-----------|-------------|-----------|-------------|--------------|---|------------|----------------|---------|---|
| HQCN200 | 0.18 | 60 | 1 | 110/220 | 4.0/2.0 | 1" | 1" | 1.6 | 24 | 60 | 7.5 | 30 |
| HQCN400 | 0.37 | 60 | 1 | 110/220 | 6.0/3.0 | 1" | 1" | 1.8 | 26 | 80 | 8.5 | 30 |
| HQCN800 | 0.75 | 60 | 1 | 110/220 | 9.0/4.5 | 1" | 1" | 2.0 | 28 | 120 | 10.8 | 24 |

TQCN Series Hot Water Pump



50Hz

Power: 0.18 - 2.2 kW

Head: Up to 34M

Flow: Up to 250 L/min

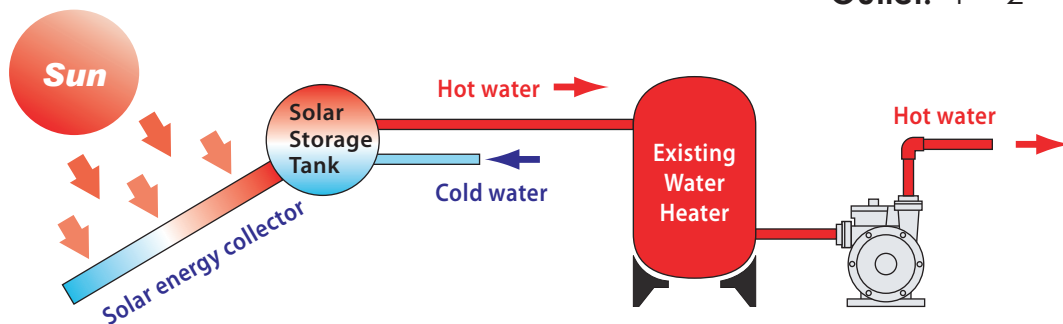
60Hz

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.

Operating Conditions

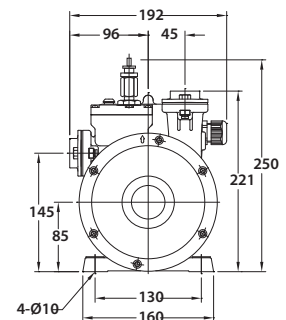
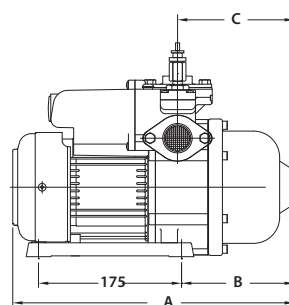
1. Ambient temperature: Max. +40°C
2. Liquid temperature: +4°C ~ +90°C
3. Relief pressure value automatically : 5kg/cm²
4. Relative humidity: Max. 85% (RH)
5. Before using the pump, be sure the inlet pressure setting is lower than factory pressure setting.

Product Features

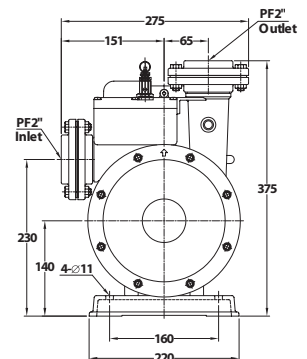
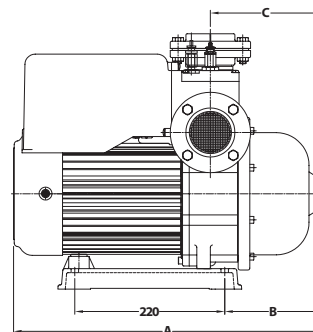
1. The TQCN is a complete, all-in-one unit, consisting of pump, motor, pressure tank, and electronic controller. The built-in electronic controller provides constant pressure which ensures that the pump starts automatically when water is consumed and operates continuously until water is not required.
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/cm².

Dimensions

TQCN 200/400/800

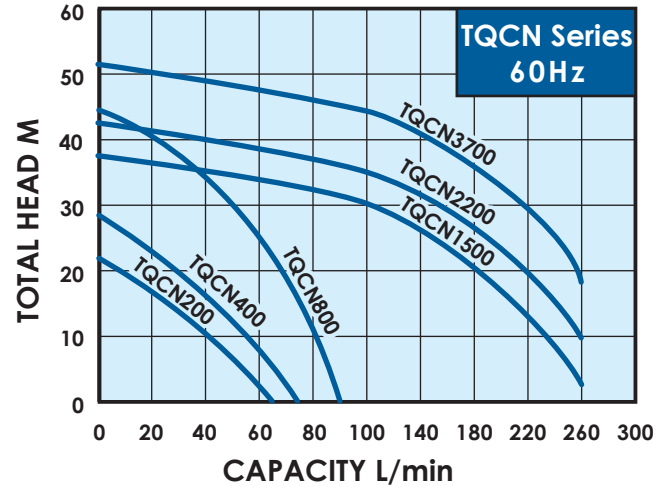
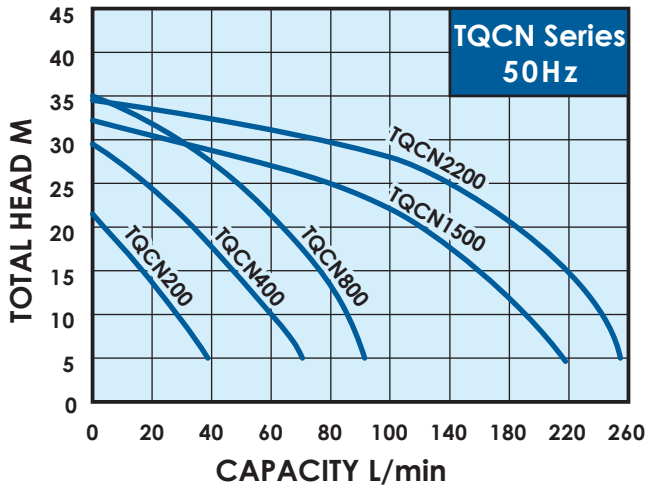


TQCN1500/2200/3700




| Model | Cycle (Hz) | Dimensions (mm) | | |
|-----------------|------------|-----------------|-----|-----|
| | | A | B | C |
| TQCN200 | 50 | 360 | 153 | 158 |
| | 60 | 336 | 129 | 134 |
| TQCN400 | 50 | 371 | 164 | 169 |
| | 60 | 345 | 138 | 143 |
| TQCN800 | 50 / 60 | 417 | 164 | 169 |
| TQCN1500 ~ 2200 | 50 / 60 | 452 | 142 | 163 |
| TQCN 3700 | 60 | 452 | 142 | 163 |


Performance curve



Specification, 50Hz

| Model | Power (kW) | Cycle (Hz) | Phase (Ø) | Voltage (V) | Amp's (A) | Inlet (in.) | Outlet (in.) | Preset activation point (kg/cm ²) | 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 | | | | | | | |
| TQCN2200 | 2.2 | 50 | 1 | 200~240 | 11.1 | 2" | 2" | 2.5 | 34 | 250 | 31 | 12 |
| | | | 3 | 200~240 | 7.2 | | | | | | | |

Specification, 60Hz

| Model | Power (kW) | Cycle (Hz) | Phase (Ø) | Voltage (V) | Amp's (A) | Inlet (in.) | Outlet (in.) | Preset activation point (kg/cm ²) | 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 | 11.6 | 24 |
| TQCN1500 | 1.5 | 60 | 1 | 220 | 9.5 | 2" | 2" | 3.0 | 37 | 270 | 28 | 12 |
| | | | 3 | 220 | 6.5 | | | | | | | |
| TQCN2200 | 2.2 | 60 | 3 | 220 | 9.5 | 2" | 2" | 3.0 | 42 | 270 | 31 | 12 |
| TQCN3700 | 3.7 | 60 | 3 | 220 | 13.8 | 2" | 2" | 3.0 | 52 | 270 | 31.5 | 12 |

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: 3/4" - 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

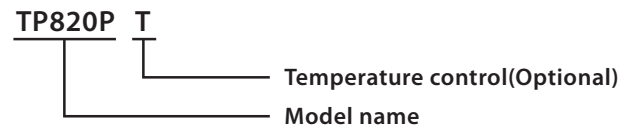
Operating Conditions

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)

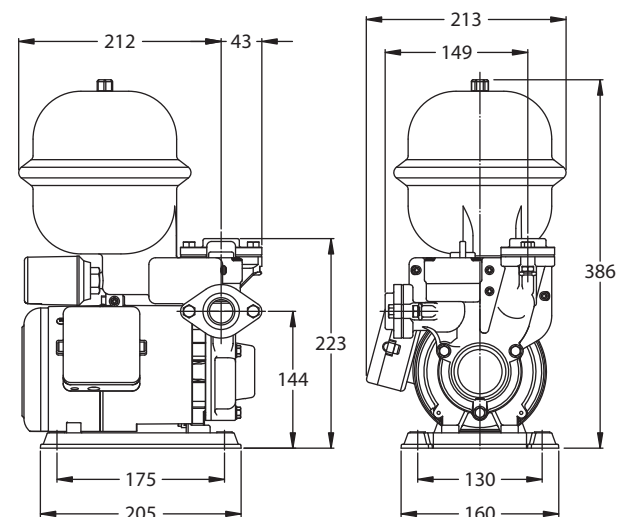
Product Features

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.

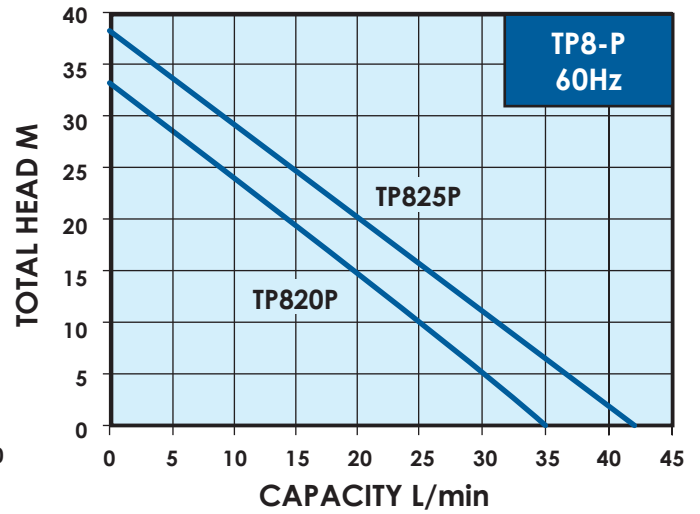
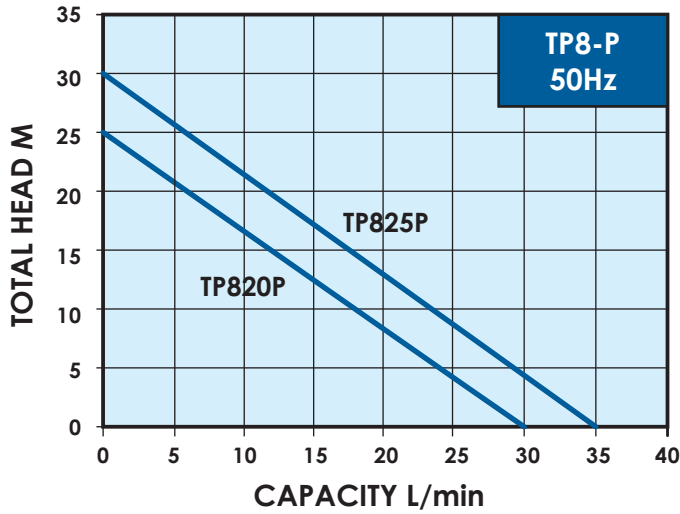
Model code




Dimensions




Performance curve



Specification, 50Hz

| Model | Power (kW) | Cycle (Hz) | Phase (Ø) | Voltage (V) | Amp's (A) | Pressure Switch kg/cm ² | | 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/cm ² | | 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.

Operating 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

The 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.

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:

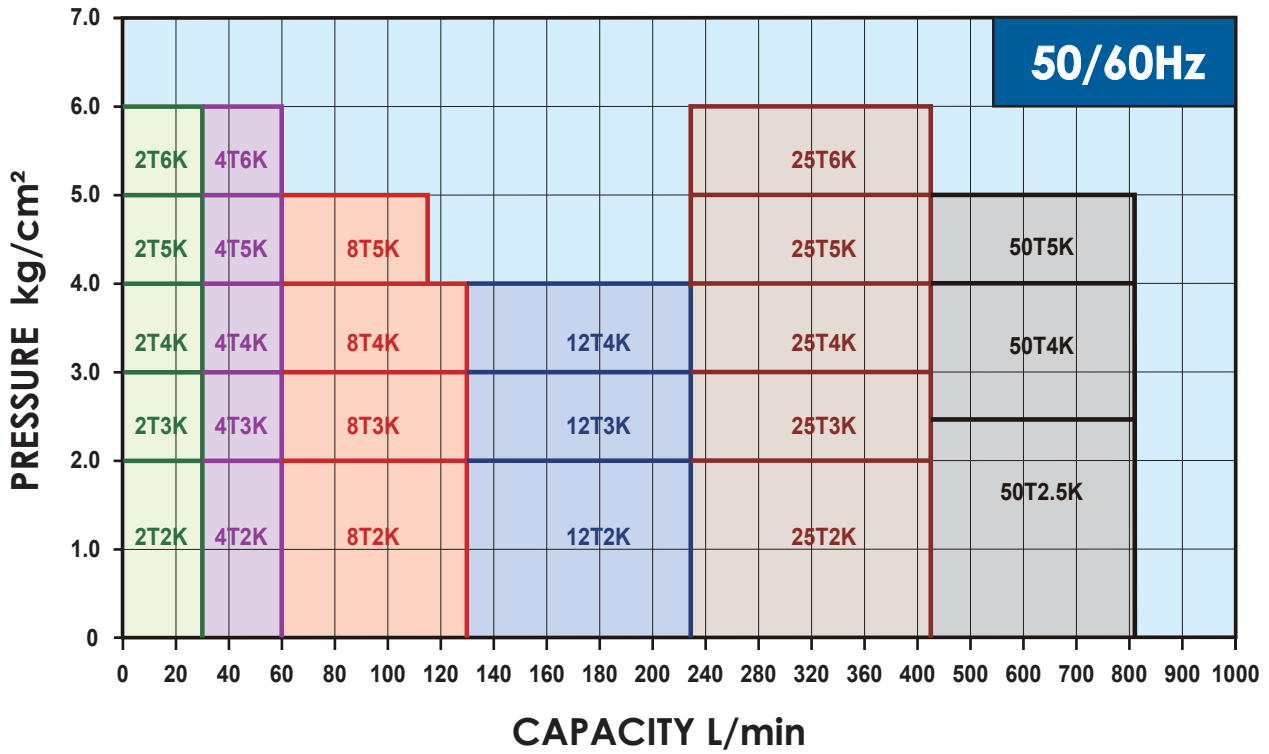
Parallel operation: When water usage is low, one unit will begin to operate until the water usage increases, when it can no longer handle the required water pressure, the other unit will start functioning in parallel. The duplex unit will switch to single unit operation automatically with the decrease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

Interchangeable operation:

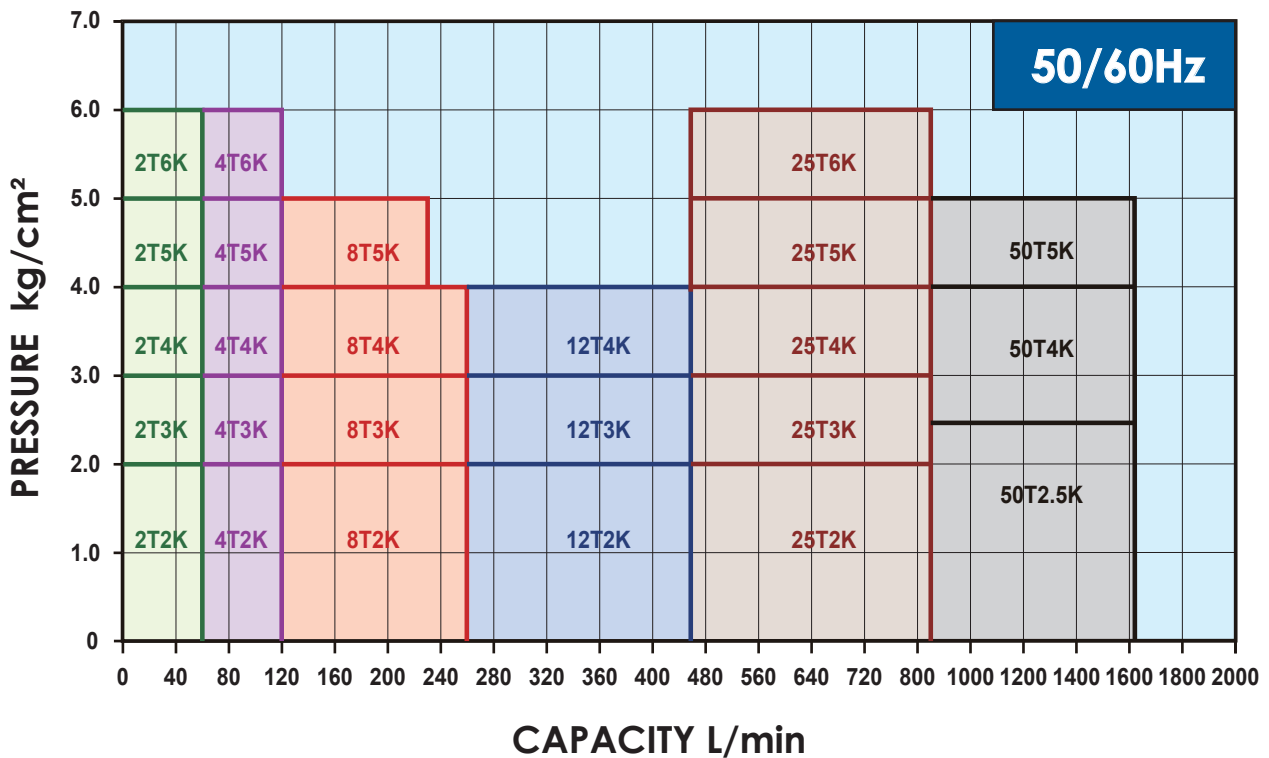
When a pump has operated through the preset interval (adjustable at 0-24 hours) the system will automatically switch to the other unit. This cycle will continue through time.



Performance curves - Single unit



Performance curves - Duplex



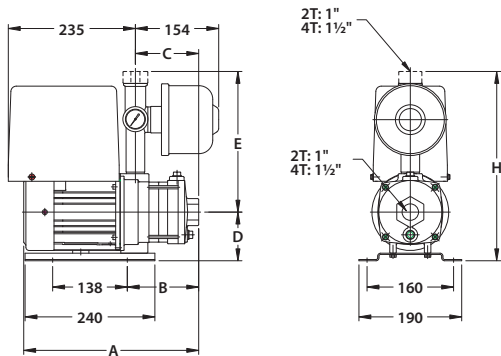
2T/4T IC

Specifications - Single unit

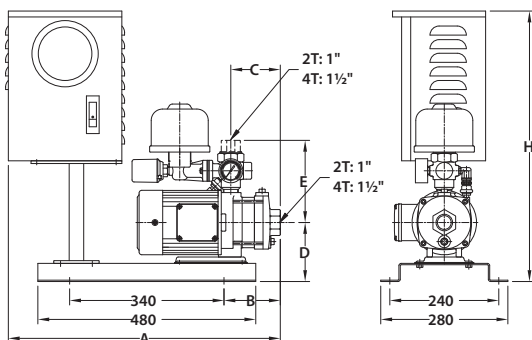
| Model | Inverter Controller Output Power (HP) | Phase (Ø) | Voltage (V) | No-Fuse Breaker | Pre-set Pressure (kg/cm ²) | Inlet (in.) | Outlet (in.) | Nominal Set Head (M) | Nominal Set Flow (L/min) |
|-----------|---------------------------------------|-----------|----------------------|-----------------|--|-------------|--------------|----------------------|--------------------------|
| TPH2T2KIC | 1 | 1Ø | 200-240V | 10A | 2.0 | 1 | 1 | 20 | 30 |
| | | 3Ø | 200-240V or 380-440V | 5A | | | | | |
| TPH2T3KIC | 1 | 1Ø | 200-240V | 10A | 3.0 | 1 | 1 | 30 | 30 |
| | | 3Ø | 200-240V or 380-440V | 5A | | | | | |
| TPH2T4KIC | 1 | 1Ø | 200-240V | 10A | 4.0 | 1 | 1 | 40 | 30 |
| | | 3Ø | 200-240V or 380-440V | 5A | | | | | |
| TPH2T5KIC | 1 | 1Ø | 200-240V | 10A | 5.0 | 1 | 1 | 50 | 30 |
| | | 3Ø | 200-240V or 380-440V | 5A | | | | | |
| TPH2T6KIC | 1 | 1Ø | 200-240V | 10A | 6.0 | 1 | 1 | 60 | 30 |
| | | 3Ø | 200-240V or 380-440V | 10A 5 A | | | | | |
| TPH4T2KIC | 1 | 1Ø | 200-240V | 10A | 2.0 | 1½ | 1½ | 20 | 60 |
| | | 3Ø | 200-240V or 380-440V | 5A | | | | | |
| TPH4T3KIC | 1 | 1Ø | 200-240V | 10A | 3.0 | 1½ | 1½ | 30 | 60 |
| | | 3Ø | 200-240V or 380-440V | 10A 5 A | | | | | |
| TPH4T4KIC | 2 | 1Ø | 200-240V | 15A | 4.0 | 1½ | 1½ | 40 | 60 |
| | | 3Ø | 200-240V or 380-440V | 10A 5 A | | | | | |
| TPH4T5KIC | 2 | 1Ø | 200-240V | 15A | 5.0 | 1½ | 1½ | 50 | 60 |
| | | 3Ø | 200-240V or 380-440V | 10A | | | | | |
| TPH4T6KIC | 2 | 1Ø | 200-240V | 20A | 6.0 | 1½ | 1½ | 60 | 60 |
| | | 3Ø | 200-240V or 380-440V | 15A 10A | | | | | |

Dimensions (mm)

• Fig.1 TPH2T/4T – IC



• Fig.2 TPH2T/4T – ICV



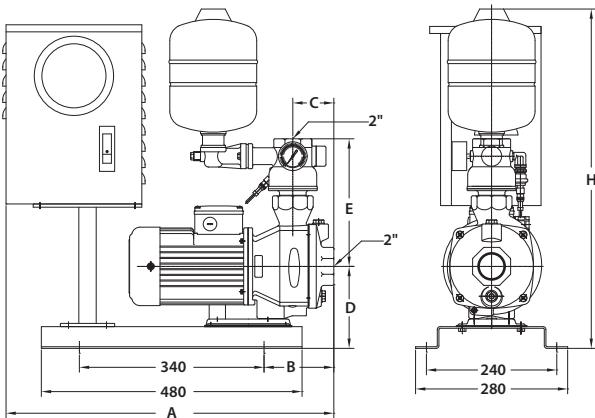
| Model | A | B | C | D | E | H | Pressure tank (L) | Fig |
|------------|-----|-----|-----|-----|-----|-----|-------------------|-----|
| TPH2T2KIC | 306 | 114 | 99 | 90 | 267 | 357 | 0.8 | 1 |
| TPH2T3KIC | 324 | 132 | 117 | 90 | 267 | 357 | 0.8 | 1 |
| TPH2T4KIC | 342 | 150 | 135 | 90 | 267 | 357 | 0.8 | 1 |
| TPH2T5KIC | 400 | 168 | 153 | 90 | 267 | 357 | 0.8 | 1 |
| TPH2T6KIC | 418 | 186 | 171 | 90 | 267 | 357 | 0.8 | 1 |
| TPH2T2KICV | 589 | 114 | 99 | 130 | 181 | 596 | 0.8 | 2 |
| TPH2T3KICV | 607 | 132 | 117 | 130 | 181 | 596 | 0.8 | 2 |
| TPH2T4KICV | 625 | 150 | 135 | 130 | 181 | 596 | 0.8 | 2 |
| TPH2T5KICV | 643 | 168 | 153 | 130 | 181 | 596 | 0.8 | 2 |
| TPH2T6KICV | 661 | 186 | 171 | 130 | 181 | 596 | 0.8 | 2 |
| TPH4T2KIC | 315 | 123 | 108 | 90 | 238 | 328 | 0.8 | 1 |
| TPH4T3KIC | 382 | 150 | 135 | 90 | 238 | 328 | 0.8 | 1 |
| TPH4T4KIC | 409 | 177 | 162 | 90 | 238 | 328 | 0.8 | 1 |
| TPH4T5KIC | 436 | 204 | 189 | 90 | 238 | 328 | 0.8 | 1 |
| TPH4T6KIC | 494 | 231 | 216 | 90 | 238 | 328 | 0.8 | 1 |
| TPH4T2KICV | 598 | 123 | 108 | 130 | 153 | 596 | 0.8 | 2 |
| TPH4T3KICV | 625 | 150 | 135 | 130 | 153 | 596 | 0.8 | 2 |
| TPH4T4KICV | 652 | 177 | 162 | 130 | 153 | 596 | 0.8 | 2 |
| TPH4T5KICV | 679 | 204 | 189 | 130 | 153 | 596 | 0.8 | 2 |
| TPH4T6KICV | 706 | 231 | 216 | 130 | 153 | 596 | 0.8 | 2 |

Specifications - Single unit

| Model | Inverter Controller Output Power (HP) | Phase (Ø) | Voltage (V) | No-Fuse Breaker | 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 | 10A | 2.0 | 2 | 2 | 20 | 130 |
| | | 3Ø | 200-240V or 380-440V | 10A 5 A | | | | | |
| TPH 8 T 3 KIC | 2 | 1Ø | 200-240V | 15A | 3.0 | 2 | 2 | 30 | 130 |
| | | 3Ø | 200-240V or 380-440V | 10A 5 A | | | | | |
| TPH 8 T 4 KIC | 3 | 1Ø | 200-240V | 20A | 4.0 | 2 | 2 | 40 | 130 |
| | | 3Ø | 200-240V or 380-440V | 15A 10A | | | | | |
| TPH 8 T 5 KIC | 3 | 1Ø | 200-240V | 20A | 5.0 | 2 | 2 | 50 | 115 |
| | | 3Ø | 200-240V or 380-440V | 15A 10A | | | | | |
| TPH12T 2 KIC | 2 | 1Ø | 200-240V | 15A | 2.0 | 2 | 2 | 20 | 230 |
| | | 3Ø | 200-240V or 380-440V | 10A | | | | | |
| TPH12T 3 KIC | 3 | 1Ø | 200-240V | 20A | 3.0 | 2 | 2 | 30 | 230 |
| | | 3Ø | 200-240V or 380-440V | 15A 10A | | | | | |
| TPH12T 4 KIC | 5 | 3Ø | 200-240V or 380-440V | 30A 20A | 4.0 | 2 | 2 | 40 | 230 |

Dimensions (mm)

• Fig.3 TPH8T /12T - IC



| Model | A | B | C | D | E | H | Pressure tank (L) | Fig |
|------------|-------|-------|-----|-----|-----|-----|-------------------|-----|
| TPH8T2KIC | 603.5 | 128.5 | 75 | 151 | 235 | 625 | 4 | 3 |
| TPH8T3KIC | 635 | 160 | 107 | 151 | 235 | 625 | 4 | 3 |
| TPH8T4KIC | 635 | 160 | 107 | 151 | 235 | 625 | 4 | 3 |
| TPH8T5KIC | 669 | 194 | 141 | 151 | 235 | 625 | 4 | 3 |
| TPH12T2KIC | 603.5 | 128.5 | 75 | 151 | 235 | 625 | 4 | 3 |
| TPH12T3KIC | 635 | 160 | 107 | 151 | 235 | 625 | 4 | 3 |
| TPH12T4KIC | 635 | 160 | 107 | 151 | 235 | 625 | 4 | 3 |

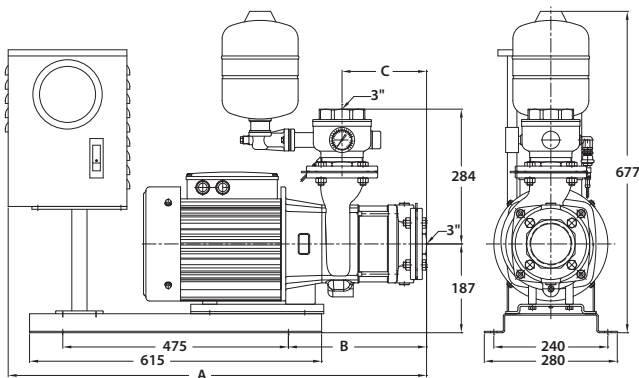
25T/50T IC

Specifications - Single unit

| Model | Inverter Controller Output Power (HP) | Phase (Ø) | Voltage (V) | No-Fuse Breaker | | 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 | 20A | 15A | 2.0 | 3 | 3 | 20 | 415 |
| TPH25T 3 KIC | 5 | 3Ø | 200-240V or 380-440V | 30A | 15A | 3.0 | 3 | 3 | 30 | 415 |
| TPH25T 4 KIC | 7½ | 3Ø | 200-240V or 380-440V | 30A | 20A | 4.0 | 3 | 3 | 40 | 415 |
| TPH25T 5 KIC | 10 | 3Ø | 200-240V or 380-440V | 40A | 20A | 5.0 | 3 | 3 | 50 | 415 |
| TPH25T 6 KIC | 10 | 3Ø | 200-240V or 380-440V | 50A | 30A | 6.0 | 3 | 3 | 60 | 415 |
| | | | | | | | | | | |
| TPH50T2.5KIC | 7½ | 3Ø | 200-240V or 380-440V | 40A | 30A | 2.5 | 4 | 4 | 25 | 810 |
| TPH50T 4 KIC | 10 | 3Ø | 200-240V or 380-440V | 60A | 40A | 4.0 | 4 | 4 | 40 | 810 |
| TPH50T 5 KIC | 15 | 3Ø | 200-240V or 380-440V | 75A | 40A | 5.0 | 4 | 4 | 50 | 810 |

