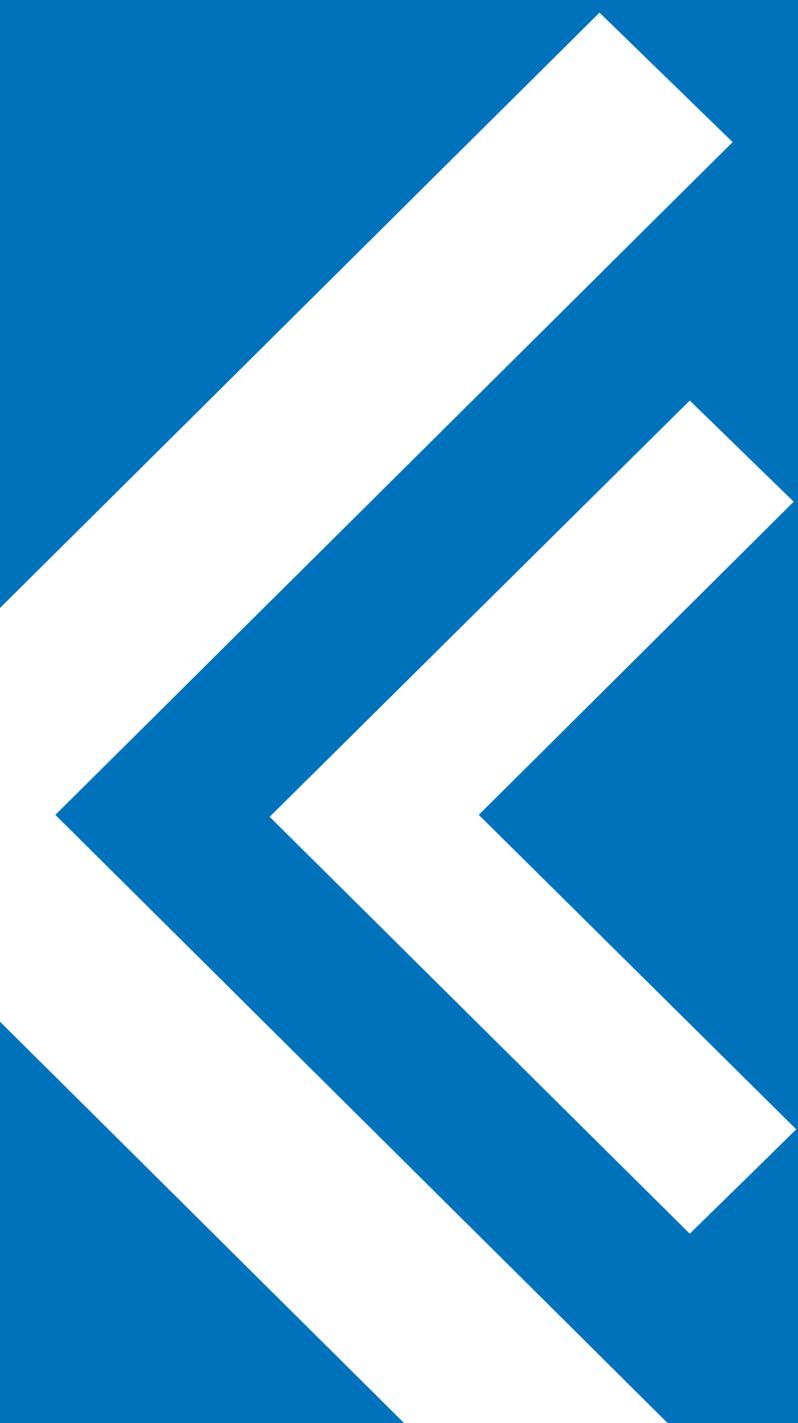


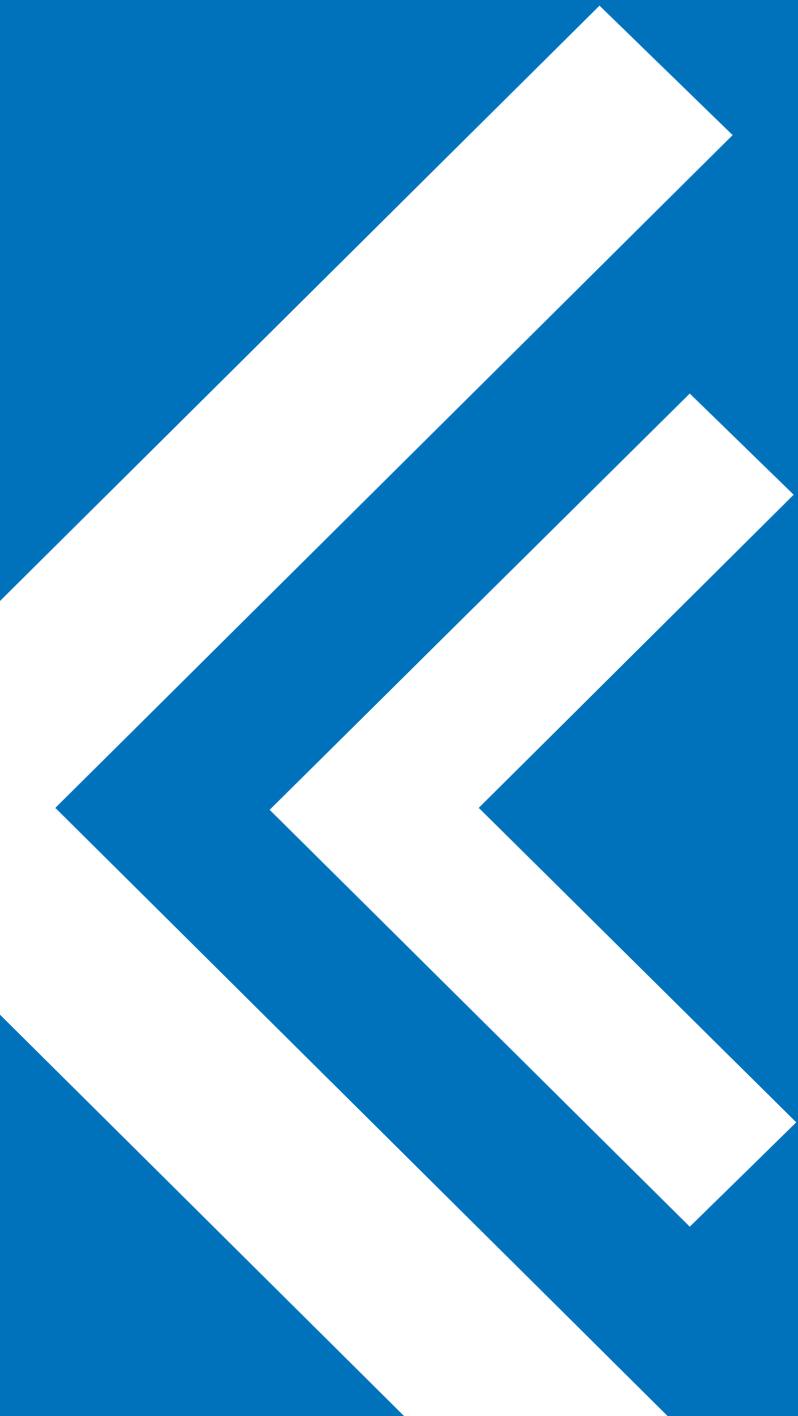
iCoolsport

iCool 2020 Compact Series 3
Owners Manual



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Compact Series



Product Overview

Compact Cool Series 3

The Compact Cool is a popular lower cost system for fast cooling of a single person pool. It provides impressive cooling power of 5000 watts. Fully automatic control and excellent mobility. Quiet operation with the latest technology powerful low noise turbo fan.

Compact Cool Dual Temp Series 3

The Compact Dual Temp provides all the power and functions of the Compact Cool with the added benefit of heating as well as powerful cooling for advanced contrast therapy sessions. It can provide any temperature used in recovery therapy.

Compact XP Series 3

The Compact XP set the standard as the most powerful advanced heat pump ever available in a cost effective mobile system. 7400 watts of cooling and heating in this amazing compact mobile package. For very fast cooling, or for bigger pools, the XP is the best mobile ice bath system available anywhere and the best selling ice bath machine in the world.

Key Features of the Compact Range

- » Ideally suited to small and medium sized baths from 200 to 2000 litres depending on the model.
- » Supplied with complete hose sets, industrial water pump and accessories.

Compact XP Dual Temp Series 3

The Compact XP Dual Temp provides all the power and functions of the Compact XP with the added benefit of heating as well as powerful cooling for advanced contrast therapy sessions. It can provide any temperature used in recovery therapy.

Compact Iceman Series 3

The Compact Iceman is the brand new ultimate recovery machine.

More powerful than any other compact ice bath chilling system it was designed specifically to support those athletes who follow the world famous Whim Hof method.

We call it the Iceman as a demonstration of our great respect for the cutting edge achievements of Whim in recovery technology.

Impressive unique look in an all black metal cabinet.

New on all Series 3 Models

- » Remote control from smart phones and computers now available.
- » Much larger 10 inch Full HD Capacitive Touch Screen.

Basic Setup

Step 1: Connecting The Water Hoses to Your Pool

» Follow this illustrations and match the colours of the connectors as shown.

