

REEFE

PUMPS AUSTRALIA BETTER · FASTER · EASIER

REEFE RHB1590 Hot & Cold Water Booster Pump



CODE	MODEL	POWER (230-240V)		MAXIMUM			
		AMPS	P1 (W)	FLOW (L/min)	HEAD (m)	LIQUID TEMP	MAINS PRESSURE
18811	RHB1590	0.48	105	23	9	+2 - +60°C	500kPa**

SIZE	
Bare Pump	With Union
PORT TO PORT	LENGTH
160mm	215mm
PORTS	PORTS
20mm/¾" MBSP	13mm/½" MBSP

**** Max Mains Pressure 500kPa as per AS 3500.1-2018**

CIRCULATOR PUMP FUNCTION AND APPLICATION

1. Maximum Mains Pressure 500kPa as per AS 3500.1
2. Maximum water temperature of 60°C !! IMPORTANT !! Tempering valves should be installed in accordance with Australian Standard AS3500.4.2 Clause 1.6. and manufacturer's instructions.
3. The RHB1590 is designed for boosting water pressure in domestic potable cold and hot water applications.
4. The pump provides additional pressure to showers, taps and similar outlet points.
5. The pump incorporates a flow switch which starts or stops the pump when a tap is turned on or off, when the toggle switch is in position II.
6. MANUAL operation is only used in very low flow situations where the flow is less than 2L/min, the user must turn the pump on when there is demand, and off when there is no demand, or the pump will run continuously without stopping and will destroy the pump. MANUAL is selected when toggle switch is in position III.
7. Ensure the pump is sized correctly according to the pressure boost required. Note that the longer and smaller the pipes, the less pressure you will have at outlets.
8. The pump must be installed in the correct orientation, refer to page 5
9. Always bleed the air out of the pump before turning it on, loosen the S/S screw on the face of the motor and allow air to escape, when water comes out tighten the screw again.
10. The pump must be protected from the weather, if used outdoors it must have a weatherproof shelter installed.
11. It is the installers responsibility to ensure that the installation is compliant with relevant PLUMBING and ELECTRICAL regulations and LOCAL COUNCIL or SHIRE regulations or by-laws.
12. It is not recommended to mix different brands of pumps in the one site, it can lead to water hammer and destroy the pump impellers, this situation is not covered by warranty.

WARNING!! This pump is not approved nor intended for use in swimming pools, spa pools or spa baths.

TIP: use pipe lagging to reduce heat loss in the pipework

IMPORTANT!!! The booster pump must be installed before the first point of discharge, or if this is not possible you must fit a WaterMark approved check valve (non-return valve) on the suction side of the pump to prevent back-flow. Otherwise the pump will malfunction, this situation is not covered by warranty.

IMPORTANT NOTICE

This pump is not suitable for outdoor use it must be protected from the weather by way of a weatherproof enclosure. Failure to do so voids all warranty.

This pump must not be run dry, it must be installed using barrel-union connections, by a licenced person who is authorised to install this type of device. It **MUST** be installed so that if it were to leak, fail to operate, or run without stopping, that it would **NOT** cause damage or loss. It must be connected to an electrical circuit with an RCD (Safety Switch) having a rated residual operating current not exceeding 30mA. Disconnect pump from power before servicing or repairing the pump. Read and follow the instructions, warranty is void if instructions are not followed.

IMPORTANT!!

