



**WALRUS**  
PUMP

# TPH Series

## Multistage Centrifugal Pump



**Better Life  
Through Innovation**

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# TPH Series Multistage Centrifugal Pump

## 50 Hz

Power: 0.42 - 11.6 kW  
Head: Up to 70 M  
Flow: Up to 1200 L/min  
Outlet: 1" - 3"  
Inlet: 1" - 3"

## 60 Hz

Power: 0.37 - 14.2 kW  
Head: Up to 80 M  
Flow: Up to 1400 L/min  
Outlet: 1" - 3"  
Inlet: 1" - 3"



Construction Industry



Agriculture & Fishing Industry



Manufacturing Industry



Electricity & New Energy Industry



Entertainment & Leisure Industry



Accommodation & Food Service Industry



Wholesale & Retail Industry



Water Supply & Pollution Control



Service Industry

## Product Features

- The TPH Series is horizontal multistage centrifugal pump, suitable for clean water/liquid without abrasive matters. 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.

## Applications

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

## Model Code

|                                                   |     |    |    |   |   |   |   |     |
|---------------------------------------------------|-----|----|----|---|---|---|---|-----|
|                                                   | TPH | 4T | 2K | S | F | A | H | C-H |
| Model type                                        |     |    |    |   |   |   |   |     |
| Nominal flow rate (m³/hr)                         |     |    |    |   |   |   |   |     |
| Nominal head (kg/cm²)                             |     |    |    |   |   |   |   |     |
| N: SUS 316 (2T/4T/25T)                            |     |    |    |   |   |   |   |     |
| S: SUS 304 (2T/4T/8T/12T)                         |     |    |    |   |   |   |   |     |
| Flange type (25T)                                 |     |    |    |   |   |   |   |     |
| 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

- Ambient Temperature: Max. +40°C
- Liquids Temperature: +0°C ~ +90°C
- System Pressure: Max. 10 kg/cm²
- Inlet Pressure: Max. 6 kg/cm²

## Motor

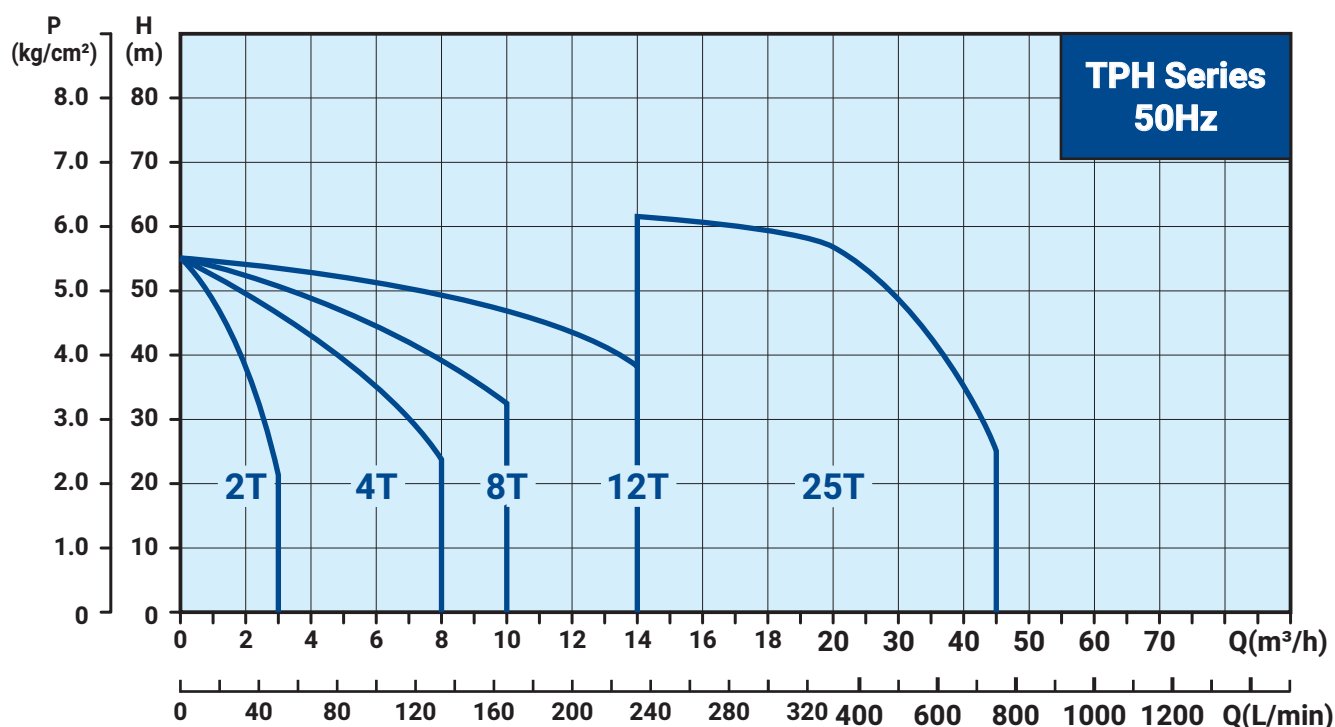
- Enclosure protection class: IP54
- Insulation class: F.
- Frequency range: 50/60 Hz
- Nominal speed: 2900/3500 rpm
- Voltages code:

| Code | PH | 50Hz             | 60Hz             |
|------|----|------------------|------------------|
| 61B  | 1  | -                | 220V             |
| 61E  | 1  | -                | 110/220V         |
| 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 |
| 63N  | 3  | -                | 200-255/380-480V |

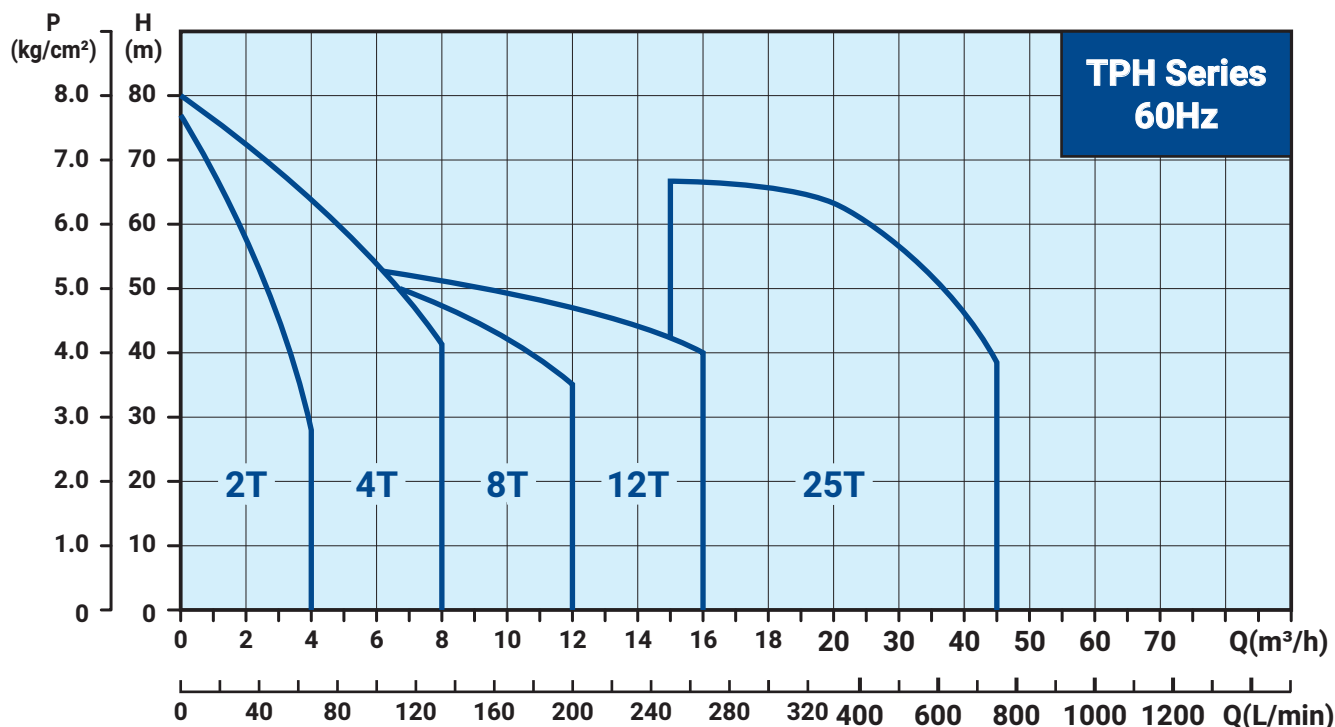
Optional: 50Hz, 60Hz models are available on request.

