

DAVEY

DAVEY
Whisper®

DAVEY
Typhoon®

WHISPER Series, TYPHOON C & T-Series Swimming Pool Pumps

Installation and Operating Instructions



WARNING: Failure to follow these instructions and comply with all applicable codes may cause serious bodily injury and/or property damage.

The installation of this product should be carried out by a person knowledgeable in swimming pool plumbing requirements following the installation instructions provided in this manual.

Please pass these instructions on to the operator of this equipment.

Congratulations on the purchase of a quality product from the Davey Water Products range of Pool and Spa Equipment. You are assured of many years of reliable and super efficient performance from your Davey Whisper/ Typhoon swimming pool pump.

Read these instructions in their entirety before switching on this pump. If you are uncertain as to any of these installation and operating instructions please contact your Davey dealer or the appropriate Davey office as listed on the back of this document.

The Davey Whisper and Typhoon pool pumps have been designed to circulate swimming pool and spa water in conditions set out in the Australian Standard for swimming pool water quality AS 3633 or equivalent. They should not be used for any other purpose without first consulting your Davey Dealer or the Davey Customer Service Centre.

Every Davey product is thoroughly water tested against a number of flow, pressure, voltage, current and mechanical performance parameters. Davey's advanced pump manufacturing technology provides reliable and efficient pumping performance that lasts and lasts.



Note: The pump is not intended for use by young children or infirm persons without supervision. Please ensure that young children are supervised to ensure that they do not play with the pump.

General

The purpose of these instructions is to ensure the correct installation and best performance of our pumps.

These are single cell centrifugal pumps with built-in filter elements, especially designed for prefiltering and recirculation of water in swimming pools.

They are designed to operate with clean water at a maximum temperature of 35°C. All materials used are of top quality; they are subjected to strict controls and verified to extremely demanding standards.

Correct compliance with the installation and operation instructions, and with the electrical connection diagrams, will prevent motor overloads and the consequences of all types that could otherwise result, consequences for which we decline all responsibility.

Installation



The installation of our electric pumps is only permitted in swimming pools or ponds that meet DIN standards VDE 0100 part 702/11.82. In case of doubt, inquire with an expert.

The pump should be installed as near as possible to water level, in horizontal position, in order to obtain a minimum suction path and reduce head losses.

It is not advisable to install the pump at more than 3 m geometrical height from water level.

Independently of the geometrical height and the power of the model chosen, self-priming times may be up to 10 min.

The pump must be fixed on a firm base, with screws of 6 or 8 mm diameter, through the prepared holes in the foot.

The pump should be protected from possible flooding and receive dry ventilation. The pump is to be installed in a manner consistent with the National Wiring Rules.

Installing the lines

The supports of the suction and discharge lines will be independent of those of the pump. In the case of plastic lines, ensure tightness of joints and threads with TEFLON tape alone. Glue or similar products should not be used.

The suction line should have a diameter equal to or greater than that of the suction mouth of the pump.

The inside of the suction and discharge holes is threaded to a certain depth. This depth should not be exceeded when screwing on the respective lines. Only new or clean connectors should be used.

The suction lines should be structured with a slight slant to prevent the formation of siphons.

Electrical connection



IMPORTANT INFORMATION: Your Davey pump is Double Insulated to Water Circuit. If equipotential bonding structure is required, then a Equipotential Bonding Point is provided. (Please refer to your local statutes and regulations for AS/NZ 3000 Wiring standards).

The electrical installation should have a multiple separation system with contact opening of a least 3mm.

The protection of the system will be based on an RCD ($I_{fn} = 30 \text{ mA}$). If outdoor operation is foreseen, the power supply cord should meet EEC standards (2) or be of type H07 RN-F as per VDE 0250.

Single-phase motors are equipped with built-in thermal protection.

The diagrams in Fig. (1) will allow correct electrical connection.

Verifications prior to initial start-up



After making the connections defined in the preceding section, unscrew the filter cover and fill the pump prefilter with water to the bottom level of the suction line. Verify that the pump shaft turns freely.



Verify that the mains voltage and frequency match those specified on the nameplate of the pump.

