

**TIGERFLOW T1HS SERIES**  
STAINLESS STEEL SINGLE-STAGE  
CENTRIFUGAL PUMPS



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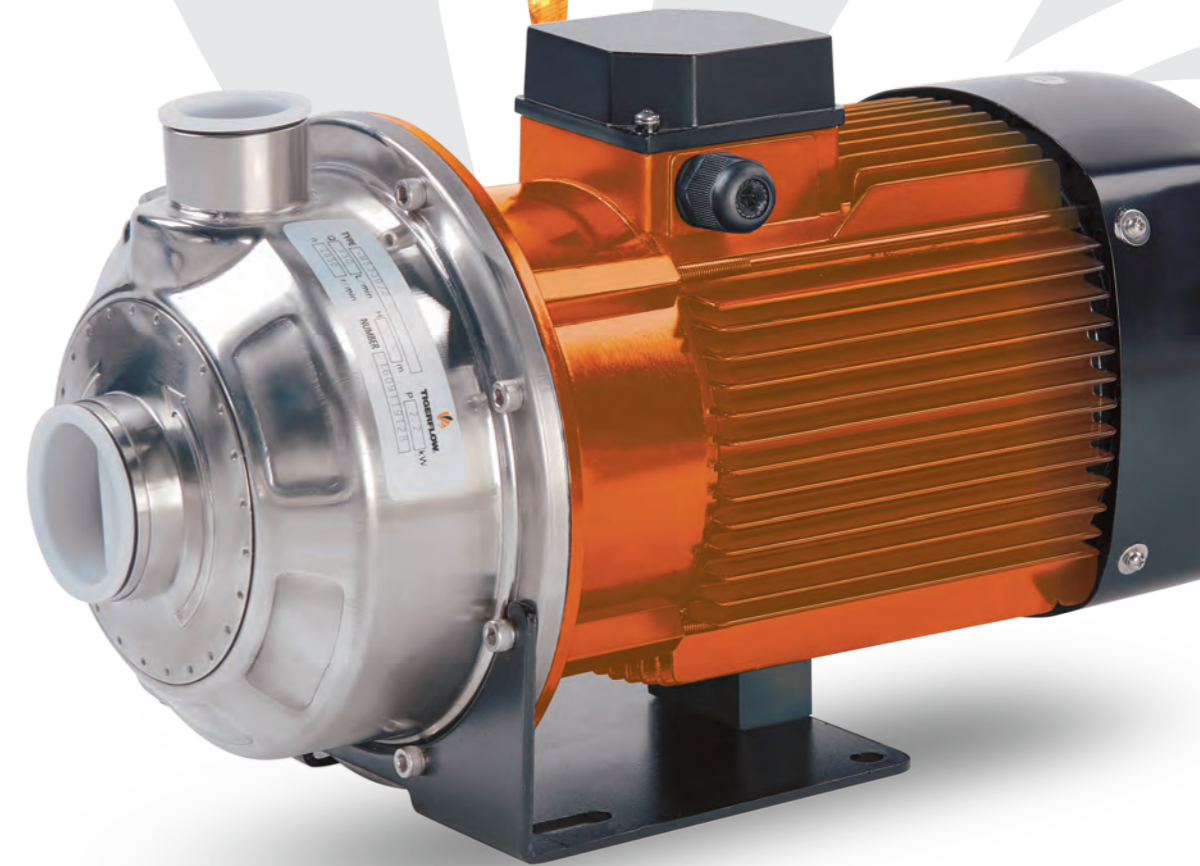
# TIGERFLOW T1HS SERIES

