

XF Series Electric Pumps Installation and Operating Instructions





NOTE: Prior to installation remove the red transport plugs from the suction and/or discharge.

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

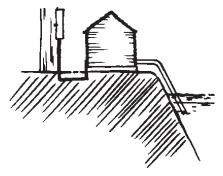
Prior to using this pump you must ensure that:

- The pump is installed in a safe and dry environment
- The pump enclosure has adequate drainage in the event of leakage
- Any transport plugs are removed
- · The pipe-work is correctly sealed and supported
- The pump is primed correctly
- The power supply is correctly connected
- All steps have been taken for safe operation

Appropriate details for all of these items are contained in the following Installation and Operating Instructions. Read these 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 Davev office as listed on the back of this document.

CHOOSING A SITE

Choose a site with a firm base as close to the water source as possible with correct power supply. Make sure your pump is always connected to an adequate, reliable source of clean water.



HOUSING YOUR DAVEY PUMP

To protect your pump from the weather, make sure the pump house is both water proof, frost free and has adequate ventilation.

The pump should be mounted on a firm base allowing for drainage, to avoid damage to flooring etc., that over time may occur from leaking pipe joints or pump seals.

Do not mount the pump vertically.



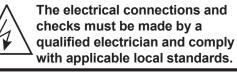


WARNING: Some insects, such as small ants, find electrical devices attractive for various reasons. If your pump enclosure is susceptible to insect infestation vou should implement a suitable pest control plan.

POWER CONNECTION



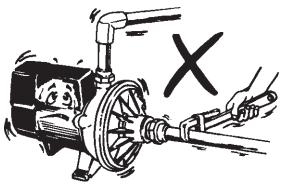
In accordance with AS 3350.2.41 we are obliged to inform you that this pump is not to be used by children or infirm persons and must not be used as a toy by children.



Connect lead to power supply designated on pump label, do not use long extension leads as they cause substantial voltage drop, poor pump performance and may cause motor overload.

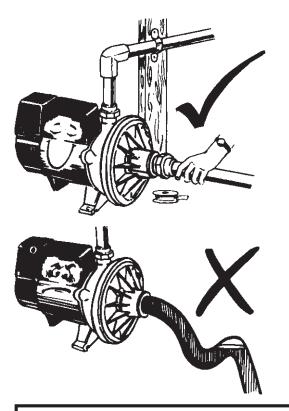
PIPE CONNECTIONS

For best performance use P.V.C. or polythene pipe at least the same diameter as the pump's inlet. Larger diameter pipe may be used to minimise resistance to flow when pumping longer distances.



Use unions at pipe connections to enable easy removal and servicing. Use sufficient tape to ensure airtight seal and hand tighten only, do not screw connections all the way into suction port. To prevent strain on pump thread always support heavy inlet and outlet pipes.

Lay suction pipe at a constant gradient to avoid air pockets which may reduce pump efficiency.

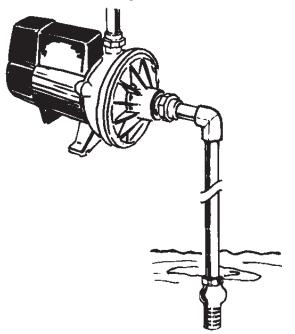


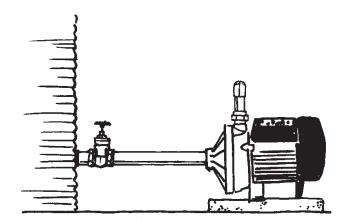
NOTE: Suction leaks are the largest cause of poor pump performance and are difficult to detect. Ensure all connections are completely sealed using thread tape only. Do not use sealing compounds or pipe dope.

WHERE TO USE CHECK VALVES AND FOOT VALVES

Installations with a suction lift require a good quality foot valve to avoid loss of prime.

Installations with flooded suction require a gate valve so water supply can be turned off for pump removal and servicing.





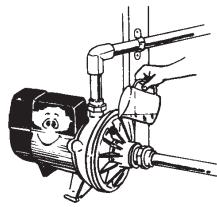
Installations with overhead tanks and pipe work require a one-way check valve to avoid water draining back past the pump while not in operation and causing possible pump damage.

PRIMING AND OPERATION

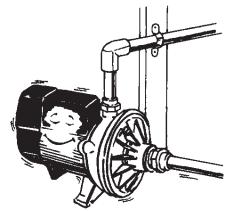
1. Ensure outlet nearest to pump is open.