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

## Performance Curve, 50Hz

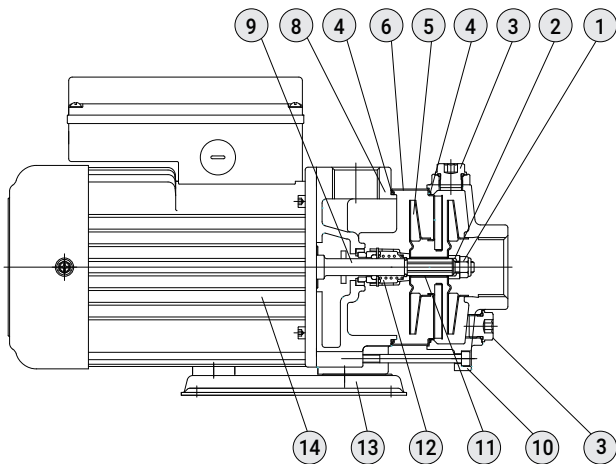


## Performance Curve, 60Hz

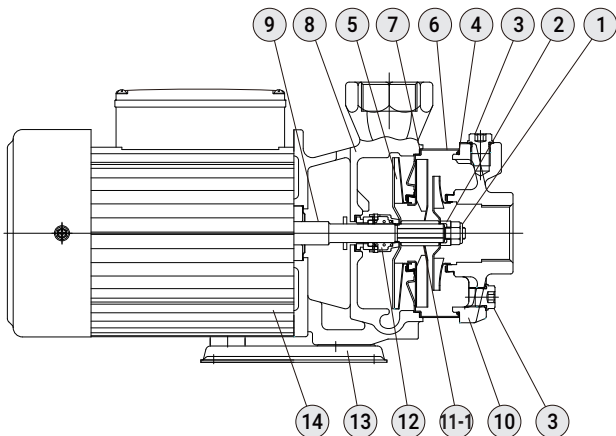


# Sectional Drawing

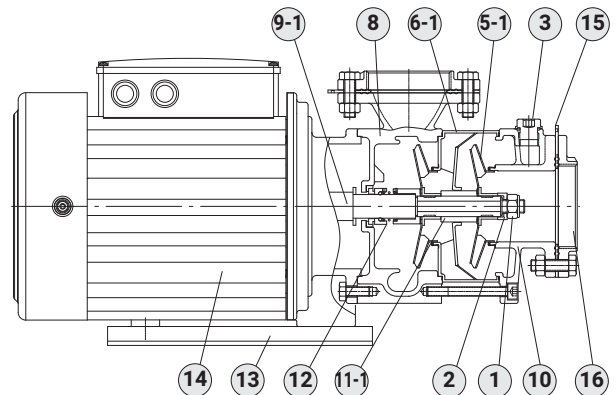
## TPH 2T/4T



## TPH 8T/12T



## TPH 25T



# 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           | SUS 304                                 | SUS 304  | SUS 316  |
| 4    | O Ring               | HNBR                                    | HNBR     | HNBR     |
| 5    | Impeller             | SUS 304                                 | SUS 304  | SUS 316  |
| 5-1  | Impeller             | SUS 316                                 | -        | SUS 316  |
| 6    | Intermediate Chamber | SUS 304                                 | SUS 304  | SUS 316  |
| 6-1  | Intermediate Chamber | SUS 316                                 | -        | SUS 316  |
| 7    | Gasket               | Teflon                                  | Teflon   | Teflon   |
| 8    | Pump Casing          | FC 20                                   | SUS 304  | SUS 316  |
| 9    | Shaft                | SUS 304                                 | SUS 304  | SUS 316  |
| 9-1  | Shaft                | SUS 316                                 | -        | SUS 316  |
| 10   | Suction Chamber      | FC 20                                   | SUS 304  | SUS 316  |
| 11   | Sleeve               | SUS 304                                 | SUS 304  | SUS 316  |
| 11-1 | Sleeve               | SUS 316                                 | SUS 316  | SUS 316  |
| 12   | Mechanical Seal      | MGSH (TPH2T/4T)<br>HGSH (TPH8T/12T/25T) |          |          |
| 13   | Mounted Base         | SPCC                                    |          |          |
| 14   | Motor Shell          | SteelAluminum alloy                     |          |          |
| 15   | Gasket               | EPDM                                    |          |          |
| 16   | Flange               | FC 20                                   | -        | SUS 316  |

SUS 304 may be replaced by SUS316, depending on stock availability.

# Options on Request

- Terminal box position adjustable
- Special mechanical seal

(TPH 2T/4T)

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

(TPH 8T/12T/25T)

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

## Electrical Data, 50Hz

| Model   | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V      | Input<br>kW | Output<br>kW | Ampere<br>A |
|---------|---------|-----------------|-------------|-----------------|-------------|--------------|-------------|
| TPH2T2K | 1       | 51R             | 50          | 200-240         | 0.45        | 0.31         | 2.4         |
|         | 3       | 53Q             |             | 200-240/380-440 | 0.42        | 0.29         | 2.0/1.3     |
| TPH2T3K | 1       | 51R             | 50          | 200-240         | 0.50        | 0.34         | 2.5         |
|         | 3       | 53Q             |             | 200-240/380-440 | 0.52        | 0.35         | 2.2/1.4     |
| TPH2T4K | 1       | 51R             | 50          | 200-240         | 0.60        | 0.41         | 2.9         |
|         | 3       | 53Q             |             | 200-240/380-440 | 0.59        | 0.40         | 2.3/1.4     |
| TPH2T5K | 1       | 51R             | 50          | 200-240         | 0.76        | 0.52         | 4.0         |
|         | 3       | 53Q             |             | 200-240/380-440 | 0.68        | 0.46         | 3.0/1.9     |
| TPH2T6K | 1       | 51R             | 50          | 200-240         | 0.88        | 0.60         | 4.3         |
|         | 3       | 53Q             |             | 200-240/380-440 | 0.86        | 0.59         | 3.1/2.0     |

## Electrical Data, 50/60Hz

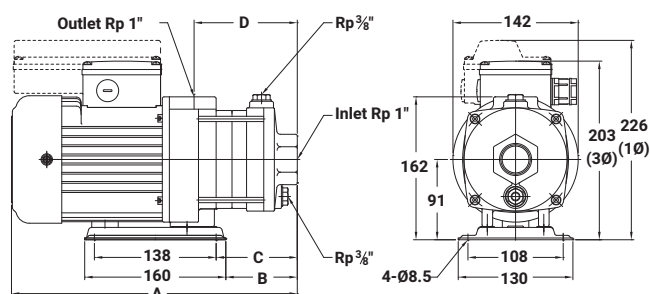
| Model   | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V      | Input<br>kW | Output<br>kW | Ampere<br>A     |
|---------|---------|-----------------|-------------|-----------------|-------------|--------------|-----------------|
| TPH2T1K | 3       | A3Z             | 50          | 200-255/380-440 | 0.34        | 0.23         | 1.6-2.8/1.0-1.5 |
|         |         |                 | 60          | 200-255/380-480 | 0.37        | 0.25         | 1.5-1.9/1.0-1.3 |
| TPH2T2K | 3       | A3Z             | 50          | 200-255/380-440 | 0.45        | 0.31         | 1.9-2.8/1.2-1.5 |
|         |         |                 | 60          | 200-255/380-480 | 0.56        | 0.38         | 2.1-2.2/1.5-1.5 |
| TPH2T3K | 3       | A3Z             | 50          | 200-255/380-440 | 0.53        | 0.36         | 2.0-2.8/1.3-1.6 |
|         |         |                 | 60          | 200-255/380-480 | 0.75        | 0.51         | 2.6-2.5/1.6-1.6 |
| TPH2T4K | 3       | A3Z             | 50          | 200-255/380-440 | 0.62        | 0.42         | 2.2-2.9/1.4-1.7 |
|         |         |                 | 60          | 200-255/380-480 | 0.91        | 0.62         | 3.0-2.9/1.7-1.7 |
| TPH2T5K | 3       | A3Z             | 50          | 200-255/380-440 | 0.70        | 0.48         | 2.4-3.0/1.4-1.6 |
|         |         |                 | 60          | 200-255/380-480 | 1.06        | 0.72         | 3.3-3.0/1.8-1.8 |
| TPH2T6K | 3       | A3Z             | 50          | 200-255/380-440 | 0.85        | 0.58         | 3.1-3.6/1.8-2.1 |
|         |         |                 | 60          | 200-255/380-480 | 1.29        | 0.88         | 4.0-3.6/2.4-2.4 |