GREEN to the TOP

RED to the BOTTOM

Alternative Hoses and Pumps

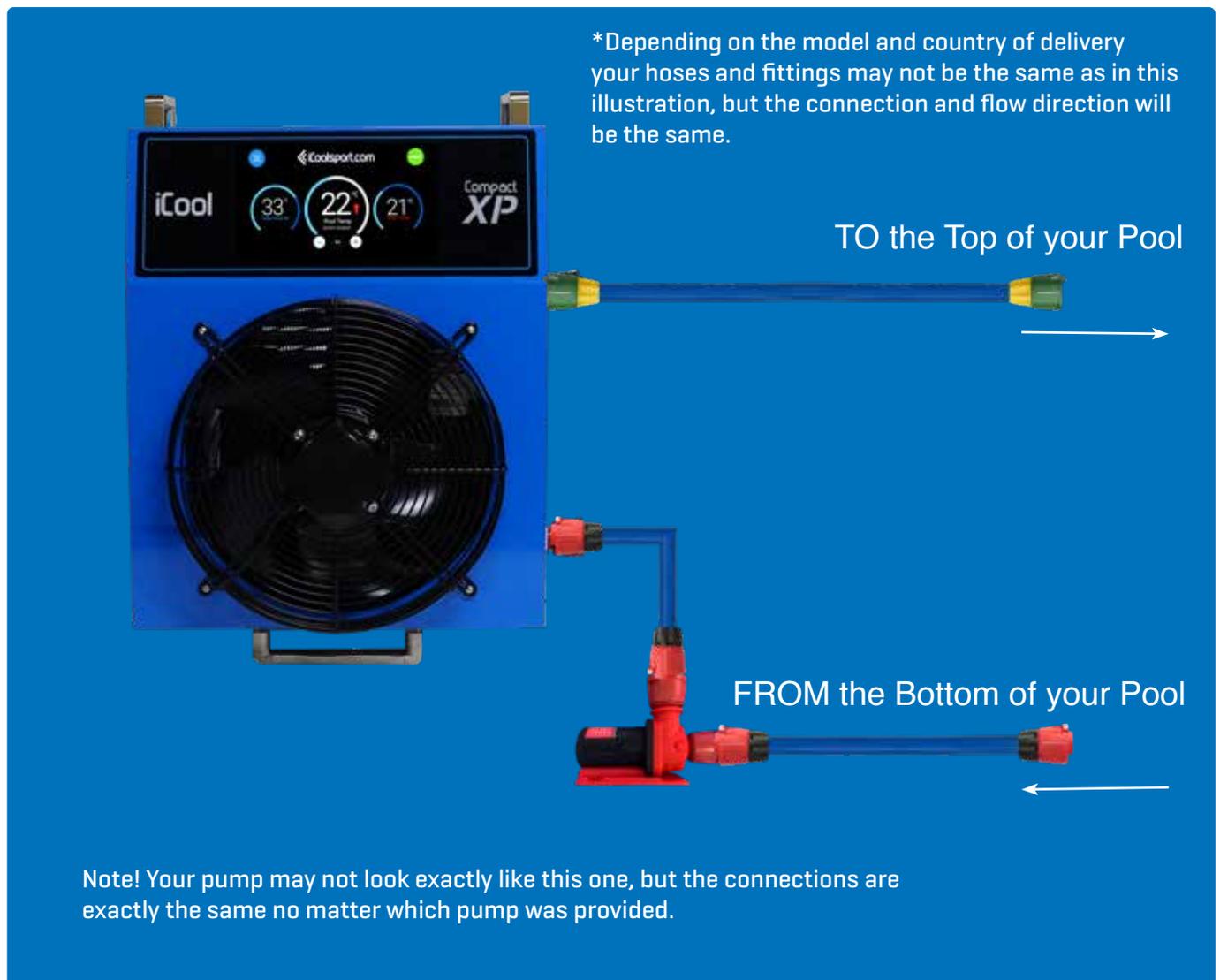
iCool machines are sometimes delivered with different pumps, hose sets and water connectors depending on the owners intended use. The direction of the water flow will always be as shown regardless of the hose and connector colours.

In these cases simply follow the direction of the water flow as shown in these illustrations.



Step 2: Connecting The Water Hoses* To Your Water Circulation Pump

- The shorter length of hose with RED connectors, connects between the BOTTOM fitting on the Compact and to the TOP fitting on your water circulation pump as shown below.
- The longer length of hose with RED connectors, connects between the BOTTOM fitting on the pool and the BOTTOM fitting on your water circulation pump.
- The longer length of smaller diameter hose with the GREEN connectors, connects between the TOP fitting on your Compact and the TOP of your pool.



Basic Setup

Step 3: Connecting Electric Power to your Compact machine and your water Pump

» Make sure that you do not connect your Compact machine to the wrong voltage.

Please check the voltage on the name plate above the power IN socket. It is either a 220 volt model or a 110 volt model.

You must not connect to the wrong voltage or this will cause serious damage.

The Water Pump must be connected to the special socket on the Compact Machine as shown.

COMPACT SERIES 3

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IMPORTANT SAFETY NOTE!
As a safety precaution the power inlet and outlet sockets are recessed in to the cabinet and angled upwards at 20° to prevent splashing or rain from entering. Take care when inserting.

Also, the combined Main Power Switch and Electrical Safety Device is recessed in to the cabinet to protect it from splashing.

If this device detects any unsafe electrical leakage it instantly removes all electric power from both the chiller and the water pump.

Warning! You can only use the voltage marked here. Using a different voltage will cause serious damage.

Plug the MAIN POWER in here. You must use the correct voltage as shown above this socket.

Plug the WATER PUMP in here. If not using the water pump provided do not use pumps exceeding 1000 watts.

Power Connected
Flow Sensor
Pump ON
Error

On if power is connected
On if water is flowing correctly
On if water pump is powered on
On if system has detected an error

Main Power
220 Volts
2200 Watts

Main Power Switch
Press 1 To Test Safety Function

Water Pump Power

Safety Test Button
Main Power Switch

On
Off

Turn on MAIN POWER here

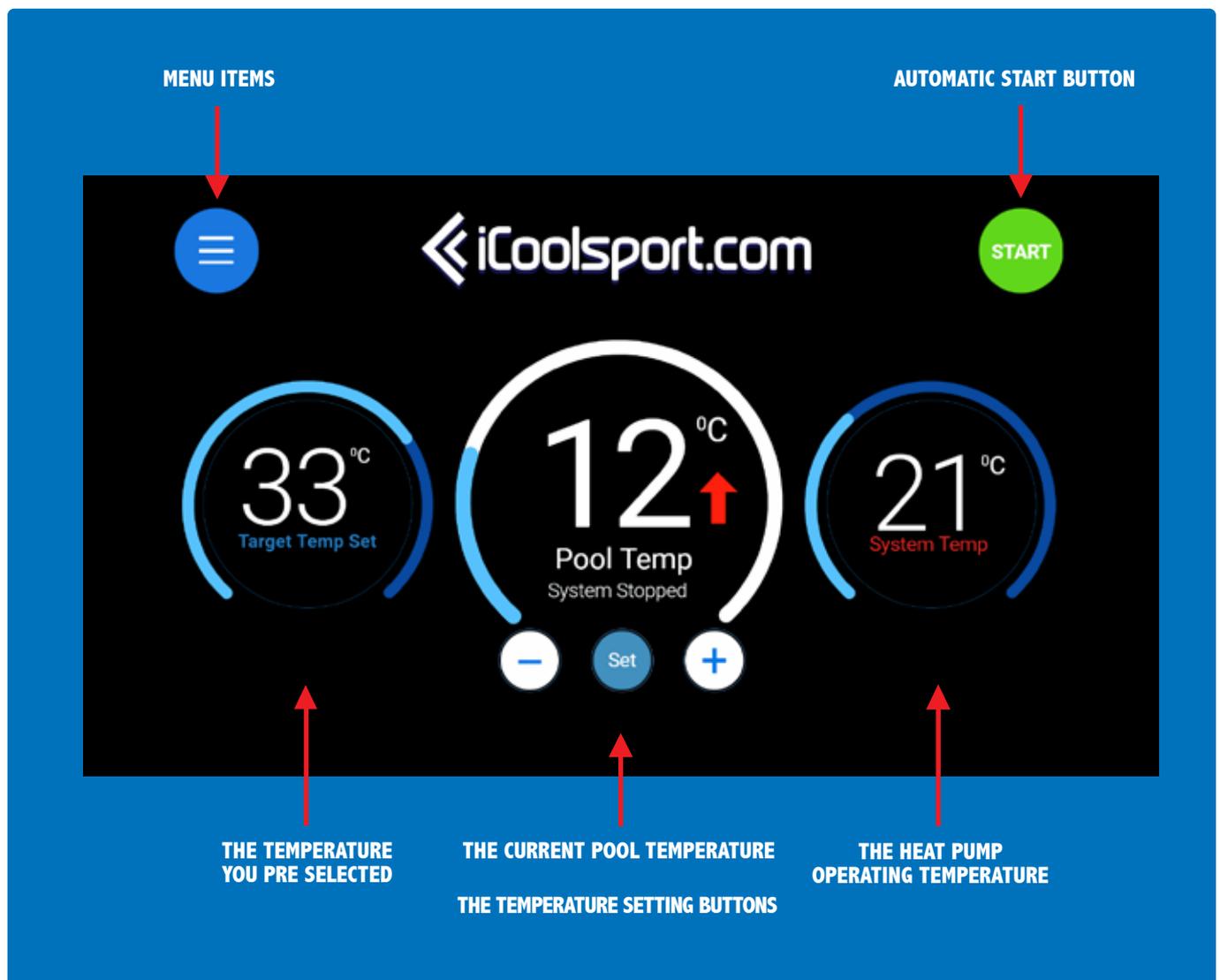
Step 4: The Touch Screen Controller

» The all new modern user interface has been completely redesigned to provide completely automatic start up and operational. Just set the temperature you need and touch the START Button.