Set the prefilter cover back in place and screw it to a suitable tightness. Check that the turning direction of the motor matches that specified on the fan cover. In three phase motors, if the turning direction is incorrect, reverse two supply phases on the protection panel.

If the motor does not start, try to determine the cause of the irregularity by consulting the list of common faults and their possible solutions, provided in this manual. **NEVER RUN THE PUMP DRY.**

Starting

Open all the gate valves and put the motor under voltage. Wait a reasonable time to allow self-priming. Verify the breakaway current and suitable adjust the thermal relay.

Maintenance



WARNING: Ensure that the pump is switched off from the supply mains before removing the cover.



Pumps are not to be plugged permanently to the supply voltage.

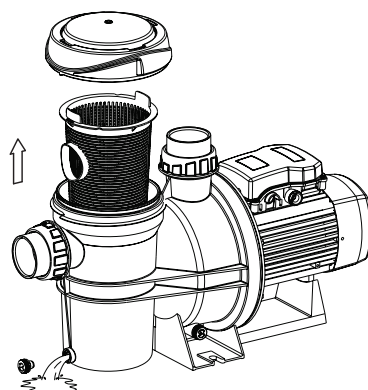
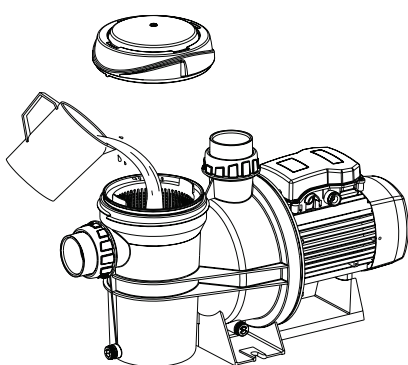
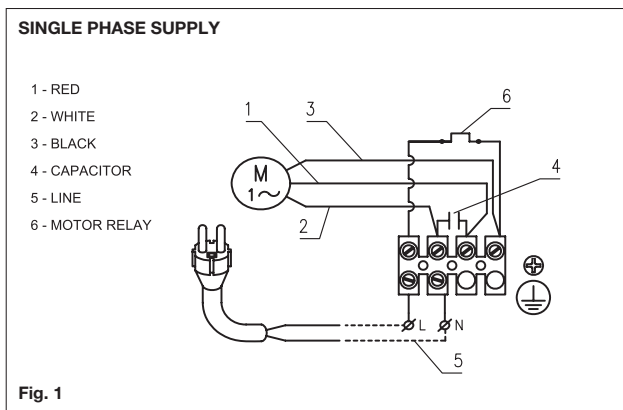
Our pumps do not require any specific maintenance. It is advisable, however, to periodically clean the pump filter and to empty the pump housing in low temperature periods through the blow off plug. If the pump is to remain idle, it is advisable to empty and clean it, and then reinstall the filter cover with oring lubricant on the rubber gasket, taking measures to ensure that the place where the pump is to be stored will remain dry and ventilated.

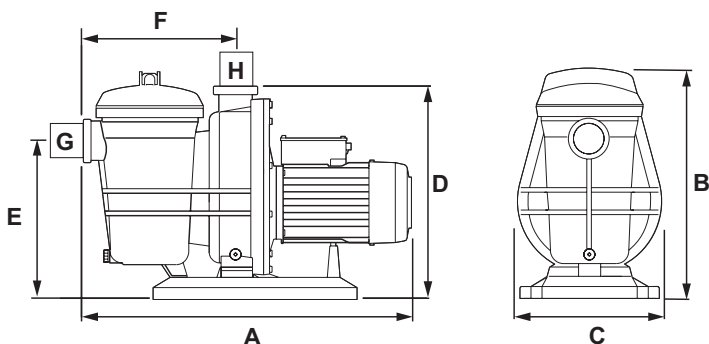
In the event of breakdown, the user must in no event handle the pump,

but must contact an authorised technical service.

When the time comes to dispose of the pump, it contains no toxic or contaminating materials. The principal components are duly identified for selective breaking.

