

2 Speed Pool Pump Installation and Operation Manual



This equipment must be installed and serviced by a qualified technician. Improper installation can create electrical hazards which could result in property damage, serious injury or death. Improper installation will void warranty.



INSTALLERS NOTE:

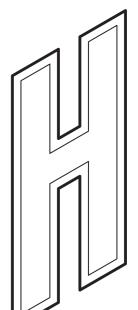
The supplied manual provides the consumer valuable information about the installation and ongoing safe operation of this product. Once you have handed over or installed this product the manual must be given to the owner or operator of this equipment.

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For your protection, please read these important instructions first.



This equipment must be installed and serviced by a qualified technician. Improper installation can create electrical hazards which could result in property damage, serious injury or death. Improper installation will void the warranty.

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Swimming Pool Pump Installation and Operation Manual

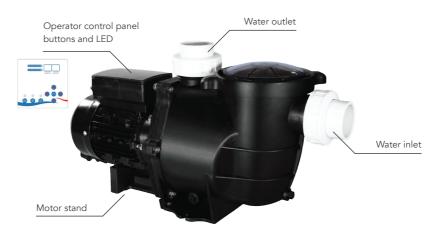
• 2 Speed Pool Pump

1.0 INTRODUCTION	4
2.0 GENERAL SAFETY RULES	4
3.0 OPERATOR CONTROL PANEL	6
4.0 LOCATION	7
5.0 INSTALLATION	7
6.0 ELECTRICAL CONNECTION	8
7.0 PRIMING	9
8.0 MAINTENANCE	9
9.0 REGULAR VERIFICATION	10
10.0 PUMP SPECIFICATIONS	11
11.0 TROUBLESHOOTING	12
12.0 PUMP PARTS	14
13.0 WARRANTY	15



1.0 INTRODUCTION

- 1.1 Congratulations on your recent purchase of a HY-CLOR pump. Please take a moment to read through the entire manual before installing your new pump. Your pump must be installed and operated as specified.
- 1.2 HY-CLOR 2 speed pool pump is well suited for all of your pool, spa, cleaner, waterfall and other water applications. Using the control panel, choose high-speed running (2850 RPM) or low-speed running (1425 RPM) and also set the running hours. Advanced energy conservation features ensure that your filtration system is operating at peak efficiency.



2.0 GENERAL SAFETY RULES

- 2.1 If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- 2.2 The pump must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.
- 2.3 The products mentioned in this manual are specially designed for the pre-filtering and re-circulation of water in swimming pools and spas.
- 2.4 They are designed to work with clean water at a temperature not exceeding 35°C.
- 2.5 The installation should be carried out in accordance to the safety instructions of swimming pools, especially Standard HD 384.7.702, and the specific instructions for each facility.
- 2.6 The compulsory rules on accident prevention should be carefully followed.

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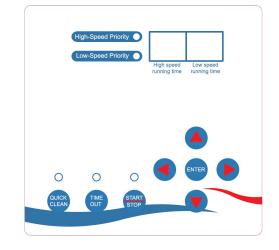
- 2.7 Any modification of the pump requires the prior consent of the manufacturer. Original replacement parts and accessories authorised by the manufacturer ensure a high level of safety. The manufacturer of the pump assumes no liability for the damage and injuries caused by unauthorised replacement parts and accessories.
- 2.8 During operation, some parts of the pump are subject to dangerous electric voltage. Work may only be performed on each pump or on the equipment connected to it after disconnecting them from the main power and after disconnecting the starting device.
- 2.9 The user should make sure that assembly and maintenance tasks are carried out by qualified authorised persons and that these persons have first carefully read the instructions for service and installation.
- 2.10 The operating safety of the pump is only guaranteed if the installation and service instructions are correctly followed.
- 2.11 The limit values stated in the technical table should not be exceeded under any condition.
- 2.12 In the event of defective operation or fault, contact the technical support department of the manufacturer or its nearest authorised agents.
- 2.13 If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person to avoid a hazard.
- 2.14 The pump must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.
- 2.15 Children should be under close supervision to prevent them from playing with the pump.
- 2.16 This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the pump by a person responsible for their safety.
- 2.17 Children should be supervised to ensure that they do not play with the appliance.
- 2.18 The pump must be protected from running dry.