Intelligent Water Flow correction

If the water does not flow steadily when you first start up due to air being trapped in the hoses to and from the pool or inside the water pump your iCool will attempt to clear it automatically 3 times.

If this is not successful the touch screen will direct you on how to correct this issue.



Starting Up

Step 5: STARTING UP and Making your Settings

» Turn on the MAIN POWER SWITCH.

The Touch Screen will be blank for a few seconds and then the iCool Logo will appear.

This will continue until your machine has loaded its operating software and run a full system check.

Do no touch the screen during this self test procedure. Wait for the Welcome screen to appear.



Step 6: The Welcome Screen Appears

» A Welcome screen movie of ice and snow indicates that the machine has loaded the latest software and all safety checks have been completed successfully.

The logo light bar located on the top of your machine will be white.

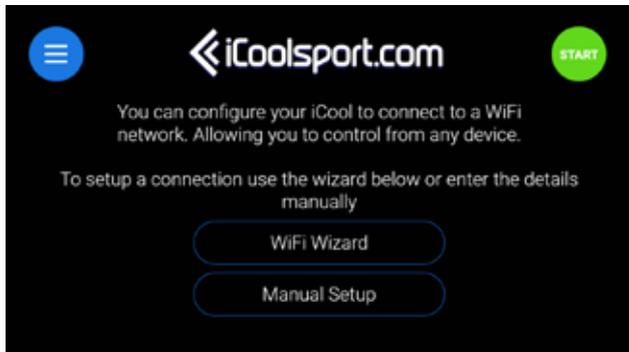
TOUCH the screen anywhere and the Main Operating Screen will appear.



WiFi Set Up

If you want to operate your machine via your smartphone, table or computer, follow the instructions below

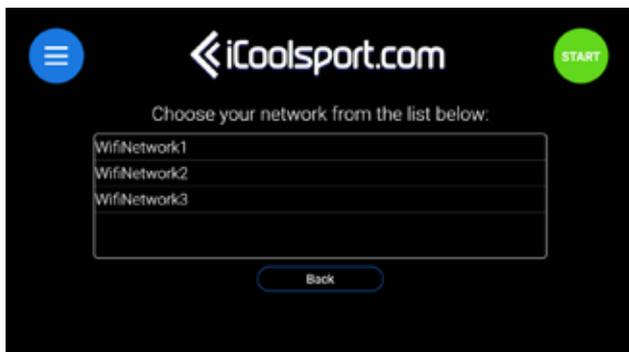
Step 1: Choose WiFi from the MAIN MENU of your iCool. Next, click WiFi WIZARD.



Step 2: Click SCAN FOR NETWORKS. The scan might take a few minutes.



Step 3: When the scan is complete, a list of available WiFi Networks will be shown.



Scroll down the list if your network is not visible at the top. Tap on your network once you find it to configure.

Step 4: Enter the password and press CONNECT.



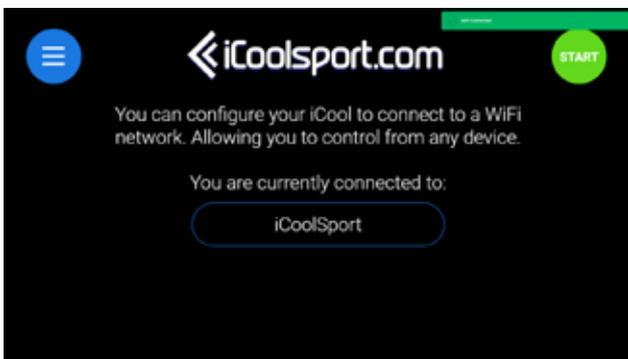
Your iCool will now try to connect to you network.

For capital letters, press the SHIFT button. For numbers and symbols, press the ?123 button. If your network does not have a password, simply press CONNECT.

Step 5: If it fails to connect, please check your password and try again.



Step 6: A GREEN notification will appear when the connection is successful.



Your network name will be visible in the middle of your screen. To change your connection, simply tap the network name on the screen to reconfigure your settings.

Step 7: To access the web interface, choose INFO from the MENU .



If you are successfully connected to your network, an IP address should appear in the bottom right label as pictured.

Step 8: Enter the IP address into your web browser bar in your laptop or phone.



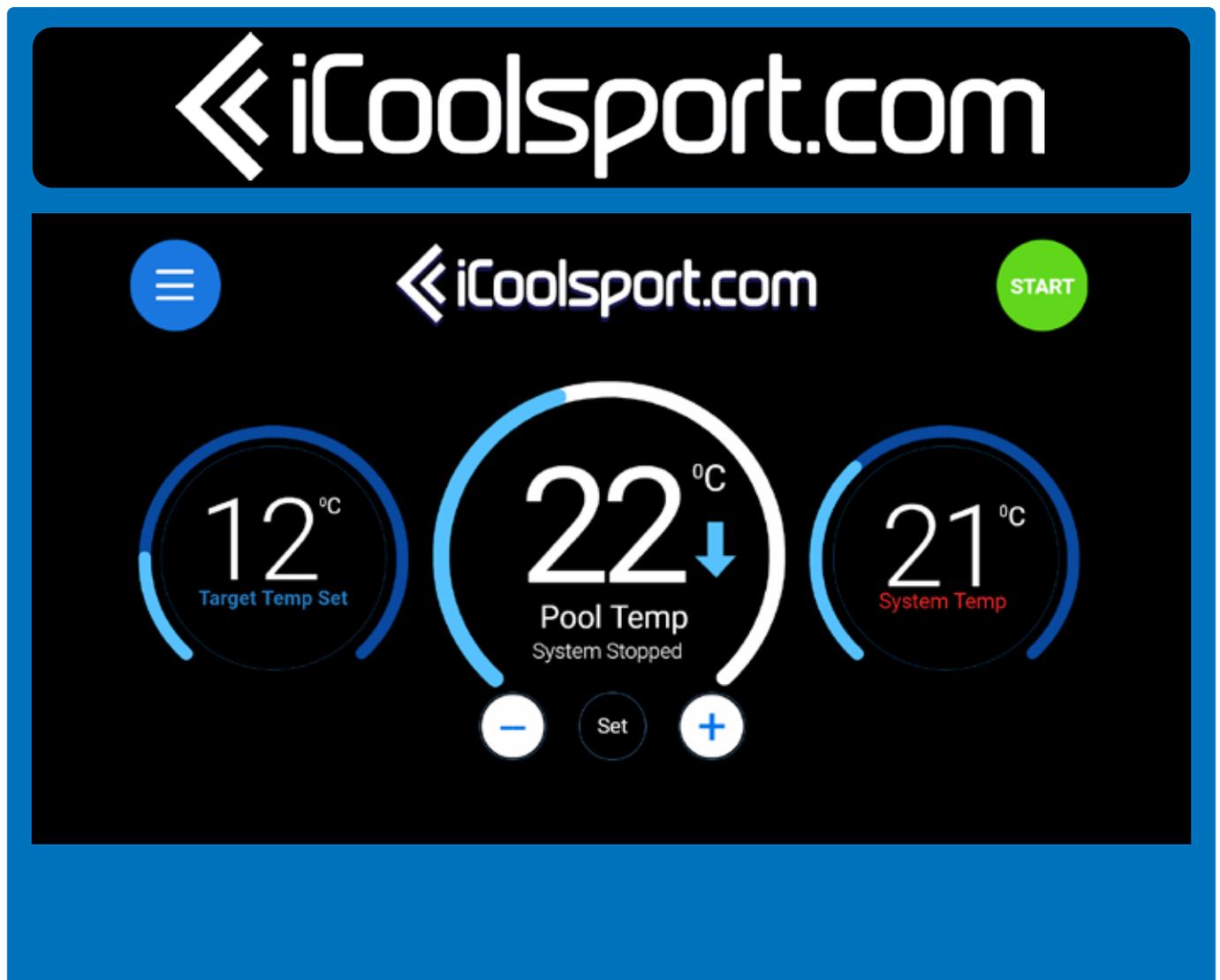
You should now see your iCool's screen on your device. You can now operate all the functions of your iCool from your computer, phone or tablet. Note: To reconfigure WiFi settings, you can only do it from your iCool's screen.

Cold Setting

Step 7: Setting the COLD Temperature You Need

- » To SELECT the TEMPERATURE you require simply touch the + or - buttons repeatedly until the large number above these buttons displays the COLD temperature you need.
- » Quickly touch the SET button to lock it in.
- » Your SET Temperature will now be displayed on the left side as the TARGET Temperature and the large numbers in the middle will now display the actual POOL WATER Temperature.

For safety reasons you can not select temperatures below 5 degrees C or 40 degrees F.