## Electrical Data, 60Hz

| Model   | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V | Input<br>kW | Output<br>kW | Ampere<br>A |
|---------|---------|-----------------|-------------|------------|-------------|--------------|-------------|
| TPH2T1K | 1       | 61B             | 60          | 220        | 0.45        | 0.31         | 2.1         |
| TPH2T2K | 1       | 61B             | 60          | 220        | 0.76        | 0.52         | 4.3         |
| TPH2T3K | 1       | 61B             | 60          | 220        | 0.90        | 0.61         | 4.8         |
| TPH2T4K | 1       | 61B             | 60          | 220        | 1.03        | 0.70         | 5.3         |
| TPH2T5K | 1       | 61B             | 60          | 220        | 1.30        | 0.89         | 6.3         |
| TPH2T6K | 1       | 61B             | 60          | 220        | 1.50        | 1.02         | 7.0         |

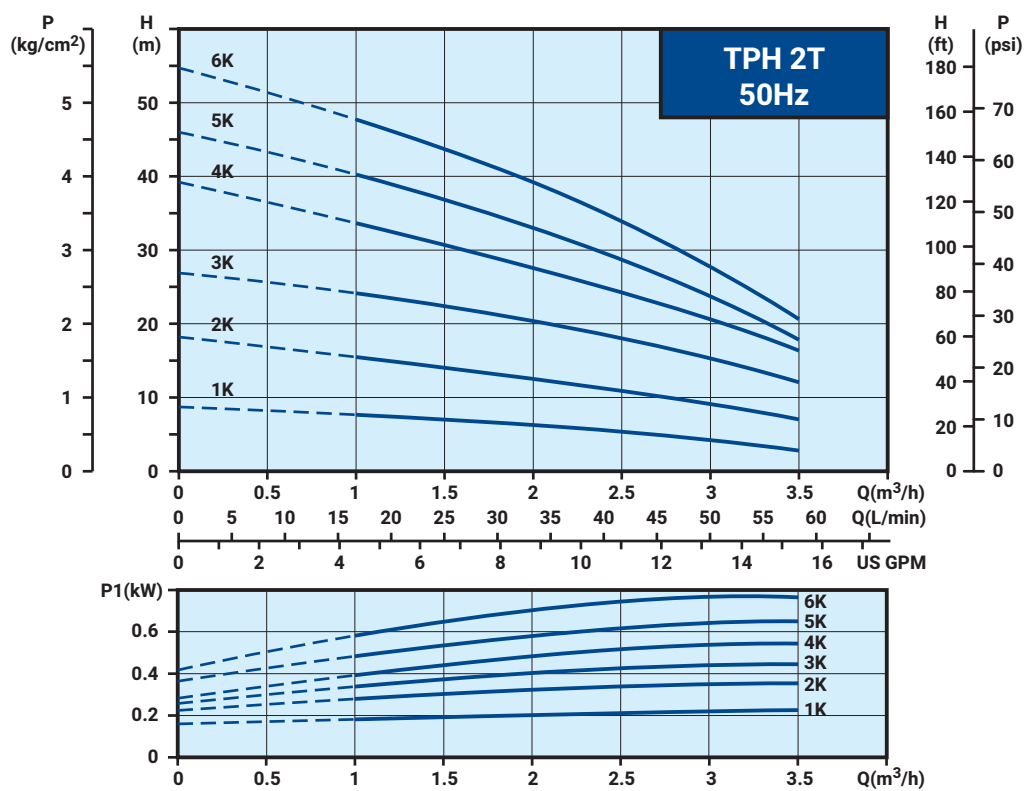
| Model   | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V | Input<br>kW | Output<br>kW | Ampere<br>A |
|---------|---------|-----------------|-------------|------------|-------------|--------------|-------------|
| TPH2T1K | 1       | 61E             | 60          | 110/220    | 0.45        | 0.31         | 4.8/2.4     |
| TPH2T2K | 1       | 61E             | 60          | 110/220    | 0.57        | 0.39         | 6.0/3.0     |
| TPH2T3K | 1       | 61E             | 60          | 110/220    | 0.78        | 0.53         | 7.8/3.9     |
| TPH2T4K | 1       | 61E             | 60          | 110/220    | 0.90        | 0.61         | 9.0/4.5     |
| TPH2T5K | 1       | 61E             | 60          | 110/220    | 1.08        | 0.74         | 12.0/6.0    |
| TPH2T6K | 1       | 61E             | 60          | 110/220    | 1.42        | 0.97         | 14.0/7.0    |

## Dimensions

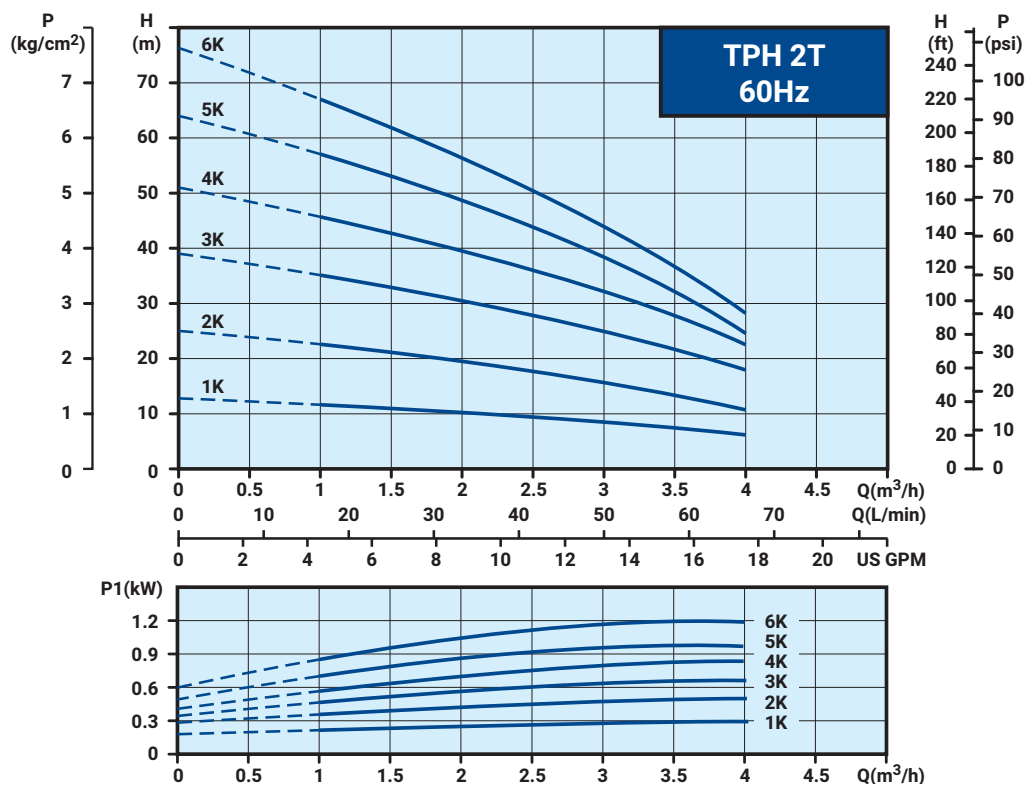


| Model   | A<br>mm | B<br>mm | C<br>mm | D<br>mm | N.W.<br>kg |  |
|---------|---------|---------|---------|---------|------------|---------------------------------------------------------------------------------------|
| TPH2T1K | 306     | 63      | 74      | 99      | 11.7       | 36                                                                                    |
| TPH2T2K | 306     | 63      | 74      | 99      | 11.8       | 36                                                                                    |
| TPH2T3K | 324     | 81      | 92      | 117     | 11.9       | 36                                                                                    |
| TPH2T4K | 342     | 99      | 110     | 135     | 12.0       | 36                                                                                    |
| TPH2T5K | 400     | 117     | 128     | 153     | 13.5       | 30                                                                                    |
| TPH2T6K | 418     | 135     | 146     | 171     | 13.6       | 30                                                                                    |