STAINLESS STEEL SINGLE-STAGE  
CENTRIFUGAL PUMPS

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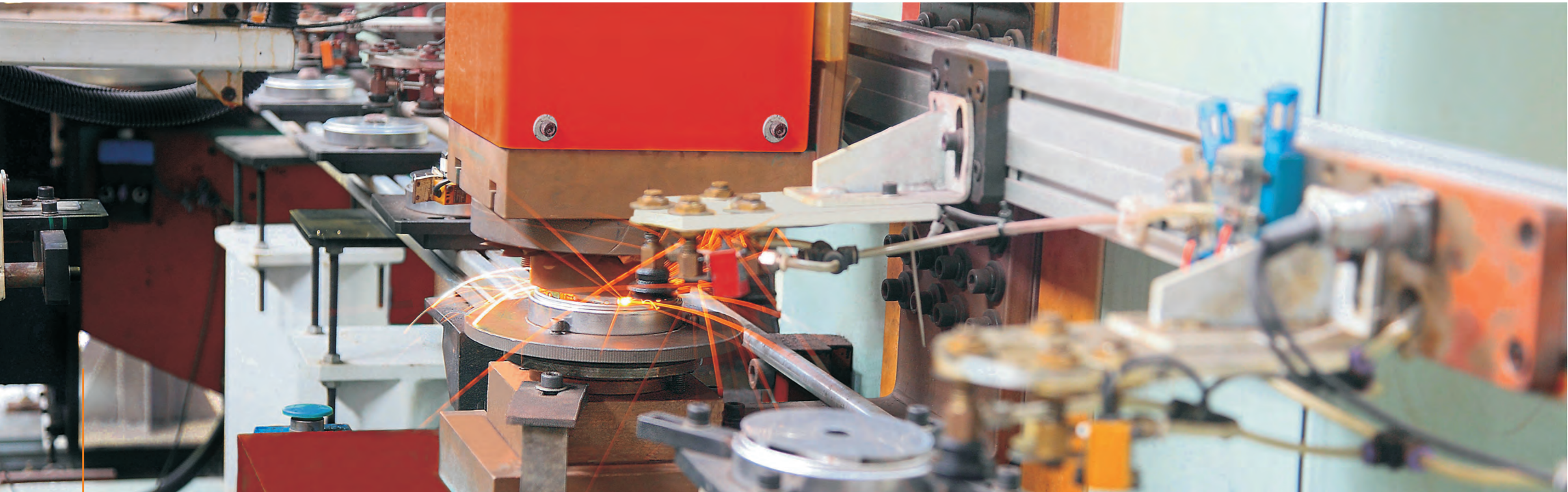


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# TIGERFLOW PUMPS

Located in Dallas, TIGERFLOW has been designing and manufacturing pumping equipment for more than 35 years. Known for the ability to provide the greatest quality products with passion for customer service and innovation, TIGERFLOW strives to provide engineered pumping solutions to the world.

TIGERFLOW pumps are designed and built with the highest quality standards, including high-efficiency designs for the continuously improving energy-efficient buildings and plants. They are suitable for use in a wide variety of industries like commercial, industrial, pharmaceutical, water and wastewater among many others.



# CERTIFICATIONS AND CAPABILITIES

www.tigerflow.com

COMPANY PROFILE

# WHY TIGERFLOW?

## • Manufacturing Plant

- 88,000 square feet manufacturing facility
- Seven manufacturing work centers, including welding, assembly, control panel shop, electrical installation, painting, and testing
- AWS and ASME Certified structural and pipe welders
- NIST Traceable testing facility
- UL 508A Certified control panel shop
- In-house degreed and professional engineers for mechanical, electrical and software design

## • Certifications

- ISO 9001: 2015 certified facility
- Certificate of product liability insurance
- ETL/C-ETL Listed packaged fire pump systems
- NFPA 20 certified engineers and designers
- UL/ C-UL listed packaged pumping system label "QCZJ"
- UL FDNP.MH61218 Drinking Water System Components NSF-61
- UL FDNP7.MH61218 Drinking Water System Components Certified for Canada NSF-61
- UL QNVB.MH61218 Lead Content Verification of Products in Contact with Potable Water NSF-372
- UL QNVB7.MH61218 Lead Content Verification of Products in Contact with Potable Water Certified for Canada NSF-372
- IAMPO 6940 California low lead AB1953/116875
- UL/C-UL 508/918 industrial control panel facility
- Pipe welders certified to ASME Section IX
- Structural welders certified per AWS D1.1
- CMR 248 Massachusetts Plumbing Code Approval #P3-0204-58
- State of Ohio Industrialized Buildings Authorization #308.02
- State of Washington, Dept. of Labor & Industries Approval





**TIGERFLOW  
T1HS SERIES  
STAINLESS STEEL SINGLE-STAGE  
CENTRIFUGAL PUMPS**

● **Product Information**

Founded in 1985, TIGERFLOW Systems has been a leader and innovator in the pumping industry for over 35 years. We have grown from a small regional manufacturer to supplying pump stations, controls and engineering consulting both nationally and internationally.