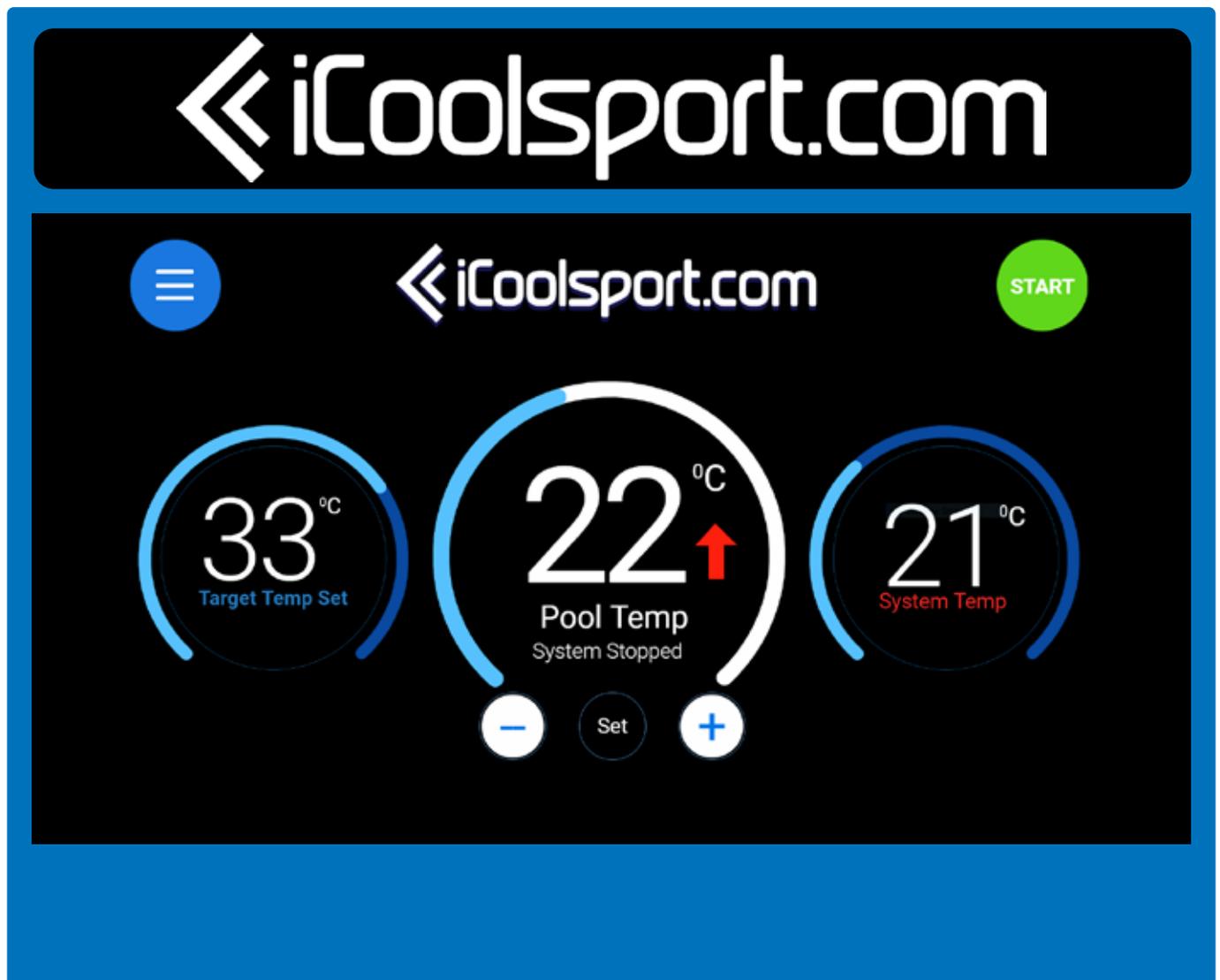
Hot Setting

Not Available on COLD ONLY Machines

Step 8: Setting the HOT Temperature You Need

- To SELECT the TEMPERATURE you require simply touch the + or - buttons repeatedly until the large number above these buttons displays the HOT temperature you need.
- Quickly touch the SET button to lock it in.
- Your SET Temperature will now be displayed on the left side as the TARGET Temperature and the large numbers in the middle will now display the actual POOL WATER Temperature.

For safety reasons you can not select temperatures above 45 degrees C or 112 degrees F.



Your COMPACT Machine will **automatically** select if it needs to either CHILL or HEAT to achieve your required water temperature.

Only "Dual Temp" models with the reverse cycle machinery built in can heat.

Automatic Operation

Step 9: Touch the Green START BUTTON

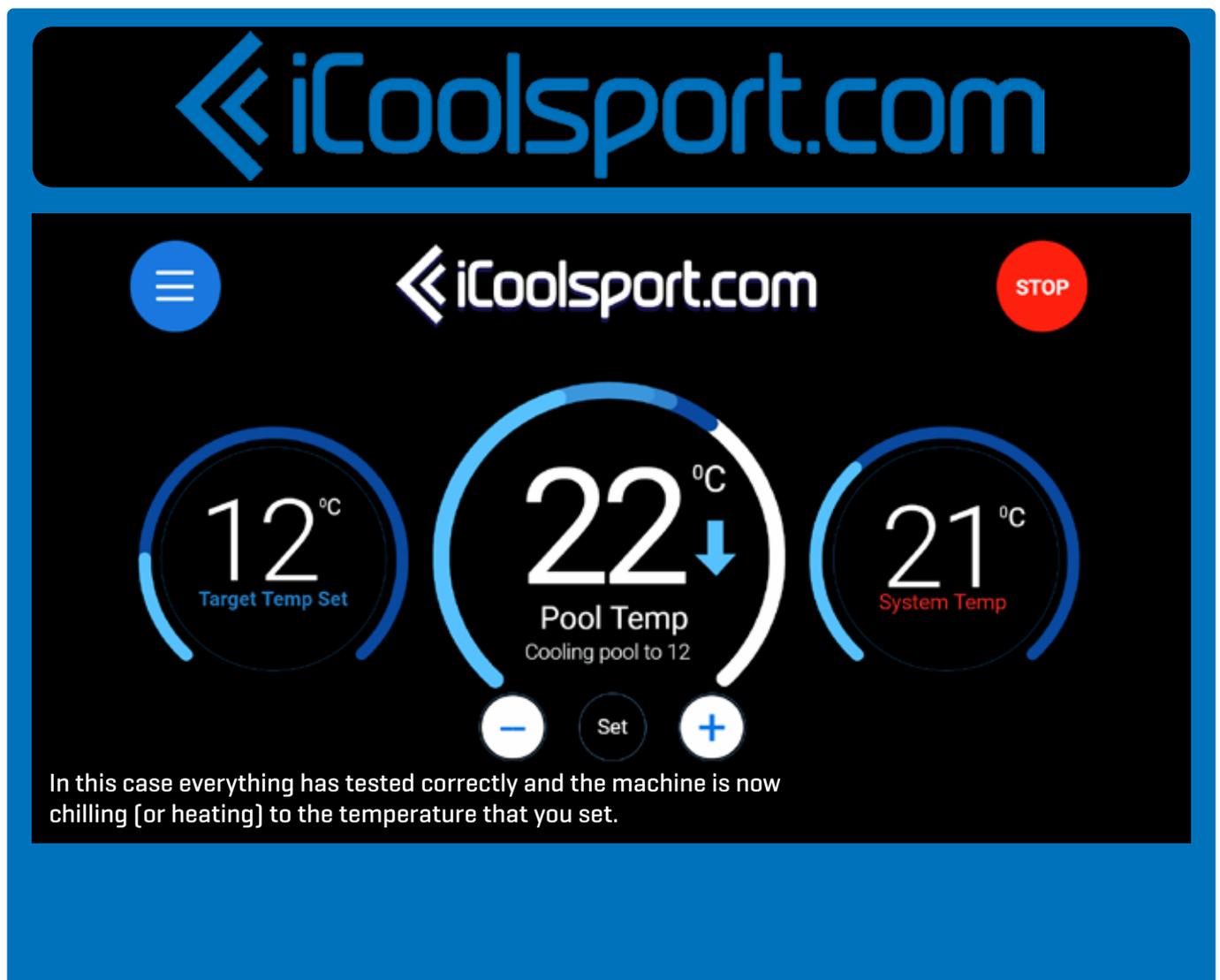
The Start button begins a Fully Automatic Start Up procedure and controls all normal operations.

A **PROGRESS BAR** will appear along the bottom of the screen to inform you of the start up progress.

Your machine will first start the water pump. The light bar will **PULSE** in **WHITE** to indicate pump is running and the automatic startup procedure is in progress.

After a few seconds the refrigeration compressor motor will start. After some more seconds the main air flow fan will start.

If the start has been successful the light bar will turn **BLUE** if cooling or **RED** if heating.



System Settings

Step 10: Changing Basic System Settings

- › Touch the Blue MENU Button to reveal all available options on your machine & choose SETTINGS from the list.
- › You can change between **Centigrade and Fahrenheit**.
- › You can select the volume of the System **Sounds**.
- › You can change the appearance from **Dark Mode to Light Mode**.
- › You can set levels of energy saving. **Level +5 is for most efficient cooling/heating**.



System Settings

Step 11: Built In SESSION TIMER

Your iCool Compact has a built in SESSION TIMER.