3.0 OPERATOR CONTROL PANEL

3.1 PUSH-BUTTON AND FUNCTION

- 3.1.1 Connect the power and ensure the pump is in stop status.
- 3.1.2 Push the enter button to activate the cursor.3.1.2.1 Use the arrow buttons to move the cursor.3.1.2.2 Blinking button is where the cursor is.
- 3.1.3 The pump operates on a **24-hour countdown**, which starts when power is connected and the start button is pushed.
 - 3.1.3.1 Both high-speed running time and low-speed running time cannot total over 24.
 - 3.1.3.2 The Pump Uses **Hour Increments only**.
- 3.1.4 The default operation of the pump is 3 hours on high and 6 hours on low speed, with a low-speed override option.



- 3.1.5 If the pump is in low-speed override mode, it will run for 5 minutes on high speed, then switch to low speed for the remaining cycle indicated in the low-speed running time, then it will switch to high speed for its remaining time before turning off.
- 3.1.6 If the pump is in high-speed override mode, it will run for the indicated high-speed running time before switching to low speed for the remaining cycle.
- 3.1.7 The pump will always reset to zero if power is lost, meaning it will start the countdown from the beginning, even if an external timer or chlorinator is used.
- 3.1.8 Please note: To program the Pump you will need to plug it into power and hit the start-stop button to Stop the pump then you can program the hours from there using the arrow keys. Remember to hit start again to re-enable the pump after programming it.

Remember to follow these steps to program and operate the pump effectively. Example: The pump is Turned on at 8:30am. It Will then work for 3 hours on high then swap to low speed at 11:30 am and run at low speed for 6 hours meaning it will turn itself off at 4:30pm. It will then wait until the remaining 24 hours have counted down and will turn back on at 8:30am the next day.

3.2 INDICATOR LIGHT

- 3.2.1 HIGH SPEED OVERRIDE: Starting with high-speed program; after finishing high-speed programming time, automatically change to low-speed program
- 3.2.2 LOW SPEED OVERRIDE: Starting with high-speed for 5 minutes (to exhaust air), changing to low-speed program; then running in high-speed program
- 3.2.3 QUICK CLEAN: Fast set for running in high-speed 3 hours; the same key to stop function
- 3.2.4 TIME OUT: For pause; the same key to wake up
- 3.2.5 START /STOP: For start/stop, light on means start
- 3.2.6 HIGH SPEED RUNNING TIME: Time install for running in high speed (by hour)
- 3.2.7 LOW SPEED RUNNING TIME: Time install for running in low speed (by hour)

Notice: Sum of high-speed running hours and low-speed running hours should not exceed 24 hours (24 hours is ok)

3.2.8 NIXIE TUBE: Flash in high speed means pump is running in high speed, flash in low speed means pump is running in low speed, not flashing means idle condition

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3.3 SIMPLE FAILURE RECOVERY

3.3.1 Power LED does not light after power on, or pump does not start-up after switch on. Please check:

a) If wiring connections are all in order,

b) If 115V/230V snap switch is on the right choice of AC power,

c) If fuse wire is damaged and needs replacement, or if loose and needs fastening,

3.4 ADDITIONAL SETTINGS

- 3.4.1 Starting with low speed, motor will run in high speed for around 5 minutes,
- 3.4.2 Press any button on the control panel to activate screen,
- 3.4.3 Under STOP status, motor will enter a standby mode after 30 seconds,
- 3.4.4 Program setting example:
 - a) Running pump from high speed to low speed, setting time with 03 06, start pump at 8:00 am. The pump will run for 3 hours on high speed, then change to low speed for 6 hours
 - b) Start pump at 8:00 am, pump will run on high speed from 8:00 am to 11:00 am
 - c) The pump will then revertto low speed from 11:00 am to 17:00 pm
- 3.4.5 The Quick Clean button will turn the pump on for a certain period of time (outside the scheduled cycle).

4.0 LOCATION

- 4.1 The pump can be installed up to 12m from the pool or spa and up to 1m above or below the water surface level.
- 4.2 The pump should be installed on a secure and level concrete (or similar) base at least 600mm x 300mm in size, in a location that cannot be flooded by storm water or accidental immersion.
- 4.3 The rear of the motor should be no closer than 150mm from a wall, fence or barrier to allow adequate air flow and access if required.