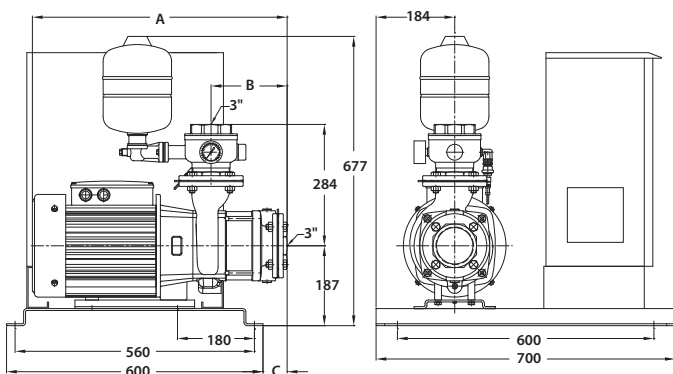
Dimensions (mm)

• Fig. 4 TPH 25T2KIC / TPH 25T3KIC

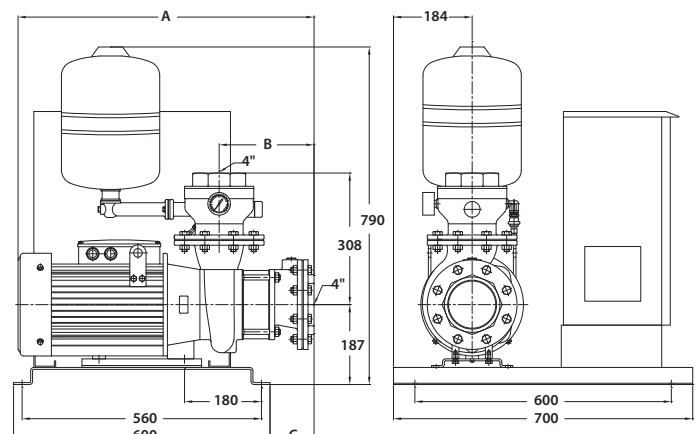


| Model | A | B | C | Pressure tank (L) | Fig |
|--------------|-----|-----|-----|-------------------|-----|
| TPH25T2KIC | 821 | 231 | 118 | 4 | 4 |
| TPH25T3KIC | 881 | 291 | 178 | 4 | 4 |
| TPH25T4KIC | 596 | 178 | 57 | 4 | 5 |
| TPH25T5KIC | 706 | 238 | 117 | 4 | 5 |
| TPH25T6KIC | 706 | 238 | 117 | 4 | 5 |
| | | | | | |
| TPH50T2.5KIC | 583 | 162 | 43 | 12 | 6 |
| TPH50T4KIC | 693 | 222 | 103 | 12 | 6 |
| TPH50T5KIC | 743 | 222 | 103 | 12 | 6 |

• Fig. 5 TPH 25T4KIC ~ TPH25T6KIC



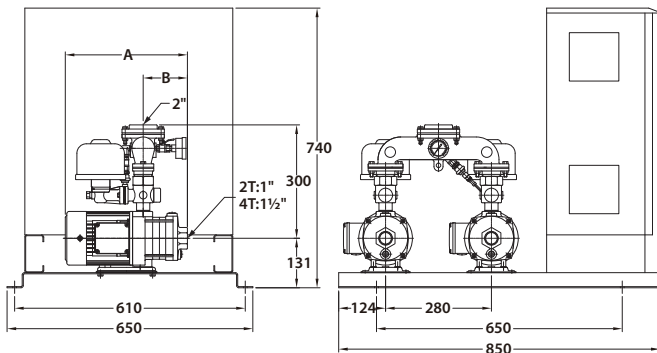
• Fig. 6 TPH 50T - IC



Specifications - Duplex

| Model | Inverter Controller Output Power (HP) | Phase (Ø) | Voltage (V) | No-Fuse Breaker | 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 | 15A | 2.0 | 1 | 2 | 20 | 60 |
| | | 3Ø | 200-240V or 380-440V | 10A 5 A | | | | | |
| TPH2T3KIC x2 | 1 x2 | 1Ø | 200-240V | 15A | 3.0 | 1 | 2 | 30 | 60 |
| | | 3Ø | 200-240V or 380-440V | 10A 5 A | | | | | |
| TPH2T4KIC x2 | 1 x2 | 1Ø | 200-240V | 15A | 4.0 | 1 | 2 | 40 | 60 |
| | | 3Ø | 200-240V or 380-440V | 10A 5 A | | | | | |
| TPH2T5KIC x2 | 1 x2 | 1Ø | 200-240V | 15A | 5.0 | 1 | 2 | 50 | 60 |
| | | 3Ø | 200-240V or 380-440V | 10A | | | | | |
| TPH2T6KIC x2 | 1 x2 | 1Ø | 200-240V | 20A | 6.0 | 1 | 2 | 60 | 60 |
| | | 3Ø | 200-240V or 380-440V | 15A 10A | | | | | |
| TPH4T2KIC x2 | 1 x2 | 1Ø | 200-240V | 15A | 2.0 | 1½ | 2 | 20 | 120 |
| | | 3Ø | 200-240V or 380-440V | 10A 5 A | | | | | |
| TPH4T3KIC x2 | 1 x2 | 1Ø | 200-240V | 20A | 3.0 | 1½ | 2 | 30 | 120 |
| | | 3Ø | 200-240V or 380-440V | 15A 10A | | | | | |
| TPH4T4KIC x2 | 2 x2 | 1Ø | 200-240V | 25A | 4.0 | 1½ | 2 | 40 | 120 |
| | | 3Ø | 200-240V or 380-440V | 15A 10A | | | | | |
| TPH4T5KIC x2 | 2 x2 | 1Ø | 200-240V | 30A | 5.0 | 1½ | 2 | 50 | 120 |
| | | 3Ø | 200-240V or 380-440V | 20A 15A | | | | | |
| TPH4T6KIC x2 | 2 x2 | 1Ø | 200-240V | 40A | 6.0 | 1½ | 2 | 60 | 120 |
| | | 3Ø | 200-240V or 380-440V | 25A 15A | | | | | |

Dimensions (mm)



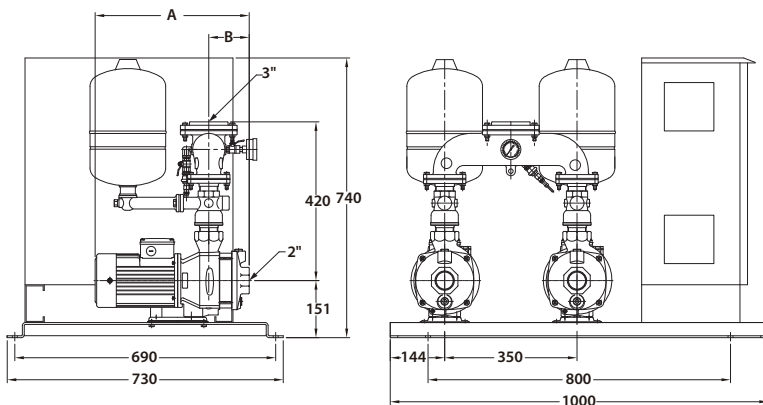
| Model | A | B | Pressure tank (L) |
|--------------|-----|-----|-------------------|
| TPH2T2KIC x2 | 306 | 99 | 0.8 x2 |
| TPH2T3KIC x2 | 324 | 117 | 0.8 x2 |
| TPH2T4KIC x2 | 342 | 135 | 0.8 x2 |
| TPH2T5KIC x2 | 400 | 153 | 0.8 x2 |
| TPH2T6KIC x2 | 418 | 171 | 0.8 x2 |
| TPH4T2KIC x2 | 315 | 108 | 0.8 x2 |
| TPH4T3KIC x2 | 382 | 135 | 0.8 x2 |
| TPH4T4KIC x2 | 409 | 162 | 0.8 x2 |
| TPH4T5KIC x2 | 436 | 189 | 0.8 x2 |
| TPH4T6KIC x2 | 494 | 216 | 0.8 x2 |

8T/12T ICx2

Specifications - Duplex

| Model | Inverter Controller Output Power (HP) | Phase (∅) | Voltage (V) | No-Fuse Breaker | Pre-set Pressure (kg/cm ²) | Inlet (in.) | Outlet (in.) | Nominal Set Head (M) | Nominal Set Flow (L/min) |
|------------------|---------------------------------------|-----------|----------------------|-----------------|--|-------------|--------------|----------------------|--------------------------|
| TPH 8 T 2 KIC x2 | 1 x2 | 1∅ | 200-240V | 20A | 2.0 | 2 | 3 | 20 | 260 |
| | | 3∅ | 200-240V or 380-440V | 15A 10A | | | | | |
| TPH 8 T 3 KIC x2 | 2 x2 | 1∅ | 200-240V | 30A | 3.0 | 2 | 3 | 30 | 260 |
| | | 3∅ | 200-240V or 380-440V | 20A 10A | | | | | |
| TPH 8 T 4 KIC x2 | 3 x2 | 1∅ | 200-240V | 40A | 4.0 | 2 | 3 | 40 | 260 |
| | | 3∅ | 200-240V or 380-440V | 30A 20A | | | | | |
| TPH 8 T 5 KIC x2 | 3 x2 | 1∅ | 200-240V | 40A | 5.0 | 2 | 3 | 50 | 230 |
| | | 3∅ | 200-240V or 380-440V | 30A 15A | | | | | |
| TPH12T 2 KIC x2 | 2 x2 | 1∅ | 200-240V | 30A | 2.0 | 2 | 3 | 20 | 460 |
| | | 3∅ | 200-240V or 380-440V | 20A 15A | | | | | |
| TPH12T 3 KIC x2 | 3 x2 | 1∅ | 200-240V | 40A | 3.0 | 2 | 3 | 30 | 460 |
| | | 3∅ | 200-240V or 380-440V | 30A 20A | | | | | |
| TPH12T 4 KIC x2 | 5 x2 | 3∅ | 200-240V or 380-440V | 60A 50A | 4.0 | 2 | 3 | 40 | 460 |

Dimensions (mm)



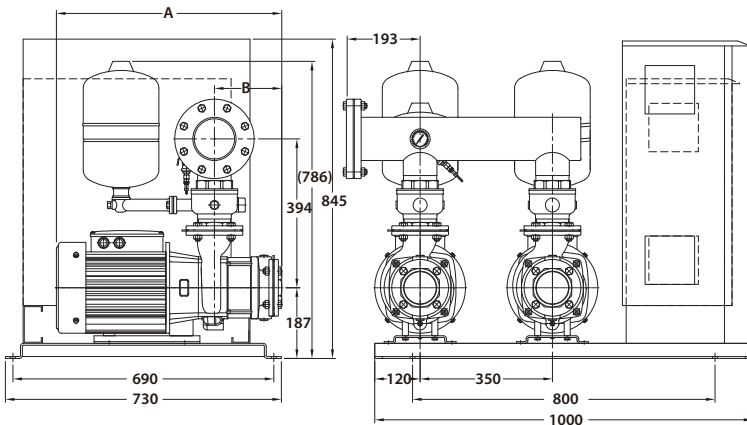
| Model | A | B | Pressure tank (L) |
|---------------|-------|-----|-------------------|
| TPH8T2KIC x2 | 376.5 | 75 | 12 x2 |
| TPH8T3KIC x2 | 408.5 | 107 | 12 x2 |
| TPH8T4KIC x2 | 435.5 | 107 | 12 x2 |
| TPH8T5KIC x2 | 469.5 | 141 | 12 x2 |
| TPH12T2KIC x2 | 376.5 | 75 | 12 x2 |
| TPH12T3KIC x2 | 435.5 | 107 | 12 x2 |
| TPH12T4KIC x2 | 435.5 | 107 | 12 x2 |

Specifications - Duplex

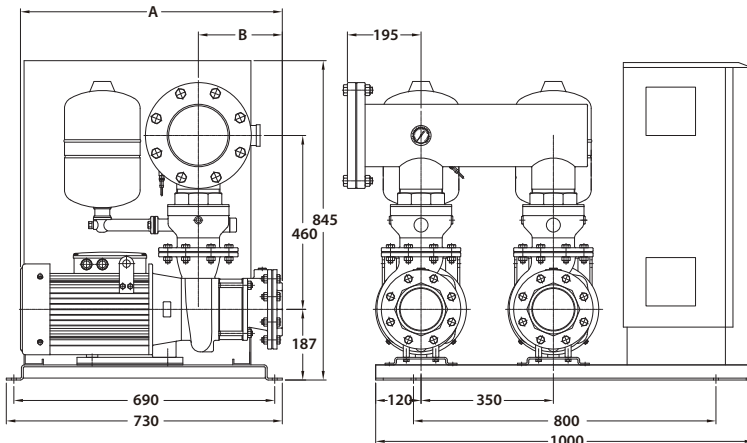
| Model | Inverter Controller Output Power (HP) | Phase (Ø) | Voltage (V) | No-Fuse Breaker | | Pre-set Pressure (kg/cm ²) | Inlet (in.) | Outlet (in.) | Nominal Set Head (M) | Nominal Set Flow (L/min) |
|-----------------|---------------------------------------|-----------|----------------------|-----------------|------|--|-------------|--------------|----------------------|--------------------------|
| TPH25T 2 KIC x2 | 5 x2 | 3Ø | 200-240V or 380-440V | 40A | 30A | 2.0 | 3 | 4 | 20 | 830 |
| TPH25T 3 KIC x2 | 5 x2 | 3Ø | 200-240V or 380-440V | 50A | 30A | 3.0 | 3 | 4 | 30 | 830 |
| TPH25T 4 KIC x2 | 7½ x2 | 3Ø | 200-240V or 380-440V | 75A | 40A | 4.0 | 3 | 4 | 40 | 830 |
| TPH25T 5 KIC x2 | 10 x2 | 3Ø | 200-240V or 380-440V | 100A | 50A | 5.0 | 3 | 4 | 50 | 830 |
| TPH25T 6 KIC x2 | 10 x2 | 3Ø | 200-240V or 380-440V | 100A | 60A | 6.0 | 3 | 4 | 60 | 830 |
| | | | | | | | | | | |
| TPH50T2.5KIC x2 | 7½ x2 | 3Ø | 200-240V or 380-440V | 75A | 50A | 2.5 | 4 | 6 | 25 | 1610 |
| TPH50T 4 KIC x2 | 10 x2 | 3Ø | 200-240V or 380-440V | 125A | 75A | 4.0 | 4 | 6 | 40 | 1610 |
| TPH50T 5 KIC x2 | 15 x2 | 3Ø | 200-240V or 380-440V | 150A | 100A | 5.0 | 4 | 6 | 50 | 1610 |

Dimensions (mm)

• Fig. 7 TPH 25T – IC x2



• Fig. 8 TPH 50T – IC x2



| Model | A | B | Pressure tank (L) | Fig |
|-----------------|-------|-----|-------------------|-----|
| TPH25T2KIC x2 | 536 | 118 | 12 x2 | 7 |
| TPH25T3KIC x2 | 596 | 178 | 12 x2 | 7 |
| TPH25T4KIC x2 | 596 | 178 | 12 x2 | 7 |
| TPH25T5KIC x2 | 706 | 238 | 12 x2 | 7 |
| TPH25T6KIC x2 | 706 | 238 | 12 x2 | 7 |
| | | | | |
| TPH50T2.5KIC x2 | 582.5 | 162 | 12 x2 | 8 |
| TPH50T4KIC x2 | 692.5 | 222 | 12 x2 | 8 |
| TPH50T5KIC x2 | 742.5 | 222 | 12 x2 | 8 |

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

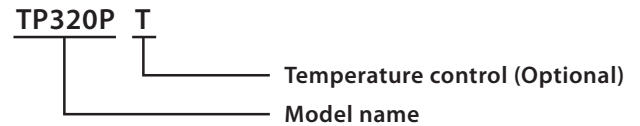
Outlet: 3/4" - 1"

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



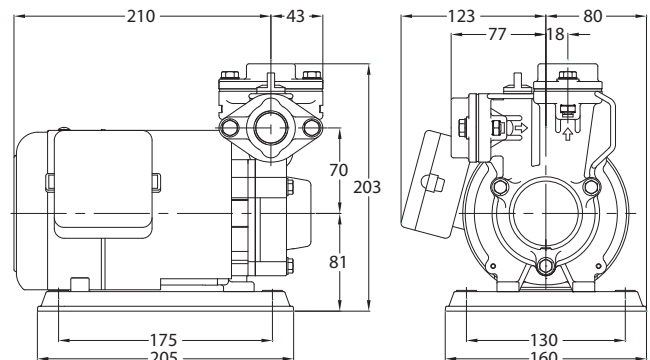
Operating Conditions

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

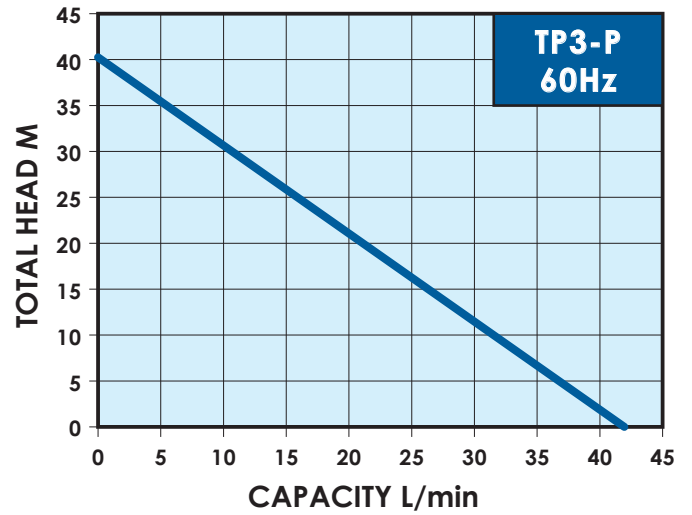
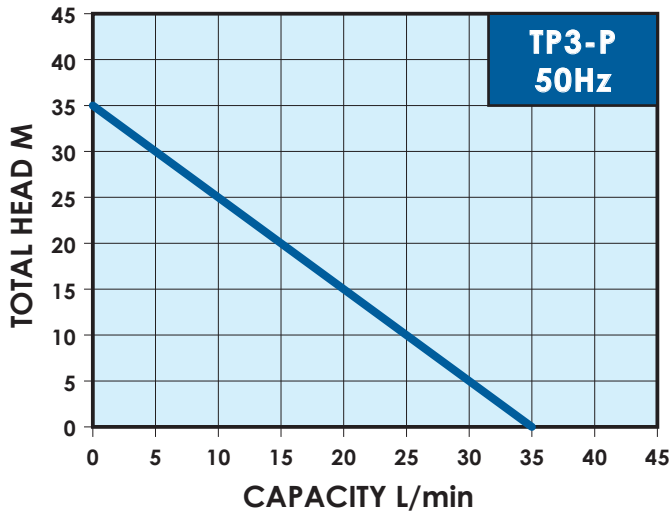
Dimensions

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" | | | | |

HS Series Multistage Centrifugal Pump



50Hz

Power: 0.37 - 0.75 kW

Head: Up to 35 M

Flow: Up to 100L/min

60Hz

Power: 0.37 - 0.75 kW

Head: Up to 42 M

Flow: Up to 95 L/min

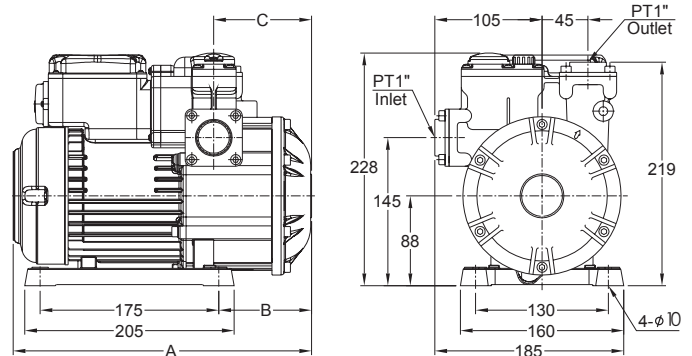
Outlet: 1"

Applications

The HS 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

Dimensions



Operating Conditions

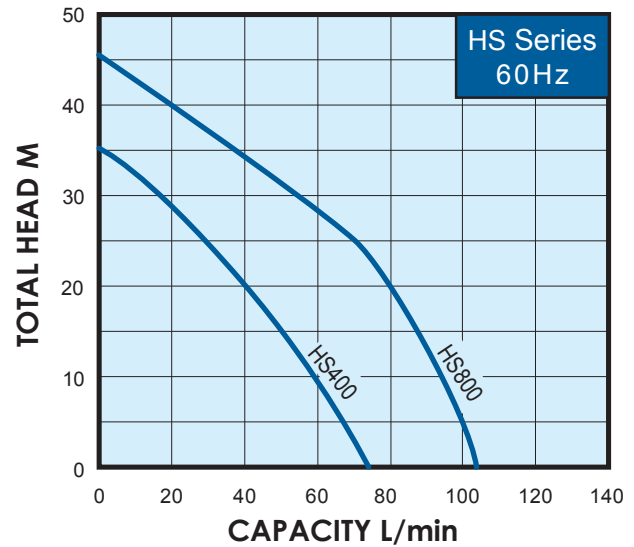
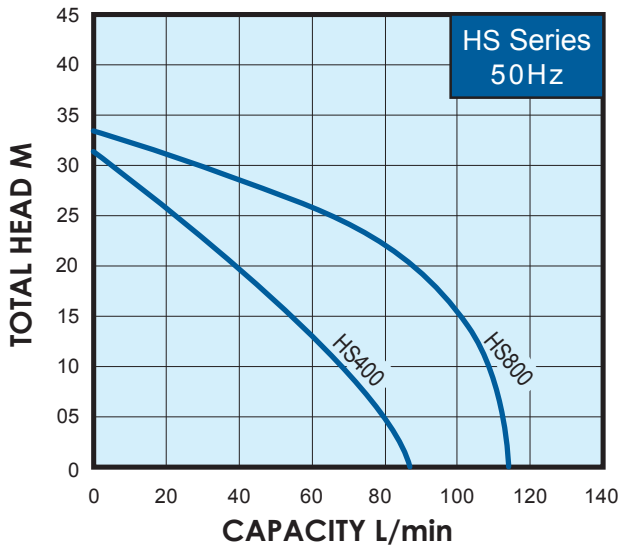
1. Ambient temperature: Max. +40°C
2. Liquid temperature: +4°C ~ +40°C
3. System Pressure : Max. 8.5 kg/cm²

| Model | Cycle (Hz) | A (mm) | B (mm) | C (mm) |
|-------|------------|--------|--------|--------|
| HS400 | 50 / 60 | 292 | 91 | 96 |
| HS800 | 50 / 60 | 344 | 96 | 101 |


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. 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).
5. The motor has a built-in thermal overload to protect against high operating temperatures and over current.
6. The pumps will lift water up to 7.6m. with foot valve and pump suction piping filled with water


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) |  |
|-------|------------|------------|-----------|-------------|-----------|-------------|--------------|------------|----------------|-----------|---|
| HS400 | 0.37 | 50 | 1 | 200-240 | 2.8 | 1" | 1" | 31 | 85 | 8.2 | 36 |
| HS800 | 0.75 | 50 | 1 | 200-240 | 4.5 | 1" | 1" | 33 | 110 | 11 | 30 |

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) |  |
|-------|------------|------------|-----------|-------------|-----------|-------------|--------------|------------|----------------|-----------|---|
| HS400 | 0.37 | 60 | 1 | 110/220 | 6.0/3.0 | 1" | 1" | 36 | 75 | 8.2 | 36 |
| HS800 | 0.75 | 60 | 1 | 110/220 | 9.0/4.5 | 1" | 1" | 46 | 105 | 11 | 30 |

TS Series Multistage Centrifugal Pump



50Hz

Power: 0.18 - 2.2 kW

Head: Up to 34 M

Flow: Up to 250 L/min

60Hz

Power: 0.18 - 3.7 kW

Head: Up to 50 M

Flow: Up to 270 L/min

Outlet: 1" - 2"

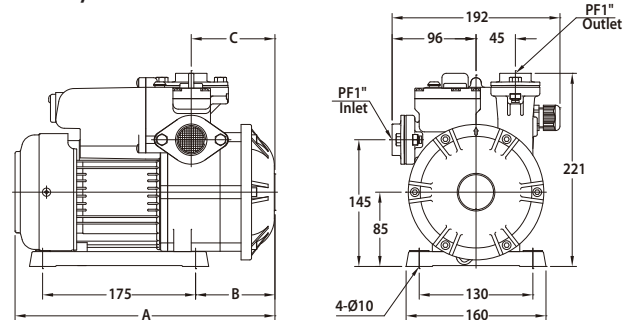
Applications

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

Dimensions

TS400 / 800



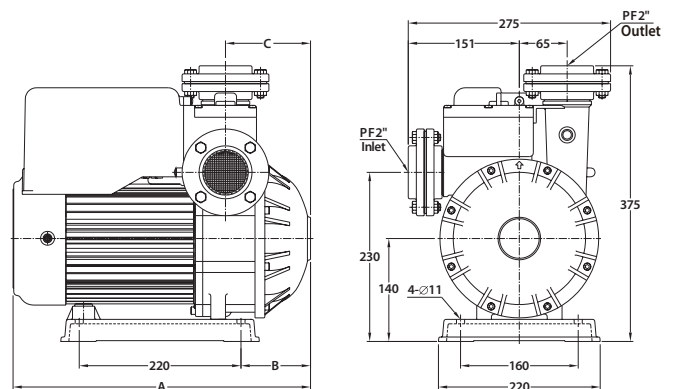
Operating Conditions

1. Ambient temperature: Max. +40°C
2. Liquid temperature: +4°C ~ +40°C
3. System Pressure : Max. 8.5 kg/cm²

Product Features

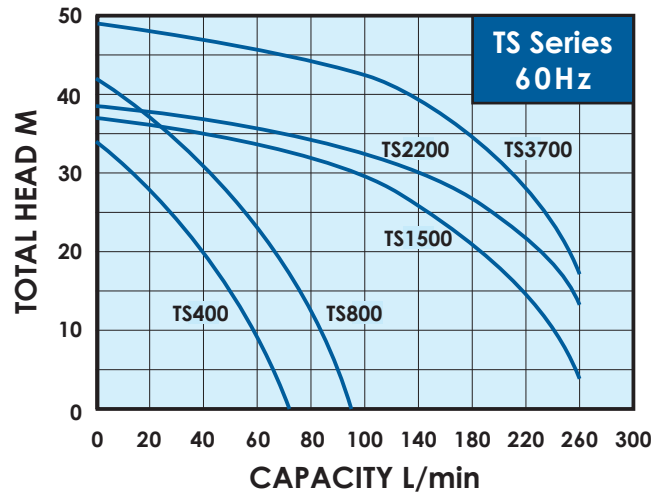
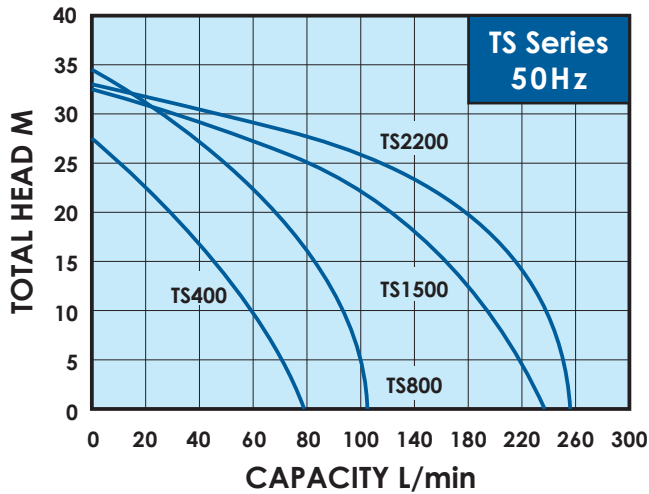
1. Multistage design provides steady, quiet and vibration-free operation for years of trouble-free service.
2. Close coupled, space saving design provides easy installation.
3. All parts in contact with water are made from corrosion resistant materials.
4. Capable of transferring both plain and salt 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

TS1500 / 2200 / 3700




| Model | Cycle (Hz) | A (mm) | B (mm) | C (mm) |
|-------------|------------|--------|--------|--------|
| TS400 | 50 | 305 | 99 | 104 |
| | 60 | 297 | 91 | 96 |
| TS800 | 50 / 60 | 352 | 99 | 104 |
| TS1500/2200 | 50 / 60 | 405 | 95 | 116 |
| TS3700 | 60 | 405 | 95 | 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: 1/4"

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

Standard Accessories



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

Product Features

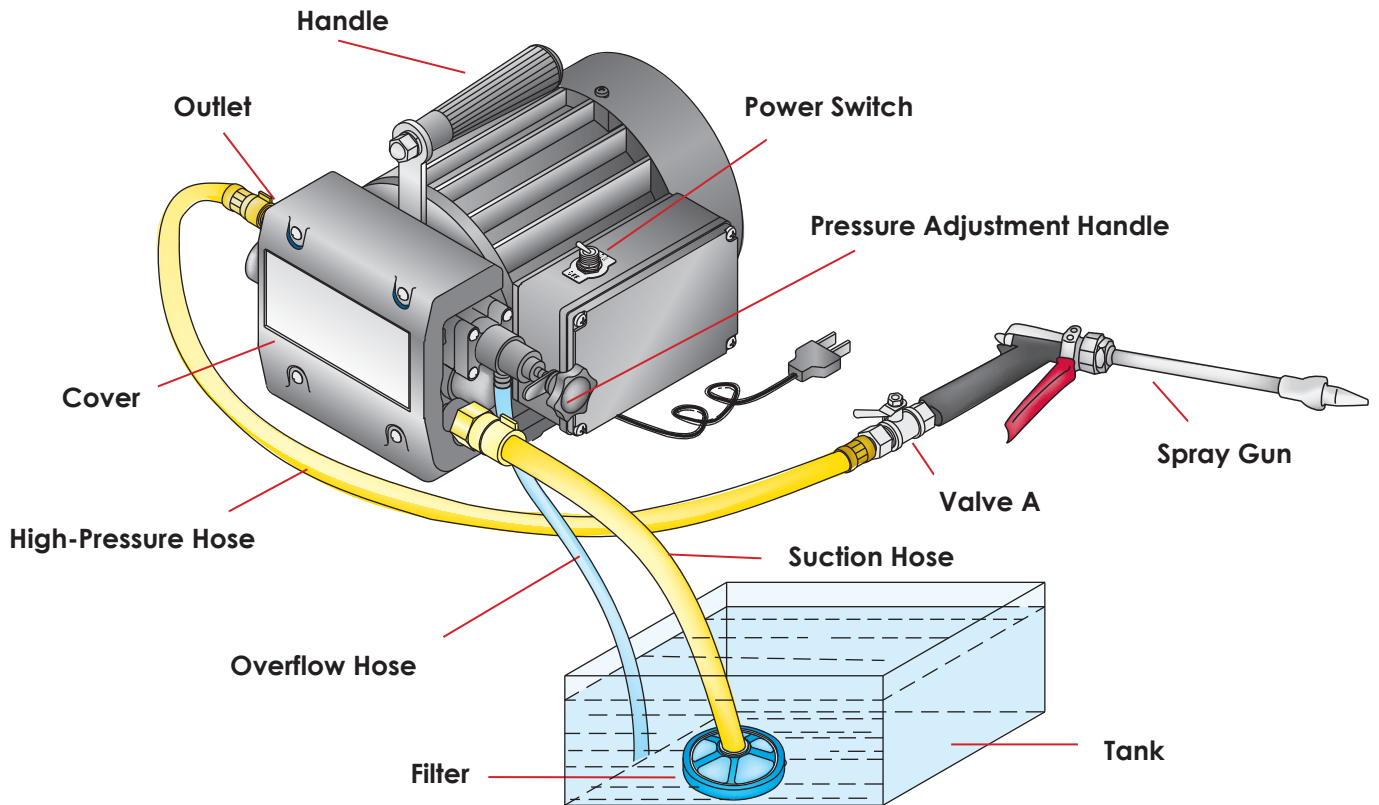
1. Portable compact design, easy to carry.
2. Easy operation, and maintenance.
3. High pressure discharge head, and large capacity.
4. Powerful electrical motor, high reliability.
5. Suitable for agricultural spraying.
6. Self priming suction function.