# Performance Curve, 50Hz



# Performance Curve, 60Hz



## Electrical Data, 50Hz

| Model   | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V      | Input<br>kW | Output<br>kW | Ampere<br>A |
|---------|---------|-----------------|-------------|-----------------|-------------|--------------|-------------|
| TPH4T2K | 1       | 51R             | 50          | 200-240         | 0.60        | 0.41         | 3.1-2.9     |
|         | 3       | 53Q             |             | 200-240/380-440 | 0.60        | 0.41         | 2.3/1.4     |
| TPH4T3K | 1       | 51R             | 50          | 200-240         | 0.95        | 0.65         | 4.5         |
|         | 3       | 53Q             |             | 200-240/380-440 | 0.83        | 0.57         | 3.3/2.1     |
| TPH4T4K | 1       | 51R             | 50          | 200-240         | 1.20        | 0.82         | 5.7         |
|         | 3       | 53Q             |             | 200-240/380-440 | 1.01        | 0.69         | 3.7/2.2     |
| TPH4T5K | 1       | 51R             | 50          | 200-240         | 1.37        | 0.93         | 6.9         |
|         | 3       | 53Q             |             | 200-240/380-440 | 1.30        | 0.89         | 4.1/2.4     |
| TPH4T6K | 1       | 51R             | 50          | 200-240         | 1.47        | 1.00         | 7.7         |
|         | 3       | 53Q             |             | 200-240/380-440 | 1.64        | 1.12         | 5.5/3.5     |

## Electrical Data, 50/60Hz

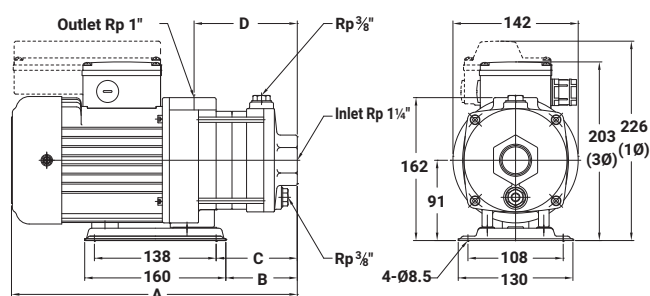
| Model   | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V      | Input<br>kW | Output<br>kW | Ampere<br>A     |
|---------|---------|-----------------|-------------|-----------------|-------------|--------------|-----------------|
| TPH4T2K | 3       | A3Z             | 50          | 200-255/380-440 | 0.65        | 0.44         | 2.2-2.9/1.4-1.7 |
|         |         |                 | 60          | 200-255/380-480 | 0.96        | 0.65         | 3.0-2.7/1.7-1.7 |
| TPH4T3K | 3       | A3Z             | 50          | 200-255/380-440 | 0.85        | 0.58         | 3.1-3.6/1.8-2.1 |
|         |         |                 | 60          | 200-255/380-480 | 1.29        | 0.88         | 4.0-3.6/2.4-2.4 |
| TPH4T4K | 3       | A3U             | 50          | 200-240/380-415 | 1.08        | 0.74         | 3.4-3.5/2.0-2.0 |
|         |         |                 | 60          | 200-240/380-440 | 1.62        | 1.10         | 4.5-5.0/2.9-2.9 |
| TPH4T5K | 3       | A3U             | 50          | 200-240/380-415 | 1.44        | 0.98         | 4.9-6.8/3.0-3.8 |
|         |         |                 | 60          | 200-240/380-440 | 2.10        | 1.43         | 6.2-6.0/3.5-3.5 |
| TPH4T6K | 3       | A3U             | 50          | 200-240/380-415 | 1.74        | 1.19         | 6.3-9.9/4.2-5.5 |
|         |         |                 | 60          | 200-240/380-440 | 2.40        | 1.64         | 7.7-7.6/4.5-4.5 |

## Electrical Data, 60Hz

| Model   | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V | Input<br>kW | Output<br>kW | Ampere<br>A |
|---------|---------|-----------------|-------------|------------|-------------|--------------|-------------|
| TPH4T2K | 1       | 61B             | 60          | 220        | 1.03        | 0.70         | 5.3         |
| TPH4T3K | 1       | 61B             | 60          | 220        | 1.50        | 1.02         | 7.0         |
| TPH4T4K | 1       | 61B             | 60          | 220        | 1.76        | 1.20         | 8.6         |
| TPH4T5K | 1       | 61B             | 60          | 220        | 2.10        | 1.43         | 10.0        |
| TPH4T6K | 1       | 61B             | 60          | 220        | 2.60        | 1.77         | 12.0        |

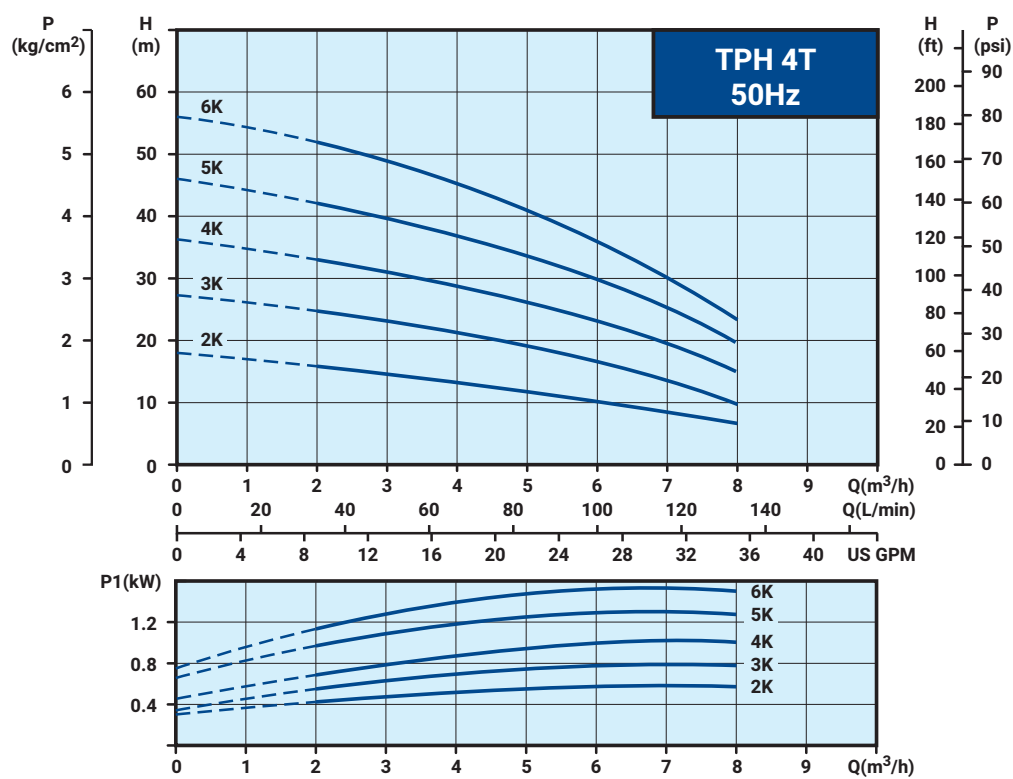
| Model   | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V | Input<br>kW | Output<br>kW | Ampere<br>A |
|---------|---------|-----------------|-------------|------------|-------------|--------------|-------------|
| TPH4T2K | 1       | 61E             | 60          | 110/220    | 1.03        | 0.70         | 10.4/5.2    |
| TPH4T3K | 1       | 61E             | 60          | 110/220    | 1.50        | 1.02         | 14.8/7.4    |
| TPH4T4K | 1       | 61E             | 60          | 110/220    | 1.76        | 1.20         | 17.2/8.6    |