5.0 INSTALLATION

5.1 A few simple precautions during installation will ensure years of trouble-free operation:

a) The pump suction line should not be smaller than 40mm PVC. The pump comes with 50mm PVC Tail and union set.

b) The suction line is to have as few bends or elbows as possible. There must not be any air traps on the suction line.

c) Installation needs to be on solid flat foundation preferably 600mm x 300m in size.



d) The pump electrical cable must be wired for the proper voltage and current inaccordance with the wiring instructions.

e) All wiring (electrical) work must be carried out by licensed electricians and must beinstalled in accordance to the local codes.

f) The motor must be grounded.

g) The weight of the plumbings and fittings is to be independently supported and notcarried by the pump.

h) The maximum total head (Hmax) of the pump (in metres) shown on the pump label should be noted by the installer.

i) The permissible temperature is up to 35°C. The pump should never be operated outside of this temperature range, or damage may occur.

j) DO NOT ALLOW THE PUMP TO RUN DRY AS THIS MAY CAUSE DAMAGE TO THE IMPELLOR AND MECHANICAL SEAL, VOIDING WARRANTY. Any water ingress will not be covered by warranted.

6.0 ELECTRICAL CONNECTION

- 6.1 Check that the information on the nameplate corresponds to the power supply.
- 6.2 Employ a competent electrician to ensure wiring installation is made in accordance with any local electrical codes. Every motor requires either a fused disconnect switch or a circuit breaker. A SINGLE PHASE MOTOR has a built-in thermal overload switch.



IMPORTANT ELECTRICAL NOTICE

The electrical installation is to be done by a licensed electrician.

Each pump requires a circuit breaker to separate the pump from the electrical supply. The open contact distance of the circuit breaker is to be **no less than 3mm**.

The pump is to be supplied by an isolating transformer, or supplied through a residual current device (RCD) with a rated residual current not exceeding 30mA.

Check the pump's name plate for the following: Voltage, Amp draw and Cycle.

The power cord, including the ground wire, shall have a quality of 245 IEC66 (H07RN-F) for models greater than 1kW power input.

For models less than 1kW input the quality shall be of 245 IEC57 (H05RN-F). All installations must comply with local codes, based on IEC 364-7-702 requirements.

PAY ATTENTION TO THE MINIMUM GAUGE GIVEN IN THE CHART OF THE TECHNICAL MANUAL

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7.0 PRIMING

- 7.1 The pump will prime and re-prime providing the filter tank water, and there is sufficient supply from the suction point.
- 7.2 If you lose water from the filter tank it will be necessary to re-fill it before starting.

a) Remove the translucent lid and fill the filter tank with water.

b) Replace the lid ensuring the o-ring is correctly located and lubricated with silicone based lubricant and start the pump.

7.3 After you have done this allow a few minutes (maximum) running for the pump to start delivering water. You might need to repeat this process three or four times to remove any potential air gaps in the suction line.



High suction lift or long suction lines will require additional time to prime and can severely affect the performance of the pump. If the pump will not prime, repeat steps a) and b) above.

HY-CLOR 2 speed pool pump is required to be worked or installed below the water level. Mechanical seals if running dry can be damaged rapidly and may need to be replaced.

ENSURE that there is always adequate water in the filter tank before you start up. If you are unable to prime the pump please see the troubleshooting guide.

ENSURE that all suction and discharge valves are open before you start the pump, otherwise this will result in damage to the pump.

8.0 MAINTENANCE

8.1 The strainer basket in the filter tank should be inspected and cleaned at regular intervals.

- a) Remove lid and lift out basket.
- b) Remove debris and hose off with clean water if necessary.

c) Inspect the lid gasket, lubricate with silicon-based grease only if needed. If it is damaged, please replace.

- d) Replace the strainer.
- e) Re-prime the filter tank.
- f) Correctly locate the o-ring.
- g) Replace the lid (hand tighten) only.
- h) Switch on pump.
- 8.2 In climates where the pump may be exposed to the elements, care must be taken to ensure the pump is protected from damage.
- 8.3 It is recommended that if the pump is not used during the winter period, it should be drained completely and stored in a dry location. Do not replace the drain plug. Store it in a safe place when not in use an example would be to store plug in the filter tank basket.