If the supply cord is damaged, it must be replaced by the manufacturer or it's service agent or a similarly qualified person in order to avoid a hazard.





| DIMENSIONS | | | | | | | | | | | | | | | | | |
|---------------|-------------------|---------------|---------------|-----------|---------|----|-------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|---------------|------|
| Model | Q max. (l/min) | H max. (m) | A 1 ~ 230V | C ~ µF | P1 (kW) | IP | Eff. (%) | dBa ± 1 | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm PVC) | H (mm PVC) | kg |
| Whisper 500W | 180 | 12.2 | 2 | 12 | 0.45 | 55 | 35 | <70 | 475 | 115 | 301 | 108 | 212 | 312 | 50 | 50 | 7.4 |
| Whisper 750W | 230 | 13.5 | 2.9 | 12 | 0.65 | 55 | 42 | <70 | 475 | 115 | 301 | 108 | 212 | 312 | 50 | 50 | 7.7 |
| Whisper 1000W | 290 | 14 | 3.8 | 12 | 0.85 | 55 | 50 | <70 | 475 | 115 | 301 | 108 | 212 | 312 | 50 | 50 | 8.5 |
| Typhoon C75M | 340 | 15 | 5.5 | 16 | 1.2 | 55 | 47 | <70 | 532 | 170 | 345 | 159 | 238 | 330 | 50 | 40 | 10.7 |
| Typhoon C100M | 380 | 16.5 | 6.2 | 16 | 1.5 | 55 | 48 | <70 | 532 | 170 | 345 | 159 | 238 | 330 | 50 | 40 | 11.4 |
| Typhoon C150M | 430 | 18.5 | 7.1 | 25 | 1.6 | 55 | 55 | <80 | 560 | 170 | 345 | 159 | 238 | 330 | 50 | 40 | 13.5 |
| Typhoon T150M | 500 | 19 | 8.5 | 25 | 1.9 | 55 | 61 | 71 | 613 | 200 | 397 | 231 | 429 | 270 | 50 | 50 | 18 |
| Typhoon T200M | 550 | 19.5 | 9.7 | 30 | 2.2 | 55 | 64 | 72 | 613 | 200 | 397 | 231 | 429 | 270 | 50 | 50 | 20.7 |
| Typhoon T300M | 650 | 22.5 | 12.5 | 60 | 2.6 | 55 | 63 | 73 | 613 | 200 | 397 | 231 | 429 | 270 | 50 | 50 | 20.6 |

V/Hz esp.: See pump nameplate Liquid Temperature: 4°C ~ 35°C Storage temperature: -10°C~ +50°C Relative Air Humidity: 95% Max. Motor class: I
H max. refers to the maximum total head in metres.

Possible faults, their causes and solutions

1. Pump does not prime
2. Pump supplies scant flow
3. Pump noisy
4. Pump does not start
5. Motor makes sound but does not start

| 1 | 2 | 3 | 4 | 5 | Problem | Solution |
|---|---|---|---|---|--|---|
| X | X | | | | Air entry through suction line | Verify condition of connectors and gaskets of suction line |
| X | | | | | Inadequate airtightness of filter cover | Clean the filter cover and verify condition of rubber gasket |
| X | X | | | | Motor turning direction reversed | Reverse 2 phases of the supply |
| X | | | | | Defective mechanical seal | Change mechanical seal |
| X | X | | | | Excessive suction height | Set pump at a suitable level |
| X | X | | X | | Incorrect voltage | Verify the voltage specified on the nameplate and that of the mains |
| X | | | | | No water in prefilter | Fill prefilter with water |
| X | | | | | Suctioning out of water | Set suction in correct position |
| | X | | | | Filter clogged | Clean filter |
| | X | X | | | Diameter of suction line smaller than required | Correctly dimension suction line |
| | X | | | | Discharge clogged | Inspect filter and discharge line |
| | | X | | | Incorrect pump attached | Attach pump correctly |
| | | X | | | Foreign body in pump | Clean pump and inspect its filter |
| | | | X | | Thermal relay tripped | Reset thermal relay |
| | | | X | | Lack of power | Reset the fuses |
| | | | | X | Motor blocked | Remove the motor and call the technical service |

If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person in order to avoid a hazard.