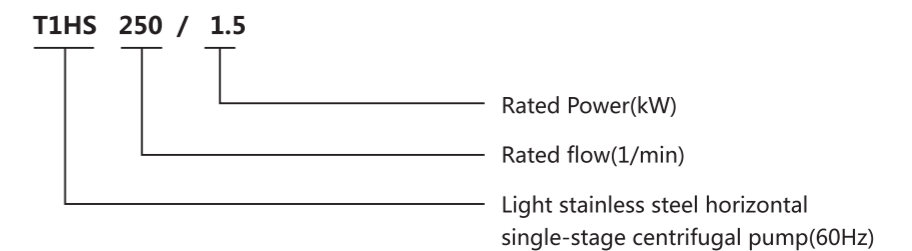
In 2020, the T1HS Series Light Horizontal Single-stage pumps were introduced as part of the TIGERFLOW's line of products. Developed in conjunction with CNP, the TIGERFLOW T1HS Series pumps carry the efficient and modern design that are unparalleled in the market.

With assembly and manufacturing in our factory in Dallas, TX, the quality standards that TIGERFLOW has come to be known for are maintained and continuously improved for our customer satisfaction.

The T1HS Series pumps join the large set of pumping products included in TIGERFLOW's offering including systems for potable water, fire protection, municipal water distribution, etc.

● **Model Key, T1HS**

● **T1HS250/1.5**



● **Pump Features**

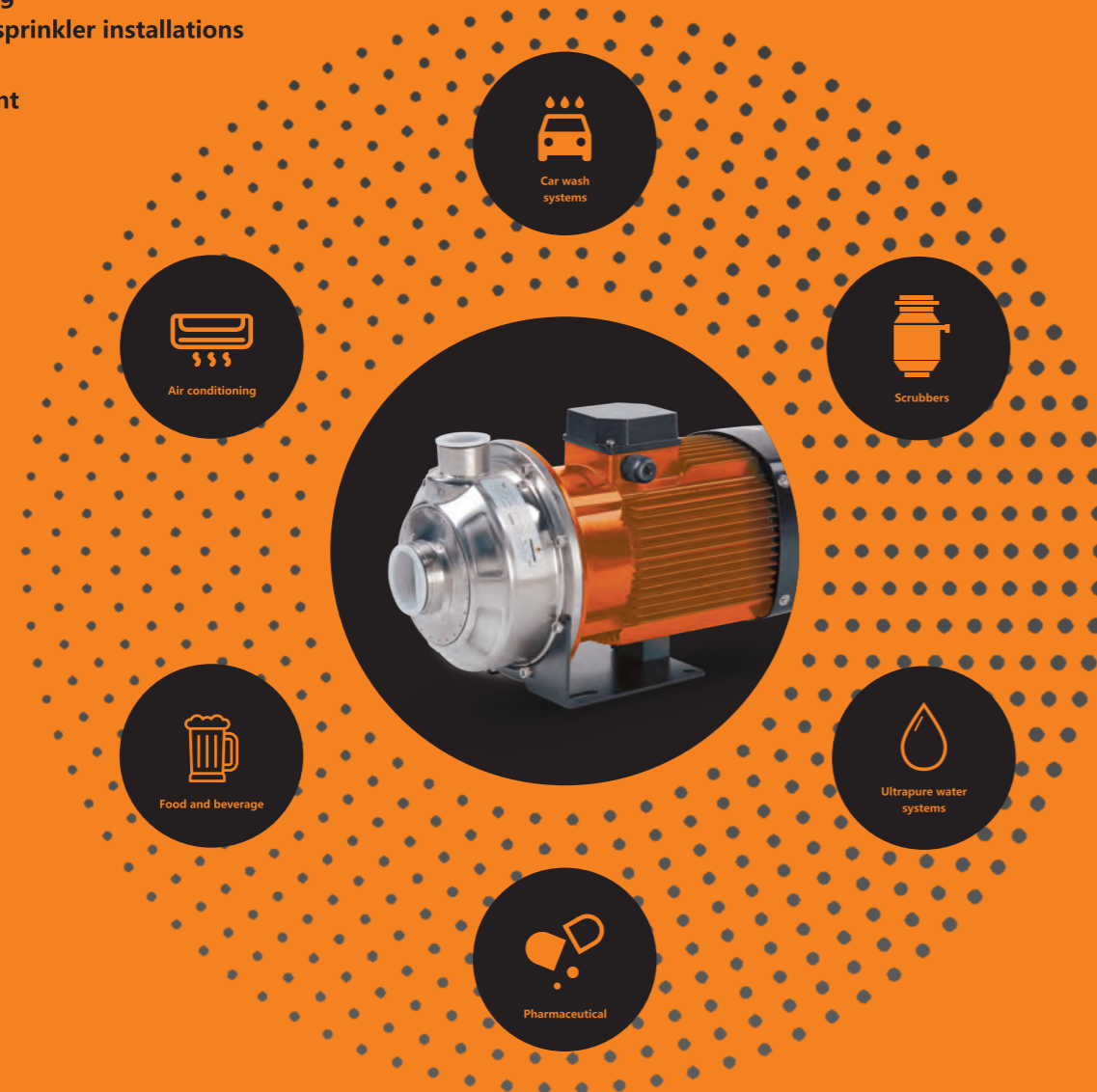
- 304 and 316 stainless steel wetted construction provides corrosion resistance, outstanding appearance, and strength.
- The closed-couple motor connection allows for a compact installation
- Centerline threaded suction and discharge connections make installation easy
- NSF-61 and NSF-372 certification ensures compliance with state and local regulations



