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India

www.pentairwater.com



An earth leakage or residual protection device must be fitted to all installations.



# **Owner's Manual**



**VF150** 

L100118A-1105

this warranty must give evidence of date of purchase, model and serial number of the product and the

In Australia please contact 1800 664 266 In New Zealand please contact 0800 664 269 Claims under

# Relax - you've bought an Onga ...

local and International reputation. Onga is one of the best known brands in its field, with a proud Congratulations on your decision to purchase an Onga product.

Onga is a brand for reliability, value for money and

You will find Onga product wherever people need to move technological innovation.

water in 3 broad markets covering:

Home, Garden, Pool and Spa. for moving and treating water in the Technologically advanced solutions

industries. management solutions for Primary Innovative Stock and Crop water

Original Equipment manufacturers. ing services, Emergency services and Water movement products for Build-



Process

Zealand legislation or authority and where necessary shall so be read and construed. Goods Act, Consumer Guarantees Act, Fair Trading Act or any other relevant and applicable New Australian state and/or Australian federal consumer protection legislation, New Zealand Sale of any right or remedy which the purchaser or ultimate user of the product may have pursuant to from state to state. Nothing in this warranty limits or restricts, or is intended to derogate from, This warranty gives you specific legal rights, and you may also have other rights which vary Effective law:

UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOŚS OF PROFILTY OF SUCH LOSS OF BUSINESS OPPORTUNITY, LOSS, OF GOODWILL, INTERFERENCE OF BUSINESS RELA-TIONSHIPS, OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH

DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE PRODUCT, DAMAGES BASED

PENTAIR WATER'S LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT. ONGA

Tained Herein including the implied warranty of merchantability and fitness for a particular

Marranty services war anny with the denied or suspended, on equipment not readily acces—
Marranty service work will be denied or suspended, on equipment not readily acces—
sible to service personnel, that is products that are behind barriers, tiled or bricked in,
installed in roofs or second story external walls including inaccessible power points.
Any service of any product which is found to be faulty due to abuse, fair west & tear,
Any service of any product which is found to be faulty due to abuse, fair west & tear,
Any service of any product which is found to be faulty due to abuse, fair west & tear,
and a service of any product which is found to be faulty one or any service agents curtent servicing hourly rate.

infield service by an authorised Pentair Water Service Agent will incur a travel, removal & reinstallation fee to adjudicate on warranty issues. Authorised warranty will be free of charge for the first 24 month period from date of the first section from the first 24 month period from date of the first sections are sections.

office of recommenders service agence.

a) the product is to be forwarded by the customer freight paid to an Authorised Pentair.

The product is to be forwarded by the customer freight paid to an Authorised Pentair.

The product is to be forwarded by the customer freight paid to an Authorised Pentair.

Water service agent.

To obtain warranted service, you will be required to provide to either Pentair Water state office or recommended service agent:—

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CON-

ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.

ANY CLAIM AGAINST THE CUSTOMER BY ANY OTHER PARTY.

Exclusion of damages:

Limitation of implied warranties:

Water service agent.

How to get service:

claimants name, address and telephone number.

PURPOSE.

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### Pentair Water Product Warranty

Pentair Water warrants that, when this product is used for the purpose it was designed, is correctly housed and vented against weather, vermin, dust etc., that it will be free of material and manufacturing defects at the time of the original purchase.

This warranty is limited to the cost of the product and does not cover third party costs including the costs of electricians, plumbers, etc. unless authorised by Pentair Water.

## TERMS AND CONDITIONS APPLICABLE INTERNATIONALLY

How long the warranty is effective Internationally

1) This Pentair Water product is warranted for 24 months for all parts from the date of the first consumer purchase. Should any parts fail as a result of such defects within the specified period, the part will be replaced free of charge. (This does not include travel charges, removal and reinstallation charges.)

## TERMS AND CONDITIONS APPLICABLE IN AUSTRALIA AND

### **NEW ZEALAND**

YOU SHOULD CAREFULLY READ THE INSTRUCTIONS SUPPLIED PRIOR TO USING THIS PENTAIR

This product is to be installed and operated in accordance with the instructions provided. This warranty will not apply if it is used in a manner other than in accordance with the instructions.