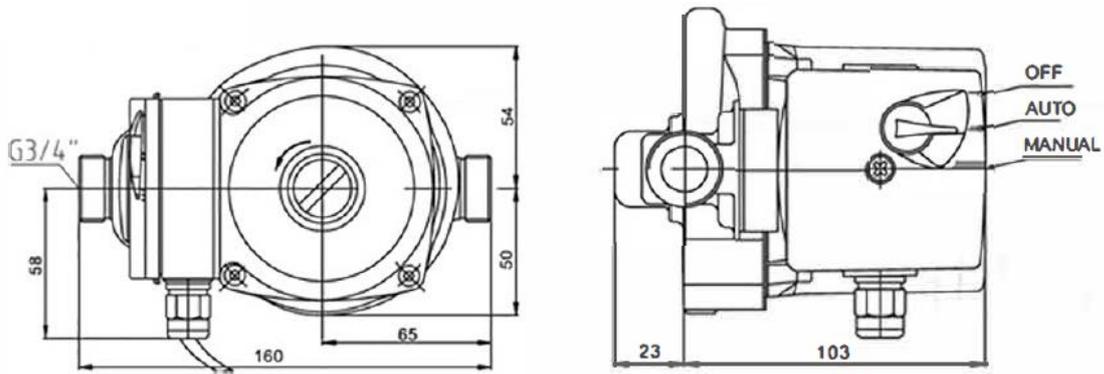
The pump bearing is lubricated by the pumped water. This pump cannot run dry for periods exceeding 10 seconds. Do not pump any flammable or corrosive liquids.

DANGER!!

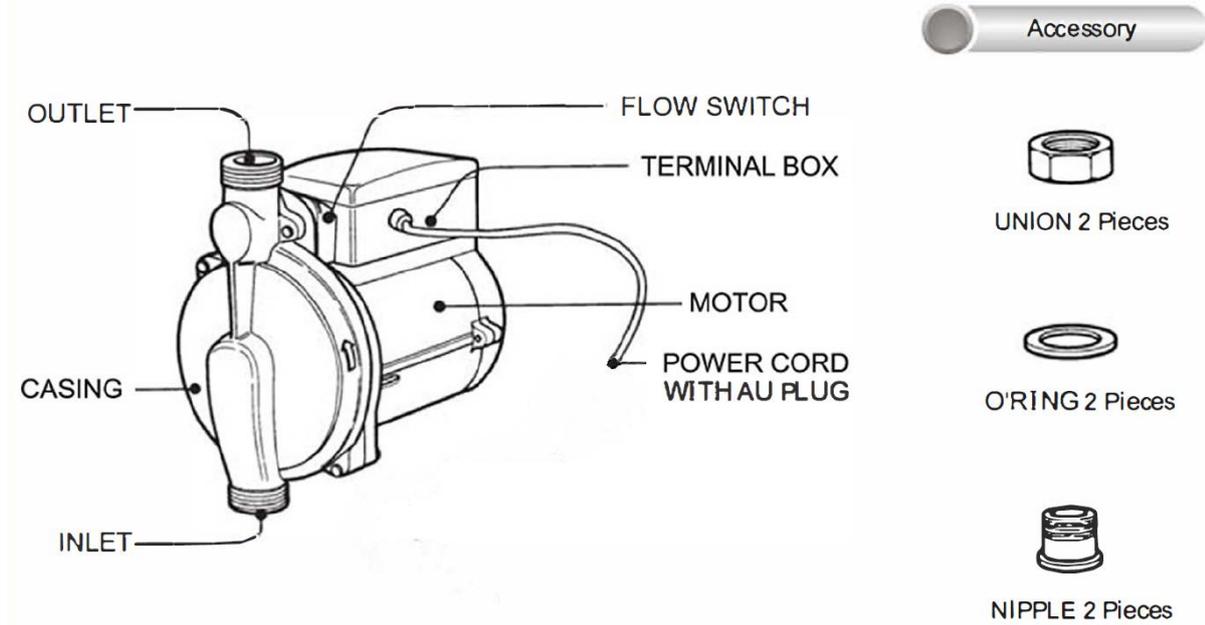
USE FOR CLEAN FRESH WATER ONLY WITH MAXIMUM TEMPERATURE OF 60°C!!

