WARNING: Do not use hydrocarbon based or hydrocarbon propelled sprays around the electrical components of this pump.



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

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

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.

MOTOR NOT RUNNING:

Supply voltage too low.

Power not connected.

Motor not free to turn e.g. a blocked impeller

*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.

Internal motor fault.

Valve on suction or delivery lines closed.

No water at source or water level too low.

Air leaks in suction lines or suction pipe not under water.
Air trapped in suction lines (also possible with flooded suction) due to

uneven rise in piping (eliminate humps and hollows).

MOTOR OPERATING BUT NOT PUMPING: **Trouble Shooting Check List**

Suction line and pump body not filled with water

DAVEY

Installation and Operating Instructions for Davey **XF Series Electric Pumps**

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

Davey Repair or Replacement Guarantee

In the unlikely event in Australia or New Zealand that this Davey product develops any malfunction within two years of the date of original purchase due to

faulty materials or manufacture, Davey will at our option repair or replace it for you free of charge, subject to the conditions below. Should you experience any difficulties with your Davey product, we suggest in the first instance that you contact the Davey Dealer from which you purchased the Davey product. Alternatively you can phone our Customer Service line on 1300 367 866 in Australia, or 0800 654 333 in New Zealand, or send a written letter to Davey at the address listed below. On receipt of your claim, Davey will seek to resolve your difficulties or, if the product is faulty or defective, advise you on how to have your Davey product repaired, obtain a replacement or a refund

capacitors), loss or damage resulting from misuse or negligent handling, improper use for which the product was not designed or advertised, failure to or high voltage spikes, or unauthorized persons attempting repairs. Where applicable, your Davey product must only be connected to the voltage shown

Your Davey Two Year Guarantee does not cover freight or any other costs incurred in making a claim. Please retain your receipt as proof of purchase; you MUST provide evidence of the date of original purchase when claiming under the Davey Two Year Guaran

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 the Australian or New Zealand legislation and does not affect any rights or remedies that may be available to you under the Australian or New Zealand Consumer Legislation.

In Australia, you are entitled to a replacement or refund for a major failure and for 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

Should your Davey product require repair or service after the guarantee period; contact your nearest Davey Dealer or phone the Davey Customer Service

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



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

Customer Service Centre 6 Lakeview Drive, Scoresby, Australia 3179 1300 232 839 Fax: 1300 369 119 Fmail: sales@davey.com.au

Website: davey.com.au

NEW ZEALAND Customer Service Centre 7 Rockridge Avenue, Penrose, Auckland 1061 0800 654 333 0800 654 334 Fax: Fmail: sales@dwp.co.nz Website: daveynz.co.nz

P/N 48095-13

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Installation and operating instructions are included with the product when purchased new They may also be found on our website.

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

Prior to using this pump you must ensure that:

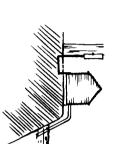
- The pump is installed in a safe and dry environment
- The pump enclosure has adequate drainage in the event of leakage
- Any transport plugs are removed
- The pump is primed correctly The pipe-work is correctly sealed and supported
- The power supply is correctly connected
- All steps have been taken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

Operating Instructions please contact your Davey dealer or the appropriate switching on this pump. If you are uncertain as to any of these Installation and Installation and Operating Instructions. Read these in their entirety before Davey office as listed on the back of this document. Appropriate details for all of these items are contained in the following

Before installing your new pump, please read all instructions carefully as failures caused by incorrect installation or operation are not covered by the guarantee. Your XF Electric Pump is designed to handle clean water. The system should not be used for any other purpose without specific referral to Davey. The use of the pump to pump flammable, corrosive and other materials of a hazardous nature is specifically excluded.

Choosing a Site

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





Housing your Davey Pump

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

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

and Foot Valves

Where to use Check Valves

Do not mount the pump vertically.

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

for pump removal and servicing



Power Connection



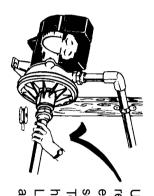


pump performance and may cause motor overload. Connect lead to power supply designated on pump label, do not use long extension leads as they cause substantial voltage drop, poor

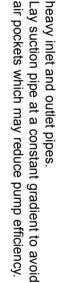
Pipe Connections

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





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





and are difficult to detect. Ensure all cause of poor pump performance

NOTE: Suction leaks are the largest

using thread tape only. Do not use connections are completely sealed

sealing compounds or pipe dope.



Priming and Ensure outlet

nearest

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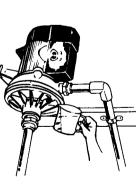
Switch on.

Operation

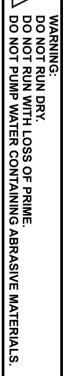
Ņ Fill pump body and suction line pump is open.



4.



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

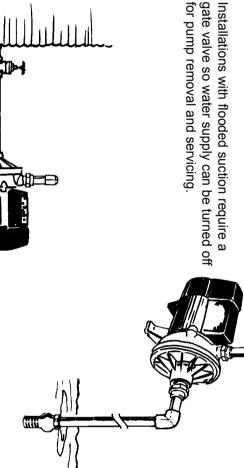


system.

XF92F, XF171F, XF2 221F, XF192F, XF92S, XF171S, XF221S AND XF192S

Special models of XF (Thermotection) to automatically stop the pump should the water in the casing pumps are supplied with a unique device

without being allowed to discharge water (i.e. closed head operation). Twin impeller models also reach 85°C. This condition may occur when a fully primed pump is operated have high grade 316 stainless steel casings.



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

Special Mode

XF models fitted with "THERMOTECTION"



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Thermotection will automatically restart the pump when the water temperature drops below 65° ± C 5°C.

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

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



seals will emit a high pitched noise. Continued operation without water may result in damage to the seal chamber. DO NOT RUN DRY WARNING: If these If these models are operated without water the mechanical

XF171D XF model with Chemical Resistant Pump End

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