

Limited Warranty

Products manufactured by Walrus Pumps Co (Walrus) are warranted to the first user only to be free of defects in material and workmanship for a period of 12 months from date of installation, but no more than 24 months from date of shipment. Walrus' liability under this warranty shall be limited to repairing or replacing at our election, without charge, FOB Walrus' distribution center or authorized service agent. Walrus will not be liable for any cost of removal, installation, transportation or any other charges that may arise in connection with warranty claim.

The warranty period commences on the date of original purchase of the equipment. Proof of purchase and installation date, failure date, and supporting installation data must be provided when claiming repairs under warranty.

This warranty is subject to due compliance by the original purchaser with all directions and conditions set out in the installation and operating instructions. Failure to comply with these instructions, damage or breakdown caused by fair wear and tear, negligence, misuse, incorrect installation, inappropriate chemicals or additives in the water, inadequate protection against freezing, rain or other adverse weather conditions, corrosive or abrasive water, lightning or high voltage spikes or through unauthorized persons attempting repairs are not covered under warranty.

Walrus will not be liable for any incidental or consequential damages, losses, or expenses, arising from installation, use, or any other causes. There are no express or implied warranties, including merchantability or fitness for a particular purpose, which extend beyond those warranties described or referred to above.

Certain states do not permit the exclusion or limitation of incidental or consequential damages or the placing of limitations on the duration of an implied warranty, therefore, the limitations or exclusions herein may not apply. This warranty sets forth specific legal rights and obligations, however, additional rights may exist, which may vary from state to state.

Supersedes all previous publications



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TPRK Series

Immersible Pump

Instruction Manual



ISO 9001 Certified

Walrus America Inc

EC Declaration of Conformity

We WALRUS PUMP CO., LTD. declare under our sole responsibility that the products : *Multistage Centrifugal Pump* - **TPRK 2T** series, to which this declaration relates, are in conformity with the Council Directives relating to

- 98/37/EEC (Machinery Directive)

Standard used : EN 292 : 1991

EN 1050 : 1996

Pr EN 809 : 1992

- 89/336/EEC (Electromagnetic compatibility Directive)

- 73/23/EEC (Low-Voltage Directive)

Standard used : EN60335-1

EN60335-2-51 : 1997

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Please read this instruction manual carefully before installing your new system as failures caused by incorrect installation and operation are not covered by the warranty.

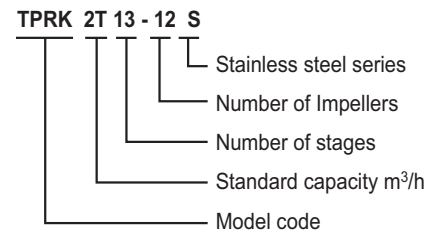
1. Application

1.1. The TPRK series is multi-stage centrifugal pump designed for industrial use, especially for machine tools.

1.2. The pump can not be used to transfer explosive liquids; such as gasoline, diesel oil or similar liquids. It is suitable to carry liquids such as water, coolant, low viscosity or other non-corrosive liquids.

2. Product Code Designation

The standard range of pumps includes complete impeller in chamber combinations. Upon request, a special length can be supplied by fitting empty intermediate chambers instead of standard chambers with impellers. The pump nameplate indicates the number of chambers and impellers fitted to the pump.



3. Operating Limits

1. Ambient temperature :Max. 122°F (50°C)
2. Liquid temperature range :32°F (0°C) to 194°F (90°C)
3. Flow: 5 GPM to 20 GMP
4. Head: 150ft to 750ft
5. Operating pressure :Max. 355 psi
6. Submerged depth :Min. 2.6"

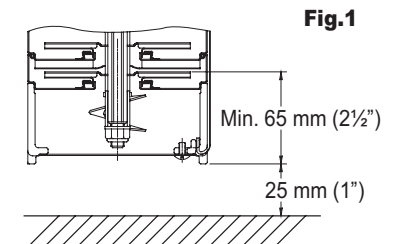
4. Installation



The pump has hot surface on the motor. It must be installed so that persons cannot accidentally come into contact with the hot surface.

4.1. Submerged Depth

To avoid dry running and damage to the pump during operation, the minimum pump submerged depth is 65mm (2½") as shown in Fig. 1. In addition, the bottom of the pump suction inlet must be at least 25 mm (1") above the bottom of the tank.



5. Electrical Connection



5.1. The electrical connection should be carried out in accordance with local regulations. Never make any connections unless the electricity supply has been switched off.



5.2. The electrical hazard warning mark is placed outside the connection box. Be careful.

5.3. Electrical data (voltage and frequency) are shown on the pump nameplate. Verify if these data match your electricity supply. A circuit breaker should be installed and the grounding be properly connected for your safety.

5.4. Make electrical connection in accordance with connecting diagram located inside the