## Dimensions

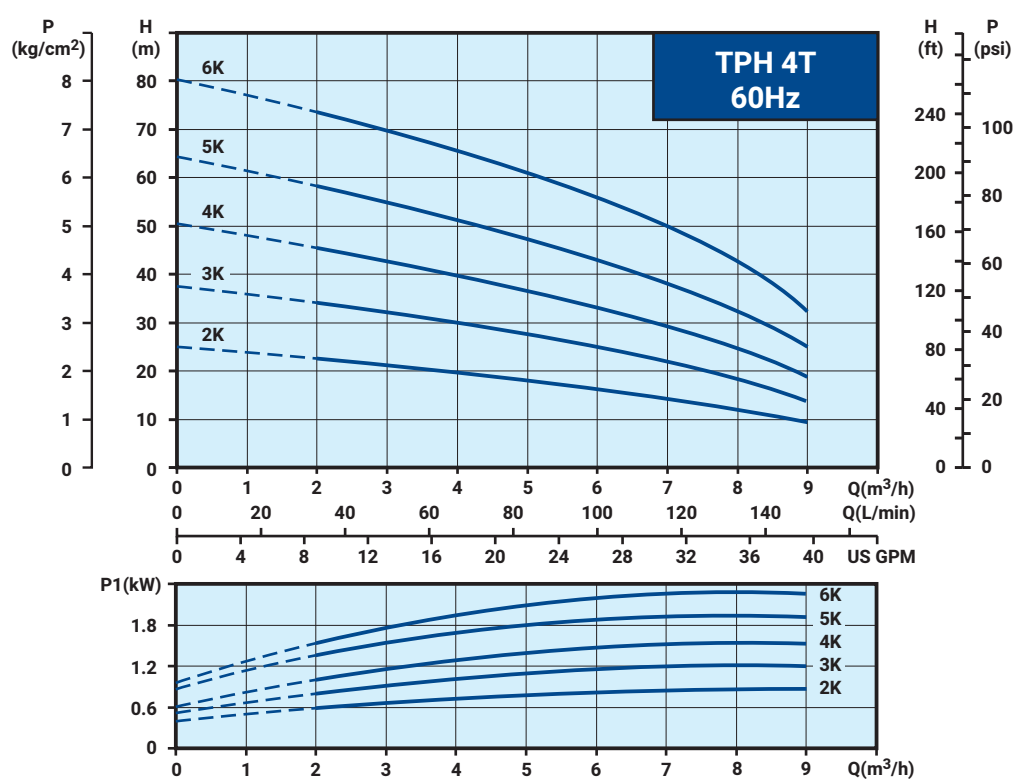


| Model   | Cycle<br>Hz | A<br>mm | B<br>mm | C<br>mm | D<br>mm | N.W.<br>kg |    |
|---------|-------------|---------|---------|---------|---------|------------|----|
| TPH4T2K | 50/60       | 315     | 72      | 83      | 108     | 11.7       | 36 |
| TPH4T3K | 50/60       | 382     | 99      | 110     | 135     | 13.3       | 30 |
| TPH4T4K | 50/60       | 409     | 126     | 137     | 162     | 14.1       | 30 |
| TPH4T5K | 50/60       | 436     | 153     | 164     | 189     | 14.2       | 30 |
| TPH4T6K | 50          | 463     | 180     | 191     | 216     | 15.1       | 24 |
|         | 60          | 494     | 180     | 191     | 216     | 16.1       | 24 |

# Performance Curve, 50Hz



# Performance Curve, 60Hz



## Electrical Data, 50Hz

| Model   | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V      | Input<br>kW | Output<br>kW | Ampere<br>A |
|---------|---------|-----------------|-------------|-----------------|-------------|--------------|-------------|
| TPH8T2K | 1       | 51R             | 50          | 200-240         | 0.90        | 0.61         | 4.3         |
|         | 3       | 53Q             |             | 200-240/380-440 | 0.81        | 0.55         | 3.0/1.9     |
| TPH8T3K | 1       | 51R             | 50          | 200-240         | 1.30        | 0.89         | 6.3         |
|         | 3       | 53Q             |             | 200-240/380-440 | 1.11        | 0.76         | 3.3/2.1     |
| TPH8T4K | 1       | 51R             | 50          | 200-240         | 1.52        | 1.04         | 7.6         |
|         | 3       | 53Q             |             | 200-240/380-440 | 1.60        | 1.09         | 5.6/3.5     |
| TPH8T5K | 3       | 53Q             | 50          | 200-240/380-440 | 2.00        | 1.36         | 6.0/3.6     |
| TPH8T6K | 3       | 53Q             | 50          | 200-240/380-440 | 2.23        | 1.52         | 6.7/3.9     |

## Electrical Data, 50/60Hz

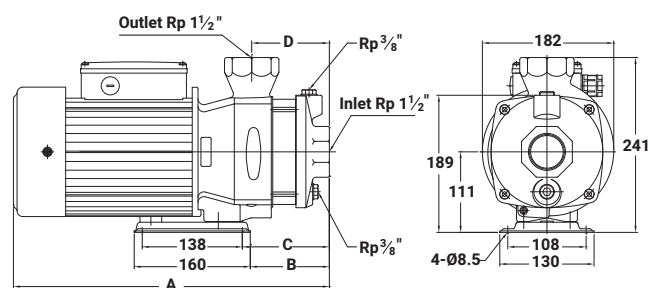
| Model     | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V      | Input<br>kW | Output<br>kW | Ampere<br>A      |
|-----------|---------|-----------------|-------------|-----------------|-------------|--------------|------------------|
| TPH8T2K   | 3       | A3Z             | 50          | 200-255/380-440 | 0.85        | 0.58         | 3.1-3.6/1.8-2.1  |
|           |         |                 | 60          | 200-255/380-480 | 1.29        | 0.88         | 4.0-3.6/2.4-2.4  |
| TPH8T2.5K | 3       | A3U             | 50          | 200-240/380-415 | 0.98        | 0.67         | 3.1-3.3/1.8-2.0  |
|           |         |                 | 60          | 200-240/380-440 | 1.46        | 1.00         | 4.4-4.1/2.4-2.4  |
| TPH8T3K   | 3       | A3U             | 50          | 200-240/380-415 | 1.40        | 0.95         | 4.9-6.8/3.0-3.8  |
|           |         |                 | 60          | 200-240/380-440 | 2.10        | 1.43         | 6.2-6.0/3.5-3.5  |
| TPH8T4K   | 3       | A3U             | 50          | 200-240/380-415 | 1.90        | 1.30         | 6.0-6.1/3.4-3.5  |
|           |         |                 | 60          | 200-240/380-440 | 3.10        | 2.11         | 9.8-8.3/5.2-4.6  |
| TPH8T5K   | 3       | A3U             | 50          | 200-240/380-415 | 2.00        | 1.36         | 6.2-6.3/3.5-3.6  |
|           |         |                 | 60          | 200-240/380-440 | 3.20        | 2.18         | 10.1-8.5/5.3-4.7 |

## Electrical Data, 60Hz

| Model     | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V | Input<br>kW | Output<br>kW | Ampere<br>A |
|-----------|---------|-----------------|-------------|------------|-------------|--------------|-------------|
| TPH8T2K   | 1       | 61B             | 60          | 220        | 1.50        | 1.02         | 7.0         |
| TPH8T2.5K | 1       | 61B             | 60          | 220        | 1.72        | 1.17         | 8.7         |
| TPH8T3K   | 1       | 61B             | 60          | 220        | 1.97        | 1.34         | 10.0        |

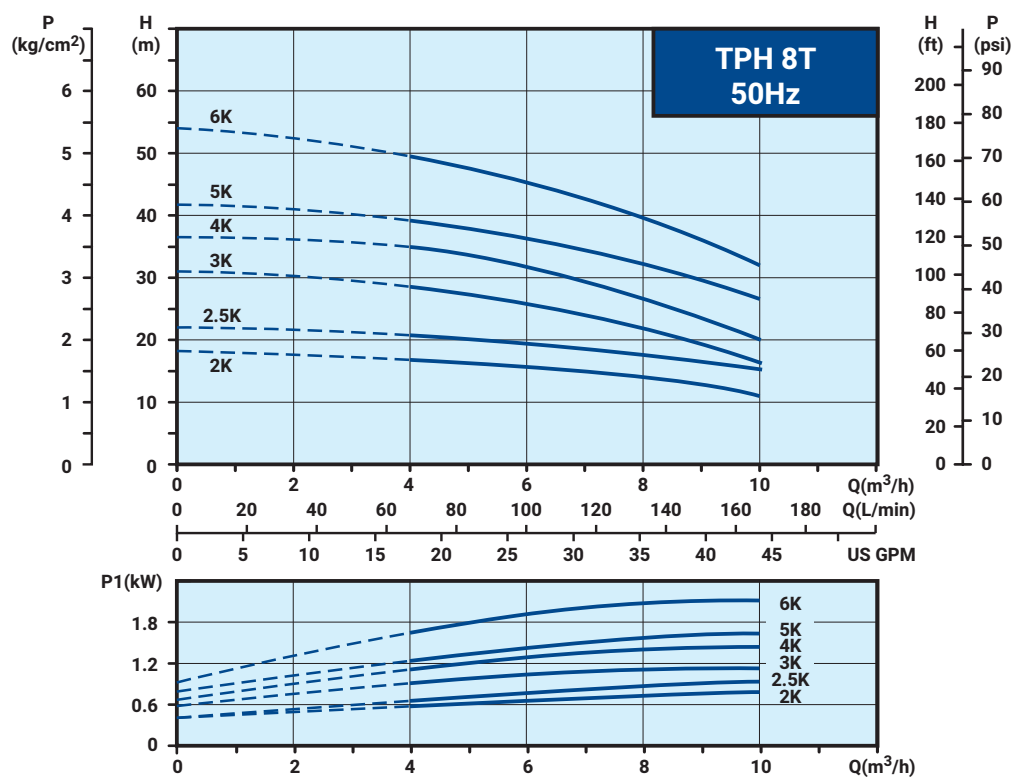
| Model     | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V | Input<br>kW | Output<br>kW | Ampere<br>A |
|-----------|---------|-----------------|-------------|------------|-------------|--------------|-------------|
| TPH8T2K   | 1       | 61E             | 60          | 110/220    | 1.33        | 0.91         | 14.0/7.0    |
| TPH8T2.5K | 1       | 61E             | 60          | 110/220    | 1.60        | 1.09         | 15.0/7.5    |
| TPH8T3K   | 1       | 61E             | 60          | 110/220    | 2.00        | 1.36         | 19.4/9.7    |

