

CENTRIFUGAL PUMP INSTALLATION INSTRUCTIONS

These instructions act as a guide only and do not cover every contingency. People not familiar with pumping equipment should seek advice from someone experienced with Onga equipment and pump installation.

Pump Protection: Warranty of these pumps is void unless they are housed correctly and protected from weather, floods, chemicals, dust, vermin, insects etc. Housing used should be weather proof and well vented so that motor heat can escape. To obtain best performance pumps should be installed as close to water as possible. Depending on application they do not have to be bolted down.

Suction & Discharge pipes: Suction should be laid so that it rises evenly from water source to pump. This makes priming easy and avoids airlocks.

Pipes should be the same size or larger than the pump inlet and discharge threads. If piping is longer than 15m (50 ft) then a pipe friction table should be consulted to obtain the correct size.

All pipe joints must be sealed to ensure they are airtight and a foot or check valve must be used in the suction pipe. If using a check valve make sure that it is installed in correct direction.

Priming: To prime pump, remove priming plug and fill pump and suction pipe with water. Replace plug and start pump. If pump pumps a little and stops, then turn pump off, check suction pipe for possible leaks and repeat priming procedure until pump operates satisfactorily.

Electrical: All single phase systems are supplied with cord and plug for connection to 240 volt power outlets - Large systems require a 15 amp plug. 480 volt single and 415 volt 3 phase systems must be equipped with a contactor incorporating thermal overload and wired by an electrician.

Three Phase: Equipment can rotate in either direction depending on wiring, when first connected power should be flicked on and off. If direction is incorrect interchange any two power connecting wires.

Suction Limit: No pump can suck water theoretically more than 30 feet (9 metres) vertical, and the practical limit is about 20 feet (6 metres) depending on installation. If pump fails to operate check vertical suction lift.

Spa Baths: If this pump is to be used to operate a spa bath, then it should be installed to the bath manufacturers recommendations which should at least cover the following points.

1. Pump must be installed below bath water level so that it will prime.

2. Pump must not be run dry or damage to pump seal and parts can result.

3. Pump inlet from bath should be protected to stop soap, hair or foreign matter entering and blocking the pump.

4. Possible health authority regulations should be complied with in regards to drainage of the pump and pipe work.

5. Possible electrical authority regulations should be complied with in regards to type of motor enclosure, type of switch used and distance away from bath.

Moulded Pumps: Moulded pumps can be damaged by connected piping.

Pipe should be supported so that the pump casing is not strained by the pipe weight or misalignment.

Most onga pump threads are male and we recommend the use of moulded pipe sockets to connect pump to pipe. This protects the pump against possible damage caused by the over tightening of the pipe.

SERVICE

Pump runs but fails to pump water:

Check for an air leak in suction pipe.

The pump has not been filled with water.

Water has evaporated leaving pump dry.

Foreign matter has clogged the impeller or pipe.

Electric motor not operating:

No power.

Thermal overload tripping - There are two types.

1. If there is a red button on the pump motor then the thermal is manual. Turn off power and push to reset.

2. On smaller pumps the thermal is automatic and resets after the pump motor has cooled.

If thermal continues to trip there is something wrong with the pump which should be corrected before major repair cost occur.

Fouled impeller, jammed pump, fuse blown, float switch not operating, motor burnt out.

Onga provide service motors for their pumps so that pump down time can be minimised. Service motors are covered by a 6 month warranty.

Pump should not be connected to other than the rated voltage.



Rainbow Pool Products

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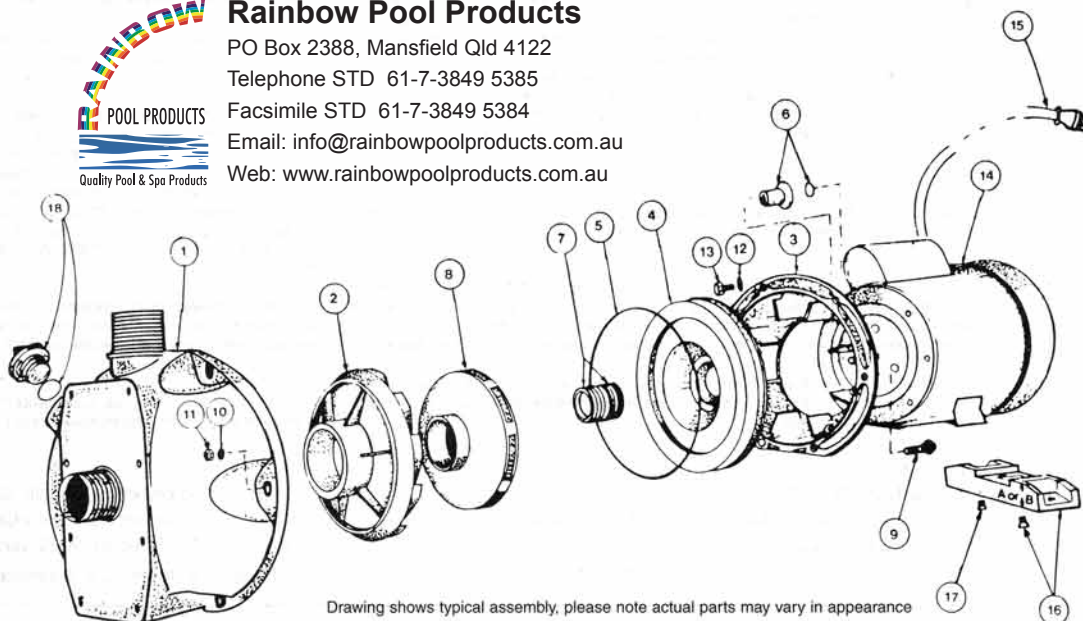
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1. Casing
2. Diffuser
3. Yoke
4. Baffle
5. 'O' Ring
6. Shaft Sleeve & 'O' Ring
7. Seal
8. Impeller
9. Coach Bolt (set of 10)
10. Washer (set of 20)
11. Nut (set of 10)
12. Washer (set of 20)
13. Screw (set of 10)
14. Motor (see motor sheet)
15. Lead
- 16A Base 1 7/32" & Screws Kit
- 16B Base 1 3/32" & Screws Kit
17. Screw (set of 10)
18. Priming Plug & 'O' Ring



Drawing shows typical assembly, please note actual parts may vary in appearance