Optional Accessories




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


Sprayer Components



Specification, 50Hz

| Type | Output (kW) | Cycle Hz | Pole P | Voltage Single V | Pressure kg/cm ² | 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/cm ² | 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

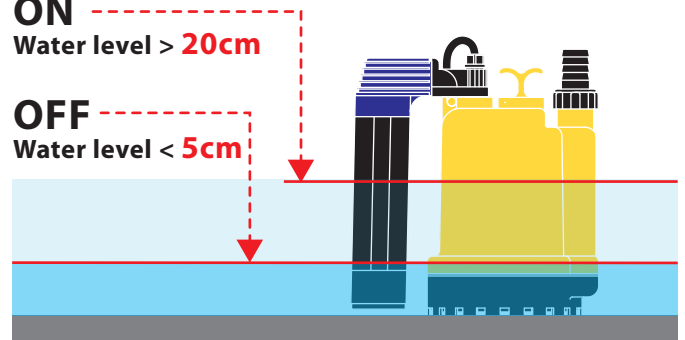
1. Power supply: single-phase 50 or 60 Hz
2. Power: 100W to 400W
3. Insulation class: B
4. Protection: IP68
5. Length of cable: 4 or 5 m
10 m (Optional)
6. Delivery: up to 260 L/min
7. Head: up to 10 m
8. Temperature of pumped liquid: 4°C to +35°C

Level regulator

PW100AC / PW100ARC

ON
Water level > 20cm

OFF
Water level < 5cm

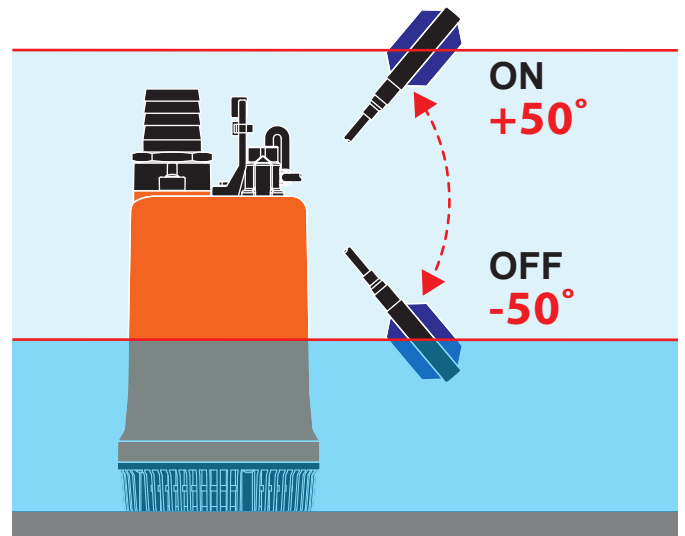


Float ball level switch

PW100AF / PW100ARF / PW250AF
PW400AF / PW400ARF

ON
+50°

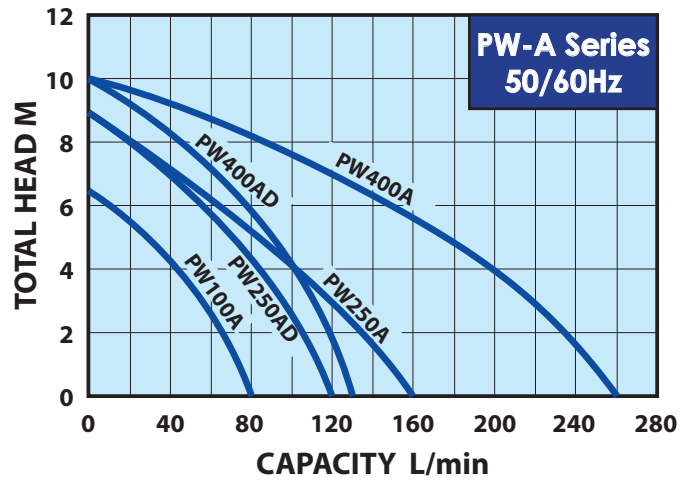
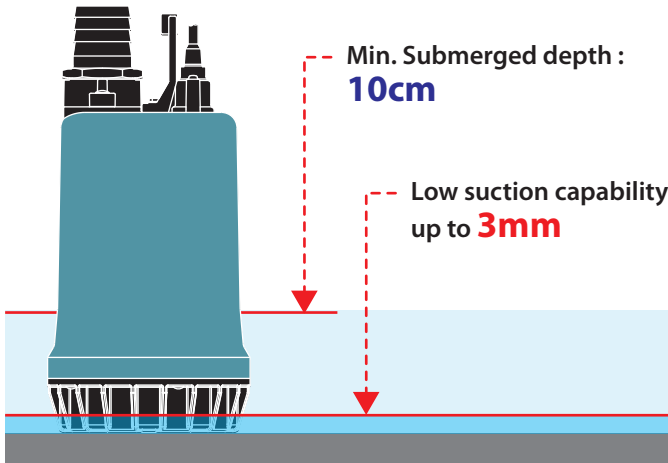
OFF
-50°




Low suction Pump

Performance curve

PW250AD / PW400AD



Specification

| Type | Outlet Diameter In. (mm) | Output W | Cycle Hz | Volt V | Amp's A | Maximum | | Dimensions L x W x H mm | Cable Wire C x mm ² x m | N.W. kg | G.W. kg |  |
|--------|--------------------------|----------|----------|-----------|---------|---------|----------------|-------------------------|------------------------------------|---------|---------|---|
| | | | | | | Head m | Capacity L/min | | | | | |
| 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

Operating Conditions

1. Ambient temperature :Max. +40°C
2. Liquid temperature range:+0°C ~ +90°C
3. Operating pressure:Max. 10 kg/cm²
4. Inlet pressure:Max. 6 kg/cm²

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, sea 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

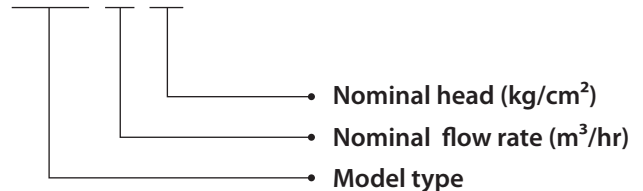
Nominal speed : 2900 / 3500 rpm

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

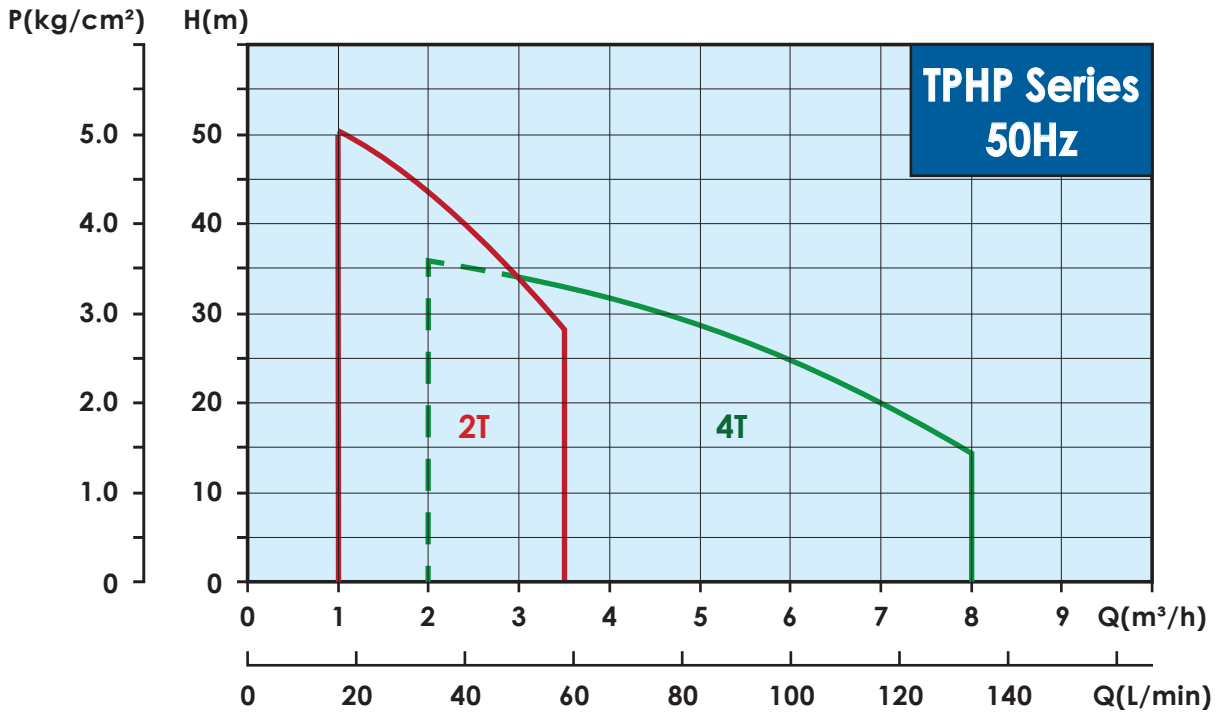
3Ø 200-255 / 380-480V, 60Hz

Model code

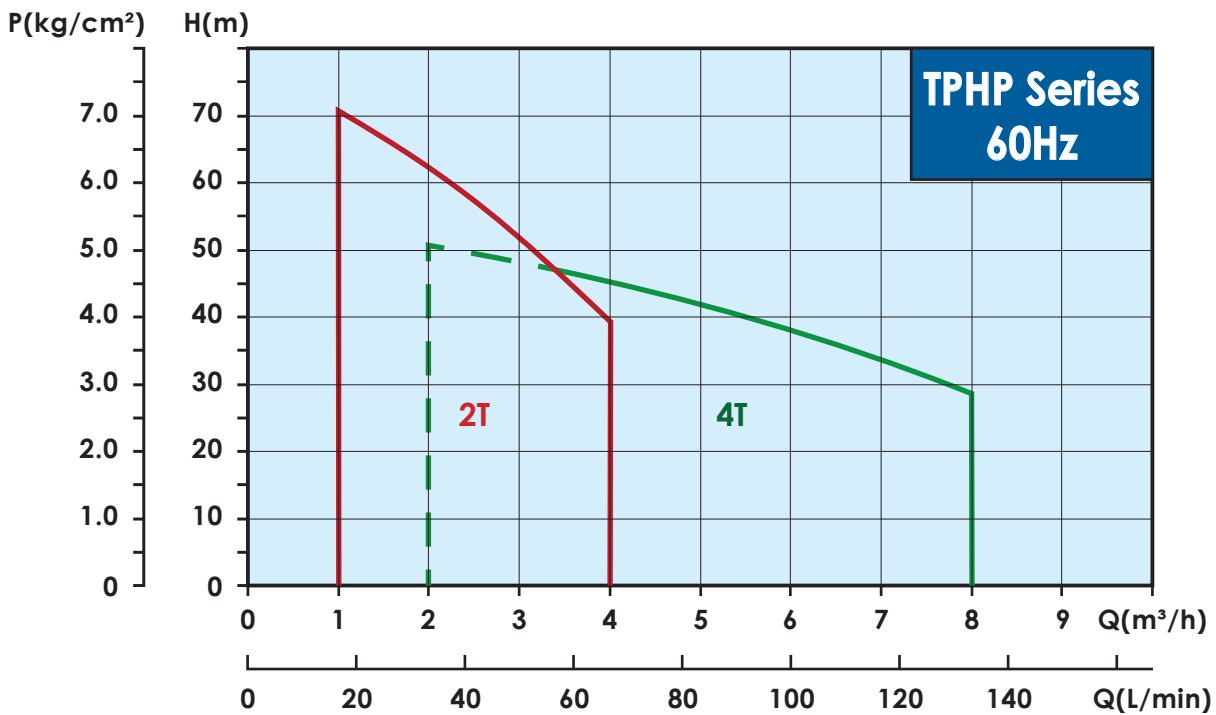
TPHP 4T 2K



Performance curve (50Hz)



Performance curve (60Hz)

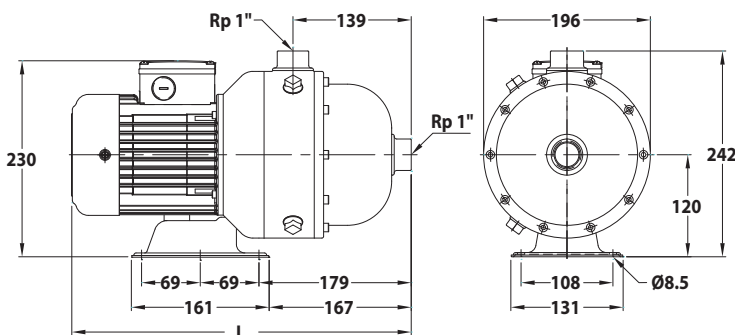



TPHP 2T

Electrical data, 50/60Hz

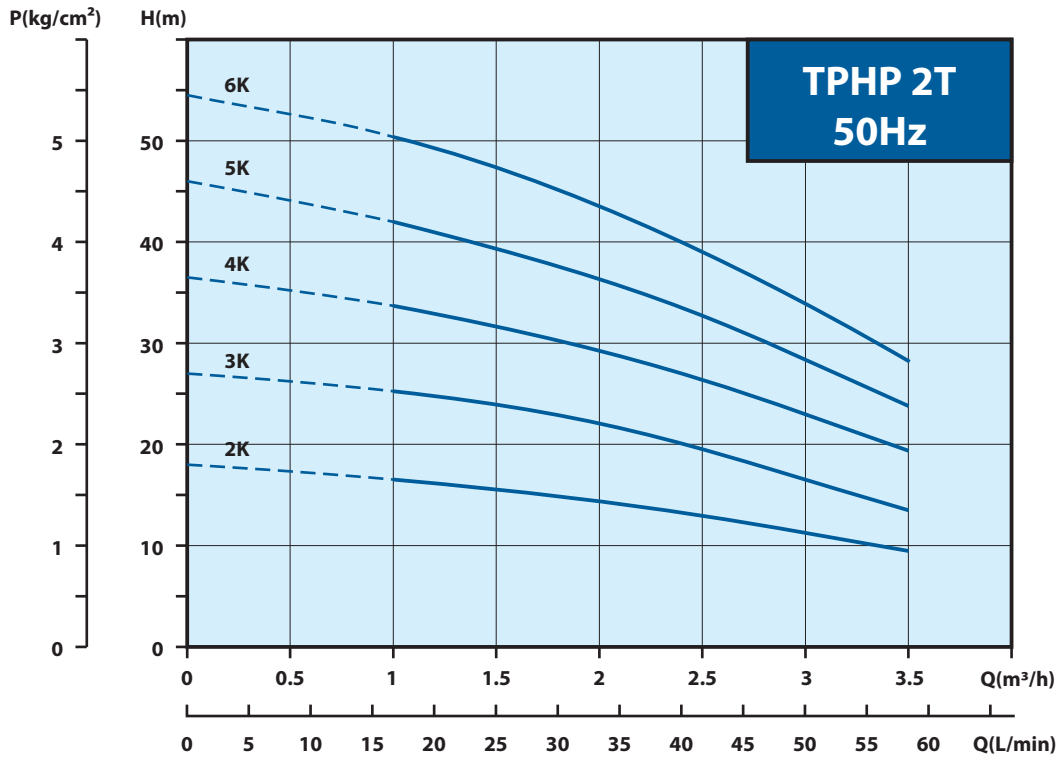
| Model | PH (Ø) | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|------------|-----------|-----------------|-------------------|----------------------|-------------------|
| TPHP 2T 2K | 3 | 50 | 200-240 / 380-440 | 380 | 1.7-2.2 / 1.1-1.4 |
| | | 60 | 200-255 / 380-480 | 540 | 1.9-2.0 / 1.2-1.2 |
| 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)

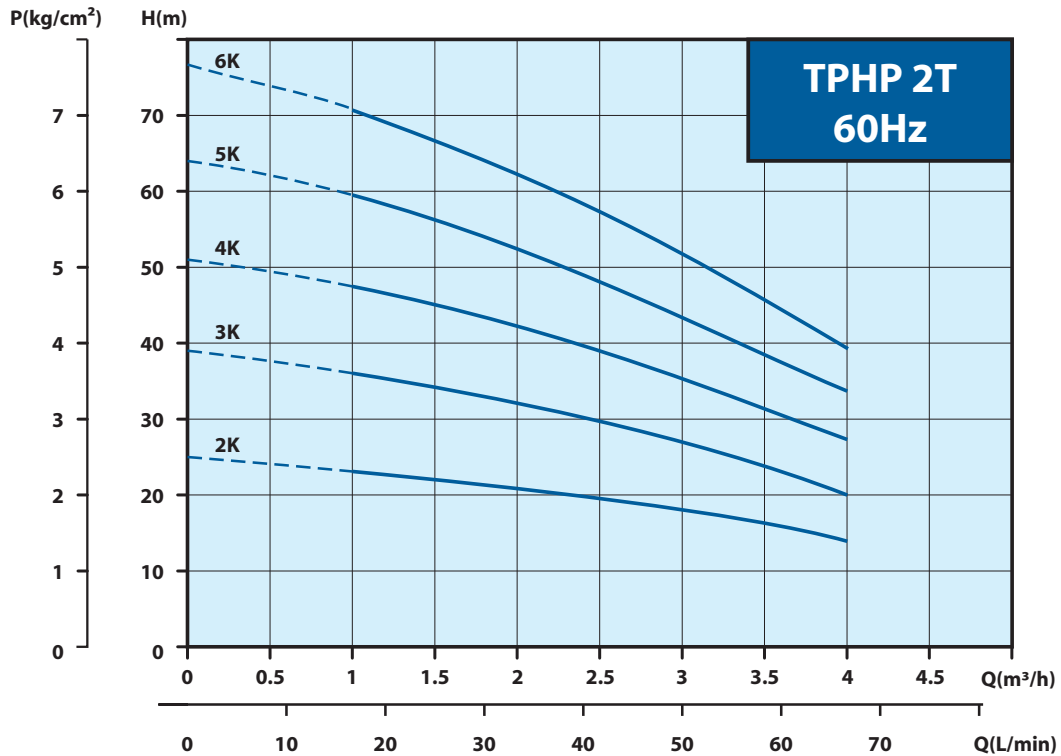


| Model | L(mm) | N.W.(kg) | 24 pcs  |
|------------|-------|----------|---|
| TPHP 2T 2K | 400 | 11.6 | |
| TPHP 2T 3K | 400 | 11.8 | |
| TPHP 2T 4K | 400 | 12.0 | |
| TPHP 2T 5K | 440 | 13.1 | |
| TPHP 2T 6K | 440 | 13.3 | |

Performance curve (50Hz)



Performance curve (60Hz)

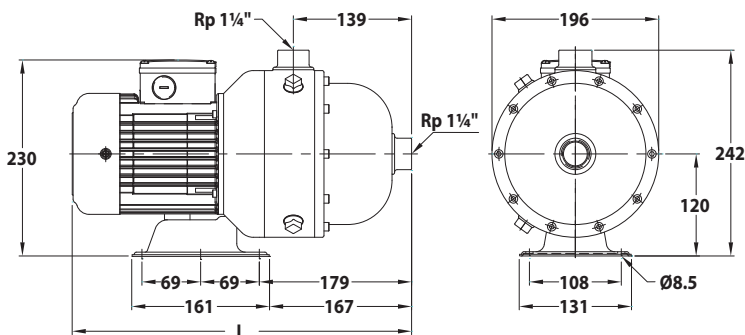



TPHP 4T

Electrical data, 50/60Hz

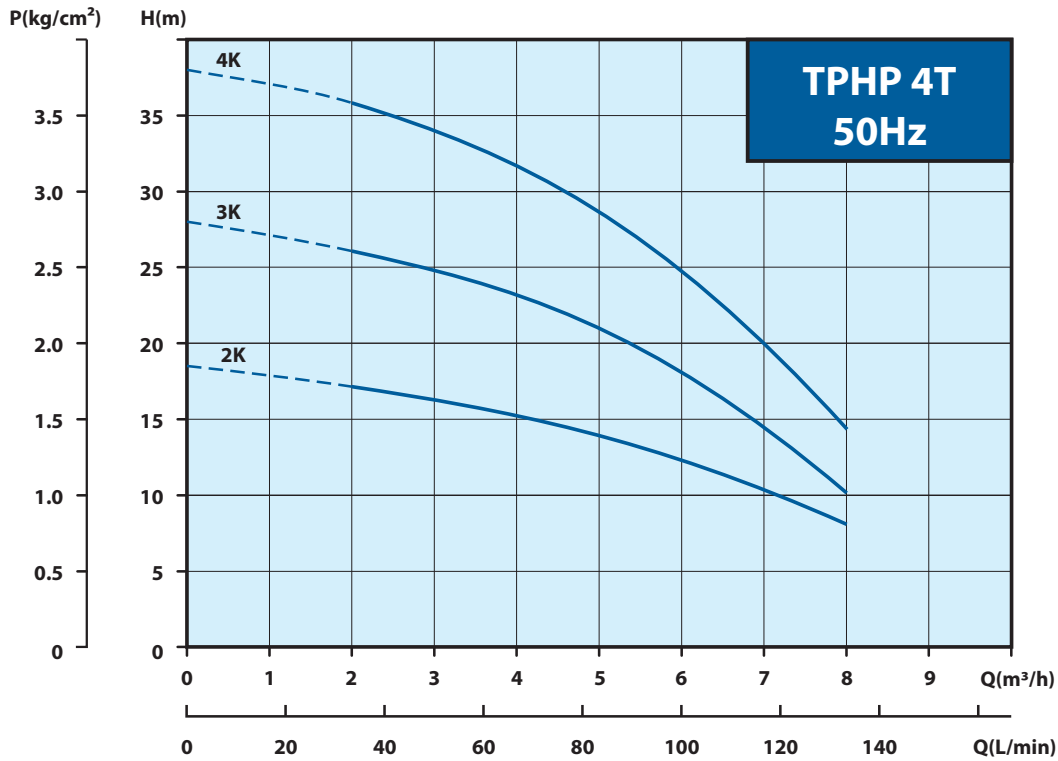
| Model | PH (Ø) | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|------------|--------|--------------|-------------------|-------------------|-------------------|
| TPHP 4T 2K | 3 | 50 | 200-240 / 380-440 | 670 | 2.3-2.5 / 1.4-1.6 |
| | | 60 | 200-255 / 380-480 | 1000 | 3.1-2.8 / 1.7-1.7 |
| 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)

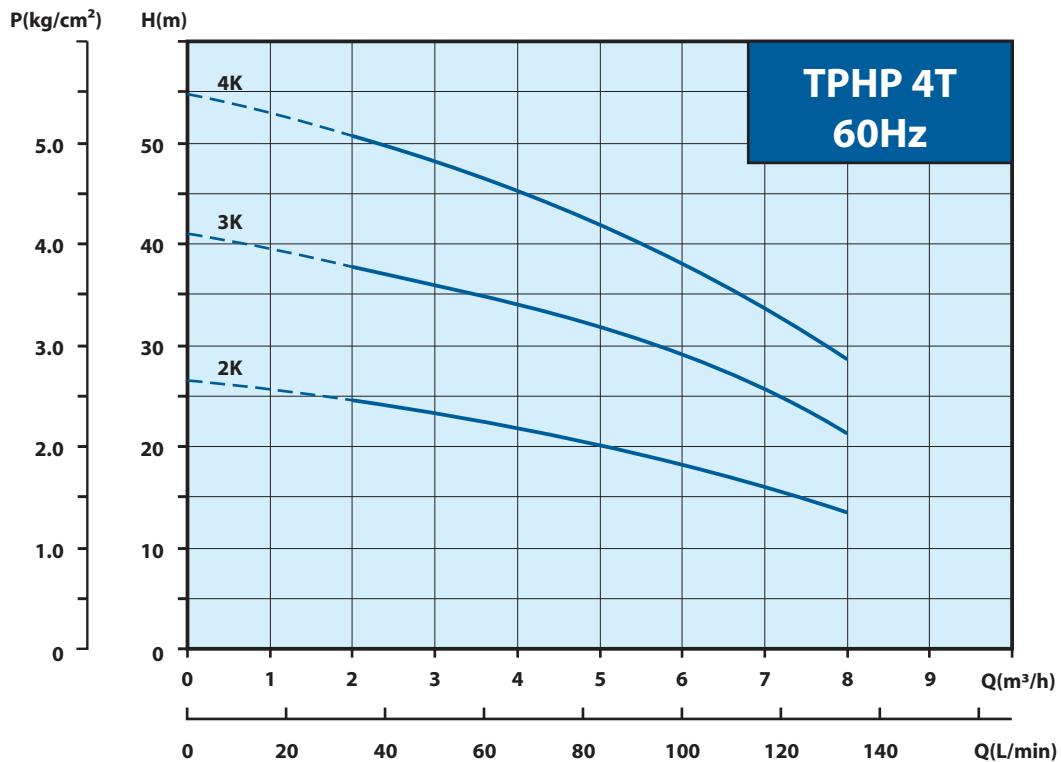


| Model | L(mm) | N.W.(kg) | 24 pcs  |
|------------|-------|----------|---|
| TPHP 4T 2K | 400 | 11.8 | |
| TPHP 4T 3K | 440 | 12.9 | |
| TPHP 4T 4K | 440 | 13.5 | |

Performance curve (50Hz)



Performance curve (60Hz)





Memo

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 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

Standard Mode

| | TPH | 4T | 2K | S | F | A | H | CH |
|--|-----|----|----|---|---|---|---|----|
| Model type | | | | | | | | |
| Nominal flow rate (m³/hr) | | | | | | | | |
| Nominal head (kg/cm²) | | | | | | | | |
| Code | | | | | | | | |
| Standard mode | | | | | | | | |
| N: SUS 316 (25T/50T) | | | | | | | | |
| S: SUS 304 (2T/4T/8T/12T) | | | | | | | | |
| Flange type (25T/50T) | | | | | | | | |
| Air conditioning (IP 44) | | | | | | | | |
| Insulation class: H. | | | | | | | | |
| Insulation class: H. (2T/4T) | | | | | | | | |
| Mechanical seal type: HGSV (Carbon + SiC + Viton) | | | | | | | | |
| Water temperature : +4°C ~ +120°C | | | | | | | | |
| Oil temperature : +0°C ~ +150°C | | | | | | | | |

Operating Conditions

1. Ambient temperature :Max. +40°C
2. Liquid temperature range:+0°C ~ +90°C
3. Operating pressure:Max. 10 kg/cm²
4. Inlet pressure:Max. 6 kg/cm²

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.

Motor

Enclosure protection class: IP54

Insulation class: F.

Frequency range: 50 / 60 Hz

Nominal speed : 2900 / 3500 rpm

Voltages code:

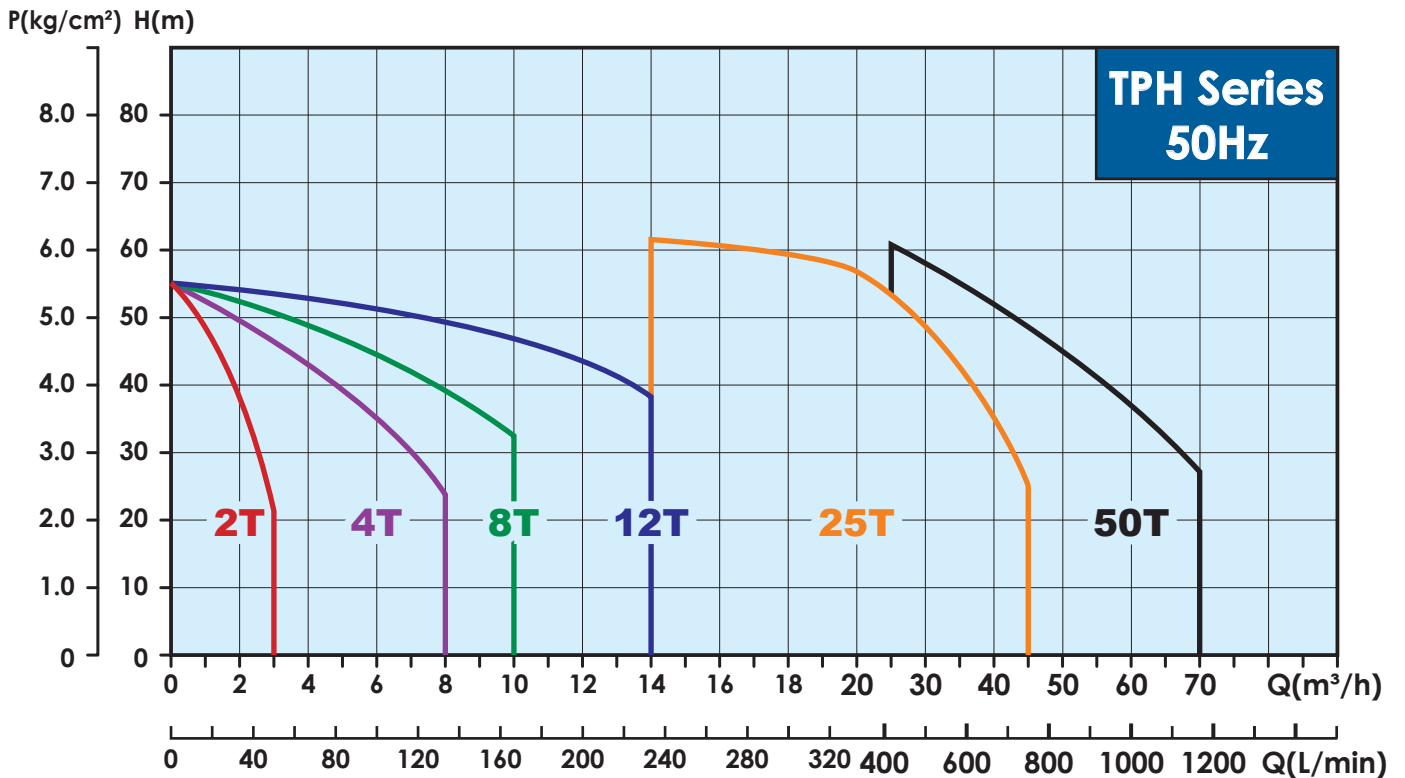
| Code | PH | 50Hz | 60Hz |
|------|----|------------------|------------------|
| 61B | 1 | - | 220V |
| 51R | 1 | 200-240V | - |
| 53Q | 3 | 200-240/380-440V | - |
| A3Z* | 3 | 200-255/380-440V | 200-255/380-480V |
| A3U* | 3 | 200-240/380-415V | 200-240/380-440V |
| 63Q | 3 | - | 200-240/380-440V |
| 63Z | 3 | - | 200-255/380-480V |

Optional : 50hz, 60hz models are available on request.