You **MUST bleed the air out of the pump before turning on the power!**

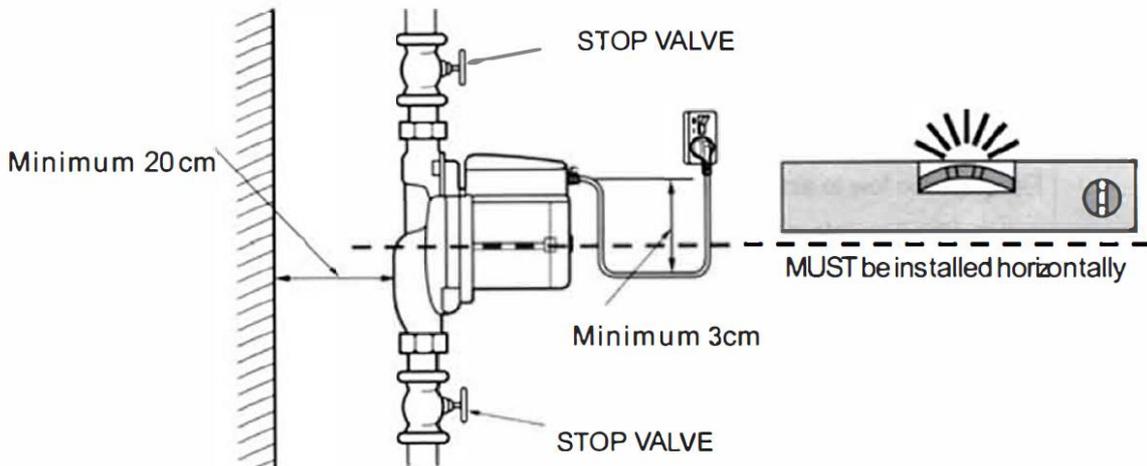
Dimensions:



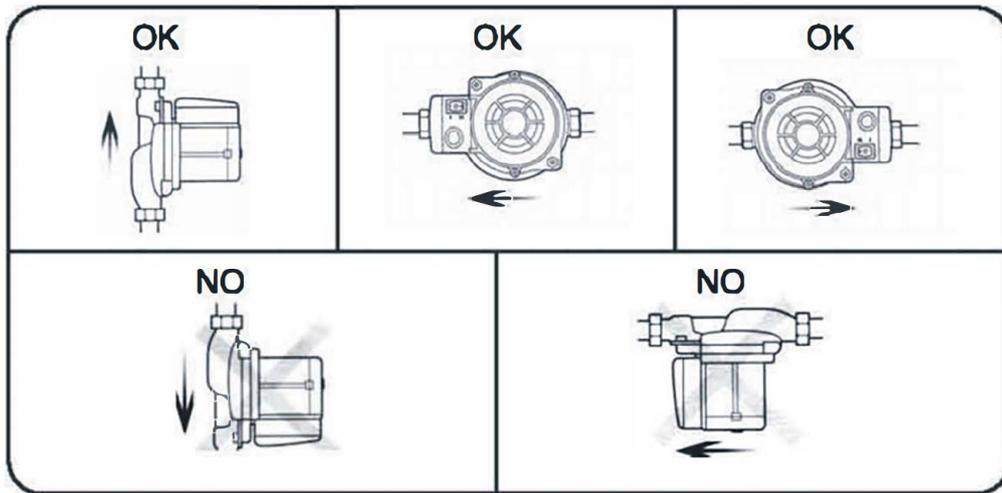
Pump Parts Description and Accessories:



Installation Guide:

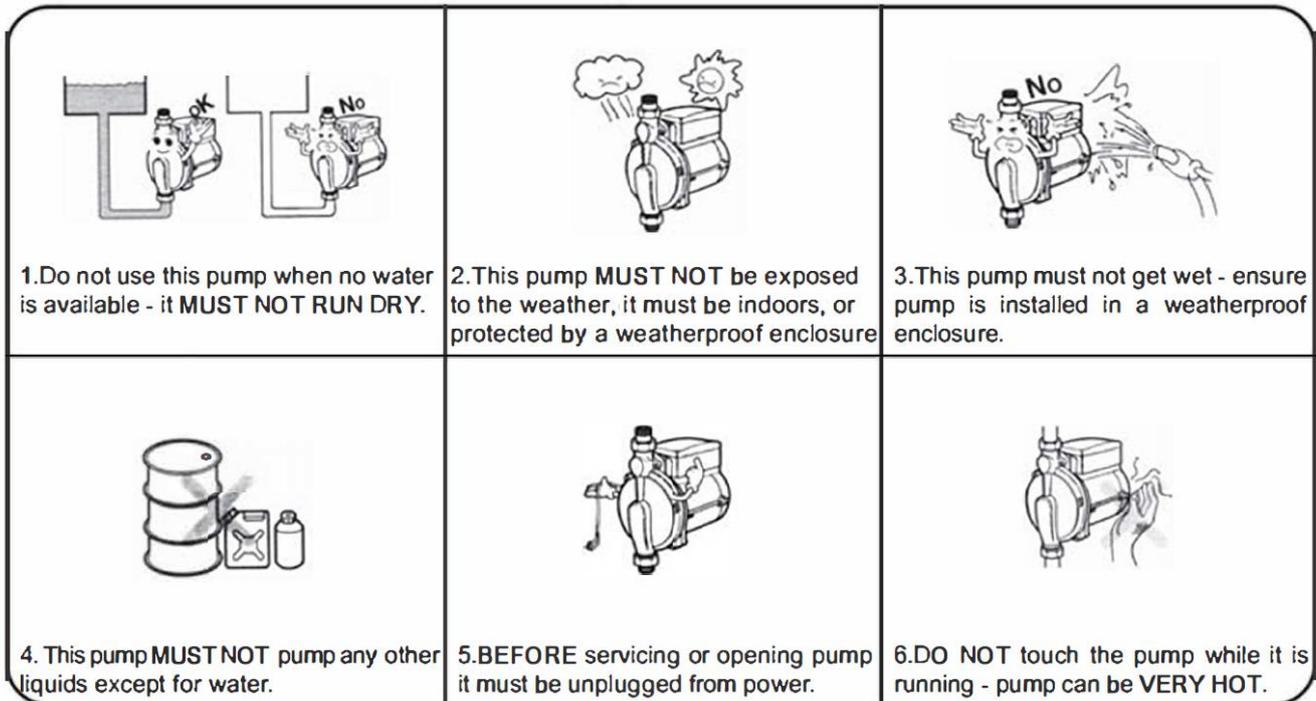


ORIENTATION MUST BE CORRECT



WARRANTY IS VOID IF ORIENTATION IS INCORRECT

Warning!!



WARNING!!

This pump WILL NOT TURN OFF if switched to **MANUAL** (position II) mode – it will continue to run, even when there is no water.

ENSURE that if **MANUAL** mode is used, it is turned back to **AUTO** (position III) or **OFF** as soon as it is no longer required.