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- 8.4 When you re-activate the pump ensure all seals and o-rings are in operational condition. Re-grease if necessary, and replace if unsure of condition.
- 8.5 Check that the motor shaft moves freely before reactivation.



- 1. When connecting electric cables to the motor of the pump, be careful to correctly arrange them inside the connection box. Verify that no bits of cable are left inside the box on closing it. See that the ground wire is correctly connected. When connecting the motor, follow the wiring diagram supplied with the pump.
- 2. Be especially careful that no water enters the motor or electrical parts under voltage.
- 3. In the event that the planned use is not as specified, adaptations and supplementary technical rules may be necessary.
- 4. Before starting the pump, verify the calibration of the electrical protection devices of the motor and that the protections against electrical and mechanical contacts are correctly positioned and attached.
- 5. It is advisable to follow the steps listed below before handling the pump in any way:
 - a) Turn off the voltage to the pump.
 - b) Lock starting devices.
 - c) Verify that there is no voltage in the circuits, including ancillary devices and auxiliary circuits.
 - d) Wait until the motor stops completely.

The above list should be considered indicative and not binding for the purpose of safety; specific safety rules may exist in particular regulations.

9.0 REGULAR VERIFICATION

- 9.1 Regularly verify the correct attachments of the mechanical parts and of the support screws of the pump.
- 9.2 Regularly verify the correct position, attachment and condition of the supply cables and of the insulating parts.
- 9.3 Regularly verify the temperature of the motor. In the event of any excessively high temperatures, stop immediately and have it repaired.
- 9.4 The vibration of the pump. In the case of any excessively high vibrations, stop immediately and have it repaired.



Owing to the complexity of the cases covered, the instructions for installation, use and maintenance contained in this manual, do not attempt to examine all possible and imaginable cases of service and maintenance. If supplementary instructions are required or if specific problems arise, do not hesitate to contact HY-CLOR.

10.0 PUMP SPECIFICATIONS

Pump	Max. water temp.	Max. pool size	Input voltage
2 speed pool pump	35 ℃	75,000 L	220-240 V

Head	Horsepower	Flow rate	Output power	Amps
5 m (min.)	0.5 hp (low)	136.8 L/min (low, at 3.44m head)	(-)	2.0 A (low)
18 m (max.)	1.5 hp (high)	256.8 L/min (high, at 12m head)		5.7 A (high)

11.0 TROUBLESHOOTING

SYMPTOMS	PROBABLE CAUSE	WHAT TO DO
LED does not light after power on	Wiring connects are wrong, or fuse wire is damaged/bad contact	Make sure the wiring connections are all right; if fuse wire is damaged it needs replacement, or if loose it needs fastening.
Pump will not prime	Suction air leak	Make sure water level is correct through suction points. Ensure baskets and strainers are free of debris. Tighten all fittings/unions on the suction side of the pump, remove and replace o'ring seal. Check lid has no hairline cracks.
	No water in the pump	Make sure the pump basket is full.
	Closed valves or blocked lines	Open all valves in system, clean skimmer and pump basket, check pump impeller for blockages.
Motor will not run	No power to motor	Check that all electrical switches are on. Ensure the circuit breakers are properly set. Check if timer is set properly. Check motor wiring at terminals.
	Pump jammed	With power switched off, turn pump shaft (it should spin freely).
Low flow	Dirty filter	Backwash or clean cartridge.
	Dirty skimmer and pump strainer	Clean skimmer and pump strainer.
	Suction air leak	Make sure water level is correct through suction points. Ensure baskets and strainers are free of debris. Tighten all fittings/unions on the suction side of the pump, remove and replace o'ring seal. Check lid has no hairline cracks.
	Closed valves or blocked lines	Open all valves in system, clean skimmer and pump basket, check pump impeller for blockages.
Motor runs hot	Low or incorrect voltage	Supply to be corrected by electrician. Motors running hot-to-touch is normal. Thermal overload protector will function to turn them off if there is an overload or an excessive high temperature problem.
	Installed in direct sunlight	Shield from weather.
	Poor ventilation	Do not tightly cover or enclose motor.