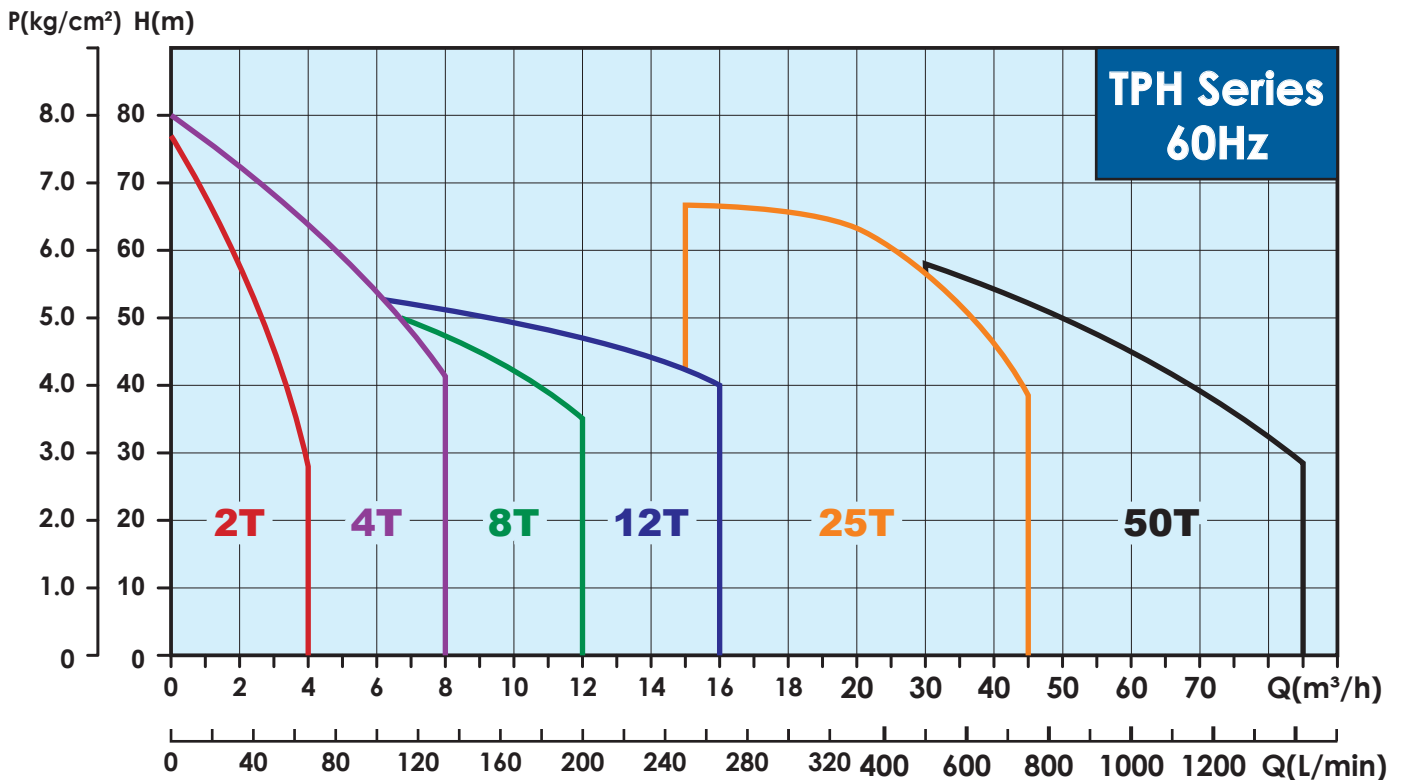
* The motor can be use in both 50/60 hz.

TPH Series Multistage Centrifugal Pump

Performance curve (50Hz)

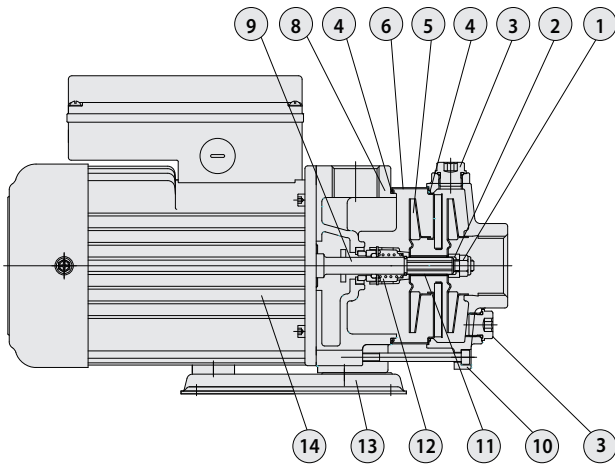


Performance curve (60Hz)

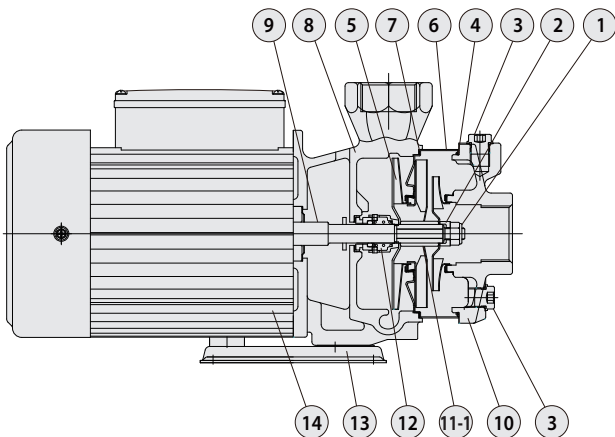


Sectional drawing

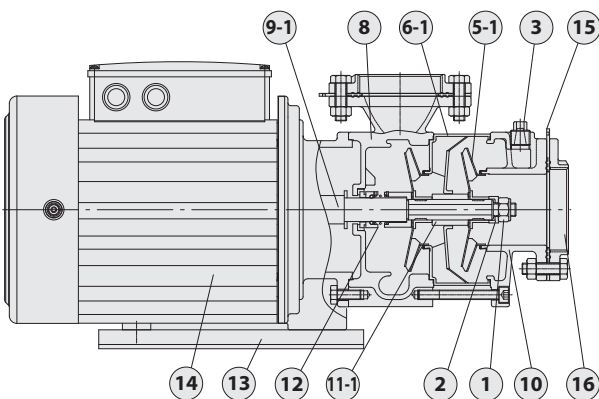
(TPH2/4T)



(TPH 8/12T)



(TPH 25/50T)



Materials

| No. | Part name | Material | | |
|------|----------------------|----------------|----------|----------|
| | | Standard | S series | N series |
| 1 | Lock Nut | SUS 316 | SUS 316 | SUS 316 |
| 2 | Sleeve(Shaft End) | SUS 316 | SUS 316 | SUS 316 |
| 3 | Water Plug | FC 20 | SUS 304 | SUS 316 |
| 4 | O Ring | HNBR | HNBR | - |
| 5 | Impeller | SUS 304 | SUS 304 | - |
| 5-1 | Impeller | SUS 316 | - | SUS316 |
| 6 | Intermediate Chamber | SUS 304 | SUS 304 | - |
| 6-1 | Intermediate Chamber | SUS 316 | - | SUS 316 |
| 7 | Gasket | Teflon | Teflon | - |
| 8 | Pump Casing | FC 20 | SUS 304 | SUS 316 |
| 9 | Shaft | SUS 304 | SUS 304 | - |
| 9-1 | Shaft | SUS 316 | - | SUS 316 |
| 10 | Suction Chamber | FC 20 | SUS 304 | SUS316 |
| 11 | Sleeve | SUS 304 | SUS 304 | - |
| 11-1 | Sleeve | SUS 316 | SUS 316 | SUS 316 |
| 12 | Mechanical Seal | HGSH | | |
| 13 | Mounted Base | Coating Steel | | |
| 14 | Motor Shell | Aluminum alloy | | |
| 15 | Gasket | Teflon+NBR | | |
| 16 | Flange | FC 20 | - | SUS 316 |

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

Options on request

- Terminal box position adjustable
- Special mechanical seal

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

TPH 2T

Electrical data, 50Hz

| Model | PH (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|-----------|--------|--------------|--------------|-------------------|-----------------|------------|
| TPH 2T 2K | 1 | 51R | 50 | 200-240 | 450 | 2.4 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 420 | 2.0 / 1.3 |
| TPH 2T 3K | 1 | 51R | 50 | 200-240 | 500 | 2.5 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 520 | 2.2 / 1.4 |
| TPH 2T 4K | 1 | 51R | 50 | 200-240 | 600 | 2.9 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 590 | 2.3 / 1.4 |
| TPH 2T 5K | 1 | 51R | 50 | 200-240 | 760 | 4.0 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 680 | 3.0 / 1.9 |
| TPH 2T 6K | 1 | 51R | 50 | 200-240 | 880 | 4.3 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 860 | 3.1 / 2.0 |

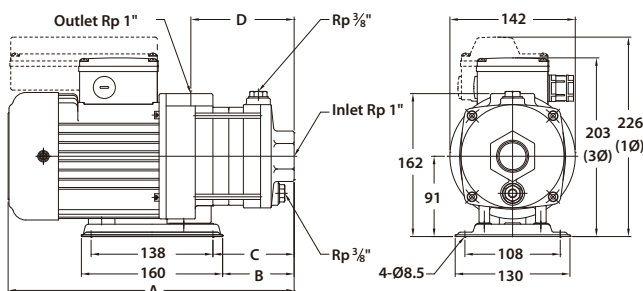
Electrical data, 50/60Hz

| Model | PH (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|-----------|--------|--------------|--------------|-------------------|-----------------|-------------------|
| TPH 2T 1K | 3 | A3Z | 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 | A3Z | 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 | 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 |
| TPH 2T 4K | 3 | A3Z | 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 | A3Z | 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 | 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 |

Electrical data, 60Hz

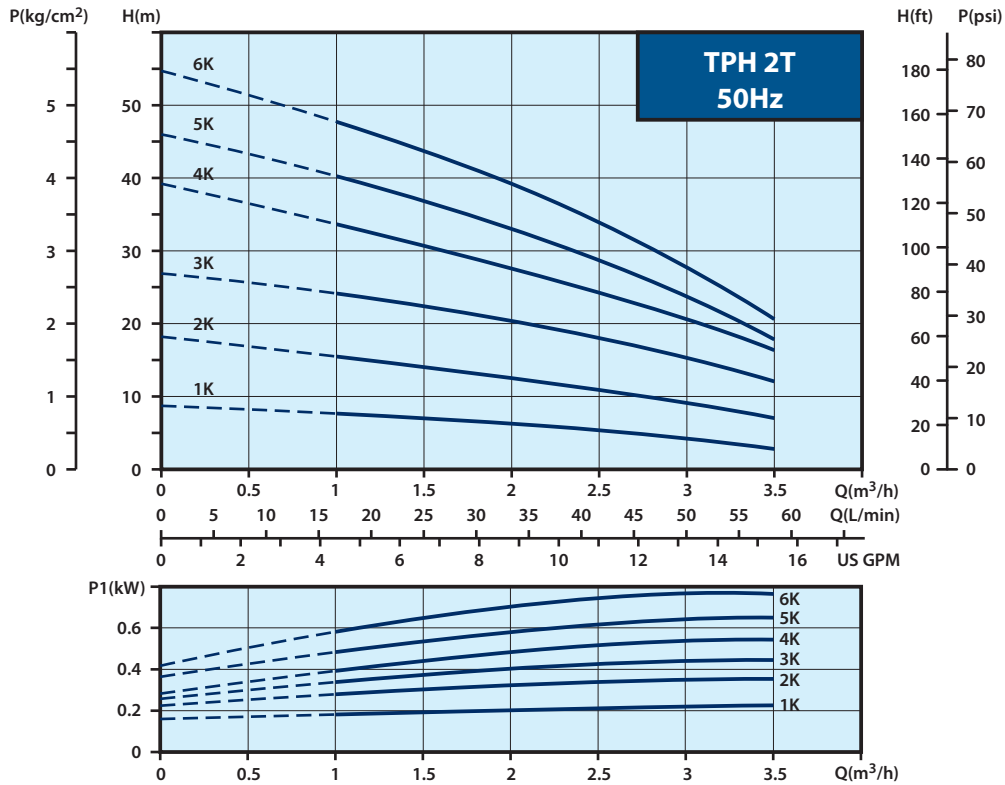
| Model | PH (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|-----------|--------|--------------|--------------|-----------|-----------------|------------|
| TPH 2T 1K | 1 | 61B | 60 | 220 | 450 | 2.1 |
| TPH 2T 2K | 1 | 61B | 60 | 220 | 760 | 4.3 |
| TPH 2T 3K | 1 | 61B | 60 | 220 | 900 | 4.8 |
| TPH 2T 4K | 1 | 61B | 60 | 220 | 1030 | 5.3 |
| TPH 2T 5K | 1 | 61B | 60 | 220 | 1300 | 6.3 |
| TPH 2T 6K | 1 | 61B | 60 | 220 | 1500 | 7.0 |

Dimensions (mm)

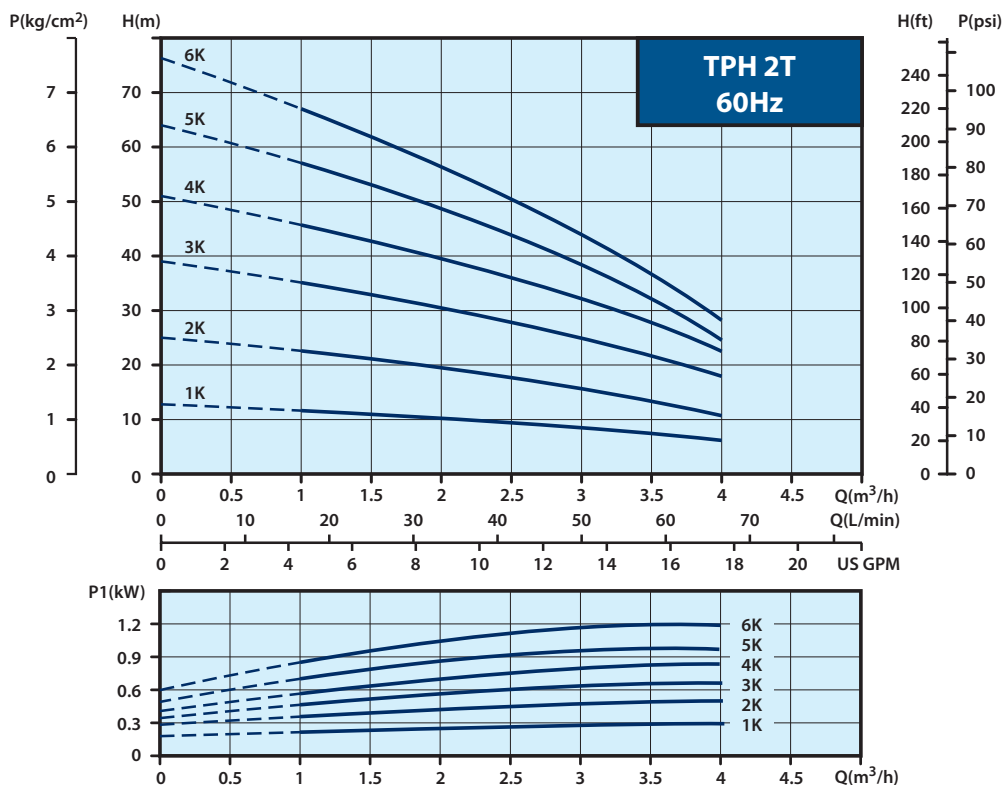


| Model | A(mm) | B(mm) | C(mm) | D(mm) | N.W.(kg) | |
|-----------|-------|-------|-------|-------|----------|--------|
| TPH 2T 1K | 306 | 63 | 74 | 99 | 11.7 | 36 pcs |
| TPH 2T 2K | 306 | 63 | 74 | 99 | 11.8 | |
| TPH 2T 3K | 324 | 81 | 92 | 117 | 11.9 | |
| TPH 2T 4K | 342 | 99 | 110 | 135 | 12.0 | |
| TPH 2T 5K | 400 | 117 | 128 | 153 | 13.5 | 30 pcs |
| TPH 2T 6K | 418 | 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) | Ampere (A) |
|-----------|--------|--------------|--------------|-------------------|-------------------|--------------|
| TPH 4T 2K | 1 | 51R | 50 | 200-240 | 600 | 3.1-2.9 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 600 | 2.3 / 1.4 |
| TPH 4T 3K | 1 | 51R | 50 | 200-240 | 950 | 4.5 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 830 | 3.3 / 2.1 |
| TPH 4T 4K | 1 | 51R | 50 | 200-240 | 1200 | 5.7 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 1010 | 3.7 / 2.2 |
| TPH 4T 5K | 1 | 51R | 50 | 200-240 | 1370 | 6.9 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 1300 | 4.1 / 2.4 |
| TPH 4T 6K | 1 | 51R | 50 | 200-240 | 1470 | 7.7 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 1640 | 5.5 / 3.5 |

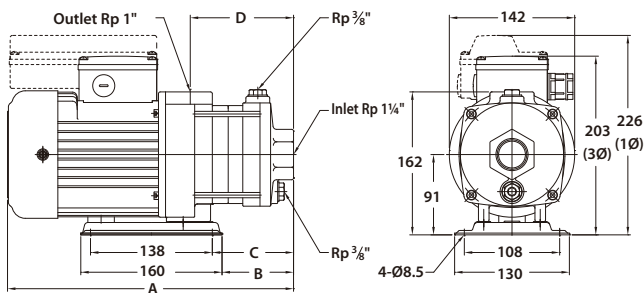
Electrical data, 50/60Hz


| Model | PH (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|-----------|--------|--------------|--------------|-------------------|-------------------|-------------------|
| TPH 4T 2K | 3 | A3Z | 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 | 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 |
| TPH 4T 4K | 3 | A3U | 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 | A3U | 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 | A3U | 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

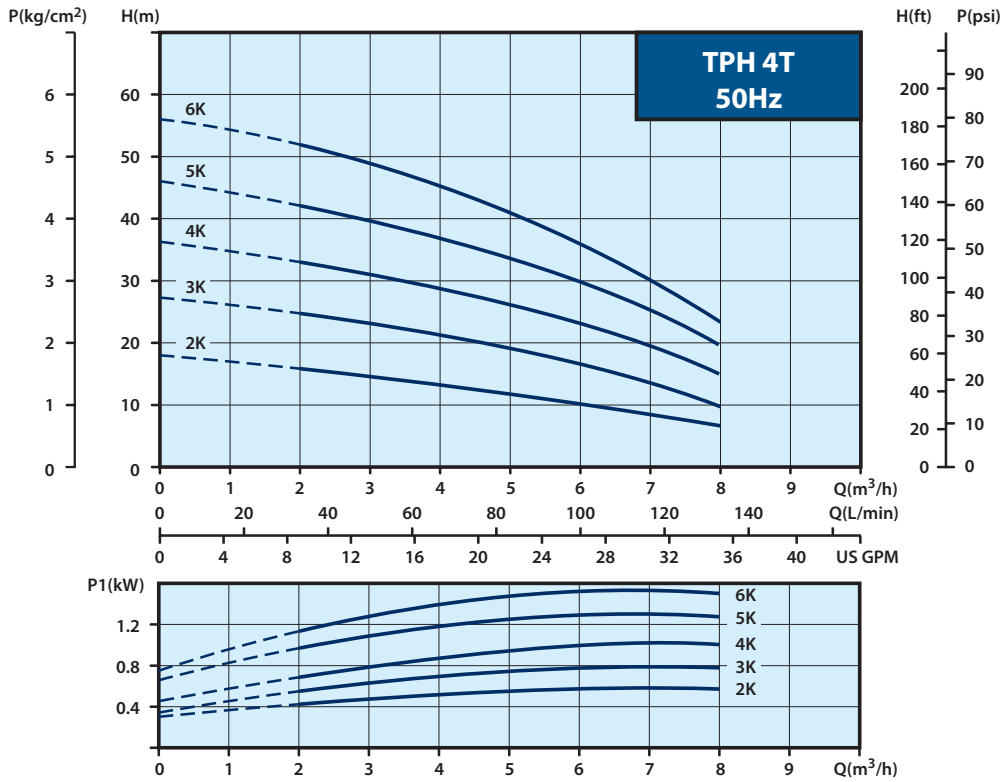
| Model | PH (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|-----------|--------|--------------|--------------|-------------|-------------------|--------------|
| TPH 4T 2K | 1 | 61B | 60 | 220 | 1030 | 5.3 |
| TPH 4T 3K | 1 | 61B | 60 | 220 | 1500 | 7.0 |
| TPH 4T 4K | 1 | 61B | 60 | 220 | 1760 | 8.6 |
| TPH 4T 5K | 1 | 61B | 60 | 220 | 2100 | 10.0 |
| TPH 4T 6K | 1 | 61B | 60 | 220 | 2600 | 12.0 |

Dimensions (mm)

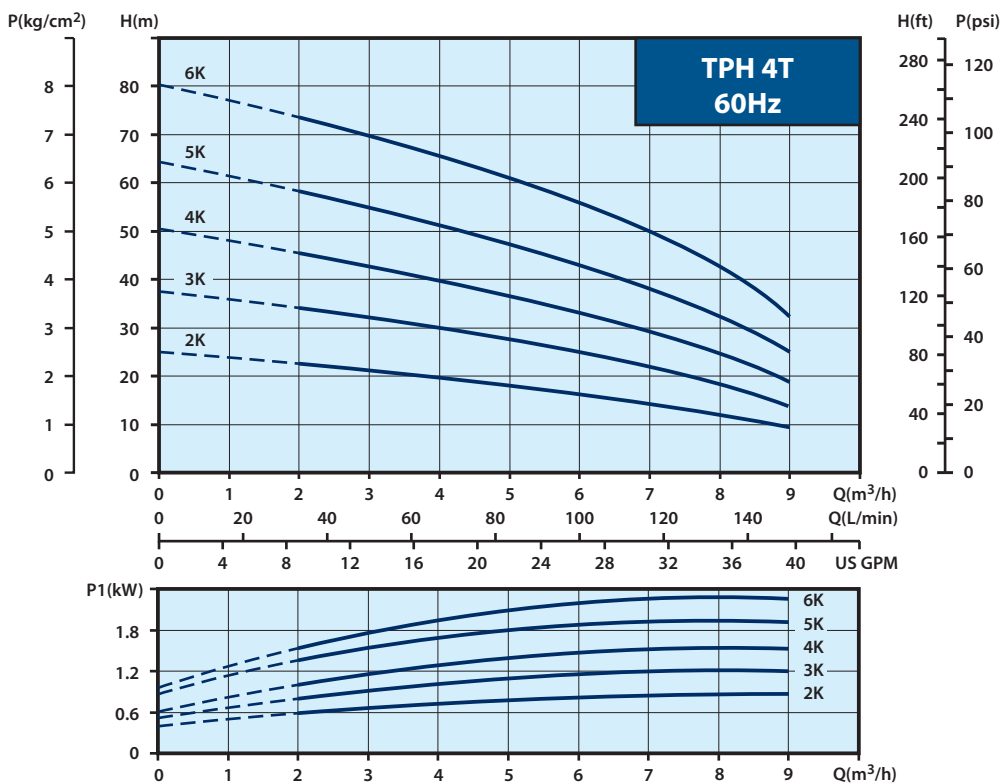


| Model | Cycle (Hz) | A(mm) | B(mm) | C(mm) | D(mm) | N.W.(kg) |  |
|-----------|--------------|-------|-------|-------|-------|----------|---|
| TPH 4T 2K | 50/60 | 315 | 72 | 83 | 108 | 11.7 | 36 pcs |
| TPH 4T 3K | 50/60 | 382 | 99 | 110 | 135 | 13.3 | |
| TPH 4T 4K | 50/60 | 409 | 126 | 137 | 162 | 14.1 | |
| TPH 4T 5K | 50/60 | 436 | 153 | 164 | 189 | 14.2 | |
| TPH 4T 6K | 50 | 463 | 180 | 191 | 216 | 15.1 | 24 pcs |
| | 60 | 494 | 180 | 191 | 216 | 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) | Ampere (A) |
|-----------|--------|--------------|--------------|-------------------|-------------------|--------------|
| TPH 8T 2K | 1 | 51R | 50 | 200-240 | 900 | 4.3 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 810 | 3.0 / 1.9 |
| TPH 8T 3K | 1 | 51R | 50 | 200-240 | 1300 | 6.3 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 1110 | 3.3 / 2.1 |
| TPH 8T 4K | 1 | 51R | 50 | 200-240 | 1520 | 7.6 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 1600 | 5.6 / 3.5 |
| TPH 8T 5K | 3 | 53Q | 50 | 200-240 / 380-440 | 2000 | 6.0 / 3.6 |
| TPH 8T 6K | 3 | 53Q | 50 | 200-240 / 380-440 | 2230 | 6.7 / 3.9 |

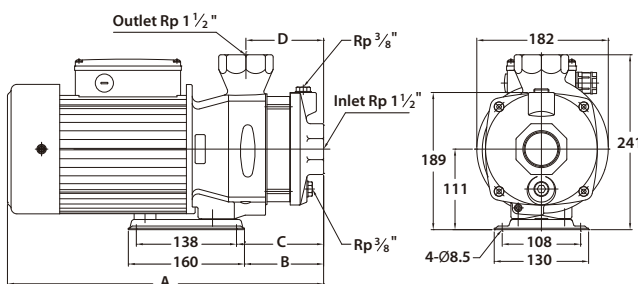
Electrical data, 50/60Hz

| Model | PH (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|-------------|--------|--------------|--------------|-------------------|-------------------|-------------------|
| TPH 8T 2K | 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 |
| TPH 8T 2.5K | 3 | A3U | 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 | A3U | 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 | A3U | 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 | A3U | 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

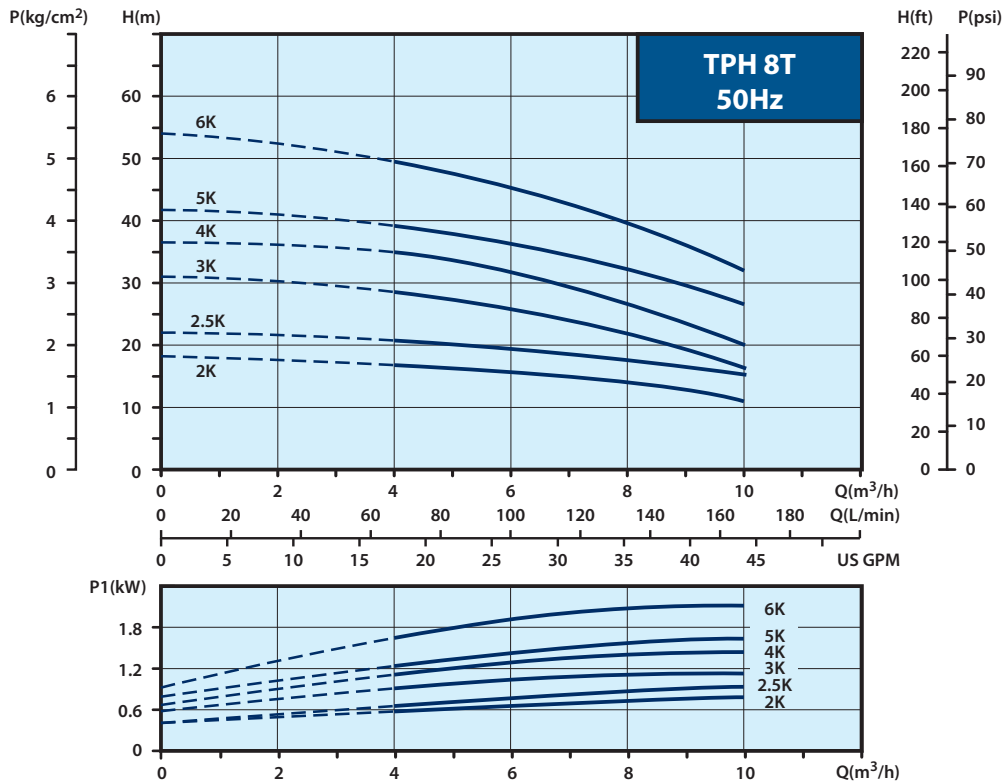
| Model | PH (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|-------------|--------|--------------|--------------|-------------|-------------------|--------------|
| TPH 8T 2K | 1 | 61B | 60 | 220 | 1500 | 7.0 |
| TPH 8T 2.5K | 1 | 61B | 60 | 220 | 1720 | 8.7 |
| TPH 8T 3K | 1 | 61B | 60 | 220 | 1970 | 10.0 |

Dimensions (mm)