## GENERAL DATA

### ● Applications

- Car wash systems
- Scrubbers
- Ultrapure water systems
- Pharmaceutical
- Food and beverage
- Air conditioning
- Water distribution systems
- Cooling water
- Pressure maintenance pumps
- Air conditioning
- Irrigation and sprinkler installations
- Spray systems
- Water treatment



## GENERAL DATA

### ● Operating Conditions

- Liquid temperature: 14°F to 185°F (-10°C to 85°C)
- Maximum ambient temperature: 104°F (higher temperatures require HP derating)
- Maximum altitude: 3,300 ft (higher elevations require HP derating)
- Maximum Working Pressure: 115 psi

### ● Motor

- TEFC 2-Pole Motor
- IP55 Rating
- Insulation Class F
- 208-230V/1 $\phi$  /60Hz; 208-230/460V/3 $\phi$  /60Hz.

### ● Installation Requirements

- Mount horizontally to a stable base
- The pump installation shall be free of tension and forces from the connecting pipe
- The pump shall be installed in a well-ventilated area and protected from freezing conditions to ensure normal motor operation
- The electric wiring shall be done in accordance with NEC 70 and provided with suitable motor protection devices

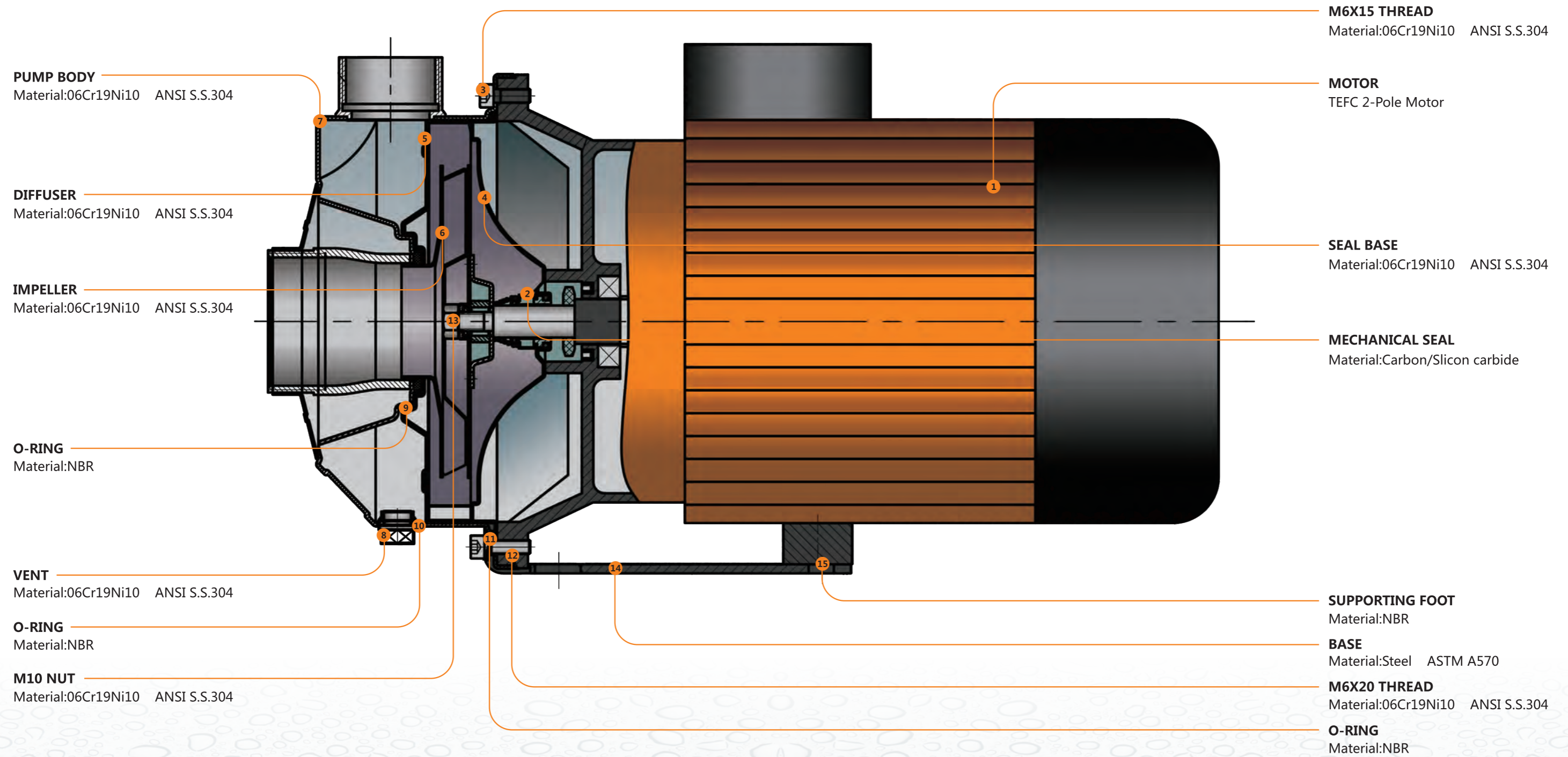
### ● Curves

- All the curves in this catalog are based on measured values at 60 Hz motor frequency and a nominal speed of 3450 rpm
- The measured values were obtained using air-free water at 68 °F, with a kinematic viscosity of 1.052 (ft<sup>2</sup>/s) x10<sup>-5</sup>
- The curve tolerances per ISO9906:2012 Grade 3B