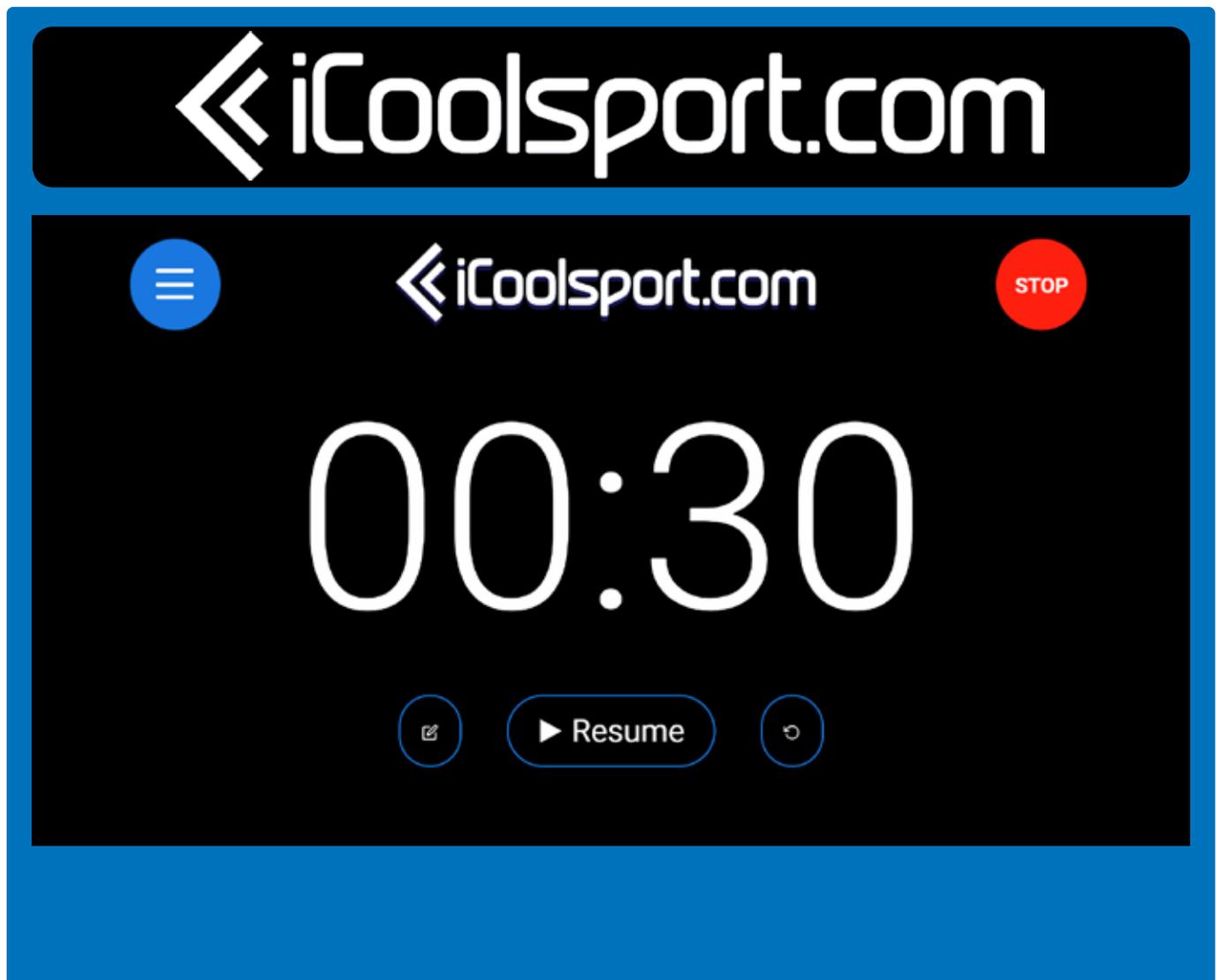
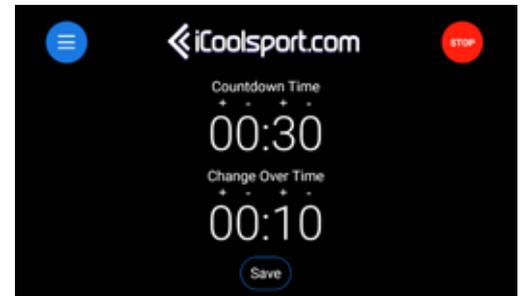
This allows you to pre set the amount of time athletes should remain in the pool.

It provides a count down on the screen.

It sounds a warning at the end of the session.

It can automatically re set and begin again for the next athlete.

The Change Over time between athletes can also be pre set.



Water Flow Problems

Problem Resolution - Your Compact Machine will attempt to correct any water flow problems

» The most common issue that can prevent successful operation is lack of water flow. The light bar will turn **ORANGE** if this happens. It can occur if air is trapped in the water pipes or the pump, or if flow is restricted in the hoses. The Compact will attempt to clear it automatically several times by surging the pump to dislodge air. If after several attempts it can not correct the lack of water flow, it will shut the machine down and warn you that action must be taken to correct the problem.

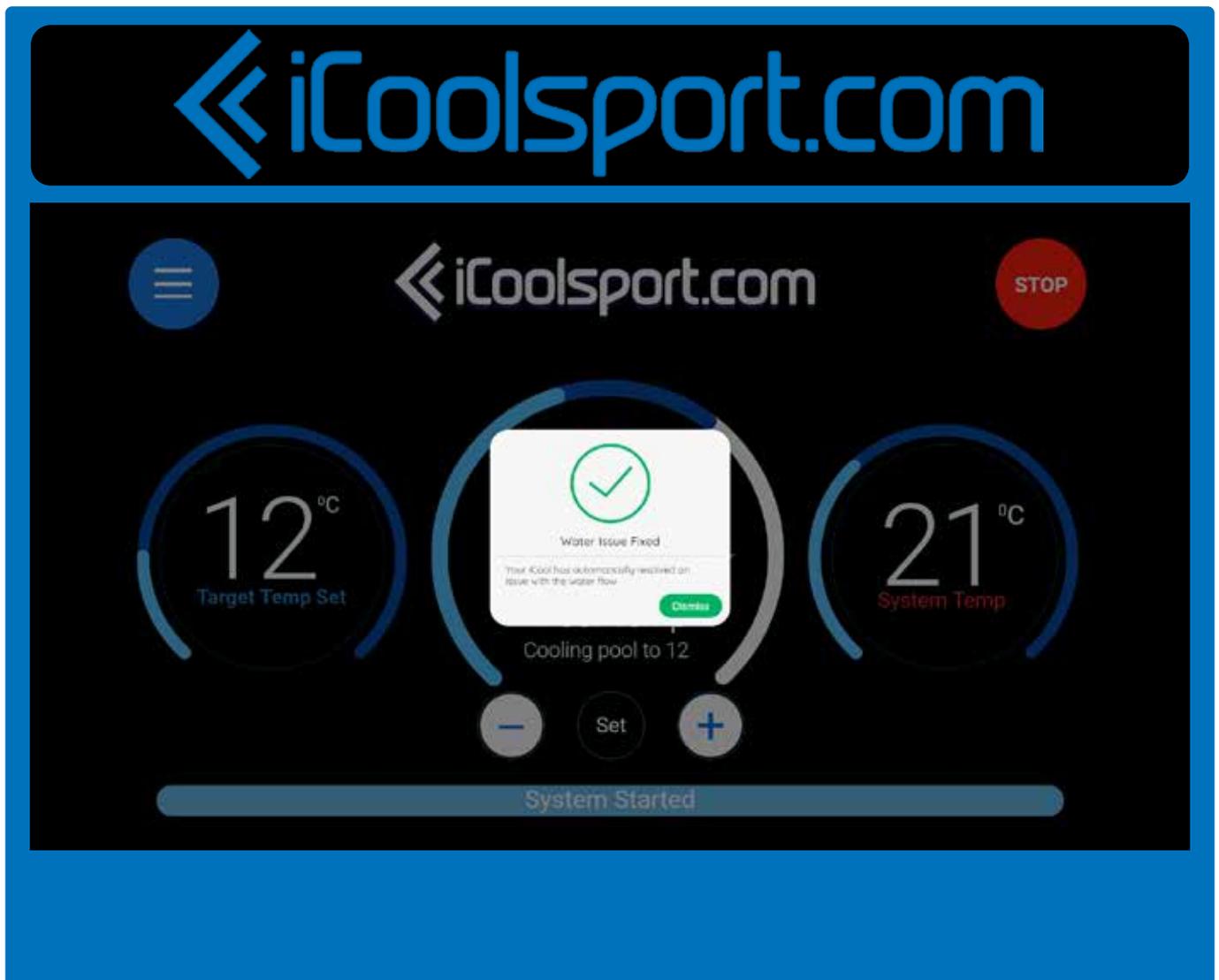
More information on how to clear the water flow is on page 24 of this manual or via the MENU on the touch screen.



Water Flow Problems Fixed Automatically

If your Compact can correct the lack of water flow itself it will do so and advise on the screen.