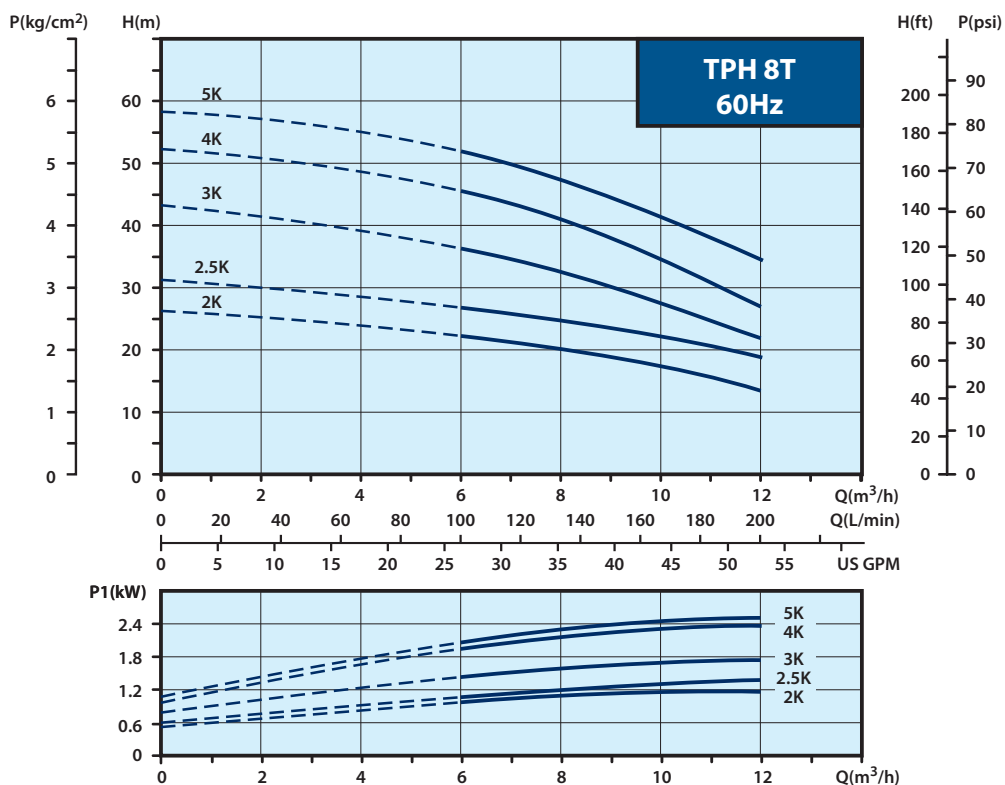


| Model | Cycle (Hz) | A(mm) | B(mm) | C(mm) | D(mm) | N.W.(kg) | |
|--------------|--------------|-------|-------|-------|-------|----------|--------|
| TPH 8T 2K | 50/60 | 376.5 | 77 | 88 | 75 | 18.8 | 24 pcs |
| TPH 8T 2.5 K | 60 | 408.5 | 109 | 120 | 107 | 19.5 | |
| TPH 8T 3K | 50/60 | 408.5 | 109 | 120 | 107 | 20.0 | |
| TPH 8T 4K | 50 | 408.5 | 109 | 120 | 107 | 22.2 | |
| | 60 | 435.5 | 109 | 120 | 107 | 25.4 | |
| TPH 8T 5K | 50/60 | 469.5 | 143 | 154 | 141 | 25.5 | |
| TPH 8T 6K | 50 | 469.5 | 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) | Ampere (A) |
|------------|--------|--------------|--------------|-------------------|-------------------|--------------|
| TPH 12T 2K | 1 | 51R | 50 | 200-240 | 1380 | 6.5 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 1140 | 3.6 / 2.1 |
| TPH 12T 3K | 1 | 51R | 50 | 200-240 | 1700 | 7.9 |
| | 3 | 53Q | 50 | 200-240 / 380-440 | 1580 | 5.8 / 3.6 |
| TPH 12T 4K | 3 | 53Q | 50 | 200-240 / 380-440 | 2500 | 7.1 / 4.1 |
| TPH 12T 5K | 3 | 53Q | 50 | 200-240 / 380-440 | 3050 | 10.8 / 6.8 |
| TPH 12T 6K | 3 | 53Q | 50 | 200-240 / 380-440 | 3700 | 11.3 / 7.0 |

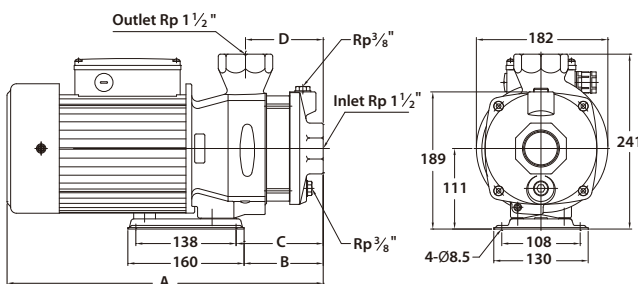
Electrical data, 50/60Hz

| Model | PH (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|------------|--------|--------------|--------------|-------------------|-------------------|---------------------|
| TPH 12T 1K | 3 | A3Z | 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 | A3U | 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 | A3U | 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 | A3U | 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

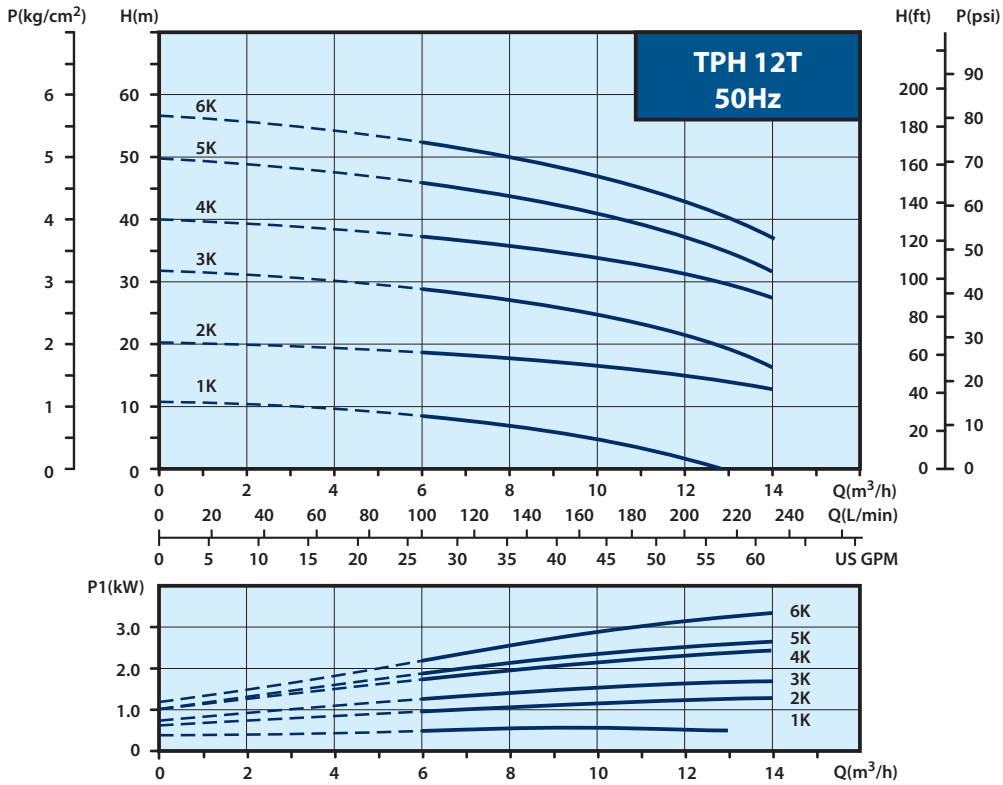
| Model | PH (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|------------|--------|--------------|--------------|-------------|-------------------|--------------|
| TPH 12T 1K | 1 | 61B | 60 | 220 | 1030 | 5.3 |
| TPH 12T 2K | 1 | 61B | 60 | 220 | 2200 | 11.2 |

Dimensions (mm)

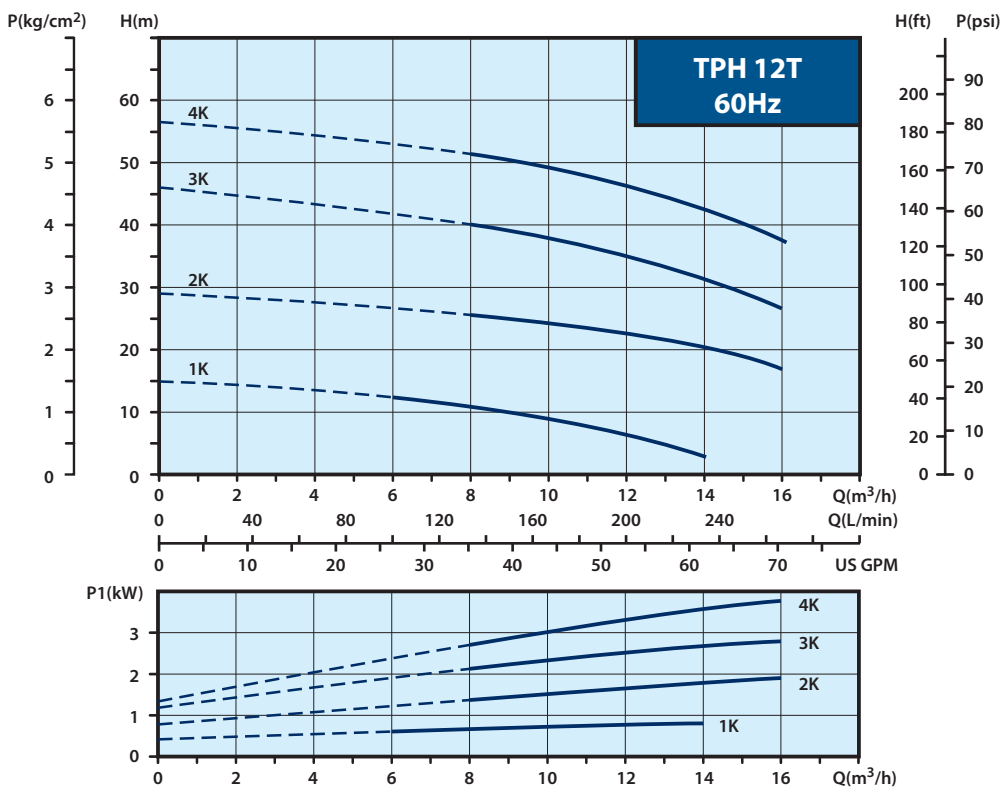


| Model | Cycle (Hz) | A(mm) | B(mm) | C(mm) | D(mm) | N.W.(kg) | |
|------------|--------------|-------|-------|-------|-------|----------|--------|
| TPH 12T 1K | 50/60 | 336.5 | 77 | 88 | 75 | 17.6 | 24 pcs |
| TPH 12T 2K | 50/60 | 376.5 | 77 | 88 | 75 | 20.0 | |
| TPH 12T 3K | 50 | 408.5 | 109 | 120 | 107 | 22.0 | |
| | 60 | 435.5 | 109 | 120 | 107 | 25.4 | |
| TPH 12T 4K | 50/60 | 435.5 | 109 | 120 | 107 | 28.0 | |
| TPH 12T 5K | 50 | 469.5 | 143 | 154 | 141 | 29.2 | |
| TPH 12T 6K | 50 | 469.5 | 143 | 154 | 141 | 29.2 | |

Performance curve (50Hz)



Performance curve (60Hz)

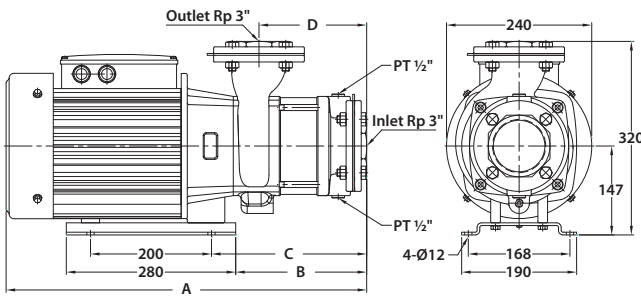


TPH 25T

Electrical data, 50Hz

| Model | PH (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|-------------|--------|--------------|--------------|-------------------|-------------------|--------------|
| TPH 25T 2KF | 3 | 53Q | 50 | 200-240 / 380-440 | 4000 | 12.0 / 6.5 |
| TPH 25T 3KF | 3 | 53Q | 50 | 200-240 / 380-440 | 4800 | 15.6 / 10.0 |
| TPH 25T 4KF | 3 | 53Q | 50 | 200-240 / 380-440 | 5700 | 18.0 / 11.3 |
| TPH 25T 5KF | 3 | 53Q | 50 | 200-240 / 380-440 | 7800 | 24.1 / 13.9 |

Dimensions (mm), 50Hz

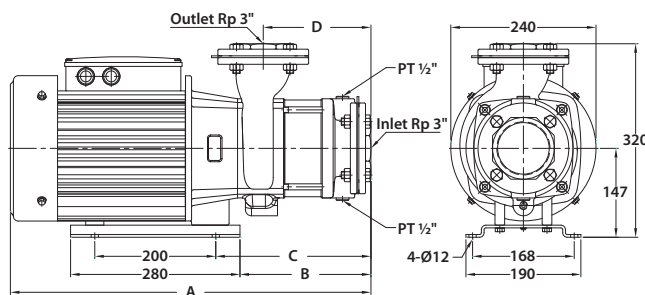


| Model | A(mm) | B(mm) | C(mm) | D(mm) | N.W.(kg) |
|------------|-------|-------|-------|-------|----------|
| TPH 25T2KF | 596 | 216.5 | 256.5 | 178 | 53.0 |
| TPH 25T3KF | 656 | 276.5 | 316.5 | 238 | 58.8 |
| TPH 25T4KF | 656 | 276.5 | 316.5 | 238 | 59.0 |
| TPH 25T5KF | 766 | 336.5 | 376.5 | 298 | 71.0 |

Electrical data, 60Hz

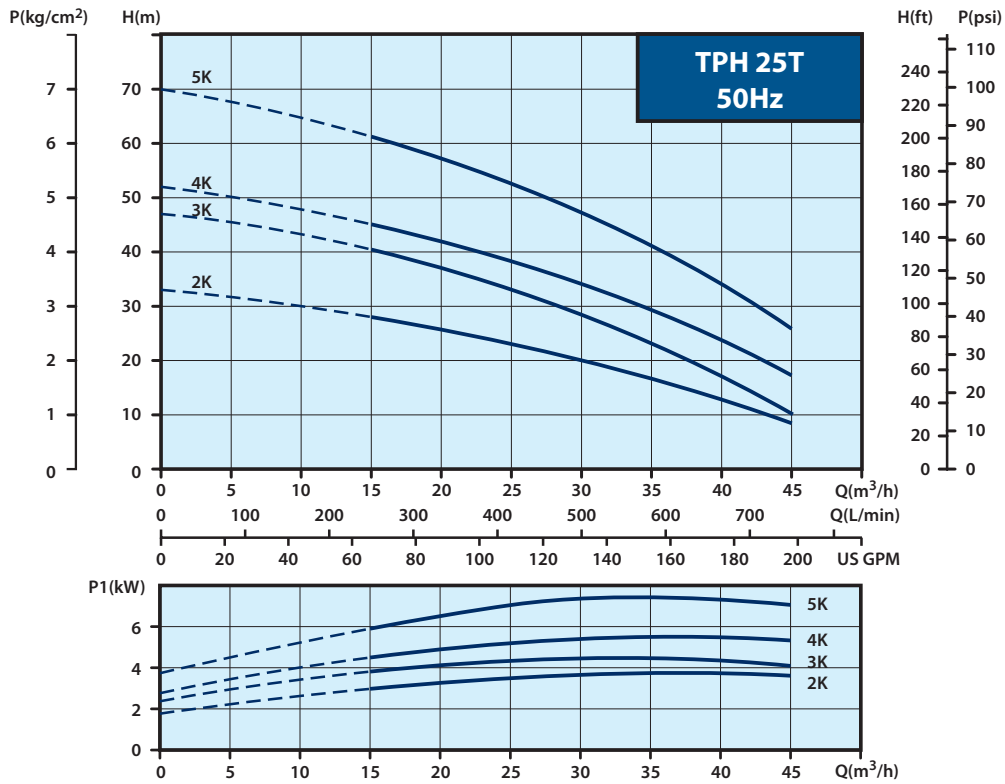
| Model | PH (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|-------------|--------|--------------|--------------|-------------------|-------------------|-----------------------|
| TPH 25T 2KF | 3 | 63Z | 60 | 200-255 / 380-480 | 4000 | 12.9-10.5 / 7.3-5.8 |
| TPH 25T 3KF | 3 | 63Z | 60 | 200-255 / 380-480 | 5100 | 15.6-13.1 / 8.7-8.2 |
| TPH 25T 4KF | 3 | 63Z | 60 | 200-255 / 380-480 | 7200 | 21.2-20.5 / 12.3-12.5 |
| TPH 25T 5KF | 3 | 63Z | 60 | 200-255 / 380-480 | 8000 | 25.6-22.4 / 13.7-13.2 |
| TPH 25T 6KF | 3 | 63Z | 60 | 200-255 / 380-480 | 10200 | 31.2-27.5 / 17.5-15.8 |

Dimensions (mm), 60Hz

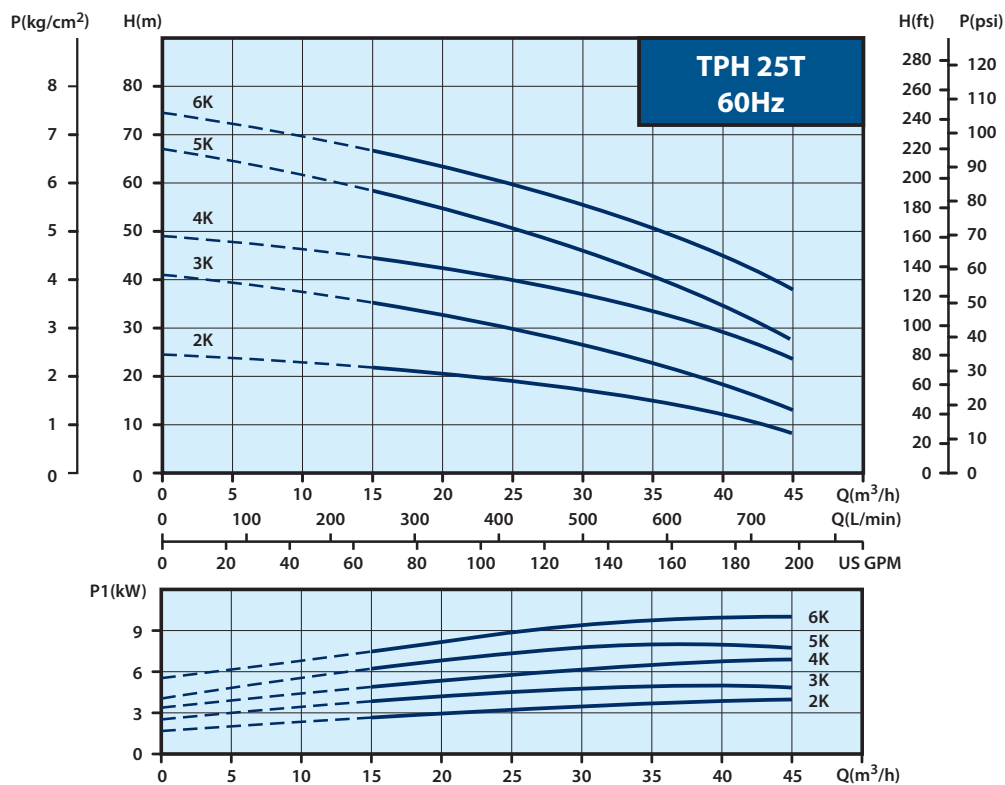


| Model | A(mm) | B(mm) | C(mm) | D(mm) | N.W.(kg) |
|------------|-------|-------|-------|-------|----------|
| TPH 25T2KF | 536 | 156.5 | 196.5 | 118 | 51.0 |
| TPH 25T3KF | 596 | 216.5 | 256.5 | 178 | 56.8 |
| TPH 25T4KF | 596 | 216.5 | 256.5 | 178 | 57.0 |
| TPH 25T5KF | 706 | 276.5 | 316.5 | 238 | 68.8 |
| TPH 25T6KF | 706 | 276.5 | 316.5 | 238 | 69.0 |

Performance curve (50Hz)



Performance curve (60Hz)

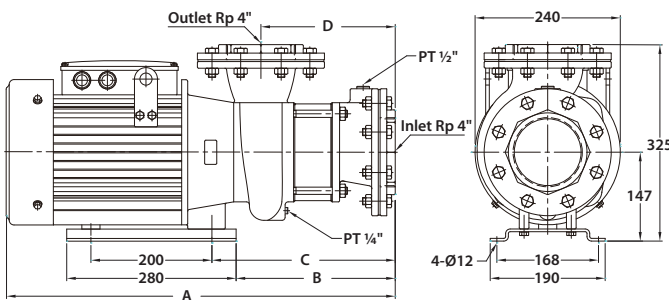


TPH 50T

Electrical data, 50Hz

| Model | PH (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|---------------|--------|--------------|--------------|-------------------|-------------------|-----------------------|
| TPH 50 T 2 KF | 3 | 53Q | 50 | 200-240 / 380-440 | 6600 | 20.3-19.2 / 11.2-12.9 |
| TPH 50 T 3 KF | 3 | 53Q | 50 | 200-240 / 380-440 | 8700 | 26.0-22.6 / 14.4-14.8 |
| TPH 50 T 4 KF | 3 | 53Q | 50 | 200-240 / 380-440 | 11600 | 36.3-30.8 / 19.8-20.4 |

Dimensions (mm), 50Hz

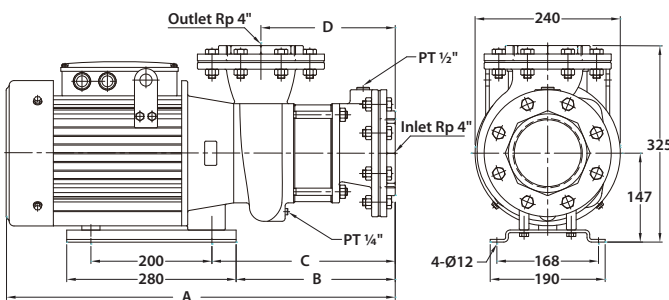


| Model | A(mm) | B(mm) | C(mm) | D(mm) | N.W.(kg) |
|-------------|-------|-------|-------|-------|----------|
| TPH 50T 2KF | 642.5 | 263 | 303 | 222 | 61.5 |
| TPH 50T 3KF | 752.5 | 323 | 363 | 282 | 80.6 |
| TPH 50T 4KF | 802.5 | 323 | 363 | 282 | 88.0 |

Electrical data, 60Hz

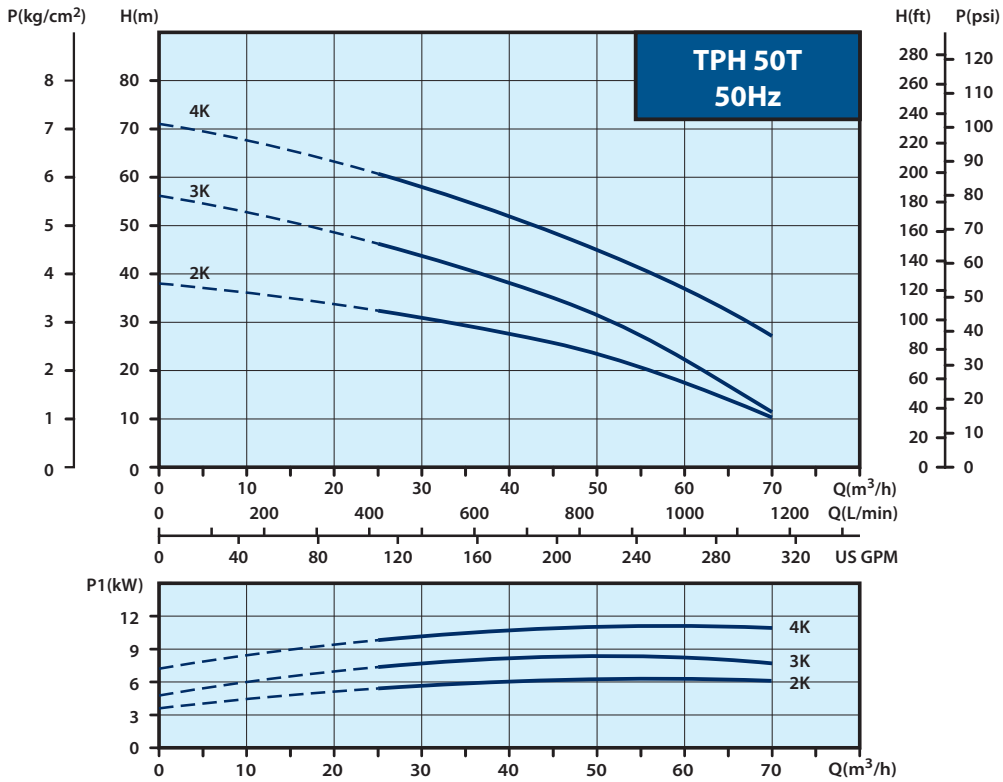
| Model | PH (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|---------------|--------|--------------|--------------|-------------------|-------------------|-----------------------|
| TPH 50 T2.5KF | 3 | 63Q | 60 | 200-240 / 380-440 | 8500 | 25.0-23.3 / 14.1-14.8 |
| TPH 50 T 4 KF | 3 | 63Z | 60 | 200-255 / 380-480 | 11500 | 34.8-32.2 / 19.1-21.7 |
| TPH 50 T 5 KF | 3 | 63Q | 60 | 200-240 / 380-440 | 14200 | 44.3-42.6 / 23.9-26.3 |

Dimensions (mm), 60Hz

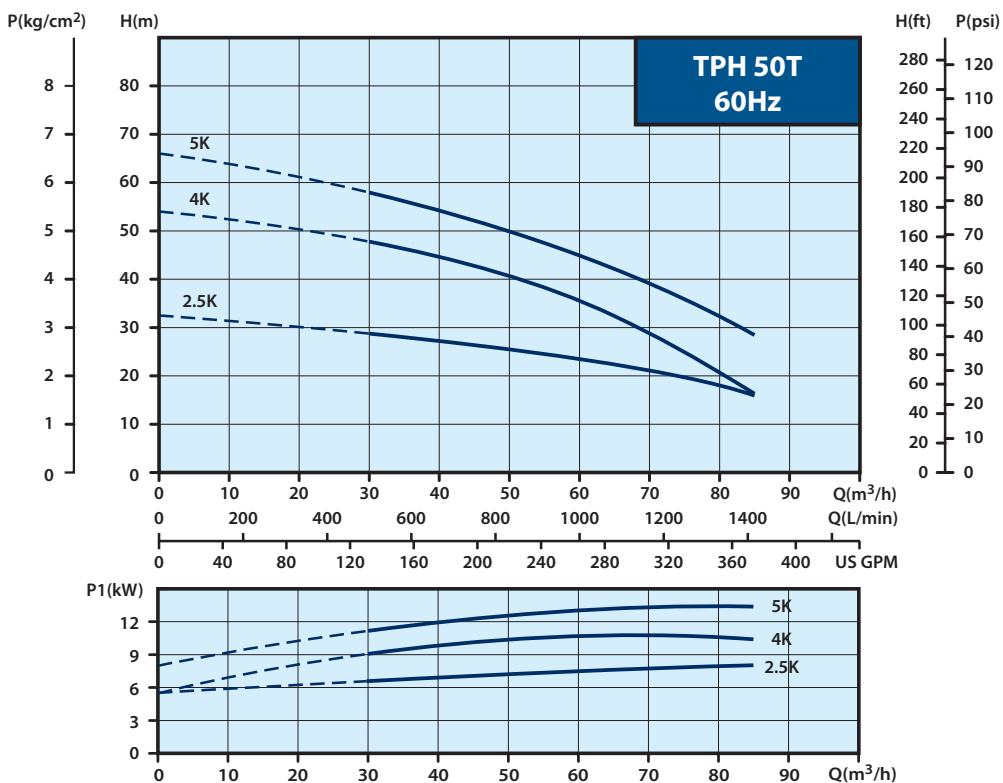


| Model | A(mm) | B(mm) | C(mm) | D(mm) | N.W.(kg) |
|--------------|-------|-------|-------|-------|----------|
| TPH 50T2.5KF | 582.5 | 203 | 243 | 162 | 55.6 |
| TPH 50T 4KF | 692.5 | 263 | 303 | 222 | 77.6 |
| TPH 50T 5KF | 742.5 | 263 | 303 | 222 | 86.7 |

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.

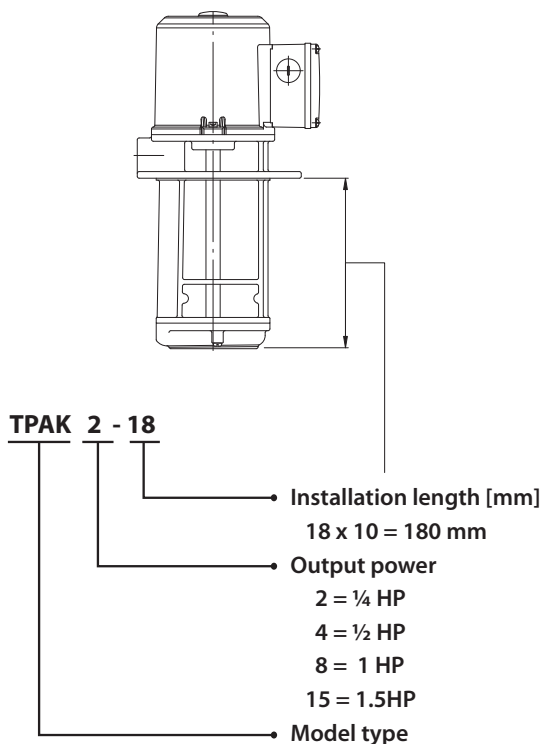
Operating Conditions:

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.

Model code



Motor

Enclosure protection class: IP54

Insulation class: F.