GENERAL DATA

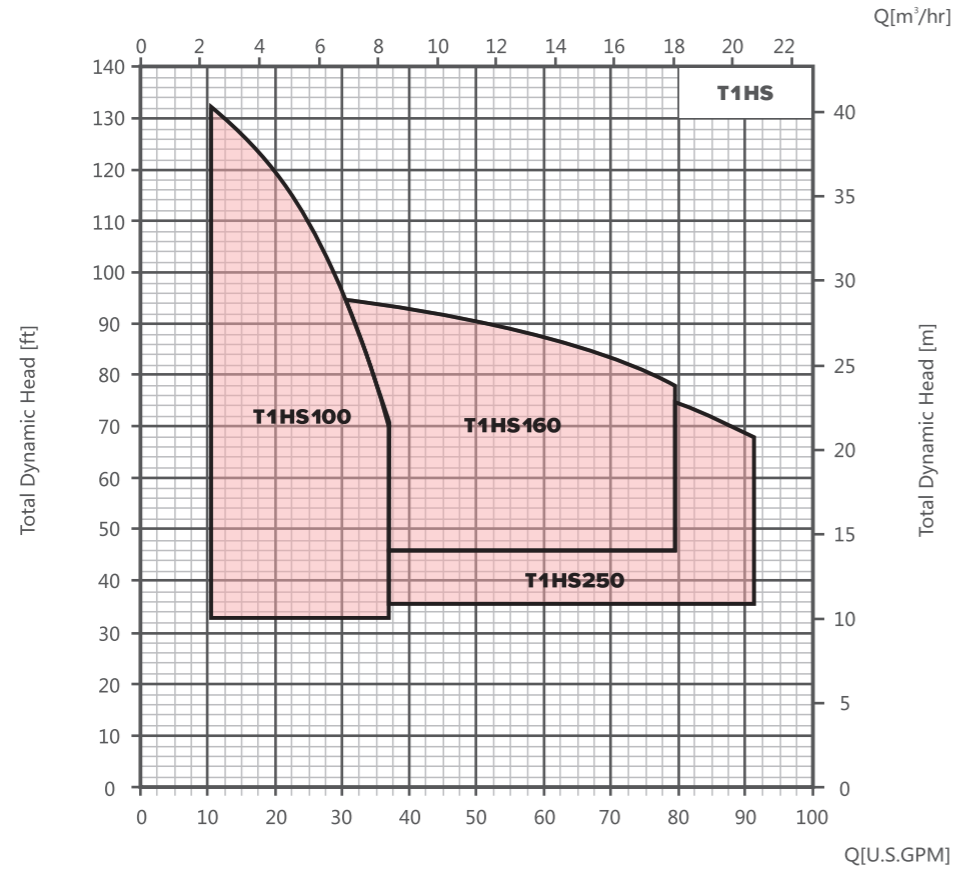
GENERAL DATA

● Sectional Drawing & Material Specifications



GENERAL DATA

● Performance Range

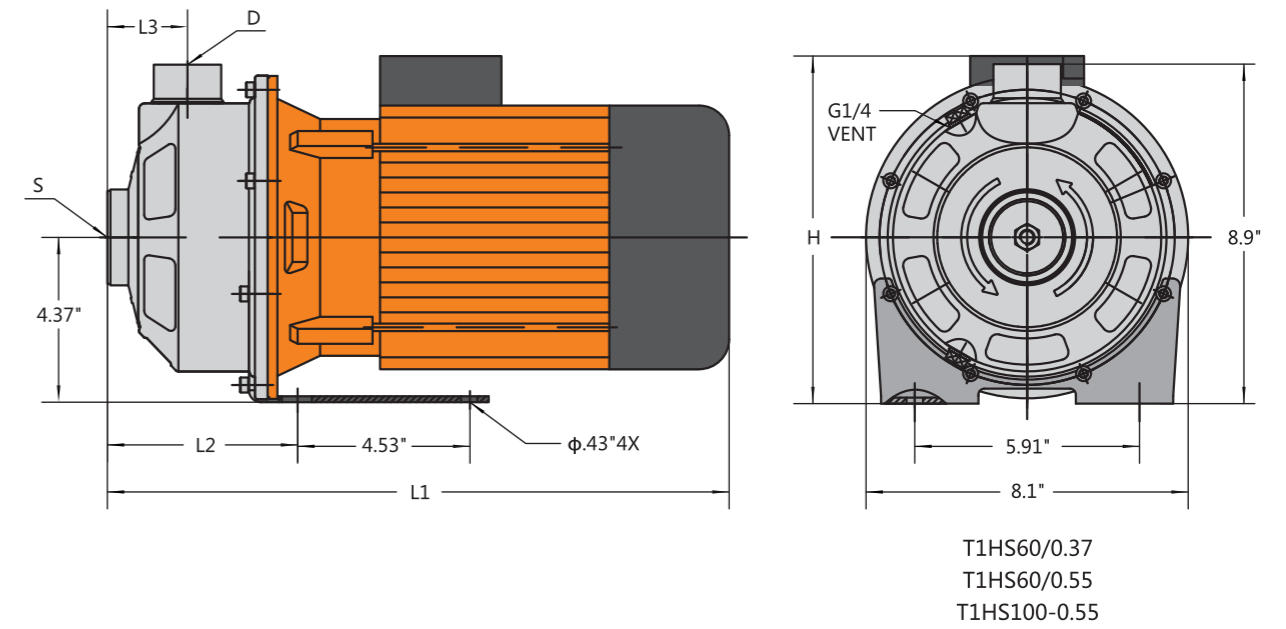


● Performance Table

Model	Driving Motor		Head (ff)	Flow (gpm)													
	(kw)	(hp)		10.6	15.9	21.1	26.4	31.7	37	42.3	52.8	66	79.3	88.1	92.5	106	
T1HS100/1.1	1.1	1.5		108.3	101.7	95.1	82.0	68.9	49.2								
T1HS100/1.5	1.5	2		131.2	124.7	118.1	105.0	88.6	72.2								
T1HS160/1.5	1.5	2					83.7	82.0	80.4	78.7	75.5	72.2	65.6				
T1HS160/2.2	2.2	3					95.1	94.5	93.5	91.9	90.2	85.3	78.7				
T1HS250/1.5	1.5	2						73.8	72.2	70.5	67.3	60.7	52.5	45.9	42.7		
T1HS250/2.2	2.2	3						93.5	91.9	90.2	86.9	82.0	75.5	70.5	67.3		