2. Fill pump body and suction line through priming plug hole located above suction inlet and replace plug.







4. Prime should establish almost immediately with a strong flow of water, however, in some installations it may be necessary to repeat the above operation to remove all air from the system.



WARNING:

DO NOT RUN DRY. DO NOT RUN WITH LOSS OF PRIME. DO NOT PUMP WATER CONTAINING ABRASIVE MATERIALS.

SPECIAL MODELS

XF models fitted with "THERMOTECTION" XF92F, XF171F, XF221F, XF192F, XF92S, XF171S, XF221S AND XF192S

Special models of XF pumps are supplied with a unique device (Thermotection) to automatically stop the pump should the water in the casing reach 85°C. This condition may occur when a fully primed pump is operated without being allowed to discharge water (i.e. closed head operation). Twin impeller models also have high grade 316 stainless steel casings.



CAUTION:

Thermotection will automatically restart the pump when the water temperature drops below $65^{\circ} \pm C 5^{\circ}C$.

XF models fitted with Silicon Carbide Seals XF92B, XF171B, XF221B and XF192B XF92S, XF171S, XF221S and XF192S

These models are fitted with special hard face silicon carbide mechanical seals to allow them to better handle corrosive and abrasive water. Twin impeller models also have high grade 316 stainless steel casings.

DO NOT RUN DRY

WARNING: If these models are operated without water the mechanical seals will emit a high pitched noise. Continued operation without water may result in damage to the seal chamber.

XF model with Chemical Resistant Pump End XF171D

This model is fitted with pump components made from a special plastic. This model is better suited to pump certain chemical solutions such as those used in "dog spa's". For more information on acceptable chemicals contact your Davey dealer or the Davey Customer Service Centre.

TROUBLE SHOOTING CHECK LIST

MOTOR OPERATING BUT NOT PUMPING:

- 1. Suction line and pump body not filled with water.
- 2. Leaking foot valve.
- 3. Air leaks in suction lines or suction pipe not under water.
- 4. Air trapped in suction lines (also possible with flooded suction) due to uneven rise in piping (eliminate humps and hollows).
- 5. No water at source or water level too low.
- 6. Valve on suction or delivery lines closed.

MOTOR NOT RUNNING:

- 1. Power not connected.
- 2. Supply voltage too low.
- 3. Overload tripped.
- 4. Motor not free to turn e.g. a blocked impeller.
- 5. Internal motor fault.



*NOTE: For protection, the Davey pump motor is fitted with an automatic reset thermal overload, constant tripping of this overload indicates a problem e.g. low voltage at pump, excessive temperature (above 50°C) in pump enclosure.



Warning: Automatic reset thermal overloads will allow the pump to restart without warning. Always disconnect the pump motor from the electrical supply before maintenance or repairs.

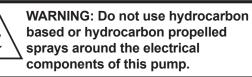


WARNING: When servicing or attending pump, always ensure power is switched off and lead unplugged. Electrical connections should be serviced only by qualified persons.

Care should also be taken when servicing or disassembling pump to avoid possible injury from hot pressurised water. Unplug pump, relieve pressure by opening a tap on the discharge side of the pump and allow any hot water in the pump to cool before attempting to dismantle.



IMPORTANT: DO NOT USE petroleum based fluids or solvents (e.g. Oils, Kerosene, Turpentine, Thinners, etc) on the plastic pump components or seal components.



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:
 - o a relevant defect is found
 - o the warranty claim is made during the relevant warranty period; and
 - o 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 Water Products Pty Ltd Member of the GUD Group ABN 18 066 327 517

daveywater.com

AUSTRALIA

Email:

Head Office6 Lakeview Drive,Scoresby, Australia 3179Ph:1300 232 839Fax:1300 369 119

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

ZAC des Gaulnes 355 Avenue Henri Schneider 69330 Meyzieu, France Ph: +33 (0) 4 72 13 95 07 Fax: +33 (0) 4 72 33 64 57 Email: info@daveyeurope.eu

NORTH AMERICA

Ph: 1-877-885-0585 Email: info@daveyusa.com

MIDDLE EAST

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

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P/N 48095-13

* A Quick Reference Guide is included with the product when purchased new, for detailed instructions please visit daveywater.com, scan the QR code on the Quick Reference Guide / Davey product label (if applicable) or contact your local Davey Office.