iCoolsport

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Compact Series

Compact Cool

The Compact Cool is a popular lower cost system for fast cooling of a single person pool up to 350 litres (90 Gallons). It provides impressive cooling power of 4000 watts. Fully automatic control and excellent mobility. Very quiet operation with the latest technology powerful low noise turbo fan.

Compact Dual Temp

The Compact Dual Temp provides all the power and functions of the Copampact 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. Best suited to pools up to 350 litres (90 Gallons).

Compact XP

The Compact XP provides the most powerful advanced heat pump ever available in a cost effective mobile system. 7000 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 for pools up to 2000 litres (500 Gallons).
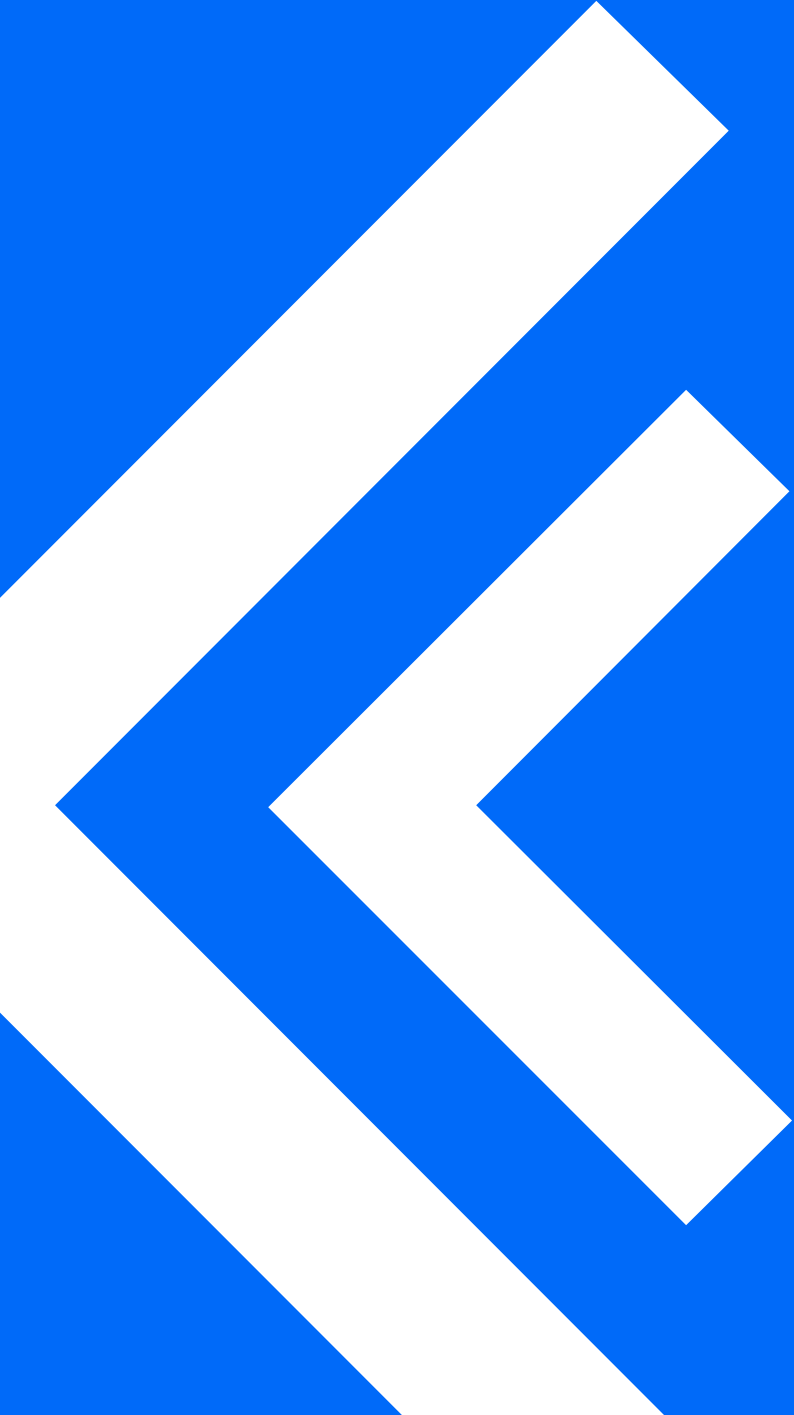
Compact XP Dual Temp

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

The Compact Iceman is more powerful than any other compact icebath chilling system and 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 respect for the cutting edge achievements of Whim in recovery technology.

