Genus III Pool and Spa Controller

INSTALLATION & OPERATING INSTRUCTIONS

AstralPool Australia Pty. Limited. A.B.N. 97 007 284 504

Information and specifications subject to change without notice.

Rev 186-0804

INTRODUCTION

Congratulations! You have purchased a high quality Genus III Pool and Spa Equipment Centre. Please read the instructions carefully and your purchase will provide you with years of trouble free use.

COMPONENTS INCLUDED

1 x Power Module / Equipment Centre
1 x Console / Touchpad
1 x 10m Cable for Heater Connection
1 x Installation and Operation Manual
1 x Set of mounting Screws
1 x 50mm PVC Temperature Sensing Coupling
1 x Temperature Sensor Lead

TIMER HANDSET

The Timer Handset will display the status of the Heater as well as that of the accessories operated by the Control Unit. The Timer Handset has a Clock and 4 inbuilt timers which can be set to turn the pump on and off in multiples of 15 minutes. You can use all of the timers, only a few or none at all.

OPERATION

Your Timer Handset has 7 functions which are explained below;

On/Off   Turns the Heater On or Off

Warm   Increases the Pool/Spa Set Temperature

Cool   Decrease the Pool/Spa Set Temperature

Pump   Turns the Pump On or Off

Blower   Turns Blower On or Off.

Aux 2:   Turns Auxiliary 2 On or Off or, where enabled,

or   *or*

Pool/Spa   Changes between Pool/Spa Setting
                           *(VX Model chlorinators installed will automatically change
                           between Pool and Spa Chlorine Output setting also)*

Aux 3   Turns Auxiliary 3 On or Off

Note: Set point temperature of Heater will only be displayed if Heater is connected to system.

SETTING THE CLOCK

1. Ensure that the Heater On/Off button is in the 'Off' position.
2. While holding the "Warm" button down press the "Cool" button momentarily. The screen will display the time.
3. Set the hour using the Warm and Cool buttons. Once the hour has been set push the On/Off button to set the minutes
4. Set the minute using the Warm and Cool buttons. Once the minute has been set push the On/Off button to confirm the time set.
5. Press the Warm button to return to the main screen.

SETTING A TIMER

1. Ensure that the Heater On/Off button is in the 'Off' position.
2. While holding Cool button down press the Warm button momentarily.
3. Set the desired pump start time using the Warm and Cool buttons then press the On/Off button to confirm.
4. Set the desired time for the pump to turn off. Then press the On/Off button to confirm.
5. Repeat steps 3 to 4 to set multiple timers the time.
6. Press the On/Off button until the screen displays DONE. Press the Warm button to return to the main screen.

ADJUSTING THE TEMPERATURE (Only when heater is connected)

1. Press the On/Off buton until the word 'ON' appears on the display that the Heater.
2. Using the Warm and Cool buttons, press until the desired temperature is set, the set temperature can be seen on the display.
3. Different temperatures can be set for both the Pool and the Spa.
4. Control system will now send ignition signal to heater.

PUMP TIMER OVERRIDE SWITCH

A pump timer override switch is located on the front of the control unit in case you should require manual control of the pump for the purposes of backwashing, maintenance, etc.

This switch should be in the "Auto" position for normal remote and timer control.

The "On" position turns the pump on regardless of the timer and remote control settings.

The "Off" position prevents the pump operating regardless of the timer and remote control settings.

NO TIMER HANDSET

The No Timer Handset is used in conjunction with the Timer Handset. It gives control of the Heater and Control Unit and displays the operating status of both, but no timers can set be set with this handset and there is no clock.

LCD DISPLAY

The Handset (with or without timer) displays a set of alpha numeric symbols to indicate the operating status of the Heater and Control Unit.

Symbol	Meaning	Action
(pump timer symbol)	Pump Timer/s are activated.	No action
✓	Pump is turned on	No action
▌	Blower turned on	No action
2	Auxiliary 2 turned on	No action

Note: For Pool/Spa Button Option, number 2 is not displayed

Symbol	Meaning	Action
3	Auxiliary 3 turned on	No action
✳	Thermostat calling for heat. Electronic Ignition operating.	No action, heater should ignite in a few seconds.