## Dimensions

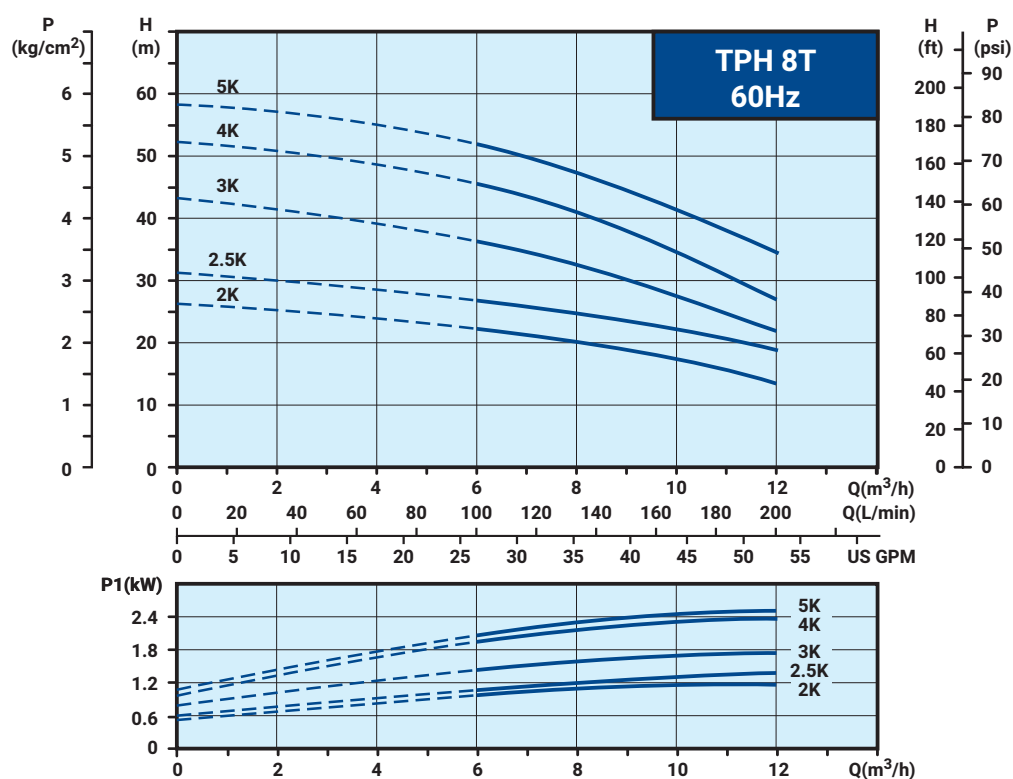


| Model     | Cycle<br>Hz | A<br>mm | B<br>mm | C<br>mm | D<br>mm | N.W.<br>kg |  |
|-----------|-------------|---------|---------|---------|---------|------------|---------------------------------------------------------------------------------------|
| TPH8T2K   | 50/60       | 376.5   | 77      | 88      | 75      | 18.8       | 24                                                                                    |
| TPH8T2.5K | 60          | 408.5   | 109     | 120     | 107     | 19.5       | 24                                                                                    |
| TPH8T3K   | 50/60       | 408.5   | 109     | 120     | 107     | 20.0       | 24                                                                                    |
| TPH8T4K   | 50          | 408.5   | 109     | 120     | 107     | 22.2       | 24                                                                                    |
|           | 60          | 435.5   | 109     | 120     | 107     | 25.4       | 24                                                                                    |
| TPH8T4K   | 50/60       | 469.5   | 143     | 154     | 141     | 25.5       | 24                                                                                    |
| TPH8T5K   | 50          | 469.5   | 143     | 154     | 141     | 25.5       | 24                                                                                    |

# Performance Curve, 50Hz



# Performance Curve, 60Hz



## Electrical Data, 50Hz

| Model    | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V      | Input<br>kW | Output<br>kW | Ampere<br>A |
|----------|---------|-----------------|-------------|-----------------|-------------|--------------|-------------|
| TPH12T2K | 1       | 51R             | 50          | 200-240         | 1.38        | 0.94         | 6.5         |
|          | 3       | 53Q             |             | 200-240/380-440 | 1.14        | 0.78         | 3.6/2.1     |
| TPH12T3K | 1       | 51R             | 50          | 200-240         | 1.70        | 1.16         | 7.9         |
|          | 3       | 53Q             |             | 200-240/380-440 | 1.58        | 1.08         | 5.8/3.6     |
| TPH12T4K | 3       | 53Q             | 50          | 200-240/380-440 | 2.80        | 1.91         | 7.8/4.6     |
| TPH12T5K | 3       | 53Q             | 50          | 200-240/380-440 | 3.05        | 2.08         | 10.8/6.8    |
| TPH12T6K | 3       | 53Q             | 50          | 200-240/380-440 | 3.70        | 2.52         | 11.3/7.0    |

## Electrical Data, 50/60Hz

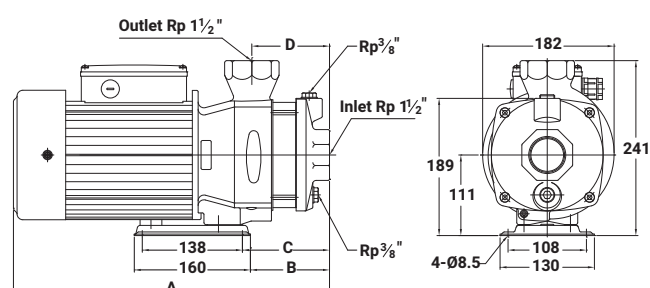
| Model    | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V      | Input<br>kW | Output<br>kW | Ampere<br>A       |
|----------|---------|-----------------|-------------|-----------------|-------------|--------------|-------------------|
| TPH12T1K | 3       | A3Z             | 50          | 200-255/380-440 | 0.60        | 0.41         | 2.2-2.9/1.4-1.7   |
|          |         |                 | 60          | 200-255/380-480 | 0.86        | 0.59         | 2.6-2.6/1.7-1.7   |
| TPH12T2K | 3       | A3U             | 50          | 200-240/380-415 | 1.50        | 1.02         | 4.9-6.8/3.0-3.8   |
|          |         |                 | 60          | 200-240/380-440 | 2.20        | 1.50         | 6.2-6.0/3.5-3.5   |
| TPH12T3K | 3       | A3U             | 50          | 200-240/380-415 | 2.00        | 1.36         | 6.2-8.8/3.9-5.0   |
|          |         |                 | 60          | 200-240/380-440 | 2.90        | 1.98         | 8.8-8.0/4.9-4.9   |
| TPH12T4K | 3       | A3U             | 50          | 200-240/380-415 | 2.90        | 1.98         | 9.0-13.1/5.8-7.9  |
|          |         |                 | 60          | 200-240/380-440 | 4.10        | 2.80         | 12.4-11.2/6.7-6.7 |

