

OWNER'S MANUAL



ONGA®

TANKBUDDY

SUBMERSIBLE PUMP

OTB450A



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

Should you the installer or owner be unfamiliar with the correct installation or operation of this type of equipment you should contact the distributor/ manufacturer for the correct advice before proceeding with the installation or operation of this product.

Relax - you've bought an **ongá**[®]

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

Onga is a brand for reliability, value for money and technological innovation. You will find Onga product wherever people need to move water in 3 broad markets covering:



Residential

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



Agricultural

Innovative Stock and Crop water management solutions for Primary Industries.



Process

Water movement products for Building services, Emergency services and Original Equipment Manufacturers.

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.

4. Our Team of Dealers

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.

TABLE OF CONTENTS

1.	Warnings	4
2.	Technical information	5
3.	Application	5
4.	Installation	6
5.	Fittings and Accessories	6
6.	Operation	7
7.	Electrical	7
8.	Voltage	8
9.	Troubleshooting	9



Warnings



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



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



Freezing conditions will damage the unit, because as water freezes it expands. Ensure that OTB450A is located so that it is not prone to freezing, or ensure that the product is disconnected and dried of water during cold conditions.



OTB450A is electrically connected. Ensure that it is isolated from electrical supply during installation and any subsequent service work.



OTB450A is designed to be used with clean water in a residential application. Do not use it with alternative fluids, specifically abrasive, corrosive or explosive fluids. Do not install or operate your OTB450A in an explosive environment or near combustible matter.



Do not run the OTB450A dry, or with the motor exposed (i.e. out of the water) for long periods. This will harm the pumps seal, and overheat the motor.



Do not lift/move/or carry this pump by the electrical or float switch cables

Technical Information

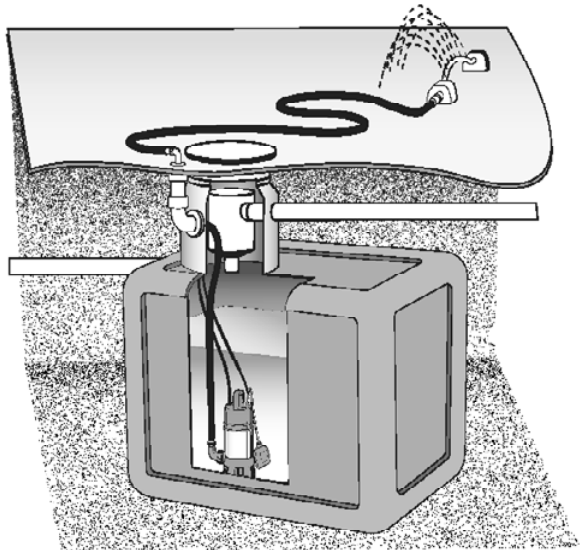
Pump Discharge Connection:	1 1/4" BSPF Thread
Supplied Fitting:	1 1/4" Hose Tail
Power Supply:	230V - 1Ph - 50Hz
Voltage Limits:	209V - 253V (230V \pm 10%)
Maximum Flow Rate:	80 lpm
Maximum Head:	32m
Water Temperature Range:	0°C - 40°C
Power Consumption	800W
FLA (Full load amps):	3.7A
Maximum Submergence:	8m

Application

TankBuddy is designed to provide water from your rain water tank to uses such as toilet cisterns, the washing machine, garden watering, and hot water services. Because it is submerged, TankBuddy operates silently, and it takes up no space at ground level.

Because TankBuddy is a multi-stage pump, it provides more pressure than most submersible pumps, and adequate pressure for all but the largest homes.

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



Installation

Preparation for installation

Read these instructions first

Inspect your OTB450A (TankBuddy) for shipping damage. Report any damage to your Pentair Water dealer. Read the Owner's Manual that was shipped with the pump to ensure correct pump installation.

Securely connect a stainless steel wire cable or a rope to the handle of the pump ensuring that the wire/cable exceeds the safe working load of 10kg.

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

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

Ensure that the float switch can move freely within the tank – incorrect operation and pump failure may occur if the float switch becomes trapped.

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

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

Fittings and Accessories

Ensure that you have all required fittings and accessories prior to installing your OTB450A:

- Threadseal tape (hard discharge pipe installations)
- 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.

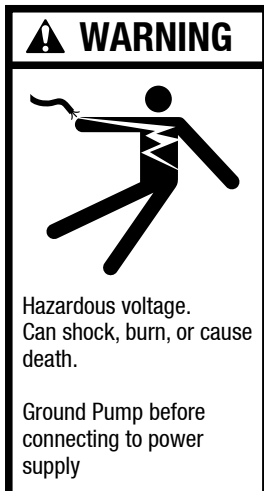
Operation Check

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

1. Ensure that the pump is completely submerged.
2. This may require that the tank has a little water fed into it from another source.
3. The float switch will rise, and the pump will start, and empty the pit. As the pit empties, the float switch will fall, and stop the pump.
4. Check that there is adequate pressure and flow from the discharge point.

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

Electrical



Ground pump before connecting to electrical power supply. Failure to ground pump can cause severe or fatal electrical shock hazard.

Do not ground to a gas supply line.

To avoid dangerous or fatal electrical shock, turn OFF power to pump before working on electrical connections.

Residual Current Device (RCD) tripping indicates an electrical problem. If RCD trips and will not reset, have a qualified electrician inspect and repair electrical system. Onga recommends that a RCD of 30mA trip current be installed and/or be in compliance with local regulations.

Exactly match supply voltage to pump nameplate voltage. Incorrect voltage can cause fire or seriously damage pump and voids warranty. If in doubt consult a licensed electrician.

If the power supply cord for pump is damaged, it must be replaced by Pentair Water, authorised service agent or a similarly qualified person in order to avoid hazard.

Voltage

Voltage at pump must not be more than 10% above or below motor nameplate rated voltage or pump may overheat, causing overload tripping and reduced component life. If voltage is less than 90% or more than 110% of rated voltage when pump is running at full load, consult power company.

Troubleshooting

Symptom	Cause	Remedy
Pump doesn't start	Float switch isn't in the 'on' position	Wait until there is more water in the pit to start the pump
	Not enough water in the pit to get the float above level	
	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

Symptom	Cause	Remedy
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

IMPORTANT

Please attach your sales invoice/docket here as proof of purchase should warranty service be required.

Please do not return Warranty - Retain for your records.

Purchased From

Purchase Date..... Serial No..... Model No.....



1-21 Monash Drive,
Dandenong South, Vic 3175

Australia

National Customer Service: Phone: 1300 137 344
Fax: 1800 006 688
National Dealer Locator: Phone: 1800 664 266
Email: au.sales@pentair.com
Web: www.pentair.com.au

New Zealand

National Customer Service: Phone: 0800 654 112
Fax: 0800 806 642
National Dealer Locator: Phone: 0800 664 269
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