What the warranty covers:

1)

Pentair Water warrants its products to be free of defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, then Pentair Water will, at its sole option repair or replace the product with a like product. Replacement product or parts may include re-manufactured or refurbished parts or components.

How long the warranty is effective:

1) This Pentair Water product is warranted for 24 months for all parts from the date of the

first consumer purchase.

2) Where this Pentair Water product is sold for commercial application as defined in the relevant Trade Practices and Consumer Protection legislation the warranty shall be for a period of six months from the date of purchase by the end user.

Who the warranty protects:

This warranty is valid only for the consumer purchaser.

What the warranty does not cover:

1) Damage, deterioration or malfunction resulting from:

- accident, misuse, negligence, fire, water, lightning, or other acts of nature, unau— thorised product modification or failure to follow instructions supplied with the product:
- repair or attempted repair by anyone not authorised by Pentair Water; any damage to the product due to shipment; removal or installation of the product;

- causes external to the product such as electric power fluctuations or failure; use of supplies or parts not meeting Pentair Water specifications;

normal wear and tear:

water ingression or exposure to abnormal corrosive conditions or "run dry" condi-

any other cause which does not relate to a product defect.

- Damage caused to the product as a consequence of use of another manufacturer's product used in conjunction with Pentair Water and affiliate companies.

  Ingress of insects into the unit causing electrical malfunction is not warranted, care
- should be taken to avoid this occurrence.

Spare parts are usually stocked for a reasonable period of time following last production.

Pentair Water does not warrant that spare parts will be made available for the whole of the reasonable period and reserves its right to cease supplying spare parts or providing facilities for repair of spare parts in circumstances which are beyond its control including the requirement to remove spare parts from sale as a consequence of changes in the law or otherwise as it deems fit.

1. Continual Product Improvement We employ the best engineers both in Australia and around the world to develop new and better ways to take water further.

#### 2. Operational Excellence

There is only one standard that we set ourselves for both product quality and the quality of our service. That standard is excellence... to have no-one better than us at what we do... nothing short of that is acceptable. Our commitment to quality is reinforced with our ISO 9001:2000 accreditation.

#### 3. A Fair Price

Onga products are neither the cheapest nor the most expensive in their field. Our products do, on the other hand, always represent very good value for money they always have and they always will.

#### Our Team of Dealers 4.

The hand picked authorised Onga dealer network throughout Australia and worldwide are second to none. We invest considerable time and resources training and supporting them through the Onga Training Academy.



## Service & Maintenance

# Table of contents

draw is a symptom of abnormal mechanical friction in the pump or moof pump wear caused by grit or silt in the water. An increase in current the pressure and current draw. A decrease in pressure is a symptom In order to avoid possible failures, it is advisable to check periodically quire any maintenance. Under normal conditions, your VF150 submersible pump does not re-

tor, caused by solid material being lodged within the pump.

the pump, and may affect warranty Pumping water containing solids will reduce the life of

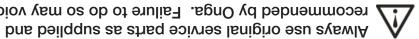
Pumping chemicals or agricultural products voids

warranty

Do not pump hydrocarbons with this pump



clean fresh water, and stored in a dry place. of time, it should be completely emptied, rinsed with If the pump is not going to be used for a long period



warranty. recommended by Onga. Failure to do so may void

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pump equipment and installation. ing equipment should seek advice from people experienced in These instructions are a guide only. Users not familiar with pump-



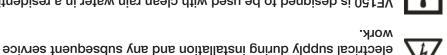
operation. manual. This must be read before operation, and followed during The pump operator or owner must be provided with this owner's



water during cold conditions. freezing, or ensure that the product is disconnected and dried of freezes. Ensure that VF150 is located so that it is not prone to Freezing conditions will damage the unit, as ice expands as it



VF150 is electrically connected. Ensure that it is isolated from



work.