FAULT INDICATION

Under fault conditions, the thermostat display will indicate a set of alpha numeric symbols to indicate the status of the heater. The meaning of each symbol and action to be taken are listed as follows:

SYMBOL	MEANING	ACTION
Back Lighting	Unit has power	No action
Set Temp Display	System has heater connected	No action
L	Heater locked out on time delay for 2 minutes.	No action. Heater will automatically reset after time delay. Or switch off then on again for immediate ignition.

POOL AND SPA EQUIPMENT CENTRE

INSTALLATION

WARNING!

The Genus IV remote system is connected by 6 wire flat cable with RJ12 connectors. The Cable with RJ12 Connection to the Pool Heater and Handset must be installed before power is supplied to the Power Supply Module. The combined load of equipment operated must not exceed 40 Amps. The Power Supply Module must be hard wired by a licensed electrician. To avoid a safety hazard, the supply cord if damaged, must only be replaced by Hurlcon, or its service agent or a suitably qualified person. For products with fixed wiring, a means of disconnection must be provided in the fixed wiring. The Pool and Spa Equipment Centre is not intended for use by young children or infirm persons without supervision. Please ensure that young children are supervised to ensure that they do not play with the Pool and Spa Equipment Centre.

POWER SUPPLY MODULE MOUNTING BRACKET

The Power Supply Module comes with a wall mounting bracket so it can be securely fixed to any wall. The Power Supply Module must be hung where it is protected from direct sunlight and rain (IPX3).

1. Remove wall mounting bracket from Power Supply Module by un-doing the screw located near the pump socket.
2. Screw mounting Bracket to wall.
3. Engage the Power Supply Module's top rear edge with the joggled section on the top of the bracket.
4. Align the screw hole in the underside of the Power Supply Module with the hole in the lower face of the mounting bracket and secure.

HEATER CONNECTION (Voltage Free Contacts)
(This system is not to be used in conjunction with any
Hurlcon Genus model heater)

1. Run a 2 core cable between the Power Supply module the heater.
2. Strip the wires at the Power Supply Module and connect one to each of the spring loaded terminals.
3. At the Heater end of the cable, strip the wires back to 2 single cables.
4. At the Heater, locate the Pressure Switch and remove one of the wires.
5. Connect the first wire to the spare terminal on the pressure switch.
6. Connect the other wire to the wire that was once connected to the pressure switch. (Note: The power supply through the Pressure Switch must not exceed 24VAC)
7. Turn the heater ON and to its maximum temperature setting.

HEATER CONNECTION (15Amp Electric Heater)

1. Plug in Electric Heater into 15amp socket labelled Heater.
2. Turn electric and set thermostat to maximum setting.
3. Electric heater will now turn on and off when water temperature falls below set point show on Genus III Console

TEMPERATURE SENSOR/COUPLING

1. Plumb in 50mm coupling in plumbing of equipment prior to water flow entering the heater. For installations where there is no heater, installation of coupling can be anywhere in system.
2. Temperature sensor must be inserted in Sensor Pocket which is located in 50mm coupling. Secure sensor into position using a Neutral Cure Silicone and insulate cable using a protective sleeve if sensor is exposed to harsh climatic elements.
3. Other end of temperature sensor must be plugged in to Genus III Power Module.

HANDSET CONNECTION

The method of installation will depend on the surface the Remote Control is intended to be fixed to. Below is a guide to where each method would be most suitable.

The Handset is supplied with two types on mounting systems. Surface Mount and Flush Mount Kits. The flush mount kit is attached during shipping. Unclip the Flush Mount cover of the Handset and feed the 6 wire flat cable through the square hole in the back cover on the mounting bracket selected for installation. Connect it to the RJ12 socket on the PCB. If the Surface mount bracket is used, attach this to the wall using appropriate fixing screws, once RJ 12 Cable is attached clip the console into place. If the Surface Mount Bracket is used, feed the cable under the off-set plastic tabs. Then attach the RJ 12 Cable and clip the console into place.

The Remote Control is supplied with specially designed double sided tape for flush mounting. The tape is designed for installations with flat surfaces, where maximum strength is required and where removal will not damage the surface and is suitable for indoor and outdoor installations. Note – when installing into plaster or similar use the plaster wall mount bracket. See below for installation instructions.

When flush mounting, the Remote Control can also be installed using silicone sealant for surfaces that are un-even.