Key Features of the Compact Range

≫ Ideally suited to small and medium sized baths up to 2000 litres (500 Gallons).

≫ Use with iCool iSprint, iTeam, iSquad and IcePod Compact pools.

≫ Supplied with large colour touch screen controller, complete hose sets, industrial water pump and accessories.

iCoolsport

"The industry leader in ice bath technology."

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Basic Setup

Step 1: Connecting The Power Box To Your Compact iCool

» Plug the pump Power Box "**A**" in to the socket marked "**G**" (Pump Power Out).
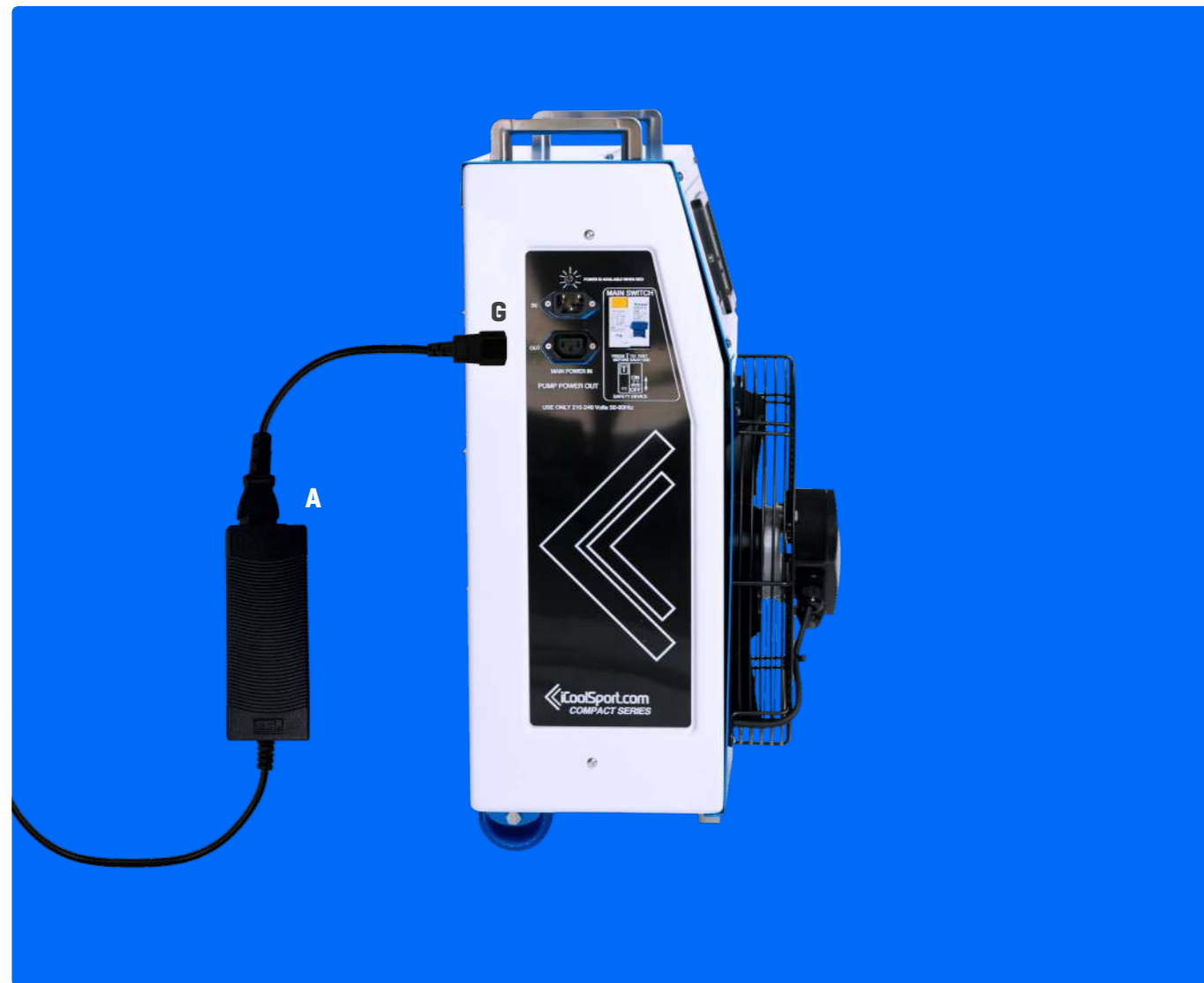
Step 2: Connecting The Pump Controller to Your Power Box

» Connect the small cable from power box "**B**" in to the socket "**C**" on Pump Controller "**D**".