Frequency range: 50 / 60 Hz

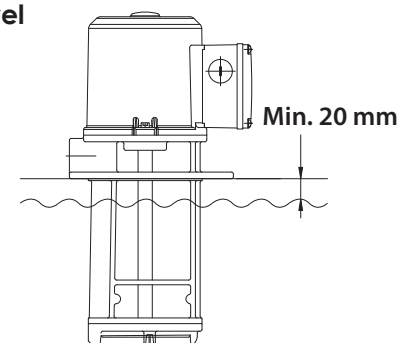
Nominal speed : 2900 / 3500 rpm

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

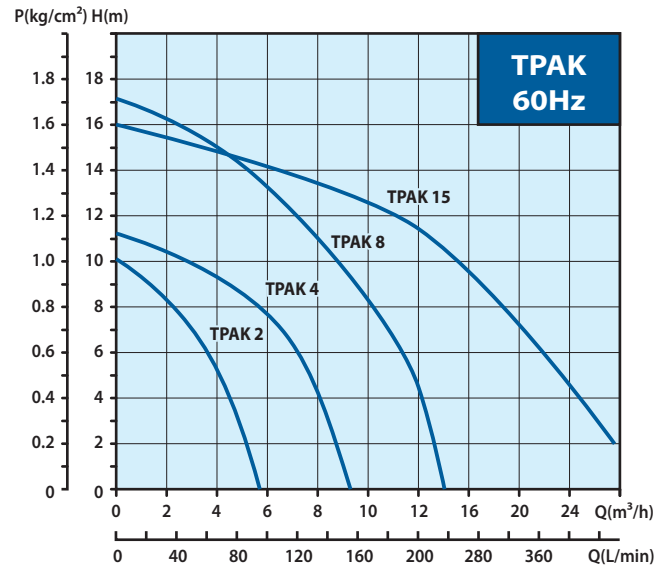
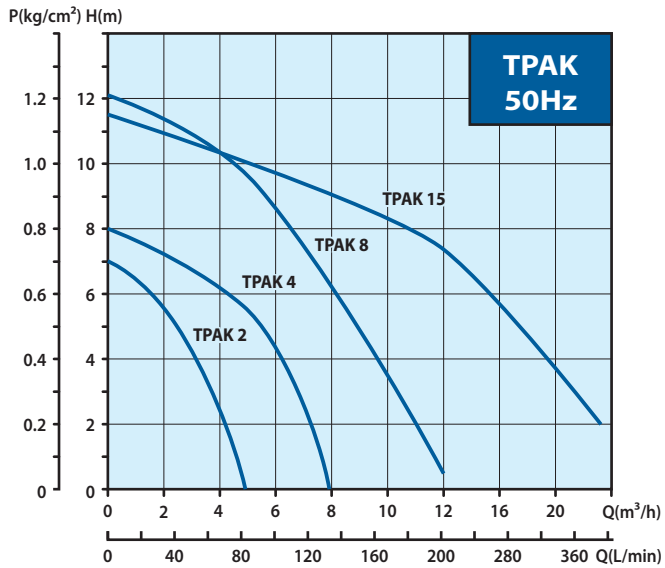
3Ø 60Hz: 200-255V / 380-480V

Installation


Maximum liquid level

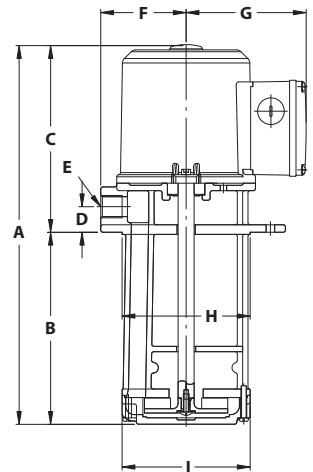


Performance curve



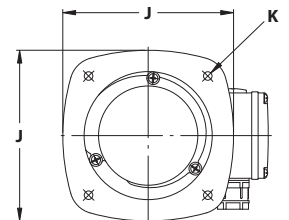
Dimensions (mm)

| Model | DIMENSIONS (mm) | | | | | | | | | | | N.W.(kg) |  |
|------------|-------------------|-----|-------|----|-----------|-----|-----|------|------|-----|-------------|----------|---|
| | A | B | C | D | E | F | G | H | I | J | K | | |
| TPAK 2-15 | 325 | 150 | 175 | 24 | Rp 1/2" | 80 | 113 | Ø120 | Ø120 | 160 | 4xØ8 PCD158 | 9.5 | 36 |
| TPAK 2-18 | 355 | 180 | 175 | 24 | Rp 1/2" | 80 | 113 | Ø120 | Ø120 | 160 | 4xØ8 PCD158 | 10.0 | 36 |
| TPAK 2-25 | 425 | 250 | 175 | 24 | Rp 1/2" | 80 | 113 | Ø120 | Ø120 | 160 | 4xØ8 PCD158 | 10.6 | 24 |
| TPAK 4-15 | 386 | 150 | 236 | 28 | Rp 3/4" | 85 | 111 | Ø135 | Ø135 | 170 | 4xØ9 PCD170 | 11.2 | 24 |
| TPAK 4-18 | 416 | 180 | 236 | 28 | Rp 3/4" | 85 | 111 | Ø135 | Ø135 | 170 | 4xØ9 PCD170 | 11.9 | 24 |
| TPAK 4-25 | 486 | 250 | 236 | 28 | Rp 3/4" | 85 | 111 | Ø135 | Ø135 | 170 | 4xØ9 PCD170 | 12.7 | 24 |
| TPAK 8-18 | 457 | 180 | 277 | 29 | Rp 1" | 95 | 111 | Ø150 | Ø150 | 190 | 4xØ9 PCD185 | 15.5 | 24 |
| TPAK 8-25 | 527 | 250 | 277 | 29 | Rp 1" | 95 | 111 | Ø150 | Ø150 | 190 | 4xØ9 PCD185 | 17.1 | 24 |
| TPAK 15-25 | 573.5 | 250 | 323.5 | 40 | Rp 1 1/2" | 122 | 124 | Ø180 | Ø180 | 200 | 4xØ9 PCD210 | 24.0 | 15 |



Electrical data, 50/60Hz

| Model | PH (Ø) | Cycle (Hz) | Input Power (W) | Volts (V) | Ampere (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 |





Memo

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: 3/4"

Applications

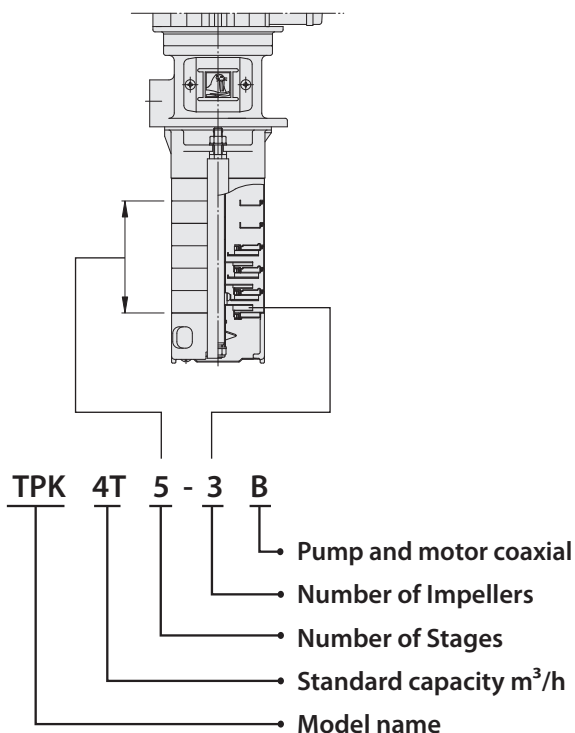
The WALRUS TPK Series is vertical multistage centrifugal pump, designed for industrial use, specially for machine tools, to carry fluids such as water, coolant, light oil and other clean, non aggressive matters.

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

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

Model code



Pump Construction

Immersible 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

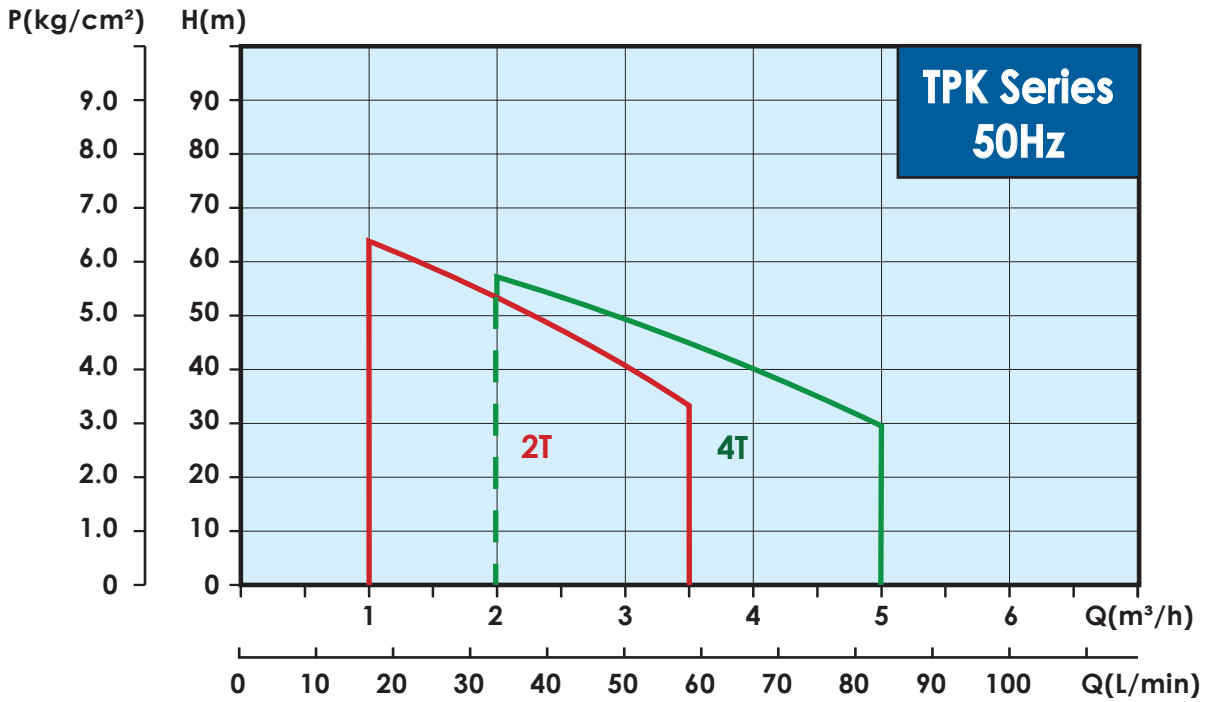
Voltages Code:

| Code | PH | 50Hz | 60Hz |
|------|----|------------------|------------------|
| 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 |

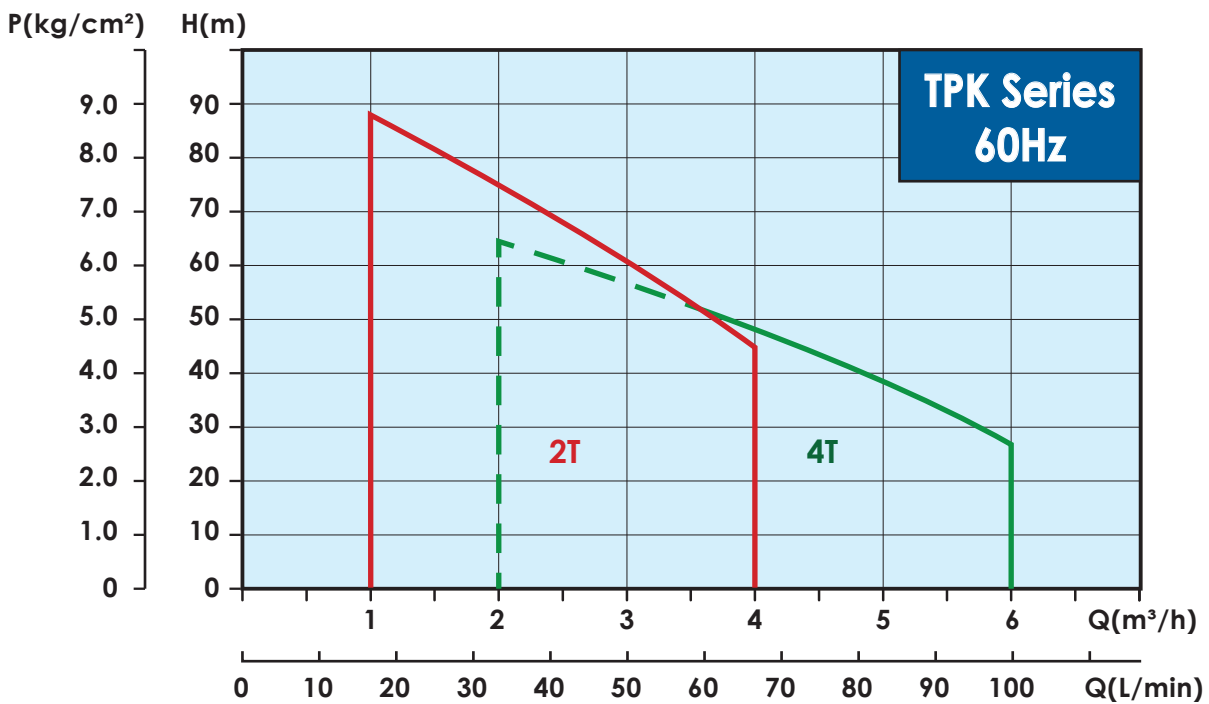
* The motor can be use in both 50/60 hz.

TPK Series Immersible Pump

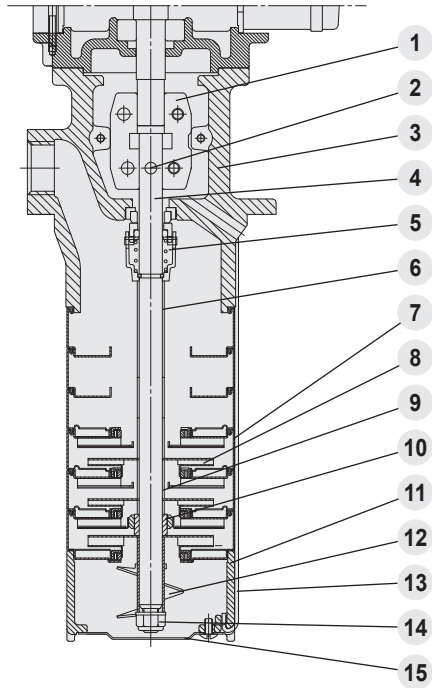
Performance curve (50Hz)



Performance curve (60Hz)



Sectional drawing



Materials

| No. | Part name | Material |
|-----|-------------------------|----------|
| 1 | Coupling | ADC 6 |
| 2 | Shaft pin | SUS 304 |
| 3 | Pump head | FCD 45 |
| 4 | Shaft | SUS 304 |
| 5 | Mechanical Seal | HSSH |
| 6 | Sleeve | SUS 304 |
| 7 | Intermediate chamber | SUS 304 |
| 8 | Impeller | SUS 304 |
| 9 | Sleeve (impeller) | SUS 304 |
| 10 | Bearing ring | SiC |
| 11 | Suction intercon-necter | SUS 304 |
| 12 | Priming screw | SUS 304 |
| 13 | Strap | SUS 304 |
| 14 | Lock Nut | SUS 316 |
| 15 | Filter | SUS 304 |

Options on request

- Special mechanical seal

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

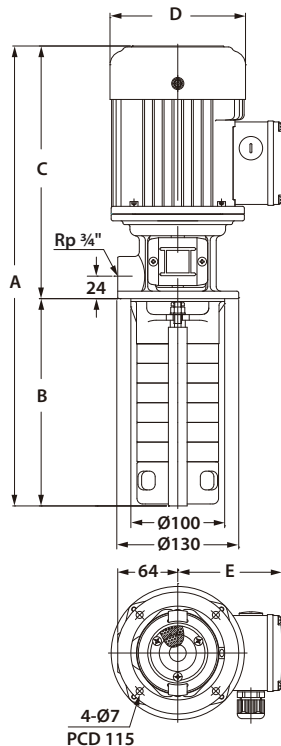
TPK 2T


Electrical data

| Standard Model | Phase (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|----------------|-----------|--------------|------------|-------------------|-----------------|------------|
| TPK 2T 5 - 1 B | 3 | A3Z | 50 | 200-255 / 380-440 | 220 | 0.9 / 0.6 |
| | | | 60 | 200-255 / 380-480 | 280 | 0.9 / 0.6 |
| TPK 2T 3 - 3 B | 3 | A3Z | 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 | A3Z | 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 | A3Z | 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 | A3Z | 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 | A3Z | 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 | A3U | 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 | A3U | 50 | 200-240 / 380-415 | 950 | 3.6 / 2.1 |
| | | | 60 | 200-240 / 380-440 | 1450 | 5.0 / 2.7 |

Maximum 19 Stages

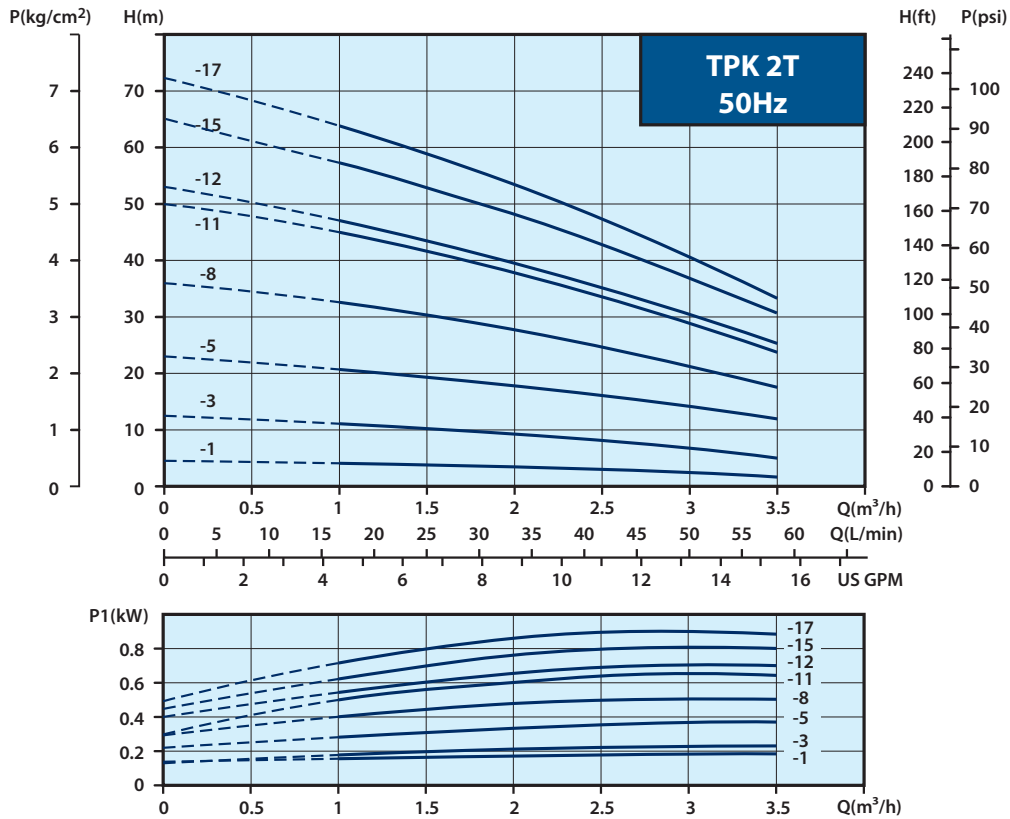
Dimensions (mm)



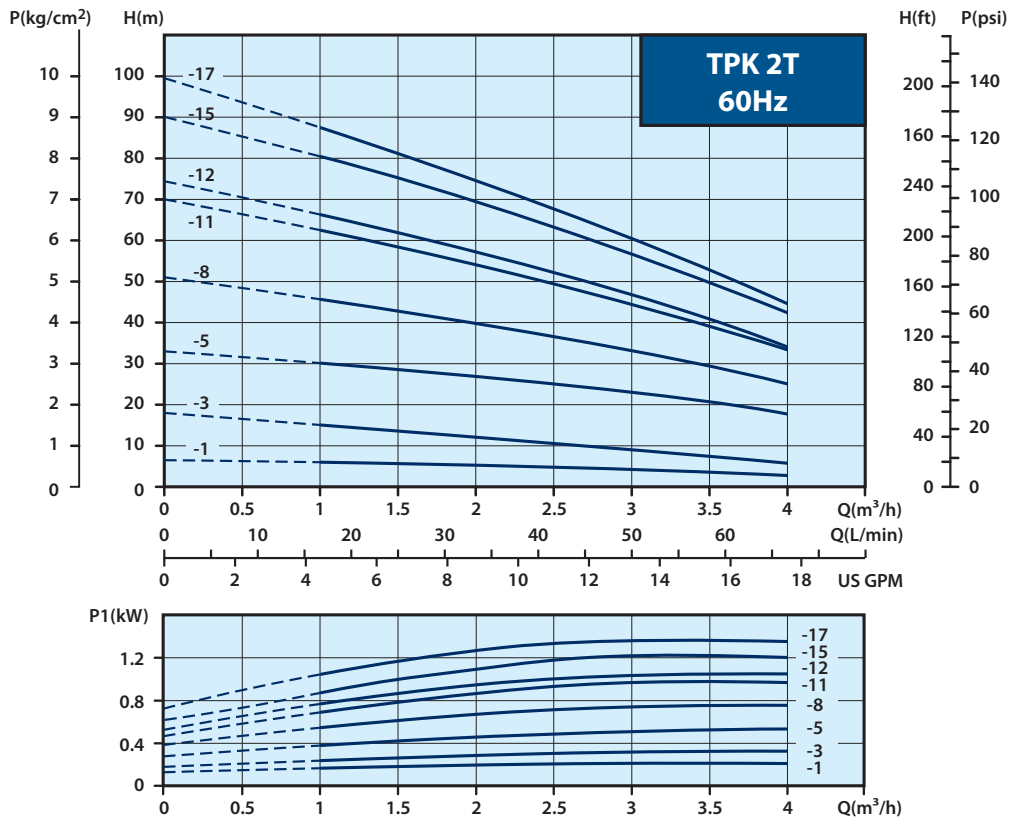
| Model | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | N.W.(kg) |  |
|---------------|--------|--------|--------|--------|--------|----------|---|
| TPK2T 5 - 1 B | 447 | 221 | 226 | 123 | 101 | 8.7 | 30 |
| TPK2T 3 - 3 B | 405 | 179 | 226 | 123 | 101 | 8.7 | 30 |
| TPK2T 5 - 3 B | 447 | 221 | 226 | 123 | 101 | 8.9 | 30 |
| TPK2T 8 - 3 B | 510 | 284 | 226 | 123 | 101 | 9.2 | 24 |
| TPK2T 11- 3 B | 573 | 347 | 226 | 123 | 101 | 9.6 | 24 |
| TPK2T 5 - 5 | 491 | 221 | 270 | 144.5 | 111 | 12.1 | 30 |
| TPK2T 8 - 5 | 554 | 284 | 270 | 144.5 | 111 | 12.4 | 24 |
| TPK2T 10- 5 | 596 | 326 | 270 | 144.5 | 111 | 12.6 | 24 |
| TPK2T 11- 5 | 617 | 347 | 270 | 144.5 | 111 | 12.7 | 18 |
| TPK2T 15- 5 | 701 | 431 | 270 | 144.5 | 111 | 13.0 | 18 |
| TPK2T 8 - 8 | 554 | 284 | 270 | 144.5 | 111 | 12.7 | 24 |
| TPK2T 11- 8 | 617 | 347 | 270 | 144.5 | 111 | 13.0 | 18 |
| TPK2T 11-11 | 657 | 347 | 310 | 144.5 | 111 | 14.3 | 18 |
| TPK2T 15-12 | 741 | 431 | 310 | 144.5 | 111 | 14.5 | 18 |
| TPK2T 15-15 | 741 | 431 | 310 | 144.5 | 111 | 15.0 | 18 |
| TPK2T 19-15 | 825 | 515 | 310 | 144.5 | 111 | 15.4 | 18 |
| TPK2T 19-17 | 825 | 515 | 310 | 144.5 | 111 | 15.8 | 18 |

B Model without coupling design.

Performance curve (50Hz)



Performance curve (60Hz)



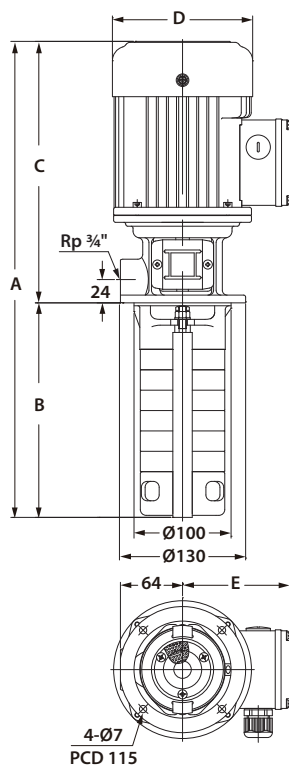
TPK 4T


Electrical data

| Standard Model | Phase (Ø) | voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|----------------|-----------|--------------|------------|-------------------|-----------------|------------|
| TPK 4T 3 - 1 B | 3 | A3Z | 50 | 200-255 / 380-440 | 250 | 1.0 / 0.6 |
| | | | 60 | 200-255 / 380-480 | 300 | 1.0 / 0.6 |
| TPK 4T 3 - 3 B | 3 | A3Z | 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 | A3Z | 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 | A3Z | 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 | A3Z | 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 | A3Z | 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 | A3U | 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 | A3U | 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 | 53Q | 50 | 200-240 / 380-440 | 1300 | 4.4 / 2.8 |

Maximum 19 Stages

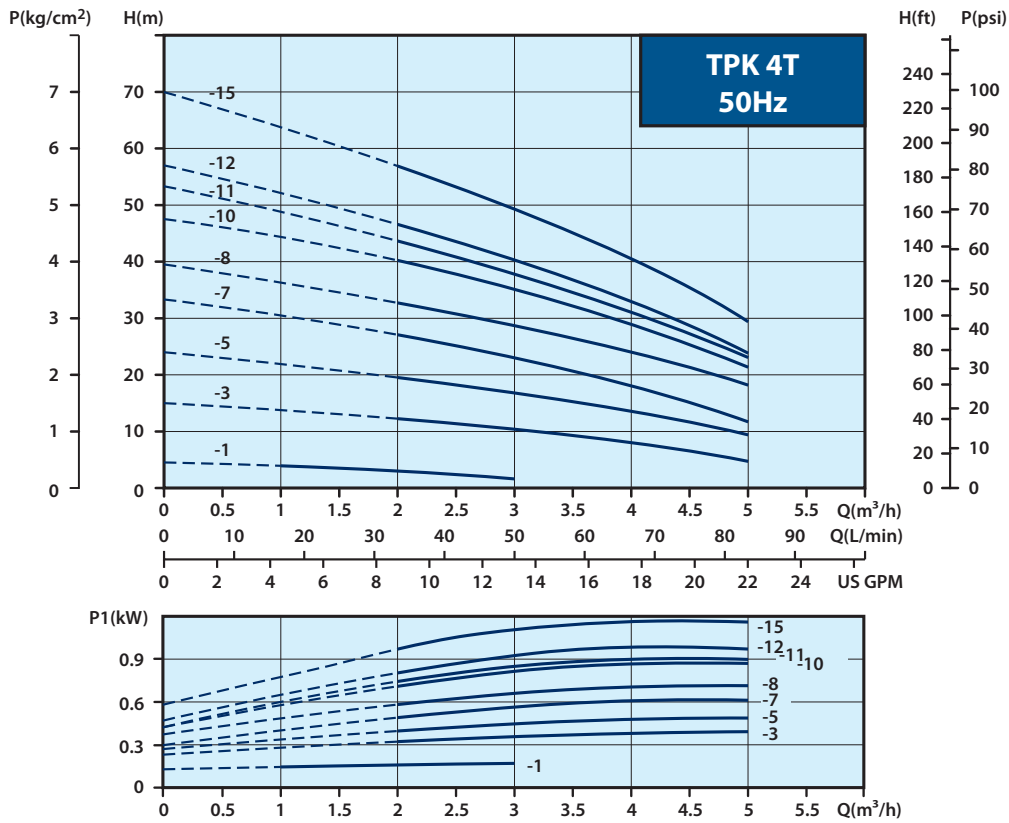
Dimensions (mm)



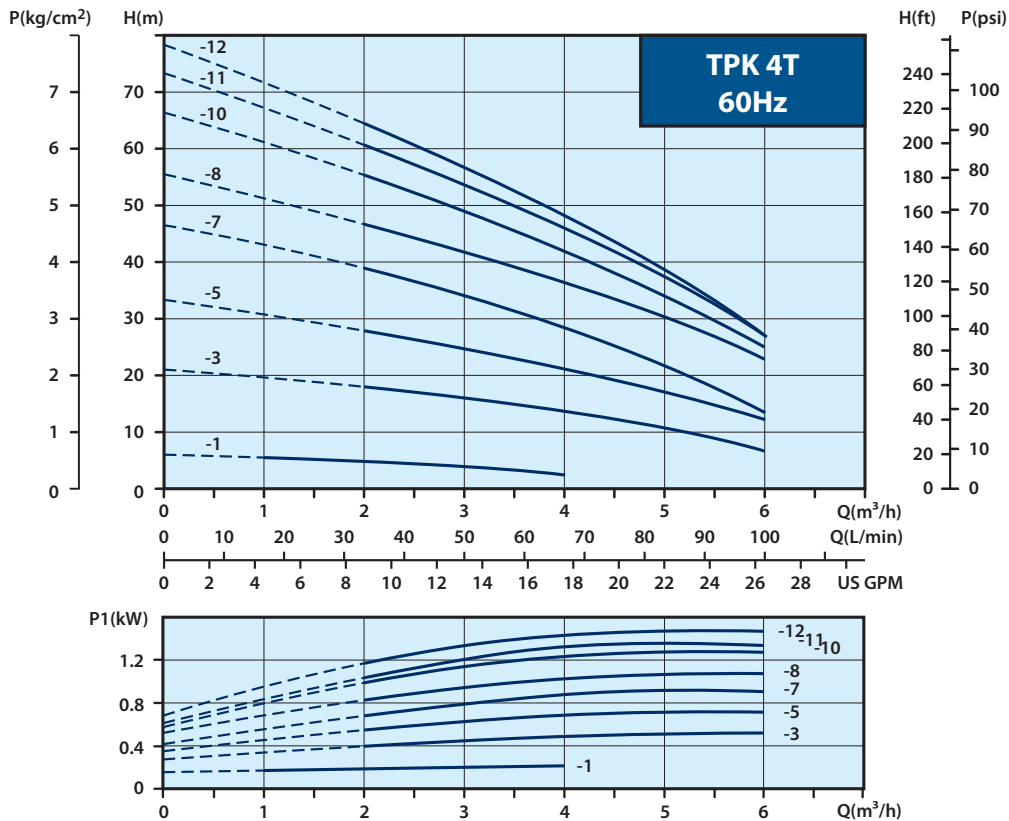
| Model | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | N.W.(kg) |  |
|--------------|--------|--------|--------|--------|--------|----------|---|
| TPK4T 3 - 1B | 405 | 179 | 226 | 123 | 101 | 8.4 | 30 |
| TPK4T 5 - 1B | 447 | 221 | 226 | 123 | 101 | 8.7 | 30 |
| TPK4T 3 - 3B | 449 | 179 | 270 | 144.5 | 111 | 11.8 | 30 |
| TPK4T 5 - 3 | 491 | 221 | 270 | 144.5 | 111 | 12.0 | 30 |
| TPK4T 8 - 3 | 554 | 284 | 270 | 144.5 | 111 | 12.3 | 24 |
| TPK4T 19- 3 | 785 | 515 | 270 | 144.5 | 111 | 13.4 | 18 |
| TPK4T 5 - 5 | 491 | 221 | 270 | 144.5 | 111 | 12.1 | 30 |
| TPK4T 8 - 5 | 554 | 284 | 270 | 144.5 | 111 | 12.4 | 24 |
| TPK4T 11- 5 | 617 | 347 | 270 | 144.5 | 111 | 12.7 | 18 |
| TPK4T 15- 5 | 701 | 431 | 270 | 144.5 | 111 | 13.0 | 18 |
| TPK4T 19- 5 | 785 | 515 | 270 | 144.5 | 111 | 13.3 | 18 |
| TPK4T 19- 7 | 825 | 515 | 310 | 144.5 | 111 | 14.8 | 18 |
| TPK4T 8 - 8 | 594 | 284 | 310 | 144.5 | 111 | 13.8 | 24 |
| TPK4T 11- 8 | 657 | 347 | 310 | 144.5 | 111 | 14.1 | 18 |
| TPK4T 15- 8 | 741 | 431 | 310 | 144.5 | 111 | 14.4 | 18 |
| TPK4T 19- 8 | 825 | 515 | 310 | 144.5 | 111 | 14.8 | 18 |
| TPK4T 11-10 | 657 | 347 | 310 | 144.5 | 111 | 14.2 | 18 |
| TPK4T 15-10 | 741 | 431 | 310 | 144.5 | 111 | 14.5 | 18 |
| TPK4T 19-10 | 825 | 515 | 310 | 144.5 | 111 | 14.9 | 18 |
| TPK4T 11-11 | 657 | 347 | 310 | 144.5 | 111 | 14.3 | 18 |
| TPK4T 15-12 | 741 | 431 | 310 | 144.5 | 111 | 14.6 | 18 |
| TPK4T 19-12 | 825 | 515 | 310 | 144.5 | 111 | 14.8 | 18 |
| TPK4T 15-15 | 741 | 431 | 310 | 144.5 | 111 | 15.0 | 18 |
| TPK4T 19-15 | 825 | 515 | 310 | 144.5 | 111 | 15.4 | 18 |

B Model without coupling design.