GENERAL DATA

● Installation Dimensions



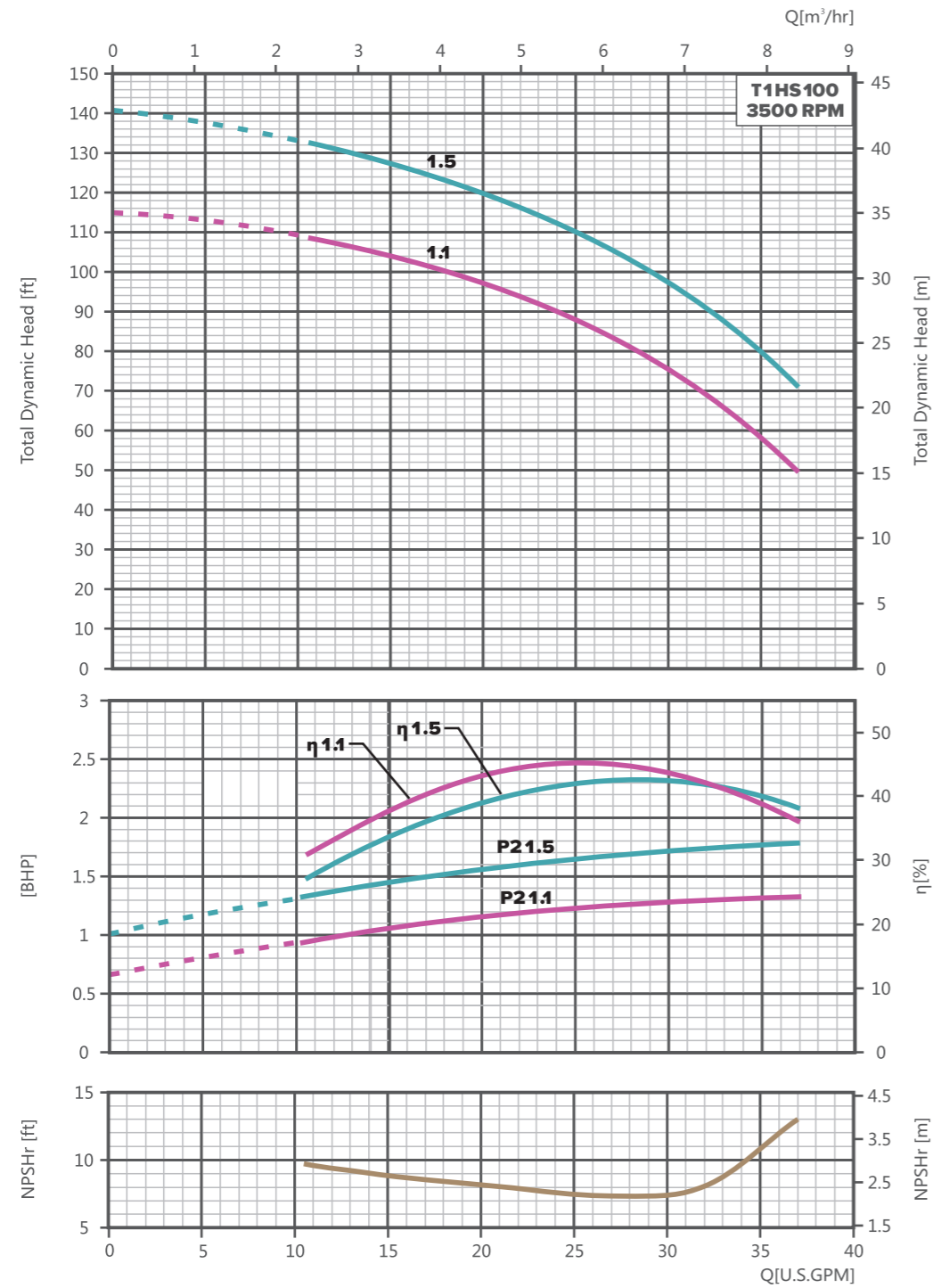
● Size and Weight

Model	Motor 1Ph / 3Ph		L1	L2	L3	Ph(1Ph/3Ph)	S	D	Weight
	(kw)	(hp)							
T1HS100/1.1	1.1	1.5	14.2	4.4	2.0	9.6 / 8.8	1 <sup>1</sup> / <sub>4</sub>	1	30.9
T1HS100/1.5	1.5	2	15.8	4.4	2.0	9.6 / 9.1	1 <sup>1</sup> / <sub>4</sub>	1	44.1
T1HS160/1.5	1.5	2	16.3	5.0	2.1	10.0 / 9.1	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	44.1
T1HS160/2.2	2.2	3	16.3	5.0	2.1	10.0 / 9.1	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	50.7
T1HS250/1.5	1.5	2	16.3	5.0	2.1	10.0 / 9.1	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	44.1
T1HS250/2.2	2.2	3	16.3	5.0	2.1	10.0 / 9.1	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	50.7