Basic Setup

Step 3: Connecting The Pump Controller To Your Pump

≫ Connect the Pump plug "**E**" to the Pump Controller socket "**F**".
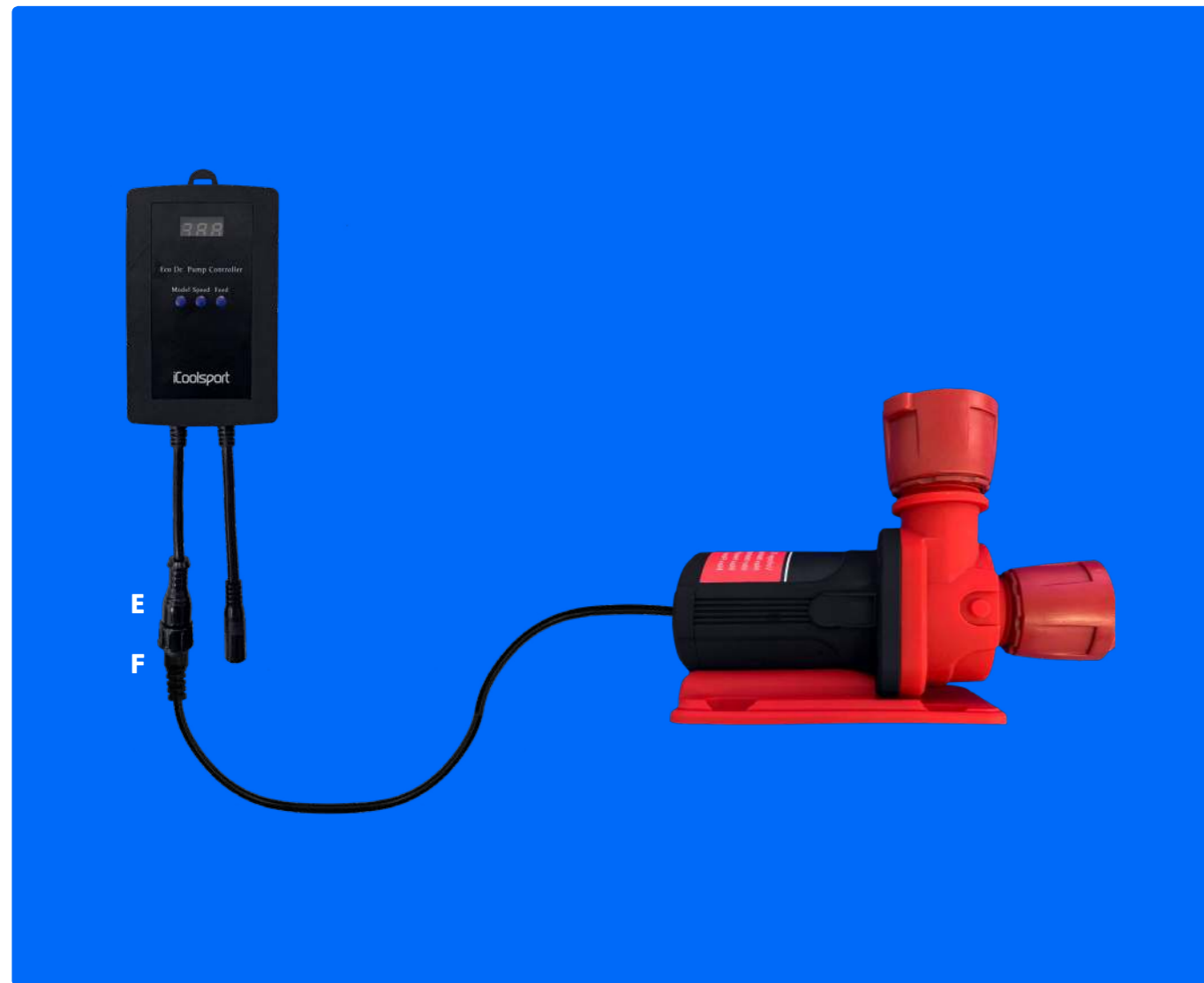
Step 4: Connecting Water Hoses To Your Compact iCool

≫ Attach the quick connect fittings of the water hoses to your Compact iCool. Green "**H**" to green "**J**" and red "**I**" to red "**K**". (Line up the white marks and twist one third clockwise to seal.)