Davey Warranty

Davey Water Products Pty Ltd (Davey) warrants all products sold will be (under normal use and service) free of defects in material and workmanship for a minimum period of one (1) year from the date of original purchase by the customer as marked on the invoice, for specific warranty periods for all Davey products visit daveywater.com.

This warranty does not cover normal wear and tear or apply to a product that has:

- been subject to misuse, neglect, negligence, damage or accident
- been used, operated or maintained other than in accordance with Davey's instructions
- not been installed in accordance with the Installation Instructions or by suitably qualified personnel
- been modified or altered from original specifications or in any way not approved by Davey
- had repairs attempted or made by other than Davey or its authorised dealers
- been subject to abnormal conditions such as incorrect voltage supply, lightning or high voltage spikes, or damages from electrolytic action, cavitation, sand, corrosive, saline or abrasive liquids,

The Davey warranty does not cover replacement of any product consumables or defects in products and components that have been supplied to Davey by third parties (however Davey will provide reasonable assistance to obtain the benefit of any third-party warranty).

To make a warranty claim:

- If the product is suspected of being defective, stop using it and contact the original place of purchase. Alternatively, phone Davey Customer Service or send a letter to Davey as per the contact details below
- Provide evidence or proof of date of original purchase
- If requested, return the product and/or provide further information with respect to the claim. Returning the product to the place of purchase is at your cost and is your responsibility.
- The warranty claim will be assessed by Davey on the basis of their product knowledge and reasonable judgement and will be accepted if:
 - a relevant defect is found
 - the warranty claim is made during the relevant warranty period; and
 - none of the excluded conditions listed above apply
- The customer will be notified of the warranty decision in writing and if found to be invalid the customer must organise collection of the product at their expense or authorise its disposal.

If the claim is found to be valid Davey will, at its option, repair or replace the product free of charge.

The Davey warranty is in addition to rights provided by local consumer law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

For any internet connected products the consumer is responsible for ensuring a stable internet connection. In the event of a network failure the consumer will need to address the concern with the service provider. Use of an App is not a substitute for the User's own vigilance in ensuring the product is working to expectation. Use of a Smart Product App is at the User's own risk. To the fullest extent permitted by law Davey disclaims any warranties regarding the accuracy, completeness or reliability of App data. Davey is not responsible for any direct or indirect loss, damage or costs to the User arising from its reliance on internet connectivity. The User indemnifies Davey against any claims or legal actions from them or others relying on internet connectivity or App data may bring in this regard.

Products presented for repair may be replaced by refurbished products of the same type rather than being repaired. Refurbished parts may be used to repair the products. The repair of your products may result in the loss of any user-generated data. Please ensure that you have made a copy of any data saved on your products.

To the fullest extent permitted by law or statute, Davey shall not be liable for any loss of profits or any consequential, indirect or special loss, damage or injury of any kind whatsoever arising directly or indirectly from Davey products. This limitation does not apply to any liability of Davey for failure to comply with a consumer guarantee applicable to your Davey product under local laws and does not affect any rights or remedies that may be available to you under local laws.

For a complete list of Davey Dealers visit our website (daveywater.com) or call:

DAVEY

Davey Water Products Pty Ltd
Member of the GUD Group
ABN 18 066 327 517

daveywater.com

AUSTRALIA

Head Office

6 Lakeview Drive,
Scoresby, Australia 3179
Ph: 1300 232 839
Fax: 1300 369 119
Email: sales@davey.com.au

NEW ZEALAND

7 Rockridge Avenue,
Penrose, Auckland 1061
Ph: 0800 654 333
Fax: 0800 654 334
Email: sales@dwp.co.nz

EUROPE

7 rue Eugène Hénaff 69200
Vénissieux, France
Ph: +33 (0) 4 72 13 95 07
Fax: +33 (0) 4 72 33 64 57
Email: info@daveyurope.eu

NORTH AMERICA

Ph: 1-888-755-8654
Email: info@daveyusa.com

MIDDLE EAST

Ph: +971 50 6368764
Fax: +971 6 5730472
Email: info@daveyuae.com