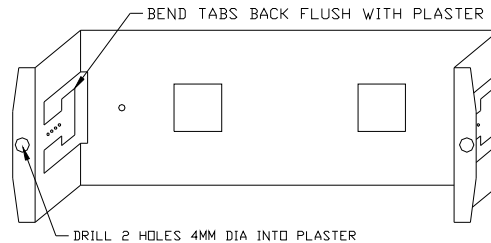The cut out size for flush mounting is 178mm x 67mm.

If Surface Mounted, Tape is to be removed before installation

The correct Touchpad label needs to be fitted to suit the setup that you require. As a default, the Genus system is set-up as a 4 function system with no Pool/Spa valve actuation, therefore the label with Aux 3 would need to be fitted. If reconfigured to operate with valve actuators, the label with Pool/Spa will need to be fitted.

PLASTER WALL BRACKET INSTALLATION

4. Cut hole in plaster 179mm x 67mm
5. Using mount bracket as a guide drill 2 screw holes 4mm diameter.
6. Feed RJ12 cable through left side square cutout. Push bracket back into hole and bend the side tabs behind the plaster.
7. Screw 2 off 6# Countersunk screws (supplied) through the side holes into the side tabs. The tabs will tighten behind the plaster.

8. Remove the back cover of the Flush mount style heater remote. Feed the RJ12 cable through the back cover and fix cover to the mounting plate (2 off 6# selftapping screws).
9. Do not remove the backing paper of the tape gasket. Connect cable to RJ12 connection on circuit board and push panel back into bracket. Panel will clip into the fixed back cover.
10. For removal, using a flat screw driver, insert the screw driver between the front panel and the wall bracket. The front panel will unclip with a slight leaver action.

CONNECTION TO HURLCON SALT CHLORINATORS

The VX Chlorinator control needs to be connected to the equipment centre via a remote cable. To connect the cable from the Chlorinator Control to the equipment centre, do the following:
1. Turn off the mains supply to the equipment centre.
2. Plug one end of the RJ12 cable into the RJ12 socket that can be found on the underside of the Power Supply Module. (Cable not supplied)
3. The other end of the cable must be plugged into the VX 'S' model chlorinator.
4. Connect the chlorinator mains plug into the pump outlet of the Power Supply Module.
5. Plug the pump into the power socket located on the underside of the VX chlorinator.
6. Set the Pump override switch to the **Off** position.
7. Turn on the mains to the Equipment centre.
8. Whilst holding down the Superchlorinate and Power level up buttons, turn the Pump override switch to **ON.** The Chlorinator should indicate a S for system after the model setting.

NOTE: The pump Override switch should no longer be used in the "Auto" Position. It should be left in the On position for normal operation and off for maintenance.
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INTERFACE FOR NON HURLCON SALT CHLORINATORS (OPTION)

1. Connect the male 4 pin plug into one of the female 4 pin sockets of the Power Supply Module.
2. Cut the sense wire on Salt Chlorinator and crimp in blue wires from Salt Chlorinator Interface.

Note: If Chlorinator output is disabled when in Pool mode, swap white and red leads inside Salt Chlorinator Interface.

GENUS – THERMOSTAT SETTINGS

The Genus IV control needs to be correctly configured to suit the setup that you require. As a default, it is set-up as a 4 function system with no Pool/Spa valve actuation and assumes that an external type heater is connected. To reconfigure, follow the procedure below:

While the Heater Thermostat displays "Off", hold the "On/Off" button and press the following combination:

Configuration	Button Sequence	Thermostat Displays Briefly
4 Function Mode(default) **or** Pool/Spa + 3 Function Mode	Warm, Cool, Warm, Cool **or** Warm, Cool, Warm, Warm	RLY - AUX 2 **or** RLY – POOL SPA OFF
Heater Installed & Connected **or** No Heater	Down, Down, Down, Up **or** Up, Up, Up, Down	Software Version number followed by HP **or** "Set temp will not display"