## Electrical Data, 60Hz

| Model    | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V | Input<br>kW | Output<br>kW | Ampere<br>A |
|----------|---------|-----------------|-------------|------------|-------------|--------------|-------------|
| TPH12T1K | 1       | 61B             | 60          | 220        | 1.03        | 0.70         | 5.3         |
| TPH12T2K | 1       | 61B             | 60          | 220        | 2.20        | 1.50         | 11.2        |

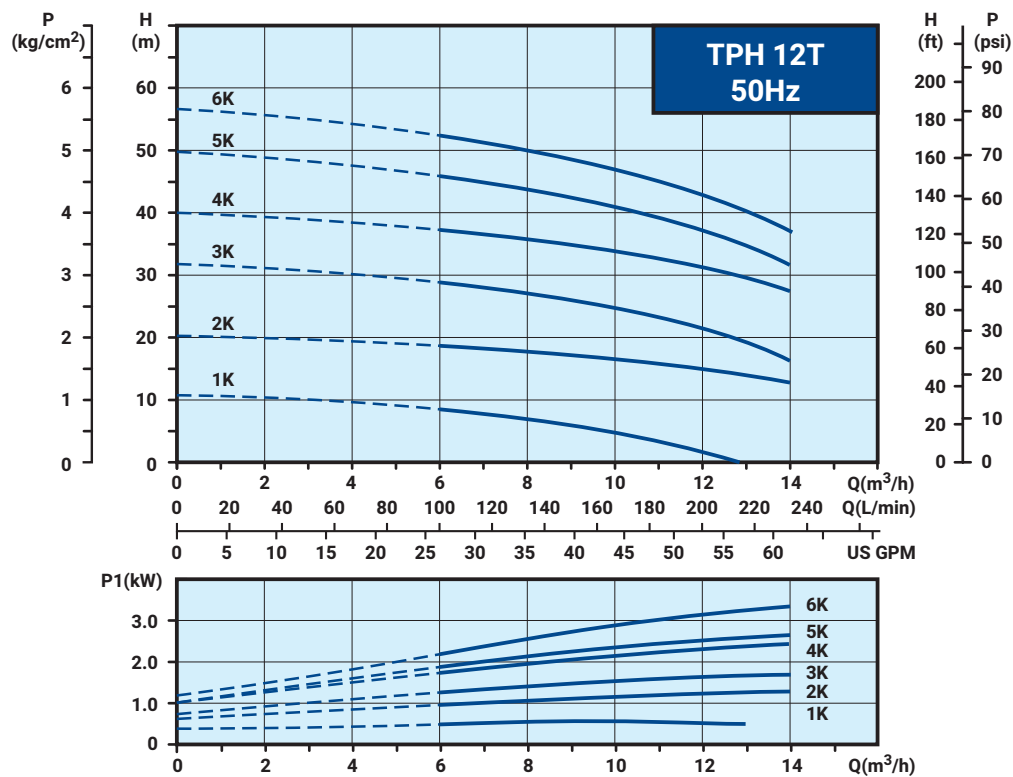
| Model    | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V | Input<br>kW | Output<br>kW | Ampere<br>A |
|----------|---------|-----------------|-------------|------------|-------------|--------------|-------------|
| TPH12T1K | 1       | 61E             | 60          | 110/220    | 0.95        | 0.65         | 9.0/4.5     |

## Dimensions

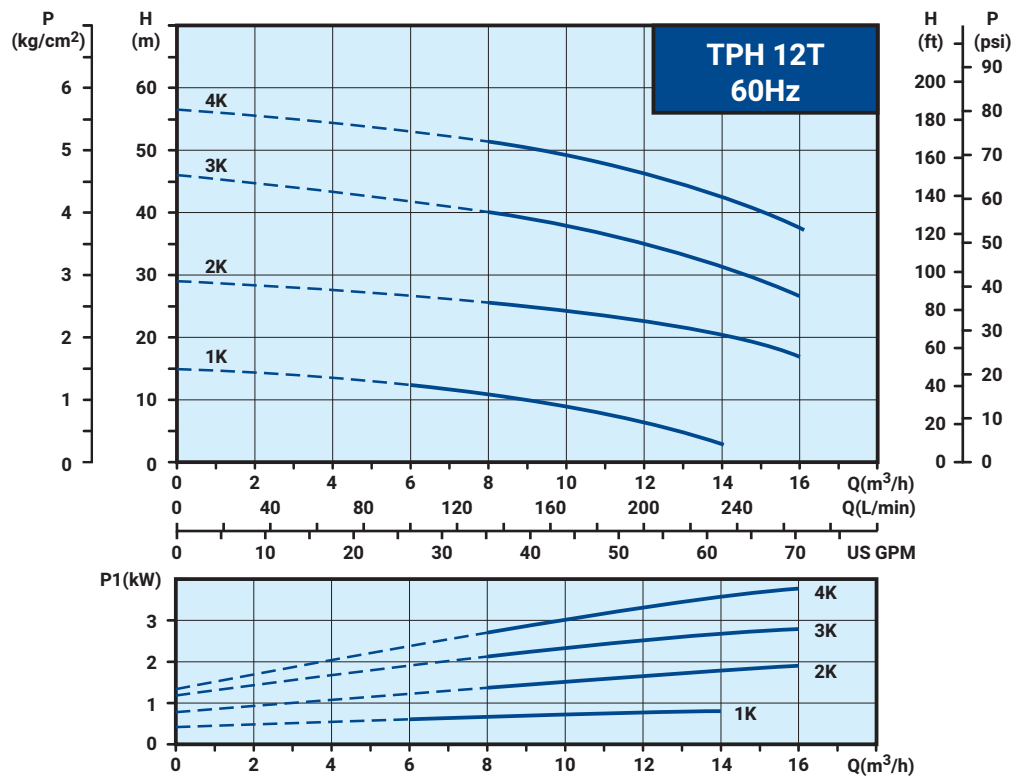


| Model    | Cycle<br>Hz | A<br>mm | B<br>mm | C<br>mm | D<br>mm | N.W.<br>kg |    |
|----------|-------------|---------|---------|---------|---------|------------|----|
| TPH12T1K | 50/60       | 336.5   | 77      | 88      | 75      | 17.6       | 24 |
| TPH12T2K | 50/60       | 376.5   | 77      | 88      | 75      | 20.0       | 24 |
| TPH12T3K | 50          | 408.5   | 109     | 120     | 107     | 22.0       | 24 |
|          | 60          | 435.5   | 109     | 120     | 107     | 25.4       | 24 |
| TPH12T4K | 50/60       | 435.5   | 109     | 120     | 107     | 28.0       | 24 |
| TPH12T5K | 50          | 469.5   | 143     | 154     | 141     | 29.2       | 24 |
| TPH12T6K | 50          | 469.5   | 143     | 154     | 141     | 29.2       | 24 |

# Performance Curve, 50Hz



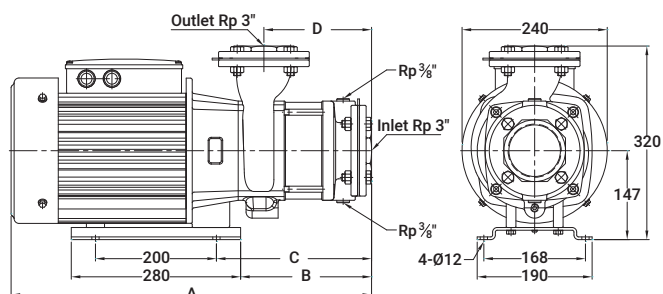
# Performance Curve, 60Hz



## Electrical Data, 50Hz

| Model     | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V      | Input<br>kW | Output<br>kW | Ampere<br>A |
|-----------|---------|-----------------|-------------|-----------------|-------------|--------------|-------------|
| TPH25T2KF | 3       | 53Q             | 50          | 200-240/380-440 | 4.00        | 2.73         | 12.0/6.5    |
| TPH25T3KF | 3       | 53Q             | 50          | 200-240/380-440 | 4.80        | 3.27         | 15.6/10.0   |
| TPH25T4KF | 3       | 53Q             | 50          | 200-240/380-440 | 5.70        | 3.89         | 18.0/11.3   |
| TPH25T5KF | 3       | 53Q             | 50          | 200-240/380-440 | 7.80        | 5.32         | 24.1/13.9   |