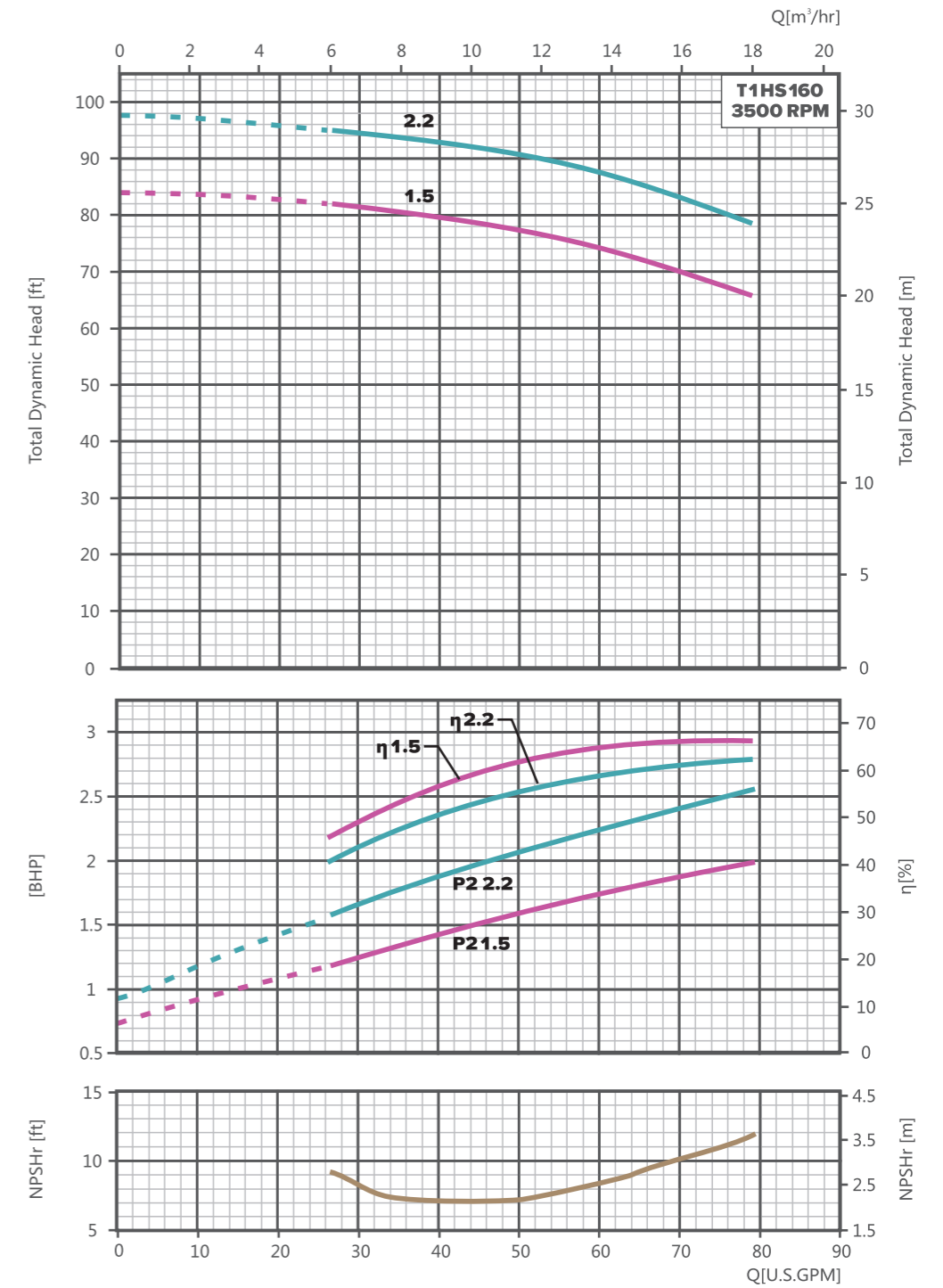
TECHNICAL DATA

● **T1HS100.60Hz**  
Performance Curve



TECHNICAL DATA

● **T1HS160.60Hz**  
Performance Curve





● **T1HS250.60Hz**  
**Performance Curve**