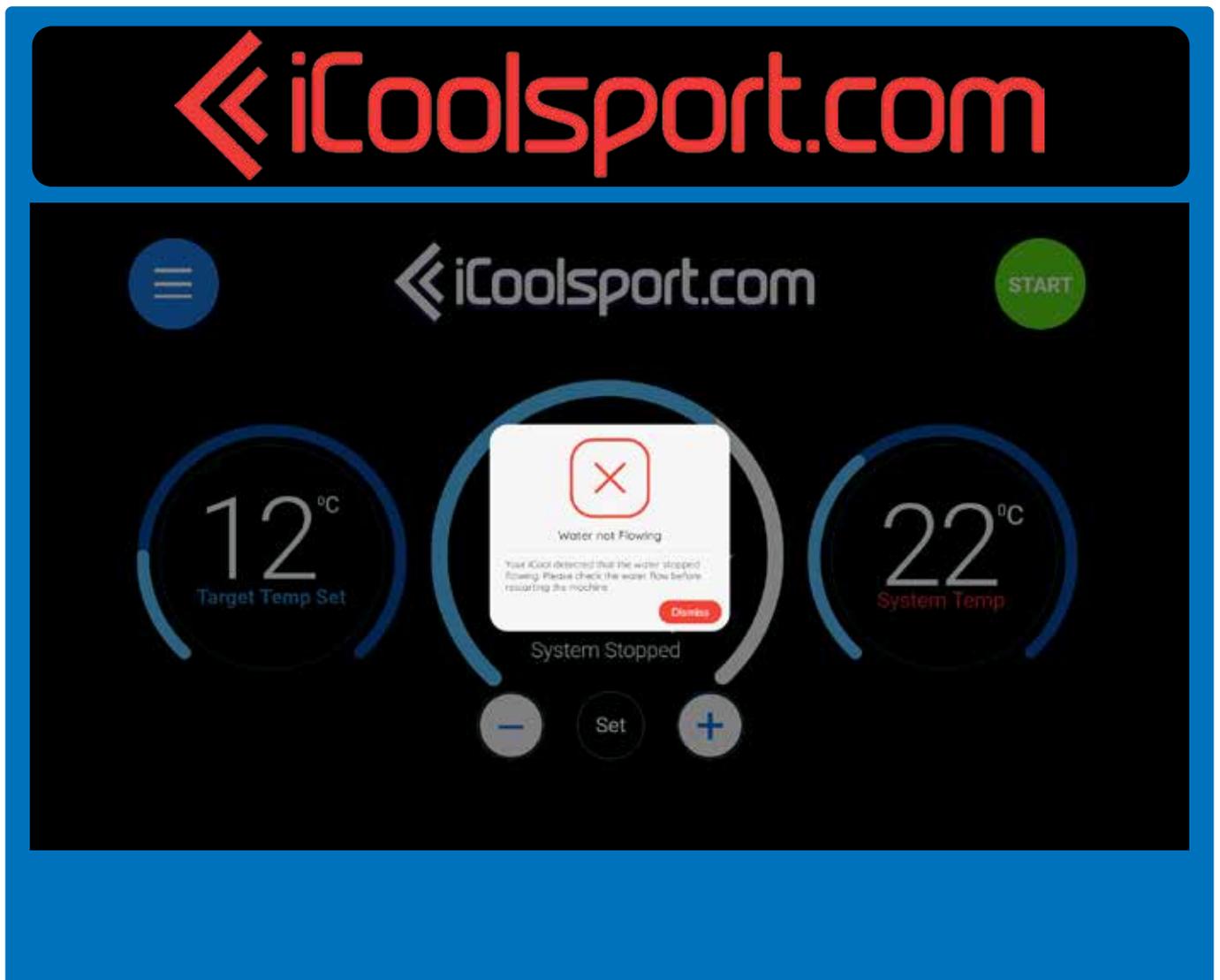
No action is needed, it will continue to operate correctly.



If the Compact Machine is Unable to Correct the Water Flow Problem Itself

An explanation will appear in the middle of the screen and the light bar will flash RED to notify you the machine has stopped.

Your iCool machine can not continue until the reason for the lack of water is found. See page 24. This is important because such a powerful machine could easily freeze the remaining water in the titanium heat exchanger tank solid and that could cause serious damage. The operating system will not allow that to happen.



Important Safety Warnings

Power Supply Voltage

iCools can only be connected to the voltage marked on the machine. They are manufactured as either 110v or 220v machines, **but they are not multi-voltage. Using a different voltage may cause severe damage.** All models can be used on both 50 Hz and 60 Hz AC supplies.

Built In Safety Systems

Your iCool has many essential safety features to protect against such things as:

- » A loss of water flow
- » Overheating of the system
- » Electrical shock protection

If any such potentially dangerous situation should occur, in most cases your iCool will sound an alarm, shut itself down and a warning screen will appear to assist you to identify and correct the problem. Further assistance is usually available under the “**Help**” menus.

In the case of overheating, the large main fan may continue to run for some time even after a shut down, until the temperature is safely back to normal.

For the safety of users, any leakage of even a small amount of electrical current will instantly cause the Residual Current Device to remove all electrical power from the entire system. The maximum leakage allowed is 30 milliamperes which is considered to be a generally harmless level.

An Approved Earth Connection Is Essential For Safe Operation

To ensure safe operation the AC power connection you use must have an earth connection that complies with your local electrical safety regulations.

Never Restart Without Identifying And Correcting Any Fault

In the unlikely event that your system shuts itself down for any reason, you must identify and correct the problem that has caused the safety system to operate before allowing anyone to use the iCool.

Electrical Power Connection

The power input socket on the side of your iCool must be connected to standard AC power capable of providing at least 13 amps in countries with a 220 V supply and 26 amps in countries with a 110 V supply. The iCool requires much less power than this for normal operation, however all heat pump compressor motors need considerably more power for up to a minute each time they start up and this must be allowed for.

Emergency Stop

In an emergency touch the ORANGE button on the MAIN POWER SWITCH or switch off the main power switch and all high voltage electrical power is removed instantly from the water pumps and cooling systems. **Please be sure all users of the spa pools are familiar with this function.**

In the event that any person is in difficulty in a spa pool or any other emergency situation arises, push the button and all machinery will stop and all high voltage power will be disconnected.

The Main Power Switch and Emergency [test] button are at the bottom of the left hand side panel and clearly marked.

Avoid Harsh Chemicals

Never use bromide as it is highly corrosive to all materials and can cause irritation to athletes eyes and skin. Bromide is unnecessary in cold pools because bacterial growth is much slower at low temperatures. A small amount of chlorine is all that is needed to keep the water safe. Use standard pool test strips to determine the amount needed. If the water is emptied after each session then no chemicals are needed.

Limits To The Electric Shock Protection System

The iCool residual earth leakage protection system can only protect against devices actually connected to the iCool. It can not protect against faults in other unrelated electric devices in the area. All electric devices in any pool area must only be connected to a power supply that has a residual earth leakage device either at the main switch board or on the device itself. **Never risk using unprotected electrical devices near water.**

Safe Temperature Settings

Following international safety recommendations your iCool will not accept water temperature settings below 5°C [40°F] as this would put athletes using the system at risk of hypothermia. Also it will not accept heating temperature settings above 45° C [112°F] to prevent any chance of scalding sensitive skin.

Advice About Pool Chemicals

If you are using your Compact Cool with an iCool brand fixed spa pool, the pool is provided with a high quality water pump especially designed for the purpose. The pumps we provide are resistant to chlorine and salt water at normal concentrations, but the use of chemicals should be kept within the range normally recommended for swimming pools to prolong the life of the pump and the titanium heat exchanger tanks inside the cooling unit.

Troubleshooting

Understanding Water Flow Problems

A water flow warning will display if the water flow does not begin or if it fails for any reason. Running the iCool with no water flow can cause serious damage because the heat exchanger tanks will quickly freeze. Frozen water expands considerably and this can cause damage to the tanks. Lack of water flow can seriously damage the pump as there would be no lubrication or cooling from the water.

Water Flow Can Also Stop If The Heat Exchanger Tanks are Frozen Solid

If you set the temperature below about 7°C or 45°F it is occasionally possible in certain climatic conditions for the heat exchange tanks to freeze solid. This will block most or all of the flow of water. It should be understood that in order to cool the pool water to these extremely low temperatures the system must cool to at least 5°C below the set temperature to allow for losses and this takes it very close to the temperature that water freezes solid. There is an anti freeze safety circuit in your iCool to prevent this in most cases.

If the tanks freeze up, the system will stop to protect the tanks and the screen will sound an alarm and give advice.

Allow 30 minutes for the ice to melt and then set the temperature a little higher and restart. Normally settings above 8°C or 45°F will not freeze the tanks in any conditions.

The tanks can only freeze if your setting is below 7 to 8°C and this can only happen in certain conditions. If your set temperature is above this then it is much more likely that the system has stopped because of a lack of water flow caused by either a pipe or filter obstruction, or an air leak in the hoses or pipes from the spa pool, or trapped air in the system.

After thawing, set a new temperature no lower than 8 or 9°C before restarting to prevent the tanks freezing again.

If this becomes a problem then adding a little salt to the water will lower the temperature at which the water freezes.

International Multi-Voltage Pump

Your iCool machine will either come with a 220 volt Davey Pump or an International Multi-voltage Pump [Marlin]. The latter is supplied for countries with 110 volt power however it can also be used with 220v power. It has a range of power settings to suit different pool sizes and hose lengths.