Performance curve (50Hz)



Performance curve (60Hz)





Memo

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" - 1 1/4"

Applications

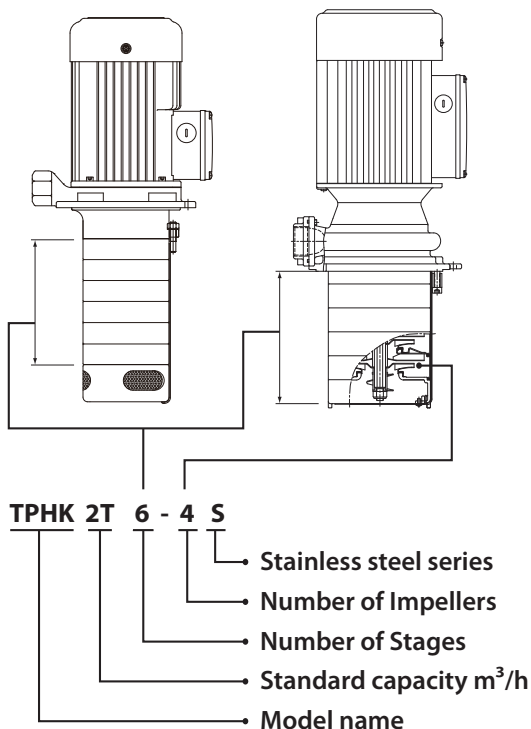
The TPHK Series is vertical multistage centrifugal pump, designed for industrial use, specially for machine tools. It is suitable to carry fluids such as water, coolant, light oil and other clean, non aggressive matters:

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

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

Model code



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

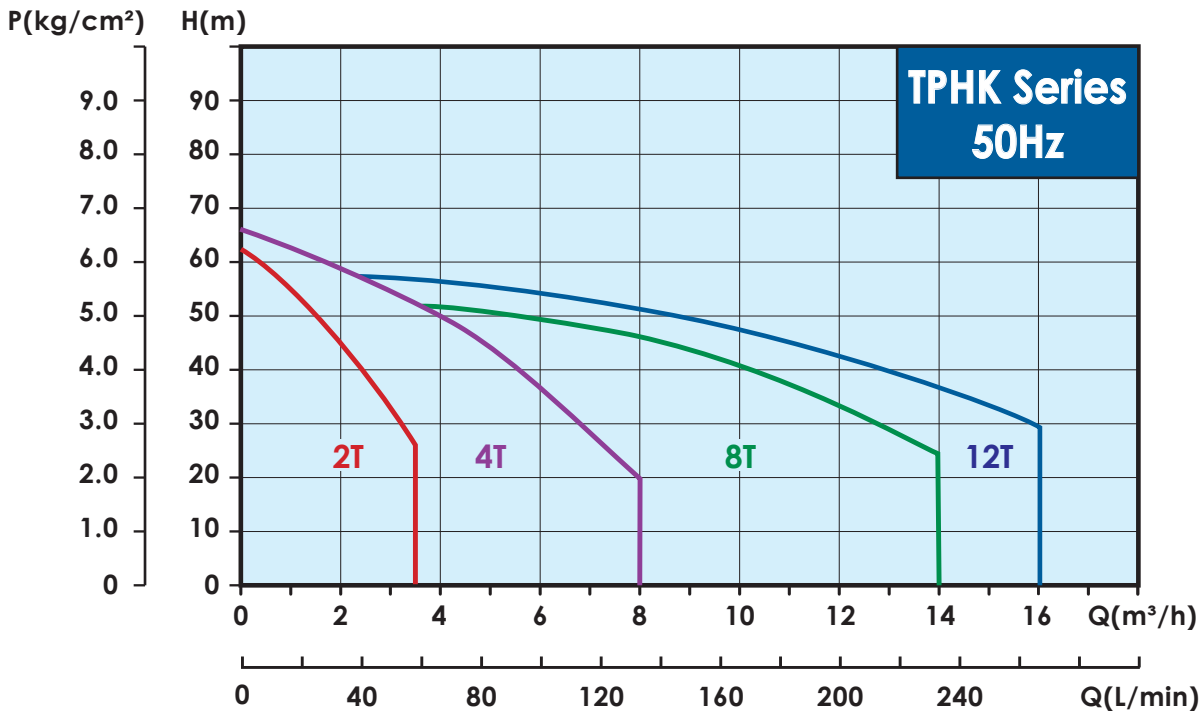
Voltages Code :

| 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 |

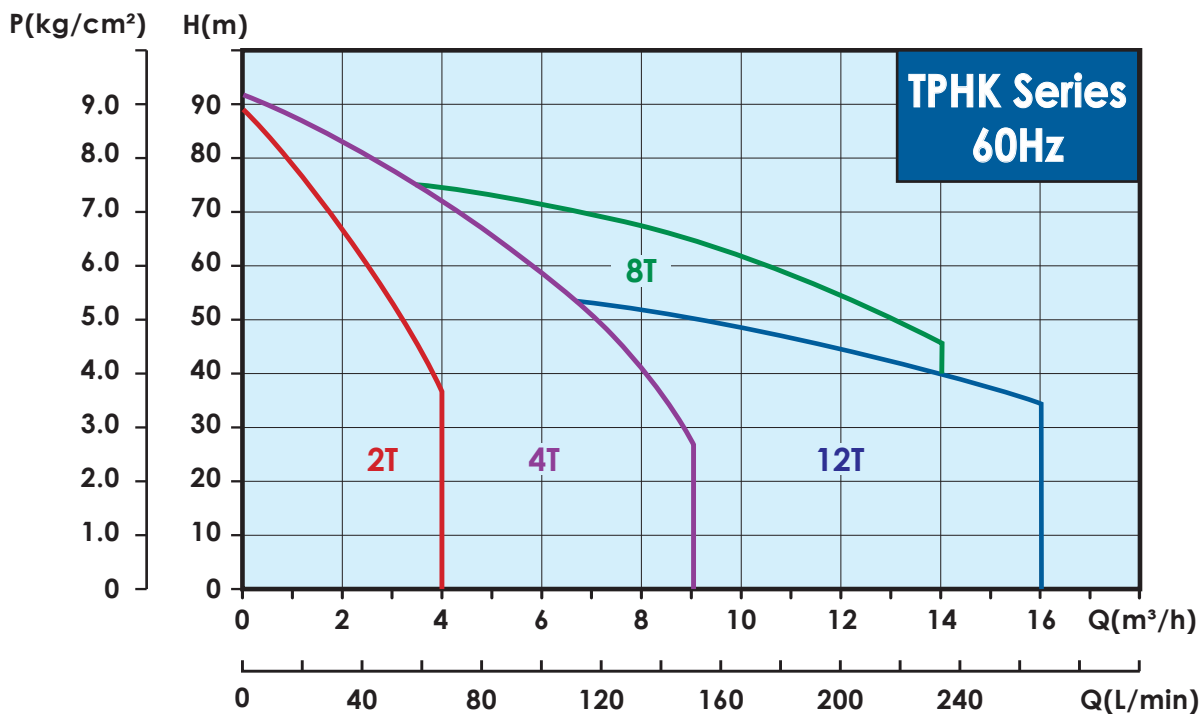
* The motor can be use in both 50/60 hz.

TPHK Series Immersible Pump

Performance curve (50Hz)

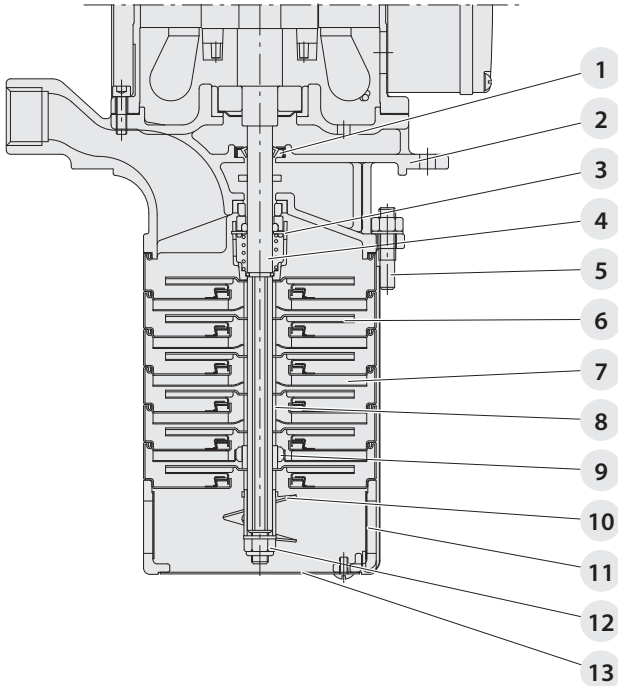


Performance curve (60Hz)



Sectional drawing

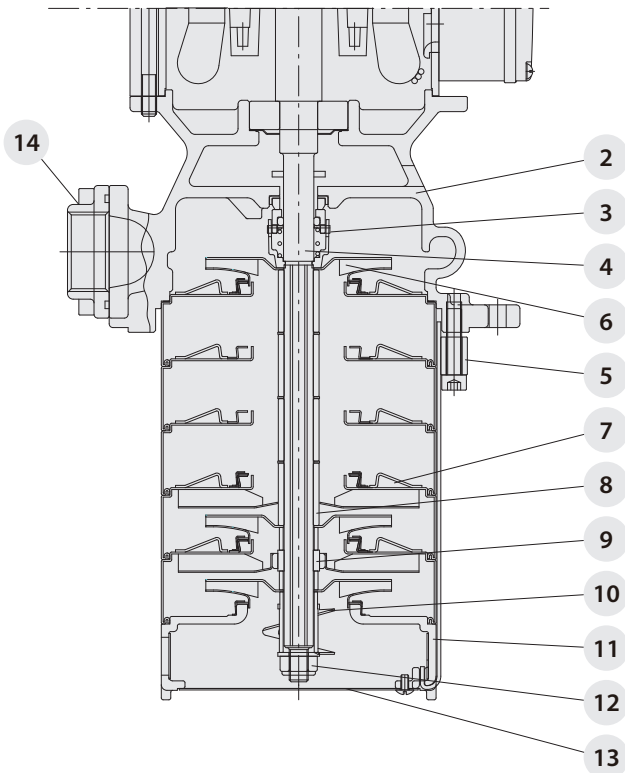
TPHK 2T/4T



Materials

| NO. | Part name | Material | |
|-----|-------------------------|----------|----------|
| | | Standard | S series |
| 1 | Oil Seal | NBR | |
| 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 | SiC | |
| 10 | Priming screw | SUS 304 | |
| 11 | Suction intercon-nector | SUS 304 | |
| 12 | Lock Nut | SUS 316 | |
| 13 | Filter | SUS 304 | |
| 14 | Flange | SUS 304 | |

TPHK 8T/12T



Options on request

- Special mechanical seal

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

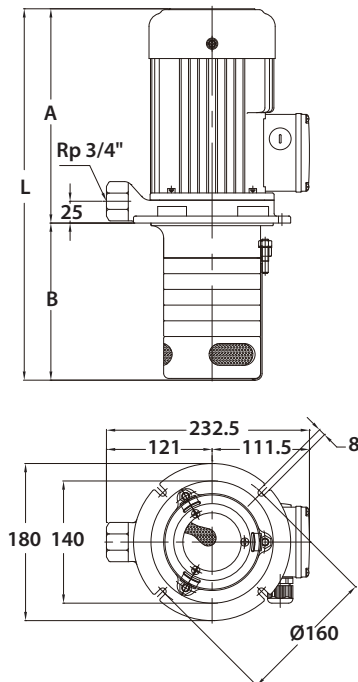
TPHK 2T


Electrical data

| Standard Model | Phase (Ø) | Voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|----------------|-----------|--------------|------------|-------------------|-----------------|-------------------|
| TPHK 2T 3 - 1 | 3 | A3Z | 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 | A3Z | 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 | 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 |
| TPHK 2T 4 - 4 | 3 | A3Z | 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 | A3Z | 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 | 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 |
| TPHK 2T 7 - 7 | 3 | A3U | 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 |

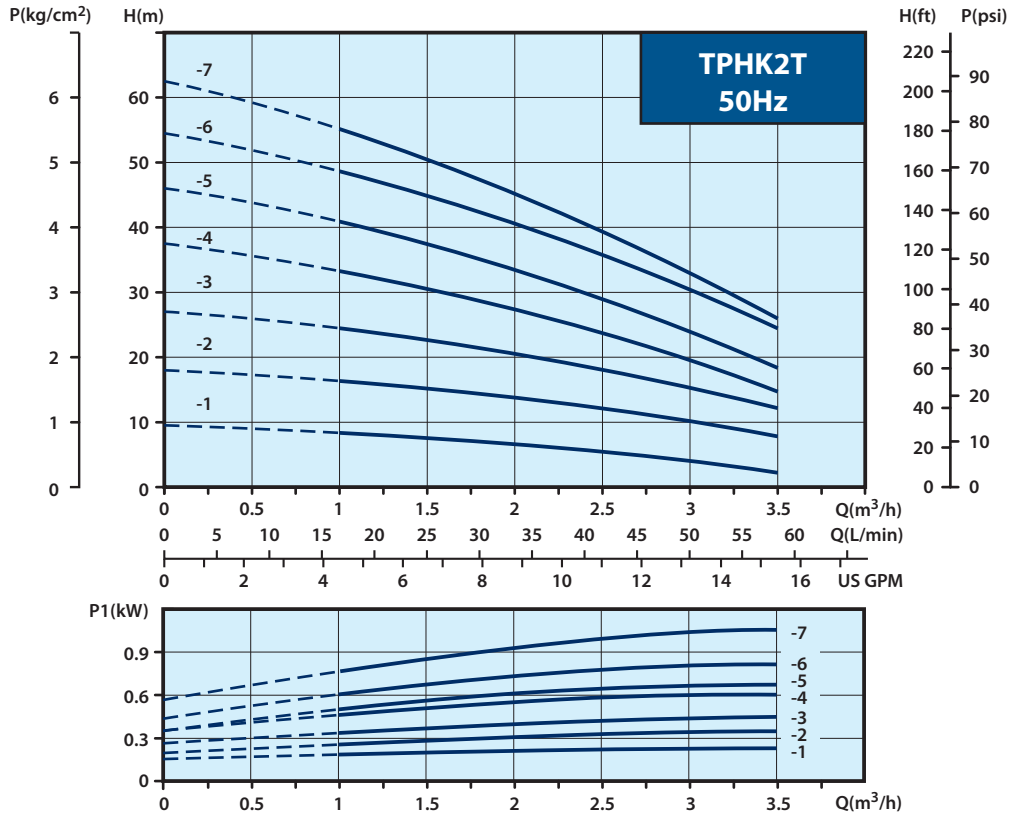
Maximum 11 Stages

Dimensions (mm)

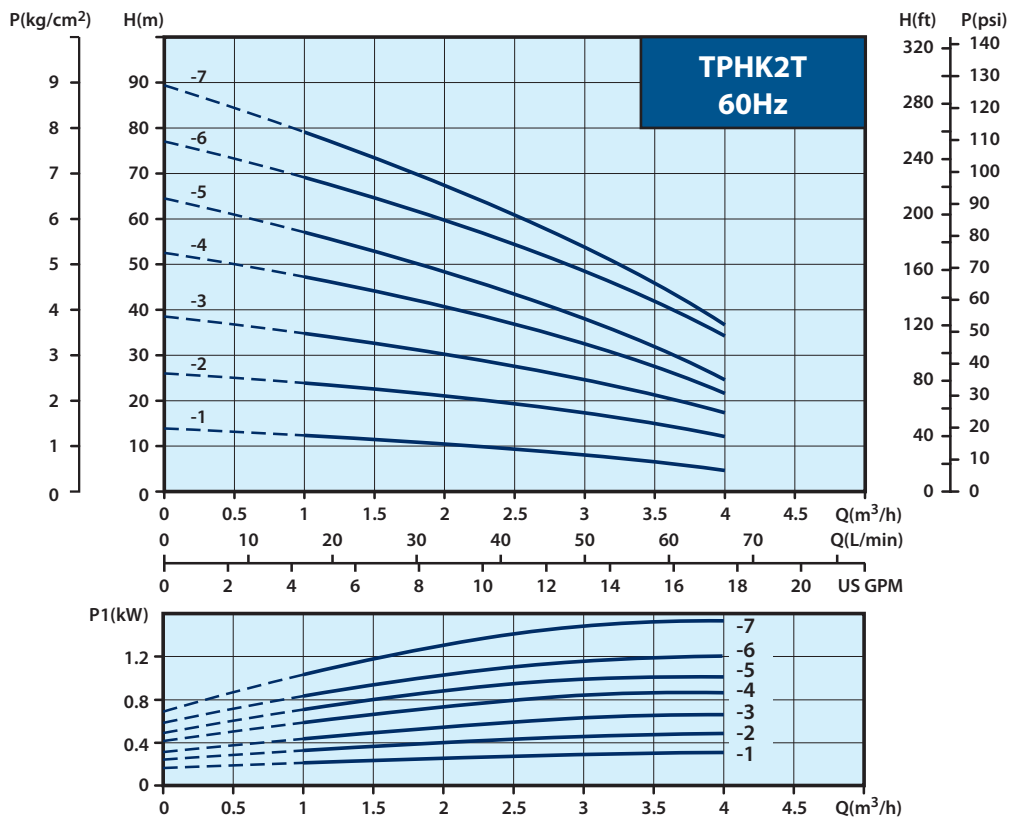


| Model | A (mm) | B (mm) | L (mm) | N.W.(kg) |  |
|---------------|--------|--------|--------|----------|---|
| TPHK 2T 3 - 1 | 205.5 | 144 | 349.5 | 10.9 | 30 |
| TPHK 2T 8 - 1 | 205.5 | 234 | 439.5 | 11.9 | 30 |
| TPHK 2T 3 - 2 | 205.5 | 144 | 349.5 | 11.1 | 30 |
| TPHK 2T 5 - 2 | 205.5 | 180 | 385.5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

Performance curve (50Hz)



Performance curve (60Hz)



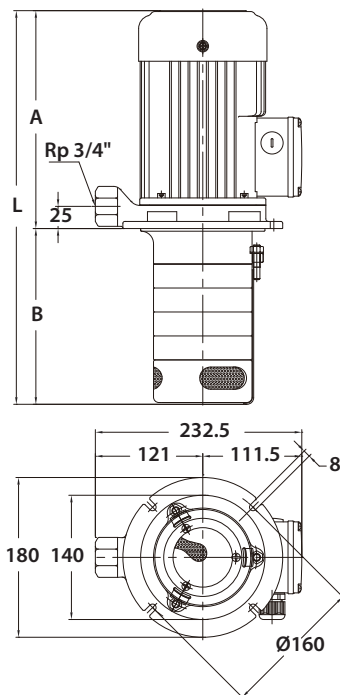
TPHK 4T


Electrical data

| Standard Model | Phase (Ø) | Voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|----------------|-----------|--------------|------------|-------------------|-----------------|--------------------|
| TPHK 4T 2 - 1 | 3 | A3Z | 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 | A3Z | 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 | 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 |
| TPHK 4T 4 - 4 | 3 | A3U | 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 | A3U | 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 | A3U | 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 | A3U | 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 |

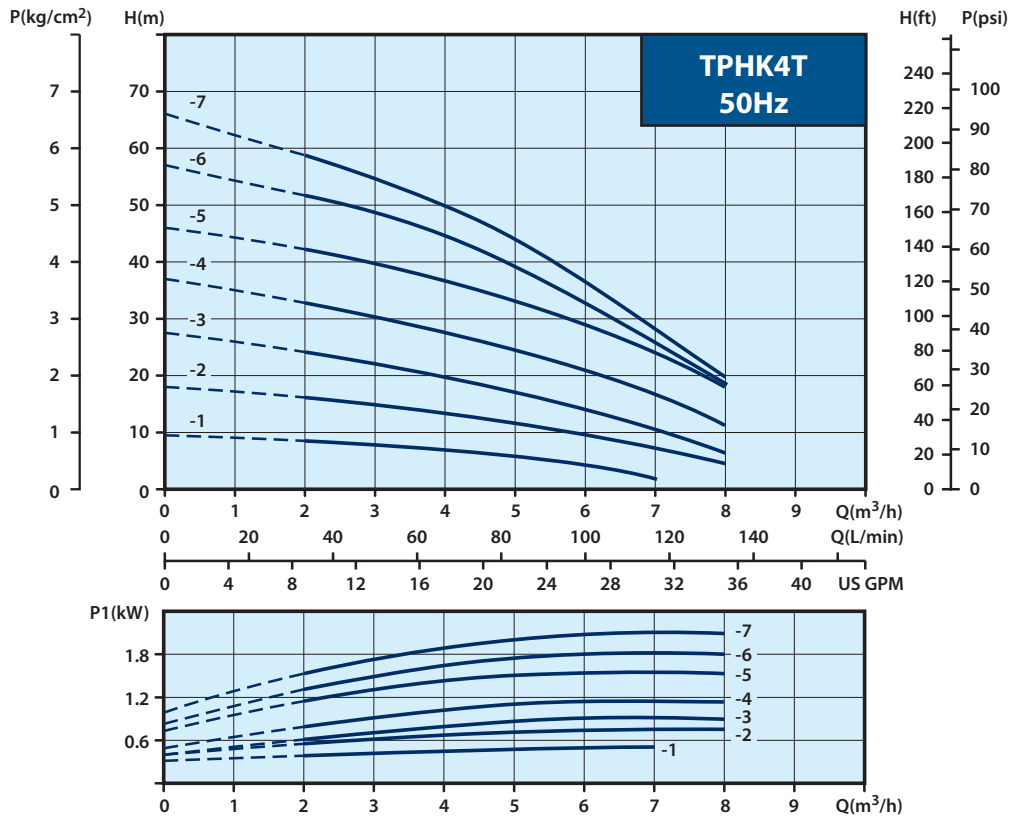
Maximum 8 Stages

Dimensions (mm)

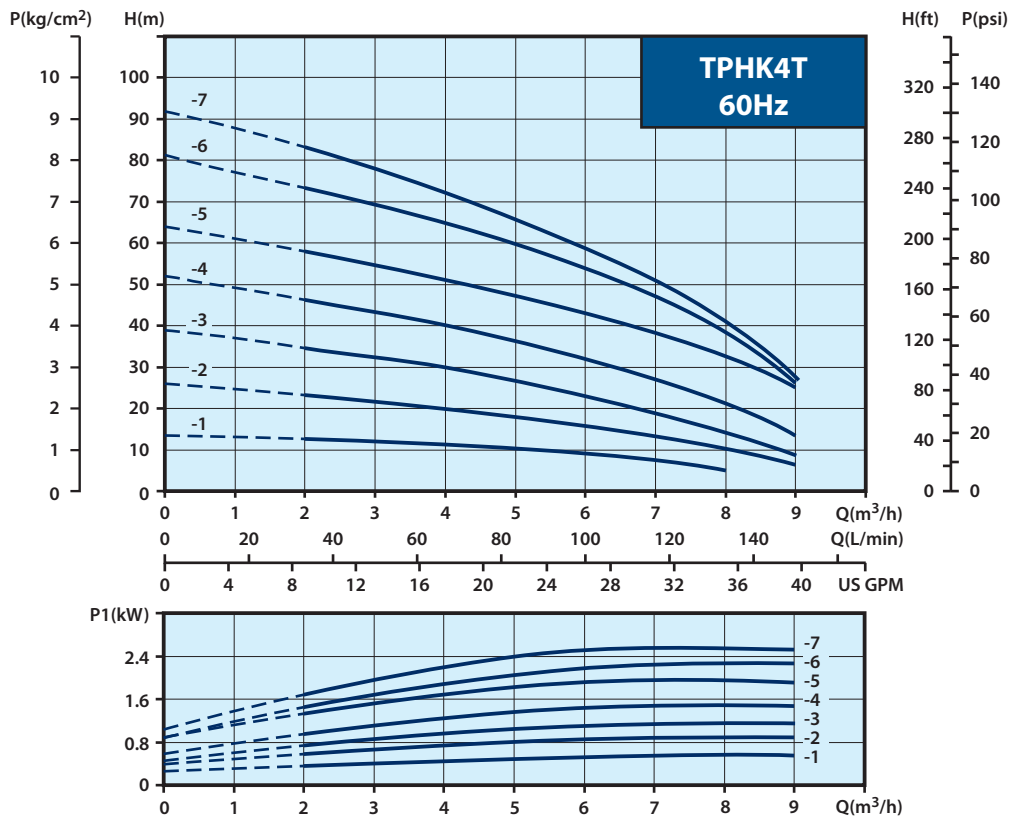


| Model | A (mm) 50Hz / 60Hz | B (mm) | L (mm) 50Hz / 60Hz | N.W.(kg) |  |
|---------------|-----------------------|--------|-----------------------|----------|---|
| TPHK 4T 2 - 1 | 205.5 | 144 | 349.5 | 10.8 | 30 |
| TPHK 4T 3 - 1 | 205.5 | 171 | 376.5 | 11.0 | 30 |
| TPHK 4T 2 - 2 | 205.5 | 144 |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

Performance curve (50Hz)



Performance curve (60Hz)



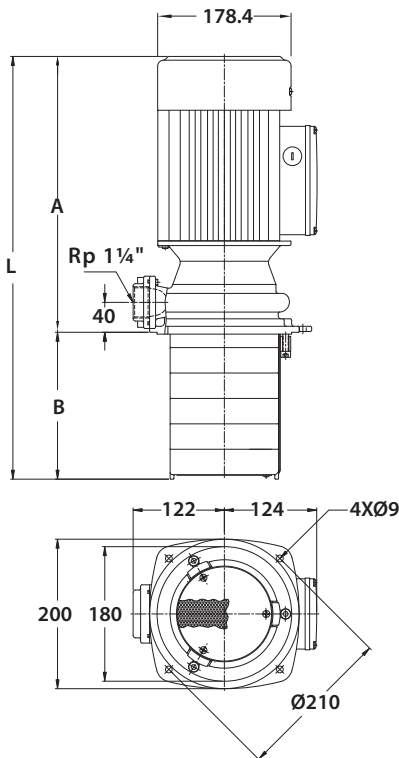
TPHK 8T


Electrical data

| Standard Model | Phase (Ø) | Voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|----------------|-----------|--------------|------------|-------------------|-----------------|---------------------|
| TPHK 8T 6 - 2 | 3 | A3Z | 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 | 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 |
| TPHK 8T 4 - 4 | 3 | A3U | 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 | A3U | 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 |

