PRODUCT OVERVIEW

The VADA V150 is a single phase drainage pump. It is a handy asset for plumbers, drainers and general homeowners.

CONSTRUCTION

Pump Housing	Cast Iron
Pump Shaft	Stainless steel - 304
Mechanical Seal	Carbon ceramic (dual seal)
Oil Seal	Nitrile
Power Cable	H07RN-F
Float cable	H07RN-F
Motor Shell	Stainless steel - 304
Impeller	Polycarbonate



USAGE LIMITATIONS

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature: 40°C
- Maximum submersion depth: 6m
- Maximum soft solids width: 15mm
- Maximum concentration of fine solids: 1%

WARRANTY

You have purchased a quality product from Reece Australia. This product is covered by a 24 month warranty. This warranty covers faults in the product construction, material and assembly. Faulty products will be repaired or exchanged free of charge. Faulty items become our property.

This warranty does not include faults caused by

- Unsuitable or improper use
- Incorrect installation
- Normal wear and tear
- Inadequate or complete lack of maintenance
- · Chemical, electrochemical or electrical influences

To the maximum extent permitted by law, Reece excludes all warranties other than those set out above. In the event of a warranty claim, we will replace or repair defective products, or pay for the cost of having defective products repaired or replaced, but will not be liable for any injury to any person, damage to any property, any indirect or consequential loss, or in any other respect.

Disclaimer:





TABLE OF HYDRAULIC PERFORMANCE



PUMP PERFORMANCE

Model	Power Consumption (kW)	Voltage	Full Load Current (A)	Starting Current (A)	Pump 'On' Height (mm)	Pump 'Off' Height (mm)
V150	0.18	1~230V±10%	1.75	9.5	500	75



PUMP DIMENSIONS

N/I I - I	Dimensions (mm)								Weight
Iviodei	A	В	C	D	E	F	Suction Port	Outlet Port	kg
V150	165	80	310	357	78	122	1" 1/4 Hose Barb	1" 1/4 F	9





INSTALLATION

Please pay careful attention to the following warnings signs and indications.



Only qualified, licensed personnel should install pump. The electrical installation shall be in accordance with the national wiring rules (AS/NZS 3000) for class 1, IP44 rated products.



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



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



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



The pump 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 pump in an explosive enviroment or near combustible matter.



Incorrectly installed or tested equipment may fail, causing severe injury or property damage.



Fire and burn hazard. Modern motors run at high temperatures. To reduce risk of fire, do not allow leaves, debris, or foreign matter to collect around the pump motor. To avoid burns when handling the motor, let it cool for at least 20 minutes before trying to work on it. A thermal overload switch protects the motor for heat damage during operation.

PREPARING FOR INSTALLATION

Inspect your pump, ensuring that it is well packaged and has not been damaged in transport. If the pump is damaged, report it to the Reece branch where the pump was purchased. Warranty of these pumps is void unless they are operated in accordance with these instructions.

PUMP PROTECTION

Avoid using the electrical cable to lift or transport the pump.

Disclaimer:





INSTALLATION

1. Locating the Pump

Using the handle at the top of the pump, connect a nylon rope (provided) or a stainless steel cable suitable to sustain it's weight. Anchor the other end of the rope or cable so that it balances the weight of the pump as it rests in it's final position at the base of the tank/pit/well.

2. Power Source

If the pump is being installed in a permanent position arrange for an electrician to install a 10A weatherproof outdoor power point near the pump if there is not one there already.

3. Suction

Ensure that the float switch can move freely within the tank/well/pit and cannot become trapped.

The V150 should be positioned on a hard surface that is elevated from the base of of the tank/pit/well. This is to ensure that pumped water is free of sediment which may be present at the base.

4. Discharge

It is advisable to fit a check valve on the discharge piping to prevent fluid from re-circulating when the pump has stopped.

If you are using a hard discharge pipe, thred 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.

The length and diameter of the discharge hoses/pipes will affect the pressure and flow rate at which your pump operates. Pressure ratings of all components must exceed the maximum pressure of the pump by an appropriate safety factor. All pipe work should be supported independently of the pump.

ELECTRICAL INSTALLATION



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



The pump must be supplied by an outlet protected by a residual current device or earth leakage circuit breaker with a maximum rated residual current of 30mA

The pump is supplied with a standard Australian 10 Amperes plug and cord. Connection to the power supply is a matter of inserting the plug into the suitable power point.

Before plugging the power supply cord into the power point, ensure that the power supply cord is supported by the delivery pipes at 3 meter intervals.

The pump will operate when the float is higher than level and stop when the pump float is in the low position.

Supply voltage outside limits specified in Model Data can cause motor overheat leading to overload tripping, reduced component life or seriously damage pump and voids warranty.

For additional protection, the pump must be supplied from an outlet protected by a residual current device – RCD (also known as an Electrical Leakage Circuit breaker – ELCB) with a maximum rated residual current of 30mA.

Disclaimer:





OPERATION



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



The pump 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 pump in an explosive enviroment or near combustible matter.



DO NOT RUN PUMP DRY Ensure that your pump is submerged in water before operating.

START-UP/OPERATION CHECK

When the power is turned on, put a small amount of water in the tank/pit/well, enough to cover the pump completely. The float switch will rise, the pump will start and empty the pit. As the pit emties, the float switch will fall and the pump will stop.

The system is now working correctly. If no water is delivered, check the troubleshooting section.

SERVICE AND MAINTENANCE



Pump should only be serviced by qualified personel. For best results, use only genuine service parts. Be sure to prime pump before starting.



Liquid may be HOT, release pressure with care before servicing.



To avoid dangerous or fatal electrical shock hazard, turn OFF power to motor and remove plug from power outlet before working on pump or motor.

GENERAL CARE AND MAINTENANCE

Under normal conditions V150 pumps do not need any type of maintenance. In order to avoid possible failures, it is advisable to periodically check the pressure supplied and current absorption. A decrease in pressure is a symptom of wear. An increase in current absorption is a sign of abnormal mechanical friction in the pump and/or motor.

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

Disclaimer:





TROUBLE SHOOTING GUIDE

Symptom	Cause	Remedy
Pump does not start	Float switch isn't in the on position	Wait until there is enough 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 enough water in the pit. ensure the 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 can move 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 sunmerged	Ensure pump is covered with water
	Water temperature is too high	Ensure that the 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