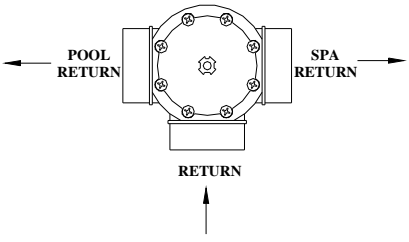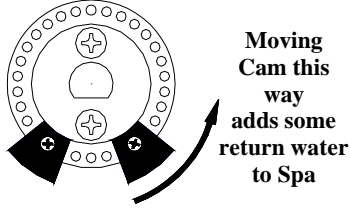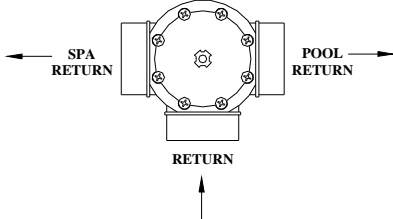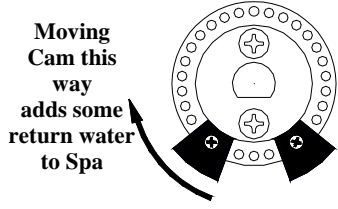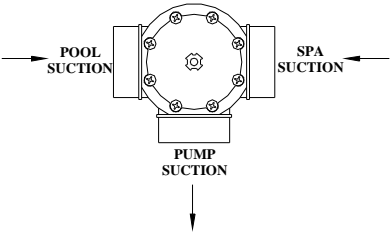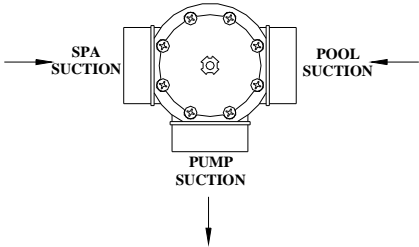Temperatures can be displayed in either Celsius or Fahrenheit. Again

While the Heater Thermostat displays "Off", hold the "On/Off" button and press the following combination:

"Warm, Cool, Cool, Cool" → Degree Celsius (Default Setting)
"Warm, Cool, Cool, Warm" → Degree Fahrenheit

CONFIGURATION SUMMARY

System	Heater Setting - hold down On/Off Button (whilst in off mode and press)	Chlorinator - power up with following buttons pressed
Heater Pool/Spa Remote	Warm, Cool. Warm, Warm	N/A
Heater 4 function Remote	Warm, Cool. Warm, Cool	N/A
Heater Pool/Spa Remote with Hurlcon Chlorinator	Warm, Cool. Warm, Warm	Superchlorinate and Chlorine power level up
Heater 4 function Remote with Hurlcon Chlorinator	Warm, Cool. Warm, Cool	Superchlorinate and Chlorine power level up

Valve Connection and Configuration

Valve Configuration	Cam Adjustment
RETURN SIDE POOL RETURN ← SPA RETURN → RETURN ↑	Moving Cam this way adds some return water to Spa
RETURN SIDE SPA RETURN ← POOL RETURN → RETURN ↑	Moving Cam this way adds some return water to Spa
SUCTION SIDE POOL SUCTION → SPA SUCTION ← PUMP SUCTION ↓	
SUCTION SIDE SPA SUCTION → POOL SUCTION ← PUMP SUCTION ↓	

WARRANTY

Your Function Remote with Temperature Adjustment is covered by a limited 12 month warranty against defective parts and faulty workmanship (plus 30 days to allow for installation).

To make a warranty claim you must return your Pool & Spa Equipment Centre to Hurlcon's factory freight prepaid and Hurlcon will repair or replace it (at its option) and return it to you.

Should a fault occur, call Hurlcon or an Authorised Hurlcon Service Agent. There are no user serviceable parts. Always turn off and disconnect power supply when removing Power Supply Module.

Limitations

All warranties only apply if the equipment is installed and operated in complete compliance with the installation and operating instructions.

Specific limitations and exclusions include but are not limited to, water ingress into Power Supply Module and Remote Control, excessive appliance current load on any one or number of power outlets, misuse or abuse whether intentional or accidental.

Hurlcon assumes no liability for consequential damages of any kind. In field labour warranty is applicable in capital city metropolitan areas and within a 20 km radius of Hurlcon Authorised Service Agents. Should you request a warranty service call and the problem is diagnosed as non-warrantable, you will be charged for a diagnostic service call plus any parts and labour required to repair the Multi-Function Remote Controller. No person is authorised to make any representations on behalf of Hurlcon.

Commercial Installation

On Commercial Installations, such as health clubs, motels/hotels and hydrotherapy facilities, parts and in field labour warranty (in capital city metropolitan areas and within a 20 km radius of Hurlcon Authorised Service Agents) is 6 months from the date of purchase plus 30 days to allow for installation.

AstralPool Australia Pty. Limited

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