

PRODUCT OVERVIEW

The VADA V75-S submersible pumps are suitable for installation in traditional wells, water deposits, collection tanks, clear watercourses, lakes etc. The V75-S provides a hydraulic system resistant to sand corrosive action.

CONSTRUCTION

Pump Body	X5 CrNi 1810 (AISI 304) stainless steel
Suction Grid	X16 CrNi 16 (AISI 431) stainless steel
Base	Noryl
Impeller	Acetal resin
Diffuser	Polycarbonate with ceramic insert in the point of wear
Diffuser cap	Polycarbonate with stainless steel inserts in the point of wear
Motor Shaft	Hexagonal, in X10 CrNiS 1809 (AISI 303) stainless steel with ceramic insert at the point of wear. AISI 416 for the out of water parts.
Mechanical Seal	Graphite
Counterface	Aluminium oxide
Power Cable	20m H07 RN-F
Non-Return Valve	Integrated - Plastic
Discharge Head	Noryl with 1 1/4" threaded insert
Note - Thrust bearing ring inserted in every stage	



USAGE LIMITATIONS

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature: 40°C
- Maximum submersion depth: 20m
- Minimum diameter of tank/well: 100mm (without float)

MOTOR

- Dry motor with stainless steel casing cooled by pumped liquid
- Level of protection IP 68
- Class F insulation
- Single phase power supply with capacitor permanently activated
- Thermal protection built into the motor winding
- Completely insulated cable connection chamber
- Self-lubricating ball bearings
- Speed of rotation 2850 rpm
- Suitable for continuous use

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

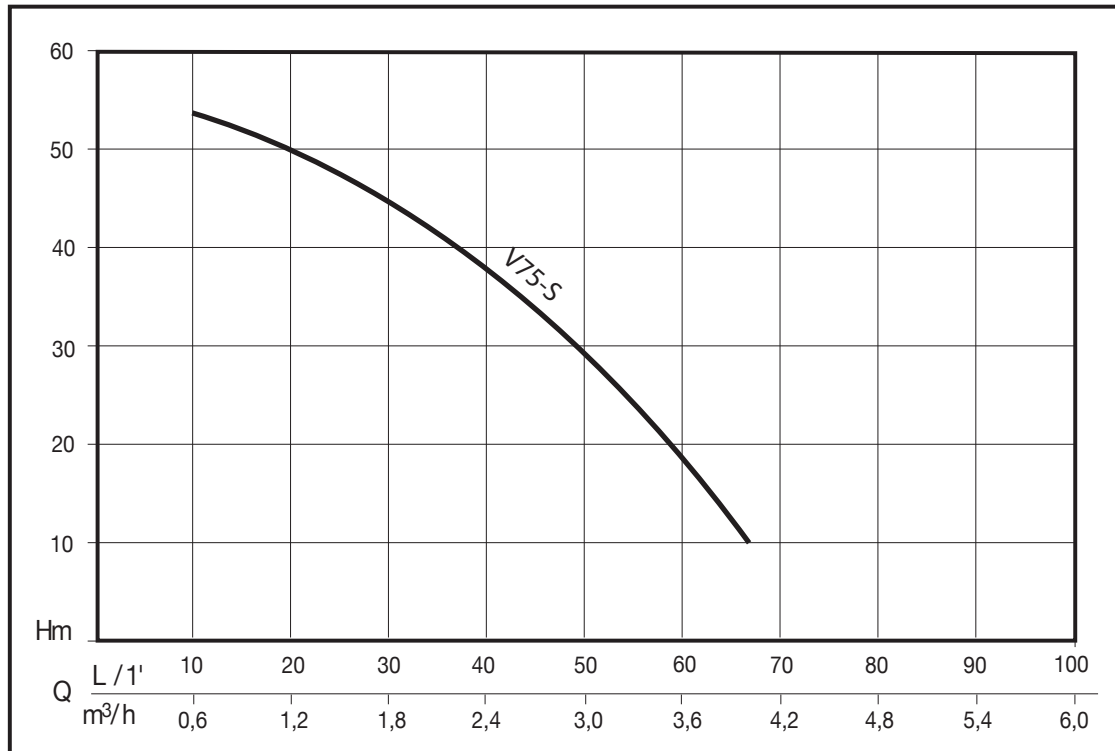
To the maximum extent permitted by law, Reece excludes all warranties other than those set out above. In the event of a warranty claim, we will replace or repair defective products, or pay for the cost of having defective products repaired or replaced, but will not be liable for any injury to any person,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

Disclaimer:

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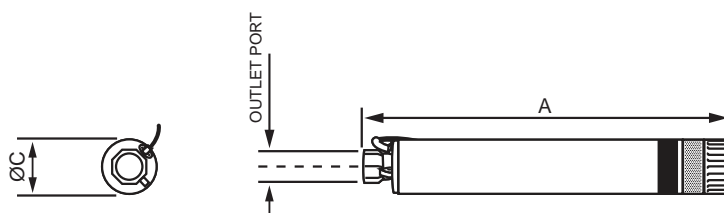


TABLE OF HYDRAULIC PERFORMANCE



PUMP PERFORMANCE

Model	Nominal power		Absorbed power		Voltage	Amp	μF	No. Stages	Q	Discharge head in meters				
	HP	kW	HP	kW						L/1' m3/h	0	20	40	60
V75-S	0.8	0.6	1	0.75	1-220/240V	3.3	16	8	Discharge head in meters	56	49.8	38.1	19	



PUMP DIMENSIONS

Model	Dimensions (mm)				Weight
	A	Ø C	Free Bore	Outlet Port	kg
V75-S	643	98	2mm	1" 1/4 F	9.6

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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.