VF150 in an explosive enviroment or near combustible matter. sive, corrosive or explosive fluids. Do not install or operate your application. Do not use it with alternative fluids, specifically abra-VF150 is designed to be used with clean rain water in a residential



overheat the motor. the water) for long periods. This will harm the pumps seal, and Do not run the VF150 dry, or with the motor exposed (i.e. out of



Symptom	Cause	Remedy		
Pump doesn't start	Float switch isn't in the 'on' position: Not enough water in the pit to get the float above level	Wait until there is more water in the pit to start the pump		
	Float is caught on something, and can't rise above level	Ensure that the float can move freely		
	No power supply	Ensure that the pump is connected to a live outlet		
		Check fuses and circuit breakers		
	Pump is blocked	Disconnect the pump from the power outlet, and check the pump housing and discharge for foreign matter		
No water from pump	Blockages in the pump or discharge	Disconnect the pump from the power outlet, and check the pump housing and discharge for foreign matter		
	Excessive lift	Ensure that the height that you are trying to lift water is within the pump's capacity. A larger pump may be required.		
	Not enough water in the pit to pump	Wait until there is more water in the pit. Ensure that float switch is operating freely		
Pump will not stop, even though there is little water in the pit.	Float switch is trapped in the "up" position	Ensure that the float switch can operate freely		
	Float switch is fused "on"	Replace the float switch		
Pump runs intermittently: Thermal protection inside the pump is tripping and resetting	The pump is not completely submerged	Ensure pump is covered with water		
	Water temperature is too high	Ensure that water temperature limits are observed.		
Pump runs intermittently:	When the pump shuts off, water in the discharge line is running back into the pit, lifting the float switch.	Fit a non-return valve at the pump discharge so that water cannot return to the pit		
8				

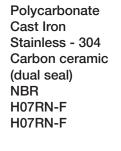
## **Technical Information**

Pump Discharge connection: 1 1/4" BSPF thread Supplied fitting: 1 1/4" Hose Barb Power Supply: 230V - 1Ph - 50Hz Voltage limits: 209V - 253V (230V ± 10%)

### Construction

Impeller:
Pump housion:
Shaft:
Mechanical seal:

Oil seal: Power Cable: Float cable



Maximum flow rate:

Maximum head:

Water temperature range:

Power consumption

FLA (Full load amps):

Start current:

Maximum submergence:

150 lpm

7m

180W

1.75A

9.5A

# **Application**

VF150 is designed for clean water, or water containing some soft solids. Typical applications are dewatering pits, drainage, water features and gray water.

Do not use your VF150 for liquids other than clean water. Using corrosive, abrasive or explosive fluids will damage the unit, and may cause personal injury or death.

# Fittings and accessories

Preparation for installation

Installation

Read these instructions first

Onga dealer. Read the Owner's Manual that was shipped with the pump Inspect your VF150 for shipping damage. Report any damage to your

to ensure correct pump installation.

Connect a stainless steel wire cable or a rope to the handle of the pump.

clamps to secure this to the fitting provided. pump housing. If you are using a flexible discharge hose, use hose If you are using a hard discharge pipe, thread this into the outlet of the

This is to keep the pump inlet above sediments in the bottom of the pit. pump onto a hard level surface that is elevated from the base of the pit. Lower the pump into the pit using the rope or wire cable. Lower the

eration and pump failure may occur if the float switch becomes trapped. Ensure that the float switch can move freely within the pit – incorrect op-

float is in the low position. when the float is higher than level, and stop operating when the pump Connect the power plug to a suitable outlet. The pump will operate

lift it. Do not use the power cable or the float switch to lift the pump If the pump must be removed from the pit, use the rope or wire cable to

Ensure that you have all required fittings and accessories prior to install-

- threadseal tape (hard discharge pipe installations) ing your VF150:

- hose clamps (flexible discharge hose installations)

- cable ties

A larger diameter hose or pipe will offer less resistance to flow, and so

give better performance.

# Operation

Connect the pump to a suitable power outlet.

## Operation Check

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the pit empties, the float switch will fall, and stop the pump. The float switch will rise, and the pump will start, and empty the pit. As Put a small amount of water in the pit (if feasible) to cover the pump.

Ensure that the pump is completely submerged. 1.

into it from another source. 2. This may require that the tank has a little water fed

.riq The float switch will rise, and the pump will start, and empty the 3.

Check that there is adequate pressure and flow from As the pit empties, the float switch will fall, and stop the pump.

the discharge point.

shooting section on the following page. If there are any variations to these outcomes, please see the trouble-