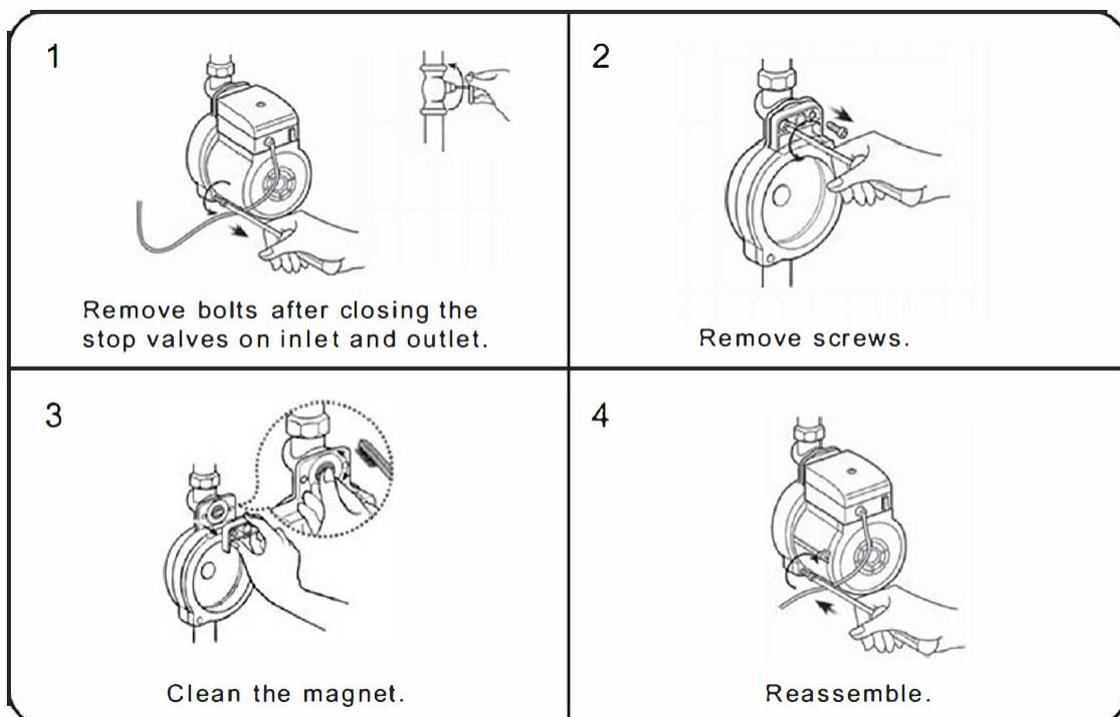
Cleaning The Flow Switch Magnet:

Cleaning the Flow Switch is required to be done every 6 months to ensure no debris build-up occurs – this will affect reliability of pump use

REMOVE PLUG FROM POWER POINT BEFORE TOUCHING PUMP

ALLOW PUMP TO COOL BEFORE OPENING

ENSURE INLET AND OUTLET BALL VALVES/STOP VALVES HAVE BEEN CLOSED BEFORE OPENING PUMP



CHECK FOR LEAKS AFTER REASSEMBLING PUMP

Troubleshooting:

Fault	Cause	Remedy
Pump does not start.	Selector in Off (pos. I)	Turn selector to Auto (pos. II) or Manual (pos.III).
	Flow rate too low to activate flow switch (the flow rate must be higher than 2L/min).	Turn selector to Manual (pos.III).
	Supply failure.	Check fuses and possible loose electrical connections.
	Impurities in the flow switch.	Remove Motor Assembly, flow switch cover and clean the part.
Pump is running, but does not produce any pressure.	Main valve closed.	Open main valve.
	Air in the system.	Leave the pump running for a few minutes with tap turned on.
	Air drawn into s/pipe. Impurities in the pump.	Dismantle and clean the pump.
Noise in pump.	Air in the system/pump.	Leave the pump running for a few minutes with tap turned on.
Pump does not stop when tap is turned off.	Selector in Manual (pos.III)	Turn selector to Off (pos.I) or Auto (pos.II).
	Impurities in the flow switch.	Remove Motor Assembly, flow switch cover and clean the parts.

WARNING!!

This pump WILL NOT TURN OFF if switched to MANUAL (position II) mode – it will continue to run, even when there is no water.

ENSURE that if MANUAL mode is used, it is turned back to AUTO (position III) or OFF as soon as it is no longer required.

Warranty is void for damage caused by pump being left in MANUAL mode (position III).