If you were provided with this pump, please follow instructions below on how to operate the pump and solve water flow problems:

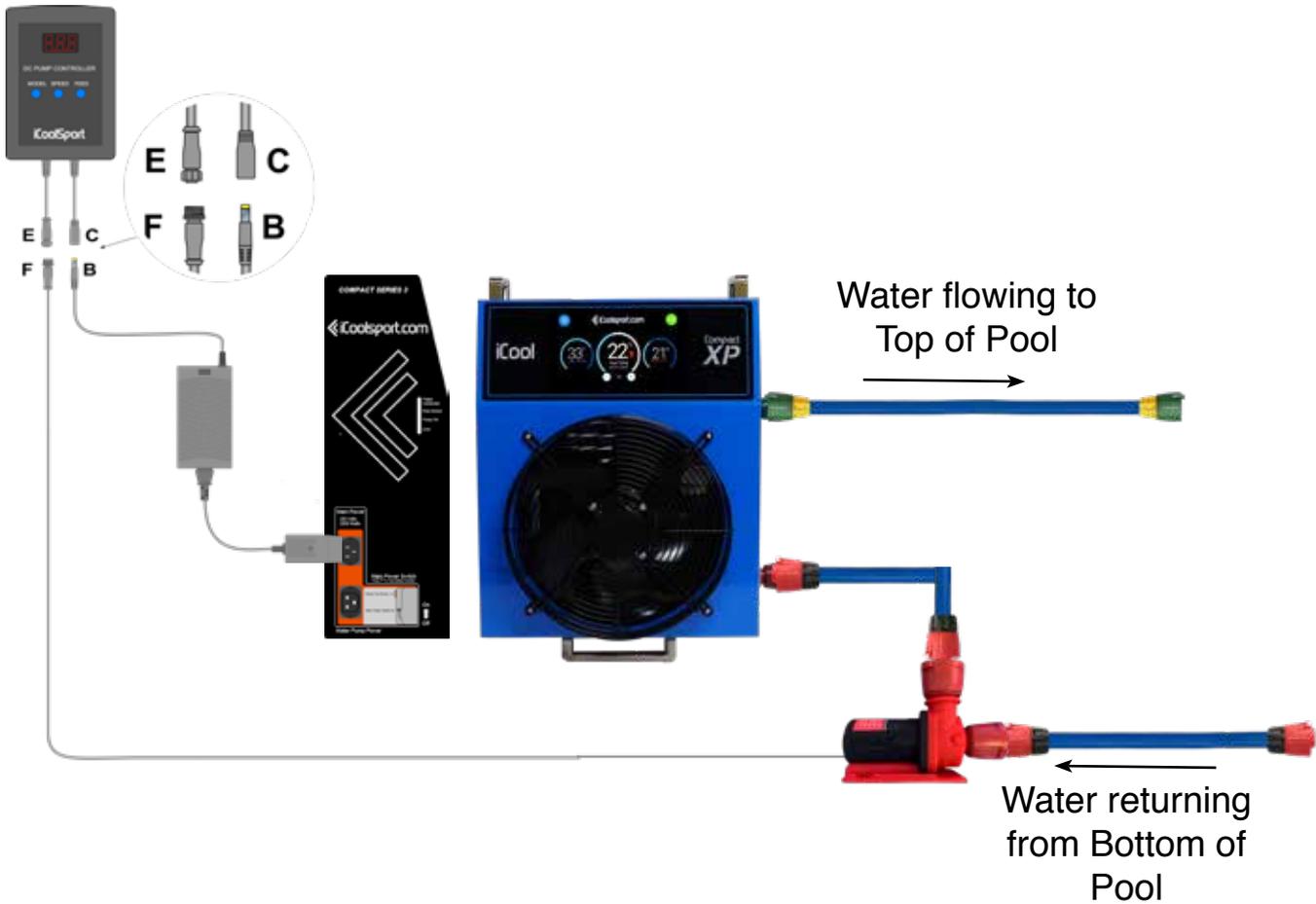
- When setting up your iCool, connect the pump and the Pump Controller as per the image on the right.
- When your iCool starts up, it will automatically

power this pump on its lowest power setting.

- » If you need a more powerful water flow, the power can be increased in steps by repeatedly pressing the SPEED Button.
- » This may be necessary if you are using an inflatable pool that may be restricting the water flow and the error E07 appears. The water is simply not flowing correctly and it is due to air trapped in the hoses. Your iCool machine has a water flow sensor and will shut down if this happens. Increasing the speed of the pump will solve this problem.

Do Not Operate The Spa Jets For Long Periods

If your pool has spa jets it is best not to leave them running because spa jets inject the warm room air in to the water for a better massage effect, however this adds all the room heat to the water and will cause the Compact to run longer to remove this extra heat. So this just wastes electricity and will slow the cooling process.



Troubleshooting

If Your Screen Freezes Or Fails To Respond

This is a very rare issue. If the screen freezes while the iCool is running normally, the main computer will usually still carry on running the system and monitoring the safety features but you will not be able to change anything and the displayed temperatures will not update. You can either allow it to keep running if that is more convenient, or you can restore the system to normal operation by switching off the main power and re starting.

If The iCool Shuts Down Repeatedly And Displays A “No Water” Warning Screen

To protect the pump and the Titanium heat exchanger tanks, the system will not allow operation unless the water flows correctly. If water does not flow smoothly or if there is air trapped in the system for more than 2 minutes the safety system will first attempt to fix it by causing the pump to surge a few times, but if that fails it will direct a shut down for safety.

If The iCool Shuts Down And Displays A “System Too Hot” Red Warning Screen

Your Compact Cool can move large amounts of heat per hour. Naturally this heat has to be removed into the air surrounding the system. The powerful fan can normally handle this with ease, however if the air flow around the iCool is restricted so that the heat can not escape, or the outside air temperature is more than 45°C, eventually the system will reach the limit of it's safe operating range. If the temperature inside the cabinet reaches 70°C the safety system will shut it down, sound an alarm and display the warning screen. Make sure that the fan and the condenser fins on the Compact Cool are not covered or restricted and that the area has a good flow of fresh air. On very hot days when the air temperature is more than 45°C it may not be possible to run the system at full power due to the excessive heat.

Cooling a pool that has previously been heated can also cause a heat overload warning and shut down. This will only occur if the pool is still above 30-35°C. It is good practice to allow the heat to reduce naturally to below 30°C before starting the cooling cycle. This also saves a lot of electricity.

Operation In Very Cold Weather

Compact Machines specifically ordered for countries that have weather conditions below freezing may have an anti-freeze system installed.

This function is automatic and will cause the machine to stop occasionally to melt any build up of ice.

Operation In Very Hot Weather

iCool Compact machines are very powerful and capable of removing up to 7,500 watts of heat from the water. [25,000 BTUs] Depending on the model.

To remove waste heat from the powerful heat pump a powerful high flow cooling fan is installed. The fan is designed to move up to 3000 cubic feet of air per minute. Air flow must never be blocked by any object.

If the temperature inside the Compact exceeds 70°C the over heat safety circuit will operate and shut it down. The screen will give advice as to when it can be safely restarted. This may occur in very hot weather, or if the airflow is blocked by being placed too close to a wall or if an object such as a bath towel is blocking the air flow.

Never place the back of your iCool machine closer than 250mm (10 inches) from a wall or other obstruction that could restrict the flow of cooling air.

Most Problems Can Be Resolved Quickly By Phone Or Email

iCool has an excellent reputation around the world for product reliability and prompt customer service.

We have some build-in ways to work around partial failures. Our staff can assist you through the phone numbers or e-mails of our factory or our authorized distributors around the world listed on our web site under CONTACT.

We can ship spare parts anywhere in the world very quickly and our distributors in many countries also carry spare parts.

Specifications*

Specification	Compact Cool	Compact Dual Temp	Compact XP	Compact XP Dual Temp	Compact Iceman
Cooling Power	5000 Watts	5000 Watts	7200 Watts	7200 Watts	7800 Watts
Heating Power	Chill Only	5000 Watts	Chill Only	7100 Watts	Chill Only
Run [6 Max.] Power 220 Volts	5 Amps [12 Amps]	6.5 Amps [13 Amps]	7.5 Amps [14 Amps]	7.5 Amps [14 Amps]	7.5 Amps [14 Amps]
Run [6 Max.] Power 110 Volts	10 Amps [20 Amp]	13 Amps [26 Amps]	15 Amps [28 Amps]	15 Amps [28 Amps]	13 Amps [26 Amps]
Heat Pump Type	Rotary	Rotary	Rotary	Rotary	Rotary
Earth Leak Safety Device	Yes 30 Milliamps	Yes 30 Milliamps	Yes 30 Milliamps	Yes 30 Milliamps	Yes 30 Milliamps
Titanium Heat Exchanger Tank	Yes	Yes	Yes	Yes	Yes
Roller Bearing Transport Wheels	Yes	Yes	Yes	Yes	Yes
Stainless Steel Handles	Yes	Yes	Yes	Yes	Yes
Fully Automatic Operation	Yes	Yes	Yes	Yes	Yes
Hi Resolution LCD Colour Touch Screen	10 Inch High Definition	10 Inch High Definition	10 Inch High Definition	10 Inch High Definition	10 Inch High Definition
Electrically Isolated Pump	Supplied by built in R.C.D	Supplied by built in R.C.D	Supplied by built in R.C.D	Supplied by built in R.C.D	Supplied by built in R.C.D
Air Flow Capacity	Low Noise 2000 Cubic Ft per Minute	Low Noise 3000 Cubic Ft per Minute	Low Noise 3000 Cubic Ft per Minute	Low Noise 3000 Cubic Ft per Minute	Low Noise 3000 Cubic Ft per Minute
Power Plug	3 Pin Heavy Duty to suit country	3 Pin Heavy Duty to suit country	3 Pin Heavy Duty to suit country	3 Pin Heavy Duty to suit country	3 Pin Heavy Duty to suit country
Weight Kilos / Pounds	32kg 72 Lbs	36kg 79 Lbs	39kg 85 Lbs	39kg 85 Lbs	39kg 85 Lbs
Dimensions H. W. D. Centimeters	24 x 19.5 x 9.5	24 x 19.5 x 9.5	24 x 19.5 x 9.5	24 x 19.5 x 9.5	24 x 19.5 x 9.5
Recommended Pool Size	Ideal for smaller pools from 200 to 400 litres.	For smaller pools from 200 to 400 litres. Pool cover necessary in heating mode.	Pools from 300 to 2000 litres, ideal for warmer weather or faster cooling.	Pools from 300 to 2000 litres. Pool cover necessary in heating mode.	300 to 2000 litres, best model for fastest cooling and hot weather.