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 environment or near combustible matter.



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



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



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.



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.



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

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.

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GENERAL INSTALLATION

1. Fitting and Auto Pressure Control or Mains Water Switch Over Device

If you are using a Vada Auto Pressure Control or Mains Water Switch Over Device with your pump, it needs to be mounted externally to the tank in a suitable position in line with the delivery piping. This can be achieved using a mounting bracket. The unit should be mounted vertically in a position which is out of the weather. Depending on the type of plumbing fitting used to connect to the inlet (underside) of the Auto Pressure Control or Mains Water Switch Over Device, the unit may not be clamped firmly to the bracket. We recommend a spacer is fitted where necessary.

For further instructions on connecting these devices, please refer to the manual for your unit. Ensure that the power lead remains disconnected until you have completed the installation process.

2. Locating the Pump

Using the anchor point at the top of the pump, connect a nylon rope (provided) or a stainless steel cable suitable to sustain its weight. Anchor the other end of the rope or cable so that it balances the weight of the pump as it rests upright at the base of the tank/well.

3. Power Source

Arrange for an electrician to install a 10A weatherproof outdoor power point near the pump if there is not one there already.

4. Suction

It is advisable to fit an automatic level control/float switch to prevent the pump from running without fluids.

The V75-S inlet is intentionally raised from the base to prevent the pumping of sediment. To raise this height further, use a length of 3" PVC pipe and insert it into the specially designed base of the pump.

5. Discharge

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

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 fixed cable featuring a weatherproof IEC socket
- A separate power cable which features a weatherproof IEC plug and a standard Australian 10 amp plug.

If connecting directly to a power outlet, simply connect the two supplied cords using the IEC socket and plug. If you are installing a Vada Auto Pressure Control or a Mains Water Switch Over Device, connect the IEC socket from the pump to the IEC plug cord on the device. Before plugging the power supply cord into the socket outlet, ensure that the socket outlet is supported by the delivery pipes at 3 meter intervals.

Ensuring there are no water traces on the connectors push them firmly into each other to ensure intended splash (water) proof protection. This connection shall be separated again only for service purpose and only after the power supply is removed by unplugging the cord from the socket outlet. The socket outlet shall be in dry and flood free location; preferably do not use extension cords for this very reason and because they can cause voltage drop. 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.

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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 environment or near combustible matter.



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

START-UP/OPERATION

Open all valves in the suction and discharge lines. When the power is turned on, the pump will start to pump water. Without an Auto Pressure Control or Mains Water Switch-Over Device, the pump will continue to operate until the power is switched off.

Most applications will incorporate an Auto Pressure Control or Mains Water Switch-Over Device which will stop the pump as soon as it has pressurised the system it is connected to. For instructions on operating your pump with one of these devices, please refer to the manual that came with your unit.

The system is now ready for use. If no water is delivered, check the troubleshooting section.

SERVICE AND MAINTENANCE



Pump should only be serviced by qualified personnel. 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 V75-S 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.

Cleaning the filter

If the sucked water is not perfectly clean, it may be necessary to clean the filter with a steel brush to scrape the dirt accumulated on the external surface. It is also possible to clean the internal section of the filter. Loosen the screw that fixes the filter to the body of the electropump and remove it. Scrape the dirt with a steel brush and rinse it with clean water. If this is not sufficient, have the hydraulic parts cleaned by an authorised centre.

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TROUBLE SHOOTING GUIDE

Symptom	Cause	Remedy
The motor will not start, no water is pumped	No electricity	Ensure that the pump is connected to a live outlet
	Motor protection tripped	Verify the cause and reset the switch. If the thermal circuit breaker has tripped wait for the system to cool down
	Defective condenser	Replace the condenser
	Shaft blocked	Verify the cause and unblock the pump
The motor runs but no water is pumped	The pump is sucking air	Makes sure that the joints are airtight
		Check that the level of liquid has not dropped below the minimum priming level.
	The pump rotates in the wrong direction	Reset the direction of rotation
	Suction grid blocked	Clean the suction grid
	Check valve blocked	Clean or replace valve
The pump stops after running for a short period of time because the thermal motor circuit breaker trips	The power supply does not conform with the data on the nameplate	Check the voltage on the power supply cable leads
	A solid object is blocking the impellers	Call 1800 032 566 for your nearest Reece branch
	The liquid is too thick	See your local Reece branch for an alternative pump

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