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WARRANTY CONDITIONS

1. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. If you are a consumer as defined by the Australian Consumer Law, you are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. If you (the purchaser) do not fall within the meaning of 'consumer' in the Australian Consumer Law the provisions of the Australian Consumer Law will not apply to you. The following conditions form part of the instructions and do not over-ride your statutory rights.
2. 2 Year Warranty against Defects: This warranty covers failure due to manufacturing defects for REEFE Hot Water Circulator Pumps purchased from Ascento Group Australia, and used in mainland Australia. We shall replace the pump when we ascertain that the fault is due to manufacturing defect, during the 2 year period from date of purchase. If you require a refund, you must return the item to the original place of purchase.
3. Faults or losses or failure caused due to: Accidents, misuse, lack of maintenance, not following the instructions, damage caused by lightning strike, or power surges, or power spikes or power brownouts, or operating the pump on power other than correct mains power, or operating the pump on power supplied by a domestic generator, power supply of voltage less than 230V, power supply of voltage above 240V - are not covered by warranty. Improper use is defined by us, at our sole discretion.
4. The complete Impeller set (including shaft), Seals and O-rings are all wearing items and therefore are not covered for "normal wear and tear". They are covered by warranty if they are faulty due to a manufacturing defect.
5. Warranty will be void if any tampering or removal of identification labels or electrical cables has occurred, or any non-genuine parts have been fitted, or repairs have been carried out by unqualified persons. No warranty applies for goods sold or used for HIRE or RENT or LEASE. No warranty applies for pumps used on MINE SITES, HAZARDOUS LOCATIONS, and REMOTE LOCATIONS, and other UNSUITABLE LOCATIONS, as defined by us, at our discretion.
6. The Warranty excludes accidental or deliberate breakages, normal wear and tear, fading or breakdown due to the effect of exposure to sunlight or chemicals or any other external factor that may affect the life of the product.
7. This product is guaranteed as fit for the purpose of pumping CLEAN HOT WATER in normal domestic use. Performance data quoted is generally from test data and is approximate and does not take into account factors in the installation such as loss of pressure and flow due to pipework & pipe-fittings & valves. It is the purchaser's responsibility to ensure that the product is fit for their purpose and of sufficient size & performance for their application.
8. IMPORTANT: No electrical appliances last forever. Therefore ALL installations of pumps must be constructed to allow the owner to easily remove the pump for servicing, and to easily remove the pump for replacement, warranty replacement or upgrading. A ball-valve or gate-valve must be fitted on both the delivery and the discharge sides of the pumps. Warranty replacement does not include costs of removal and re-installation as we have no control over the method of installation.
9. Before installing or servicing disconnect from the power supply.
10. The Pump MUST NOT be installed in any manner that if it were to leak, or fail to work, that it would cause damage or loss to property or persons. It MUST be installed in a well-ventilated and drained area. All warranty is void if this condition is not heeded and no liability can be accepted in the case of damage or loss caused by failing to comply with this condition.
11. The Pump must be correctly earthed and connected to a circuit with an integral RCD (safety switch) in the circuit breaker, in accordance with the Electrical Regulations or Standards that are applicable.
12. Pumps used in SUITABLE commercial or industrial applications are covered by a replacement warranty only, when proved to have a manufacturing defect that has caused the pump to fail. No warranty applies when used in unsuitable applications, which is defined by us, at our discretion.
13. RIGHT TO INSPECT: We reserve the right to inspect the product and installation, prior to accepting any warranty claim. We may inspect by use of drone technology, with property owners permission. We also reserve the right to request and require photographs or video evidence in lieu of physical inspection, at our sole discretion. Refusal of inspection cancels all warranty and liability.
14. This warranty does not exclude any non-excludable rights according to Australian Law. However any condition that is made void by Australian Law does not void the remaining conditions, which shall stand unaltered.
15. In the case of a fault, refer to the Trouble Shooting Guide first. If these steps do not rectify the problem, and the fault is due to a manufacturing defect or product failure not caused by improper installation, improper use or lack of maintenance, return the faulty appliance to the original place of purchase with proof of purchase for replacement or refund. Or mail us at PO BOX 650 MORNINGSIDE QLD 4170 or send an email to csv@ascento.com.au with copy of your purchase receipt, a description of the problem, and your name and address and phone number - we will review your request and send you a replacement directly if we accept your warranty claim. Or call us on 1800 807 604 with the above information; however we will always require a copy of your purchase receipt. If an exact replacement is not available, the closest equivalent product will be supplied at our discretion. Do not send the product to us unless we ask you to do so.