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SYMPTOMS	PROBABLE CAUSE	WHAT TO DO
Noisy pump	Bad bearing	Contact HY-CLOR or a Authorised pump repair company
operation	Suction air leak	Make sure water level is correct through suction points. Ensure baskets and strainers are free of debris. Tighten all fittings/unions on the suction side of the pump, remove and replace o'ring seal. Check lid has no hairline cracks.
	Suction blockage	Locate and clean blockage.
	Disturbance impeller	Contact HY-CLOR.
	Cavitations	Check if filter is the issue by: a) Sand Filter - Putting it on recirculate and starting the pump. b) Cartridge - Removing the Element then reassembling it without the element then starting the pump.
Motor overload cuts out	Motor not connected properly	Have electrician check wiring.
	Low incoming voltage	Voltage at motors should be no more than 6% above or below nameplate voltage. Have electrician check voltage, and ensure pump is not running on an extension cord. Report low supply to authorities.
	Overload due to binding in pump or wrong size impeller	Contact HY-CLOR.
Leaking	Leak between pump housing and pump cover	Change to a new o-ring between pump housing and pump cover.
	Leak between pump and motor	Contact HY-CLOR.



If the pump is within the stated warranty period and you experience faults, always contact HY-CLOR. Failure to do this may void warranty. Refer to warranty documentation supplied with pump.

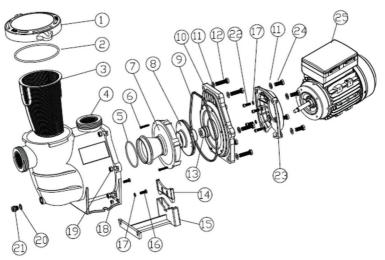
All electrical work is to be carried out by a qualified electrician. Under no circumstances should you attempt repairs on the electrical components of pumps unless you are qualified to do so.

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12.0 PUMP PARTS



Ref. No.	Part No.	Description
1	SPCV01	Pump LID (P100/P150/Two Speed)
2	SPPLR01	Pump LID O-Ring (P100/P150/Two Speed)
3	SPBK01	Pump Basket (P100/P150/Two Speed)
4	N/A	Pump wet end
5	SPDR01	Diffuser O-ring
6	N/A	Screw ST4.2X38
7	SPD3	Diffuser
8	SPIM33	Impeller
9	SPBR3	Body O-Ring
10	N/A	Pump cover
11	N/A	Gasket M10
12	N/A	Screw 3/8-16*1 1/2 UNC
13	SPMS3	Mechanical Seal
14	N/A	Supporting foot
15	N/A	Mounting foot
16	N/A	Screw M6X20

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Ref. No.	Part No.	Description
17	N/A	Gasket M6
18	N/A	Nut M6
19	N/A	Nut 3/8-16
20	N/A	Gasket
21	N/A	Drain plug
22	N/A	Screw M6X20
23	N/A	Motor flange
24	N/A	Screw M10X25
25	N/A	1.5 HP motor

Not Shown: 1) Union Set a) Part Number : SPUS3 b) Each pump requires Two

13.0 HY-CLOR WARRANTY

- 13.0.1 Our goods come with guarantees that cannot be excluded under the Australian consumer Law. You are entitled to a replacement or a refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. Please read these warranty terms and conditions carefully. A failure to comply with these terms and conditions may affect any claim on warranty you may have on a product.
- 13.0.2 All products provided by HY-CLOR AUSTRALIA PTY LTD are warranted for defined periods of time (refer to warranty terms)..
- 13.0.3 All mechanical swimming pool products supplied to consumers by HY-CLOR are to be installed or used in the manner they are manufactured for only.
- 13.0.4 Warranty may be voided if the product or products claimed by the consumer under warranty have been used for purposes other than their designed or manufactured purpose.
- 13.0.5 Where applicable, products supplied by HY-CLOR come with operation and installation manuals. All care must be taken to install and operate the products according to these instructions. Failure to install or operate these products in accordance with these instructions may void warranty.
- 13.0.6 The chemical balance of the swimming pool water plays a significant part in the operational life of all swimming pool products, HY-CLOR recommends regular water testing using an approved swimming pool test kit or test strips - This is provided on our website's SMART STEPS - https:// hyclor.com.au/smart-steps/test/
- 13.0.7 This warranty is valid for the original purchase and is not transferable. Keep your purchase docket, tax invoice or receipt as the proof of purchase, and as proof of the date on which the purchase was made.
- 13.0.8 Modifications to any electrical product provided by HY-CLOR products are covered by a twelve month warranty unless prior written approval has been granted by HY-CLOR and has been carried

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out by one of its authorised agents. All electrical installations must be carried out by a competent licensed professional.