## Dimensions, 50Hz

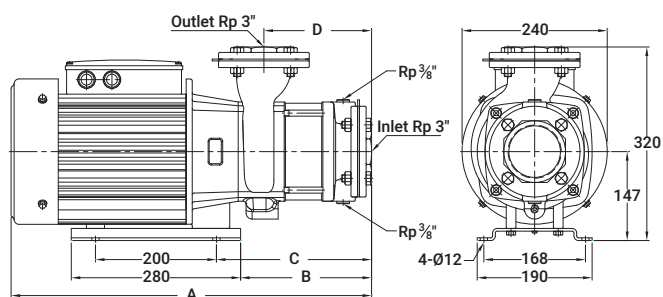


| Model     | A<br>mm | B<br>mm | C<br>mm | D<br>mm | N.W.<br>kg |
|-----------|---------|---------|---------|---------|------------|
| TPH25T2KF | 596     | 216.5   | 256.5   | 178     | 53.0       |
| TPH25T3KF | 656     | 276.5   | 316.5   | 238     | 58.8       |
| TPH25T4KF | 656     | 276.5   | 316.5   | 238     | 59.0       |
| TPH25T5KF | 766     | 336.5   | 376.5   | 298     | 71.0       |

## Electrical Data, 60Hz

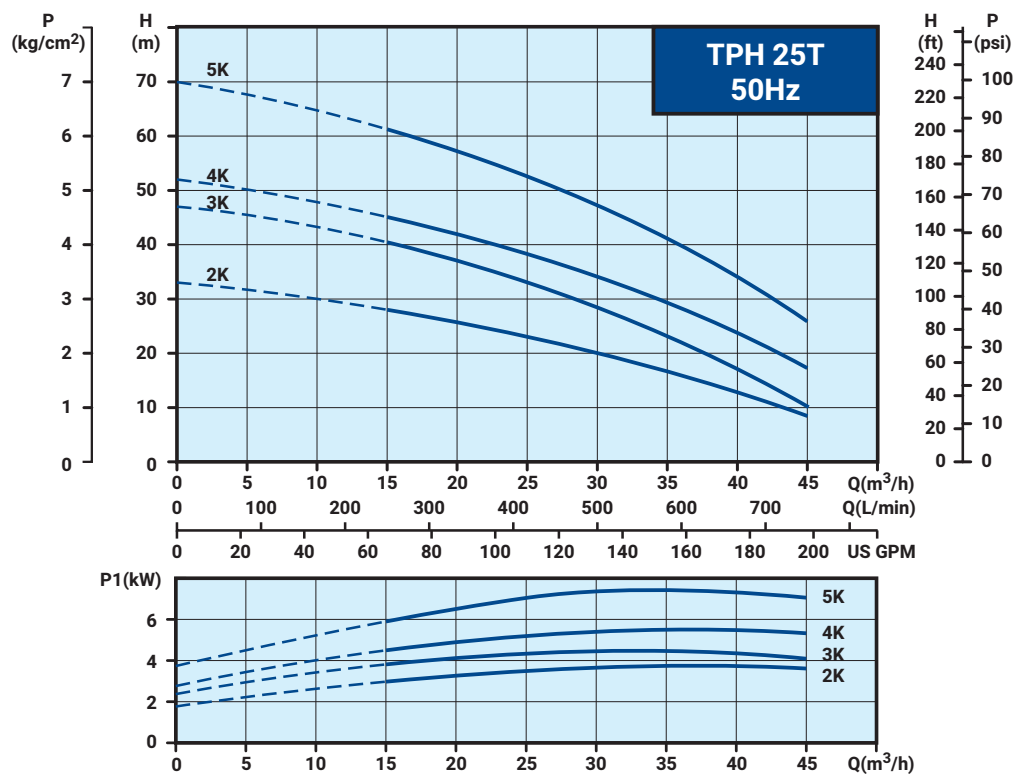
| Model     | PH<br>Ø | Voltage<br>code | Cycle<br>Hz | Volts<br>V      | Input<br>kW | Output<br>kW | Ampere<br>A         |
|-----------|---------|-----------------|-------------|-----------------|-------------|--------------|---------------------|
| TPH25T2KF | 3       | 63N             | 60          | 200-255/380-480 | 4.00        | 2.73         | 12.9-10.5/7.3-5.8   |
| TPH25T3KF | 3       | 63N             | 60          | 200-255/380-480 | 5.10        | 3.48         | 15.6-13.1/8.7-8.2   |
| TPH25T4KF | 3       | 63N             | 60          | 200-255/380-480 | 7.20        | 4.91         | 21.2-20.5/12.3-12.5 |
| TPH25T5KF | 3       | 63N             | 60          | 200-255/380-480 | 8.00        | 5.45         | 25.6-22.4/13.7-13.2 |
| TPH25T6KF | 3       | 63N             | 60          | 200-255/380-480 | 10.20       | 6.95         | 31.2-27.5/17.5-15.8 |

## Dimensions, 60Hz

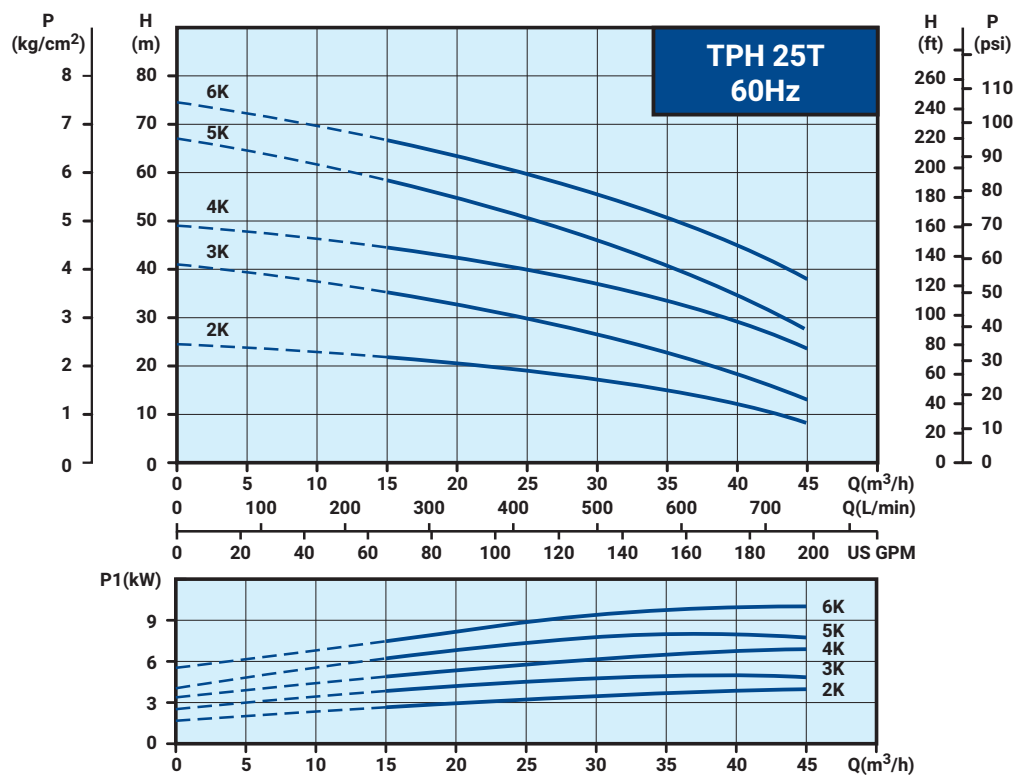


| Model     | A<br>mm | B<br>mm | C<br>mm | D<br>mm | N.W.<br>kg |
|-----------|---------|---------|---------|---------|------------|
| TPH25T2KF | 536     | 156.5   | 196.5   | 118     | 51.0       |
| TPH25T3KF | 596     | 216.5   | 256.5   | 178     | 56.8       |
| TPH25T4KF | 596     | 216.5   | 256.5   | 178     | 57.0       |
| TPH25T5KF | 706     | 276.5   | 316.5   | 238     | 68.8       |
| TPH25T6KF | 706     | 276.5   | 316.5   | 238     | 69.0       |

# Performance Curve, 50Hz



# Performance Curve, 60Hz





**WALRUS**  
PUMP

## WALRUS PUMP CO., LTD.

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

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

Fax: (+886) 2 8635-2660

Email : walrus.sales@walrus.com.tw



All specifications are subject to change without notice. TPH-EN023a-202507