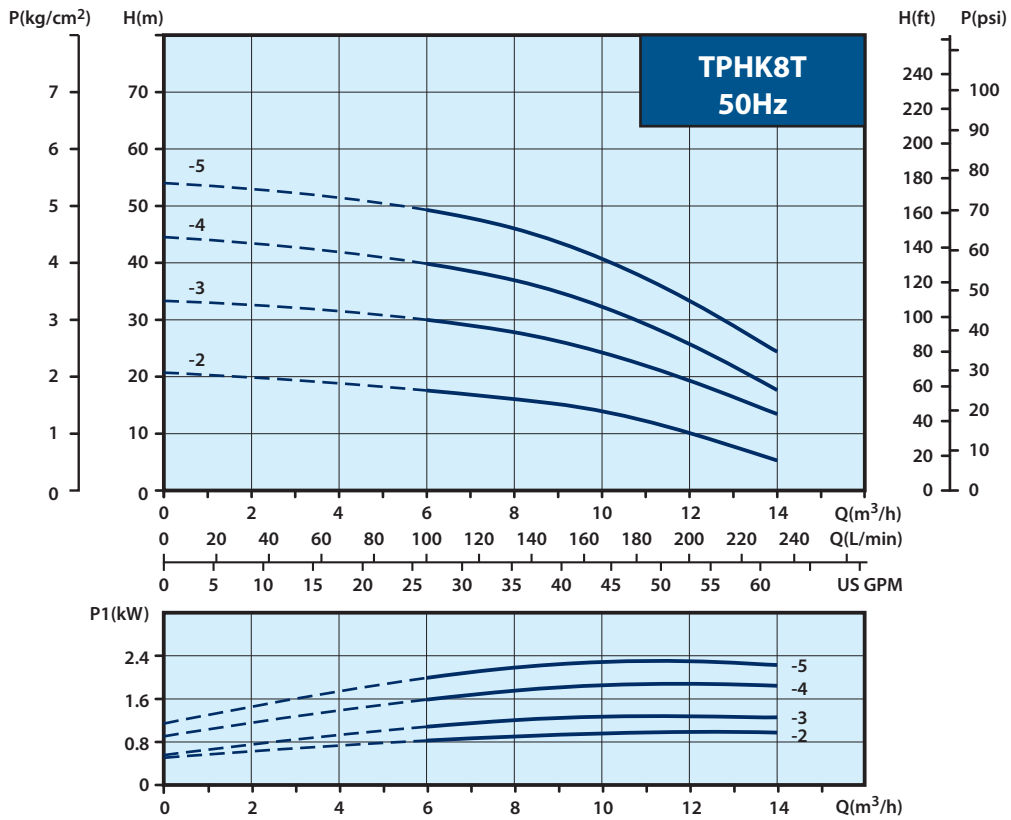
Maximum 9 Stages

Dimensions (mm)

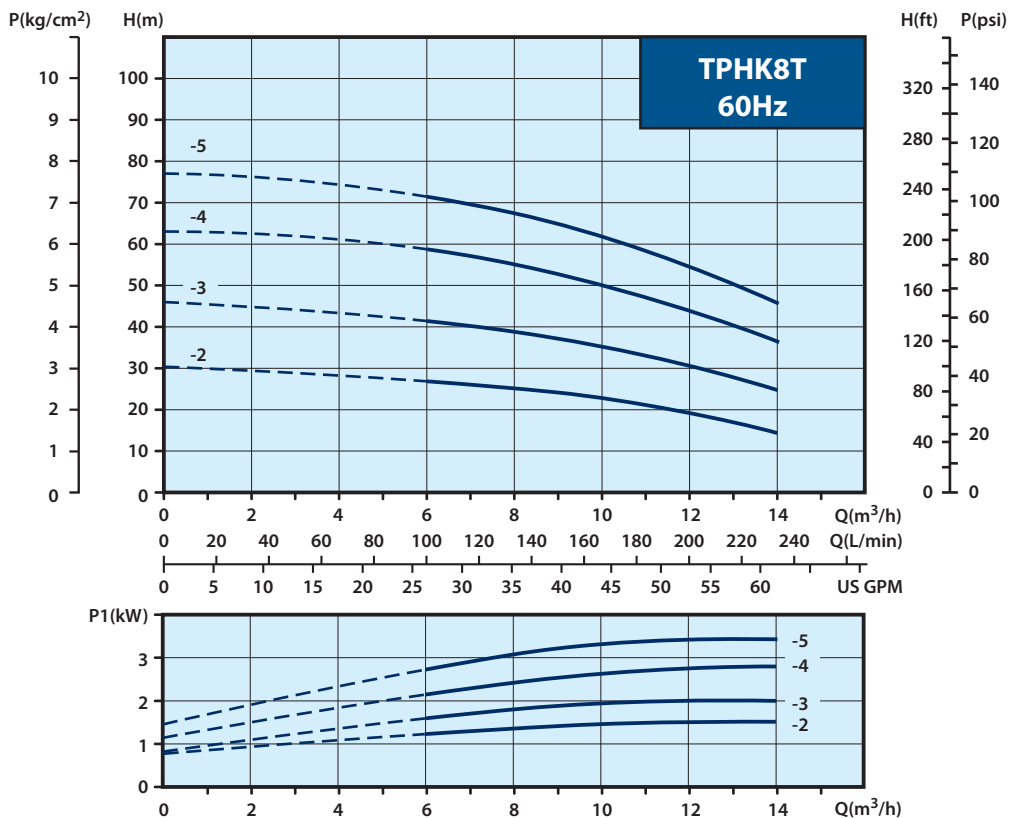


| Model | A (mm) | B (mm) | L (mm) | N.W.(kg) |  |
|---------------|--------|--------|--------|----------|---|
| TPHK 8T 6 - 2 | 369 | 196.5 | 565.5 | 24.0 | 15 |
| TPHK 8T 9 - 2 | 369 | 298.5 | 667.5 | 25.3 | 15 |
| TPHK 8T 3 - 3 | 369 | 94.5 | 463.5 | 23.0 | 15 |
| TPHK 8T 6 - 3 | 369 | 196.5 | 565.5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

Performance curve (50Hz)



Performance curve (60Hz)



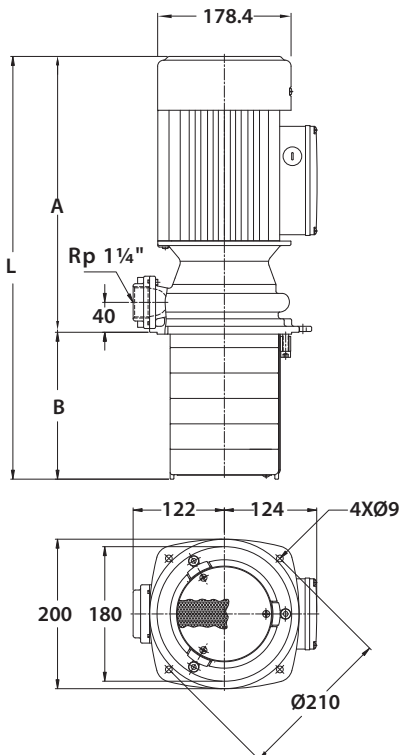
TPHK 12T


Electrical data

| Standard Model | Phase (Ø) | Voltage code | Cycle (Hz) | Volts (V) | Input Power (W) | Ampere (A) |
|----------------|-----------|--------------|------------|-------------------|-----------------|---------------------|
| 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 |
| TPHK 12T 6 - 2 | 3 | A3U | 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 | 53Q | 50 | 200-240 / 380-440 | 3830 | 11.6-11.5 / 6.5-7.2 |

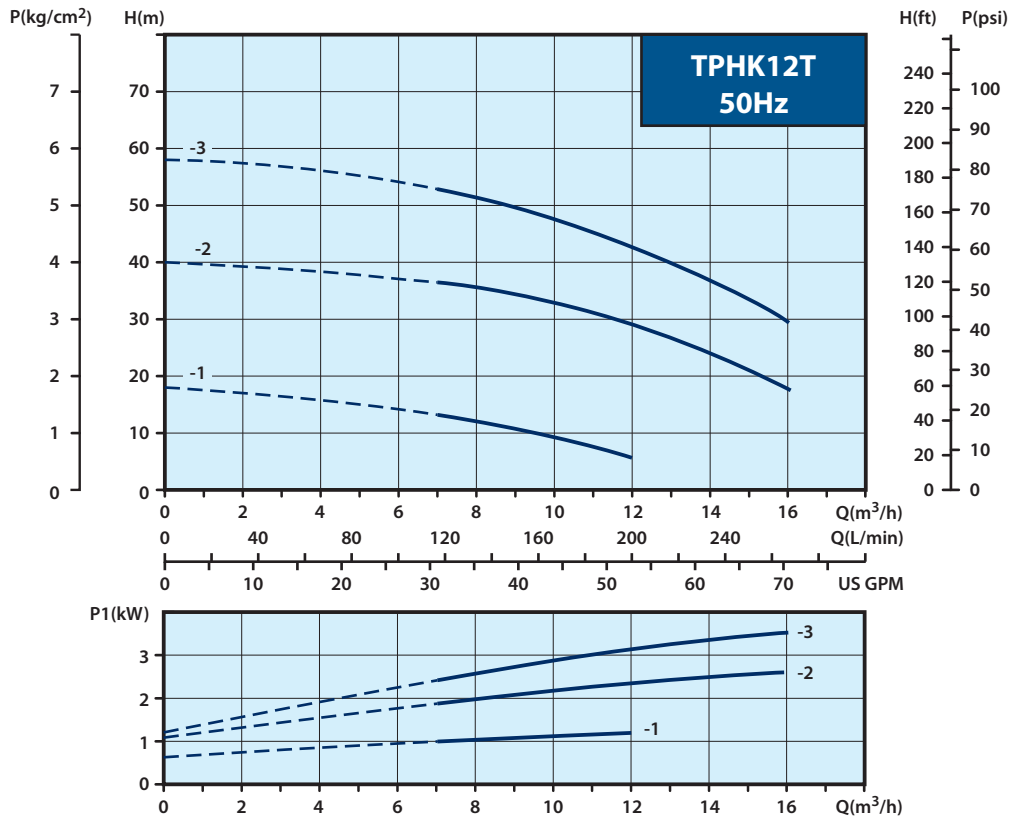
Maximum 9 Stages

Dimensions (mm)

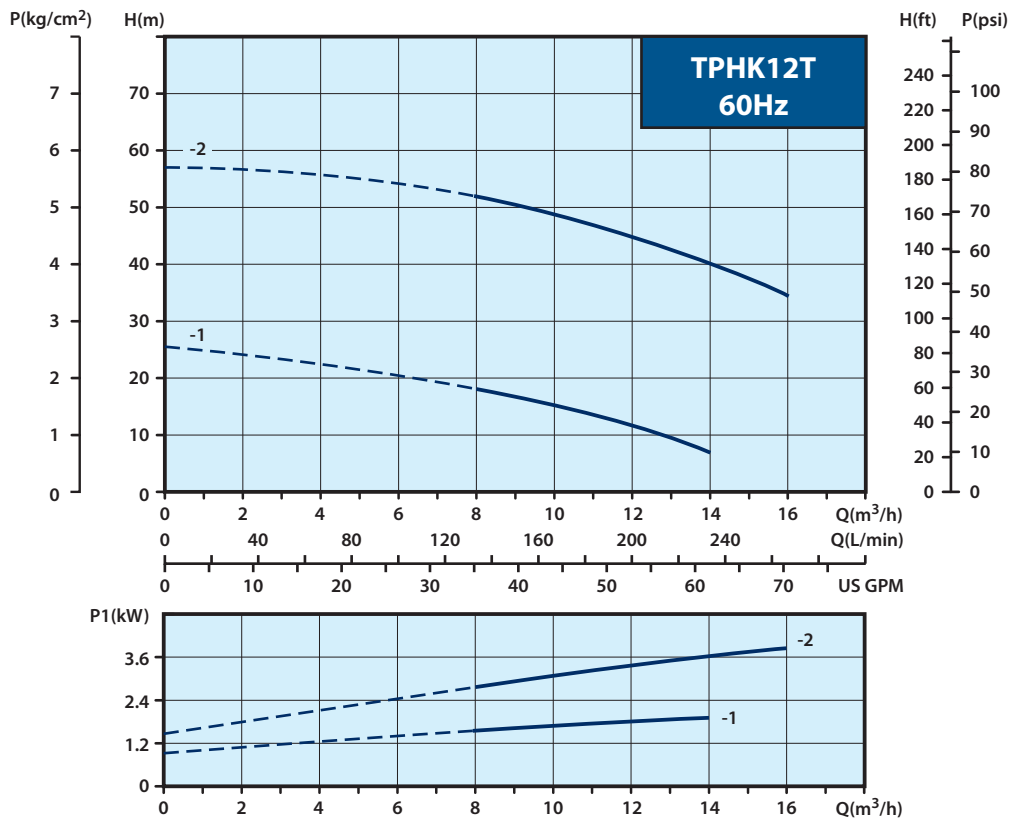


| Model | A (mm) | B (mm) | L (mm) | N.W.(kg) |  |
|---------------|--------|--------|--------|----------|---|
| TPHK12T 6 - 1 | 369 | 196.5 | 565.5 | 27.0 | 15 |
| TPHK12T 6 - 2 | 369 | 196.5 | 565.5 | 29.0 | 15 |
| TPHK12T 9 - 2 | 369 | 298.5 | 667.5 | 30.5 | 15 |
| TPHK12T 6 - 3 | 369 | 196.5 | 565.5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

Performance curve (50Hz)



Performance curve (60Hz)





Memo

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

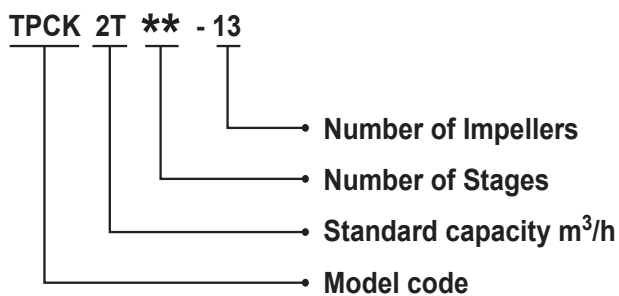
The TPCK Series is vertical multistage centrifugal pump, designed for industrial use, specially for machine tools, to carry fluids such as water, coolant, light oil and other clean, non aggressive matters.

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

Operating Conditions

1. Ambient temperature : Max. +40°C
2. Liquid temperature range : +0°C ~ +90°C
3. Operating pressure : Max. 30 kg/cm²
4. Submerged depth : Min. 40mm

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

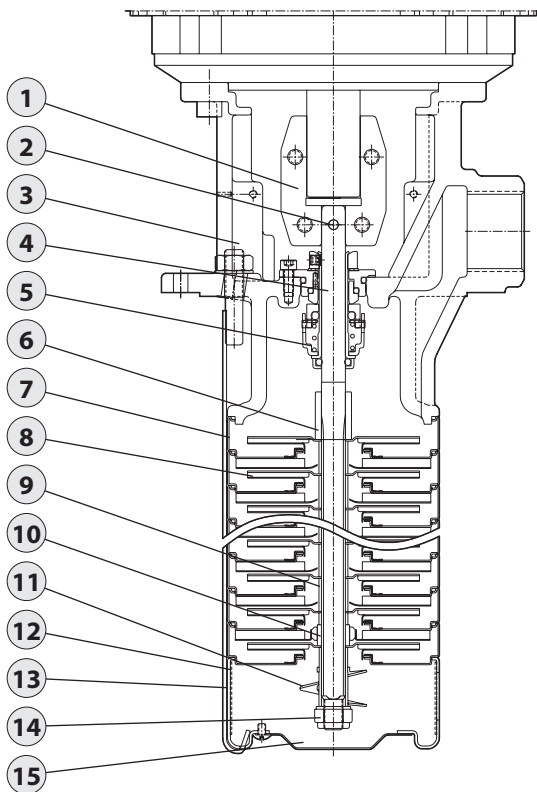
Standard voltages : 3Ø 198-242 / 342-418V

Enclosure class : IP54

Insulation class : F.

TPCK Series Immersible Pump

Sectional drawing



Materials

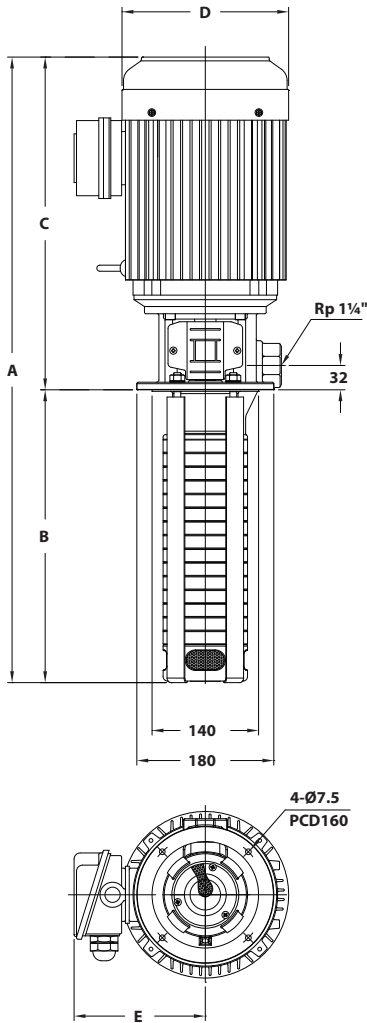
| No. | Part name | Material |
|-----|------------------------|------------------|
| 1 | Coupling | SUS 304 |
| 2 | Spring Pin | SUS 304 |
| 3 | Pump Casing | Cast iron FCD 45 |
| 4 | Shaft | SUS 304 |
| 5 | Mechanical Seal | RTTH |
| 6 | Sleeve | SUS 304 |
| 7 | Intermediate Chamber | SUS 304 |
| 8 | Impeller | SUS 304 |
| 9 | Sleeve (impeller) | SUS 304 |
| 10 | Bearing | SiC |
| 11 | Priming Screw | SUS 304 |
| 12 | Suction Interconnector | SUS 304 |
| 13 | Strap | SUS 304 |
| 14 | Lock Nut | SUS 316 |
| 15 | Filter | SUS 304 |


Options on request

- Special mechanical seal

| Mechanical seal type | Material | |
|----------------------|---------------------------------|------------------------|
| | Stationary Face/ Rotary Face | Cup Gasket & O Ring |
| RTTH | (T)Tungsten/ (T)Carbide | (H) HNBR |
| RGTH | (G)Carbon/ (T)Tungsten | |

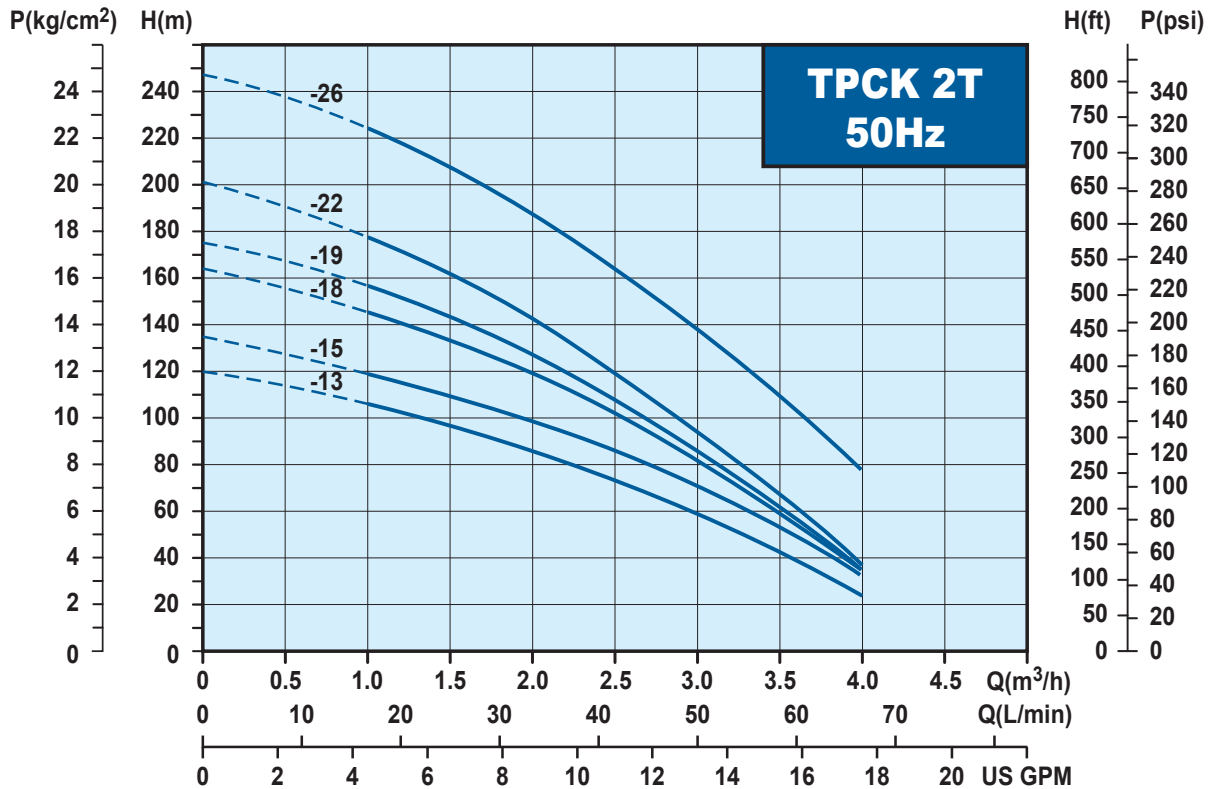
Dimensions (mm)



| 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

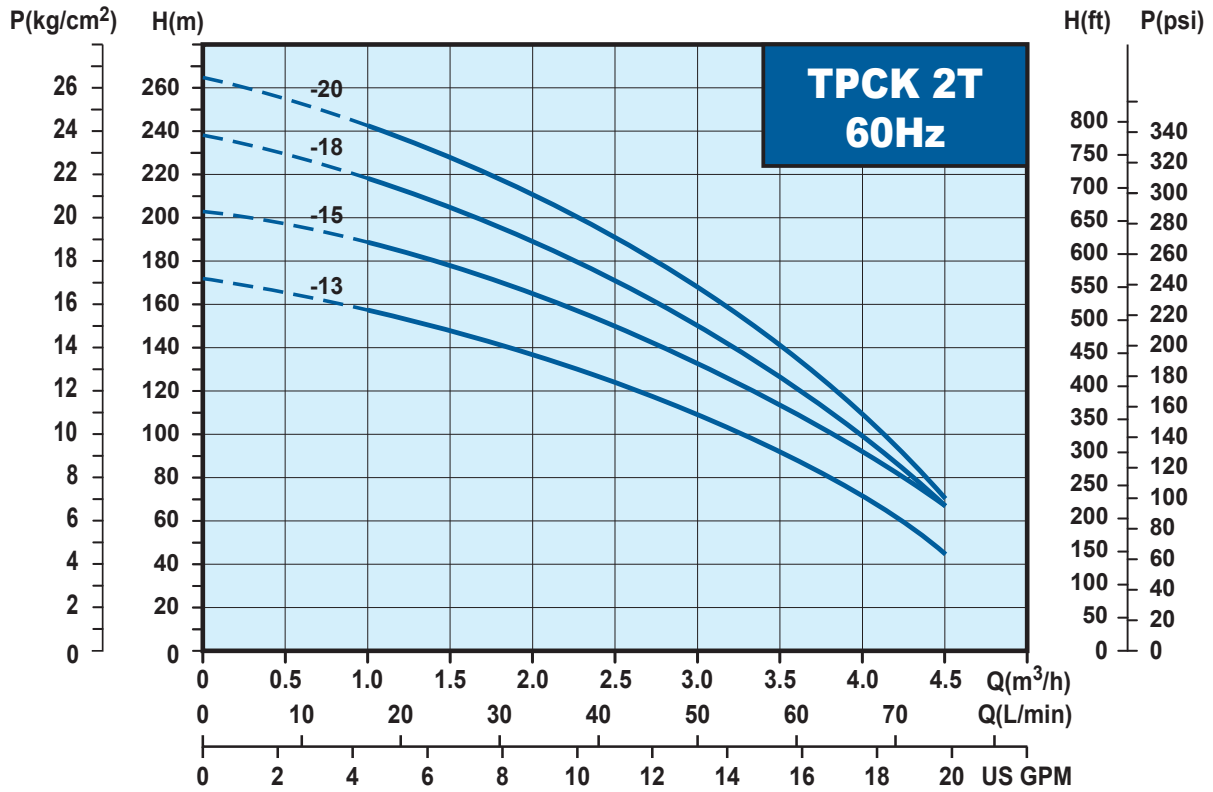
Performance curve, 50Hz



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

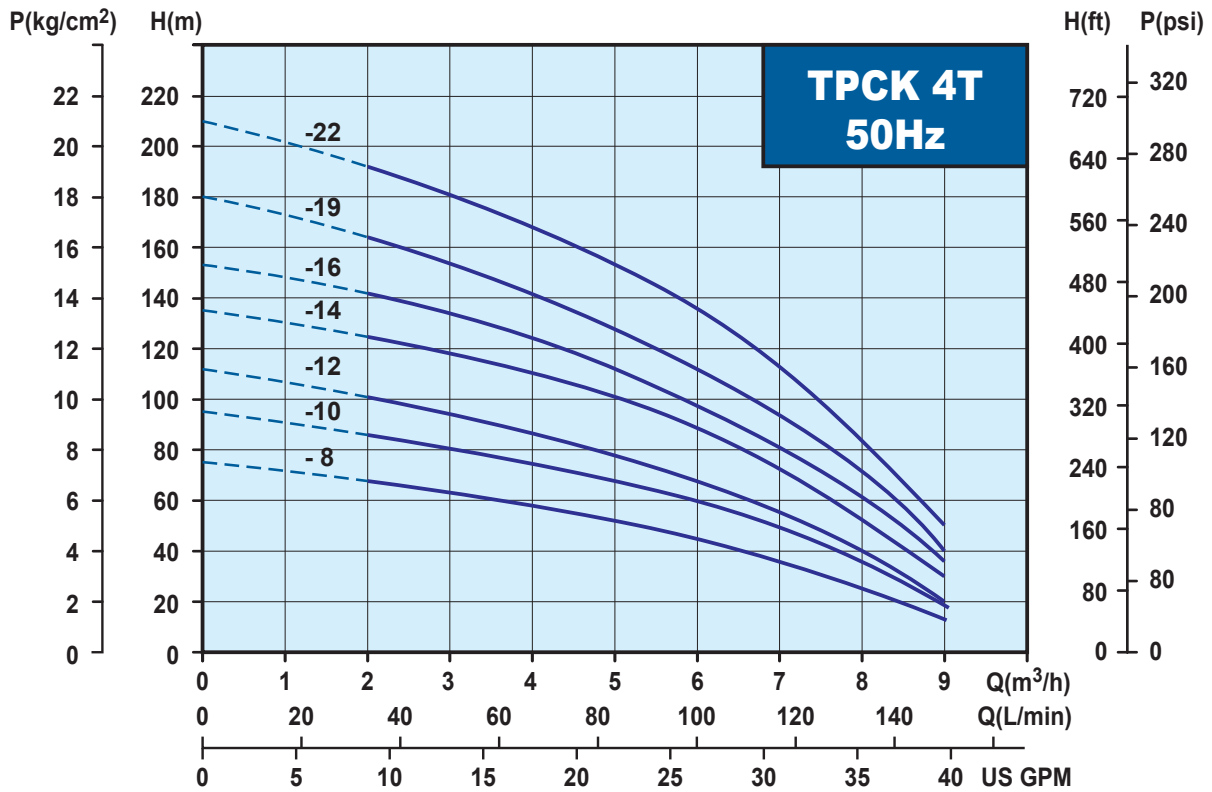


Electrical data, 60Hz

| 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

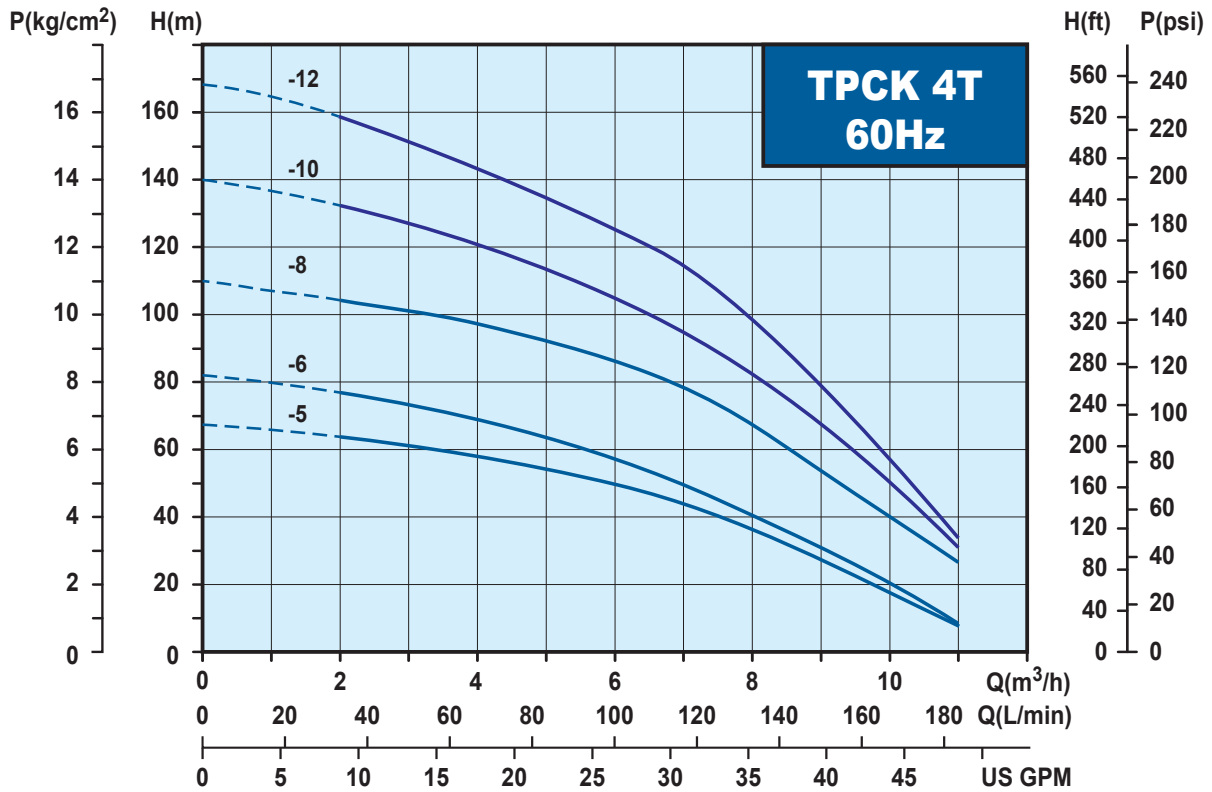
Performance curve, 50Hz



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 |



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WALRUS PUMP CO., LTD.





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WALRUS PUMP CO., LTD.

Head office: No.83-14, Dapiantou, Sanzhi Dist,
New Taipei City 252, Taiwan

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

Fax : (+886) 2 8635-2660

Email: walrus.sales@walrus.com.tw

Web: www.walruspump.com