Materials	
Cabinet and Chassis	Marine Grade Aluminium
Coatings	Heat Fused Appliance Grade Enamel
Heat Exchanger	Titanium
Heat Pump Plumbing	Commercial Refrigeration Grade Copper
Handles	Stainless Steel
Plastic Panels	Co Extruded Acrylic

*Notes About Specifications

iCool Systems are sold all around the world and these specifications may be different for units delivered in your country due to local conditions or regulations or other factors. Also certain specifications may change due to ongoing research and development, because we are constantly improving our products.

We welcome your feedback and suggestions and we offer support for general inquiries and information for specific countries on our website at **icoolsport.com**

Thank You For Choosing iCool The World's Most Popular Ice Bath Therapy And Recovery Systems.

Warranty

iCool products are covered by a standard One Year Warranty. Please keep your proof of purchase details in a safe place; you will need to have this documentation available should the product require attention under warranty. Providing the details below will make the warranty process quicker and easier:

- › Product Model
- › Product Model Series printed on the Owner's Manual [Ex: Series 3]
- › Serial Number printed on the Rating Label affixed to the machine
- › Retailer [Country and Name]
- › Date of Purchase and Proof of Purchase

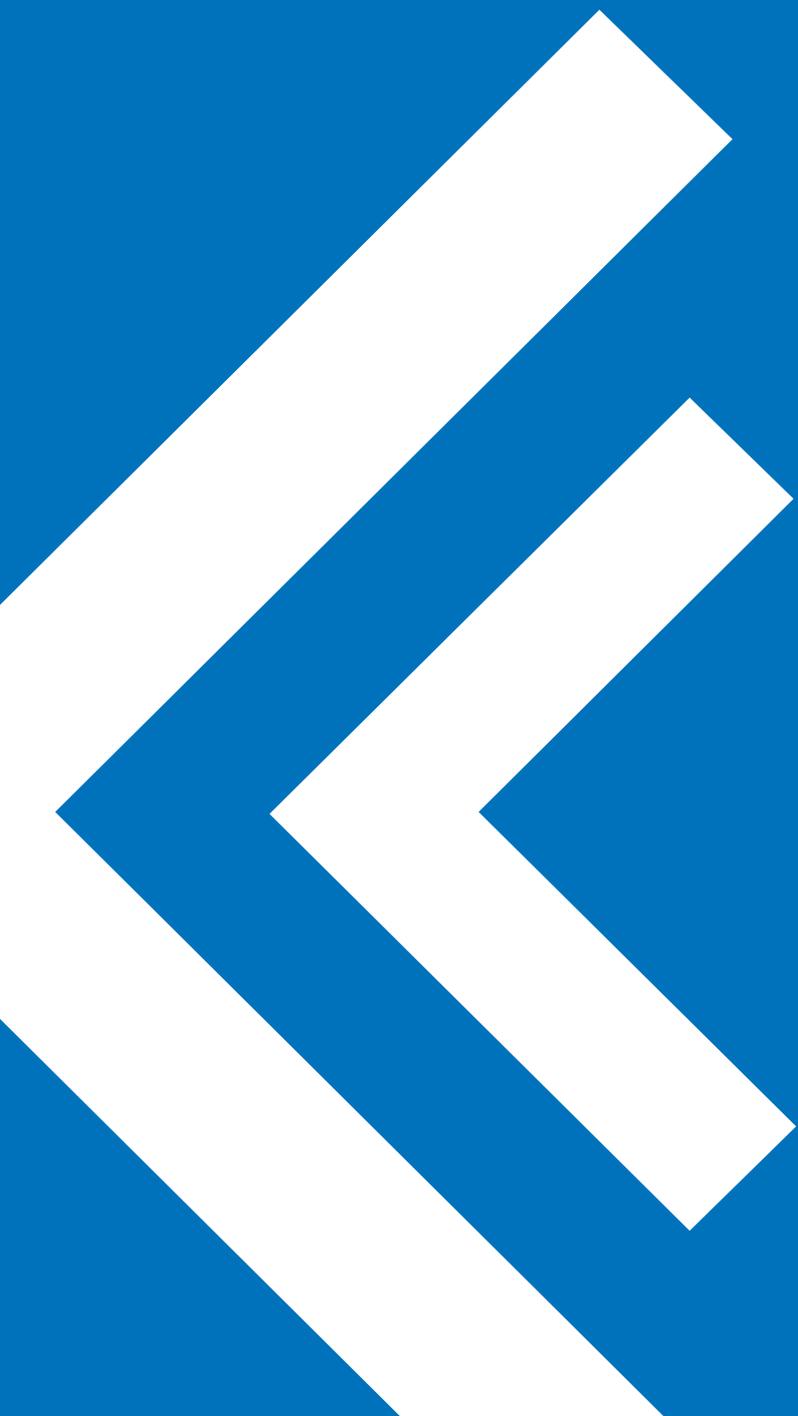
Our Customer Support Is Available 7 Days A Week

Just email us at info@icoolsport.com and we will respond with assistance usually the same day.

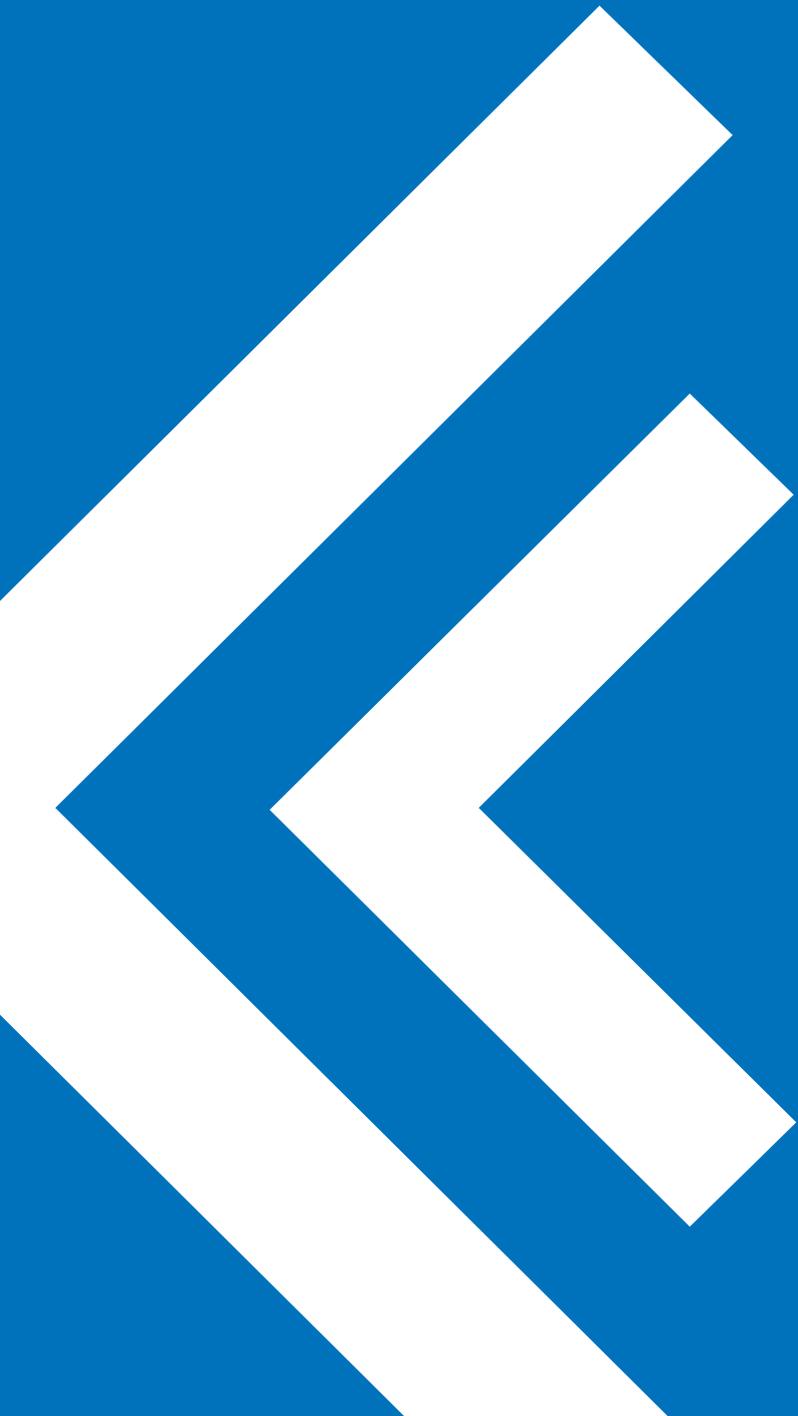
As our factory and service staff are based in Australia, please allow for a short delay due to time zone differences. We also have representatives in many countries who can often provide local support. Just contact us and we will do our very best to assist you quickly or direct you to a representative in your country.

iCoolsport

“The industry leader in
ice bath technology.”



iCoolsport



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☎ +61 428 944 741

📍 Burleigh Heads, Gold Coast, Australia

🌐 Representatives around the world

🌐 icoolsport.com