13.0.9 All pool filtration equipment including filters, pumps and salt chlorinators, must be kept in a dry well ventilated area away from direct sunlight and in an area that is free from flooding or rain. This warranty does not cover normal wear and tear to the products or parts.

13.1 WARRANTY TERMS

- 13.1.1 Your HY-CLOR Pump Carries a manufacturer's warranty of 2 years on the Pump body, Motor, Body O-ring Mechanical Seal and Lid.
- 13.1.2 All other Components including o-rings are 1 year warranty, but subject to wear and tear.

13.2 EXCLUSIONS

To the maximum extent permitted by Applicable Laws, the warranty will not apply under any of the following circumstances:

- 13.2.1 The Purchaser is in breach of the terms and conditions of sale.
- 13.2.2 The product was used for a purpose or under conditions other than what it was intended for.
- 13.2.3 The product was repaired, modified or altered by any person other than HY-CLOR Authorised Representatives.
- 13.2.4 The product was not installed, maintained and/or operated in complete compliance with the installation and operating instructions and any instructions provided by HY-CLOR.
- 13.2.5 The product was operated under adverse conditions including, but not limited to, use with water exceeding 35°C, hot operating enclosures with poor ventilation, fluctuating power supplies, water pressure greater than 250kpa, or lack of protection from the weather.
- 13.2.6 Normal wear and tear or deterioration associated with the age or use of the product.
- 13.2.7 The product was damaged by foreign debris entering via suction pool cleaners, refer to equipment installation instructions.
- 13.2.8 The product was damaged by weather and other environmental conditions including but not limited to storm, flood, and/or heat wave damage.
- 13.2.9 Failure of the mechanical seal due to insufficient water flow caused by any blockage or ingress of foreign matter of any kind whatsoever.
- 13.2.10 Damage to the product caused by the addition of chemicals, salt filter media or any other thing through the skimmer box.
- 13.2.11 Failures or any defects in component, part or operating function of the product, which is in the opinion of HY-CLOR the result from misuse, negligence, rebuilds or modification, incorrect installation by persons that are not HY-CLOR Authorised Representatives.

13.3 LIMITATIONS

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Except to the extent permitted by applicable laws, breach of a condition or warranty, shall be limited to replacing or acquiring the same equipment (or any part thereof) or the services supplied.

The maximum liability incurred by HY-CLOR shall not exceed in any case the contract price for the equipment or the product parts claimed to be defective. Further, HY-CLOR shall not be liable for any loss, damage or delay directly or indirectly caused by any malfunction of or defect of or failure of the equipment other than as expressly stated in this warranty.

Subject to applicable laws, the repair or replacement of the product or part of the product is the absolute limit of Hy-Clor liability under this express warranty.

13.4 WARRANTY CLAIMS

If you consider that the product which you have purchased is not of acceptable quality, has a latent defect or is otherwise not compliant with the warranties, conditions, undertakings and legal rights you have under Applicable Laws you can make a claim under this warranty by contacting:

> HY-CLOR AUSTRALIA 178 Power Street, Glendenning NSW 2761 Phone: +61 2 8805 2400 Fax: +61 2 8805 2401 AUS: 1800 625 123 NZ: (09) 9732 2477 Email: help@hyclor.com.au

All Warranty claims must be accompanied by the proof of purchase, alleged defect and any appropriate documentation (Historical and maintenance records).

13.5 CUSTOMER WARRANTY INFORMATION

- 13.5.1 Please complete the WARRANTY CERTIFICATE at time of installation and retain in the event you need to file a warranty claim.
- 13.5.1 Contact HY-CLOR for all warranty repairs help@hyclor.com.au or Australia: 1800 625 123 New Zealand: (09) 9732 2477



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