02

Basic Setup
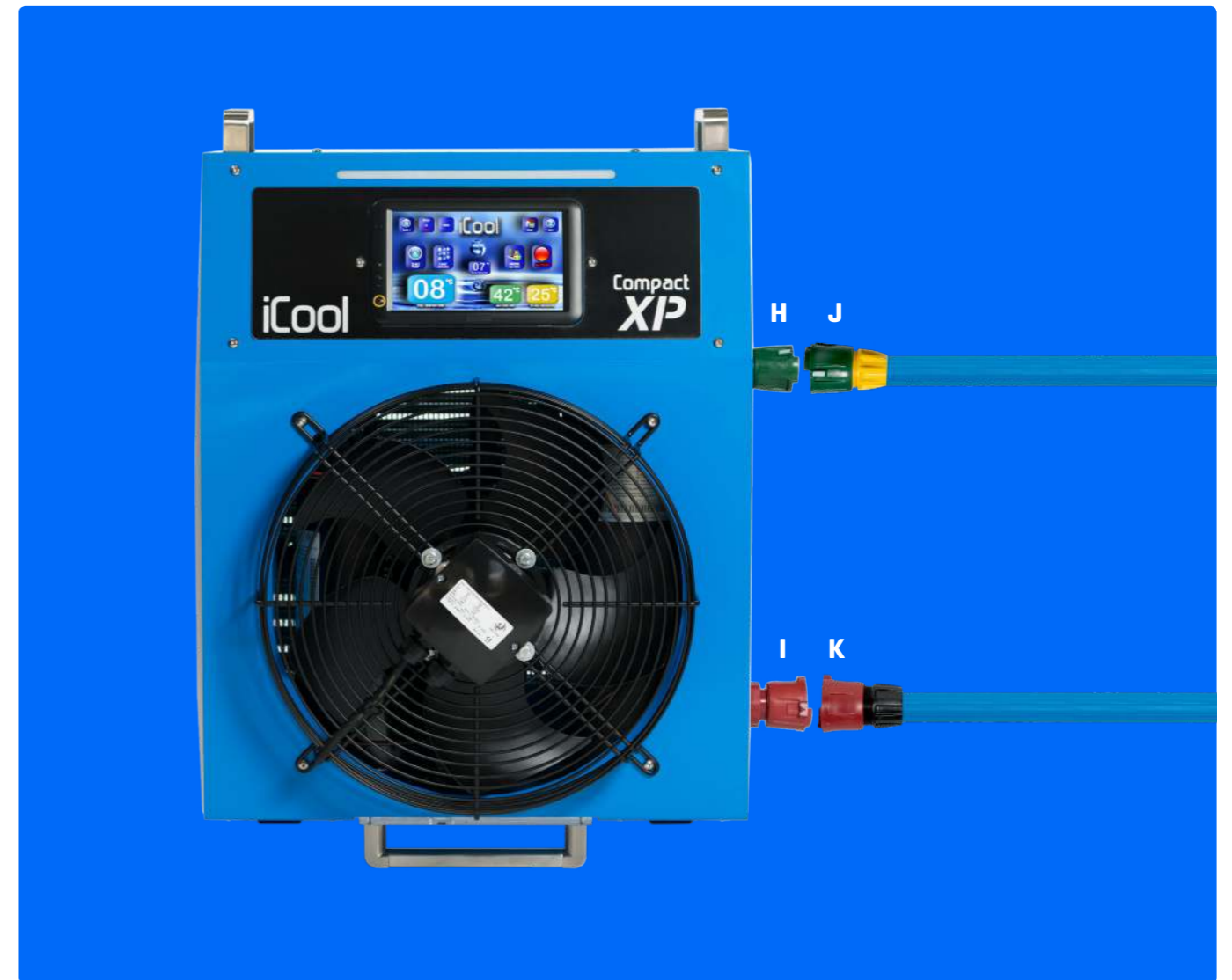
Step 5: Connecting Your Pump To Your Compact iCool

❯ Attach the red quick connect fitting "**M**" of the water hose to your Pump fitting "**L**". Then Attach the red quick connect fitting "**N**" of the second water hose to your Pump fitting "**O**".

Step 6: Connecting Your Compact iCool To Your Pool

❯ Now that your Compact iCool is all connected and ready to go, you can connect to your Cool iSprint, iTeam, iSquad and IcePod Compact pools or even your own pool or bath tub by connecting hose fittings "**P**" and "**Q**".

Typical Hose Set Provided

❯ 2x Bottom Hoses with "**Red**" fittings
❯ 1x Top Hose with "**Green**" fittings
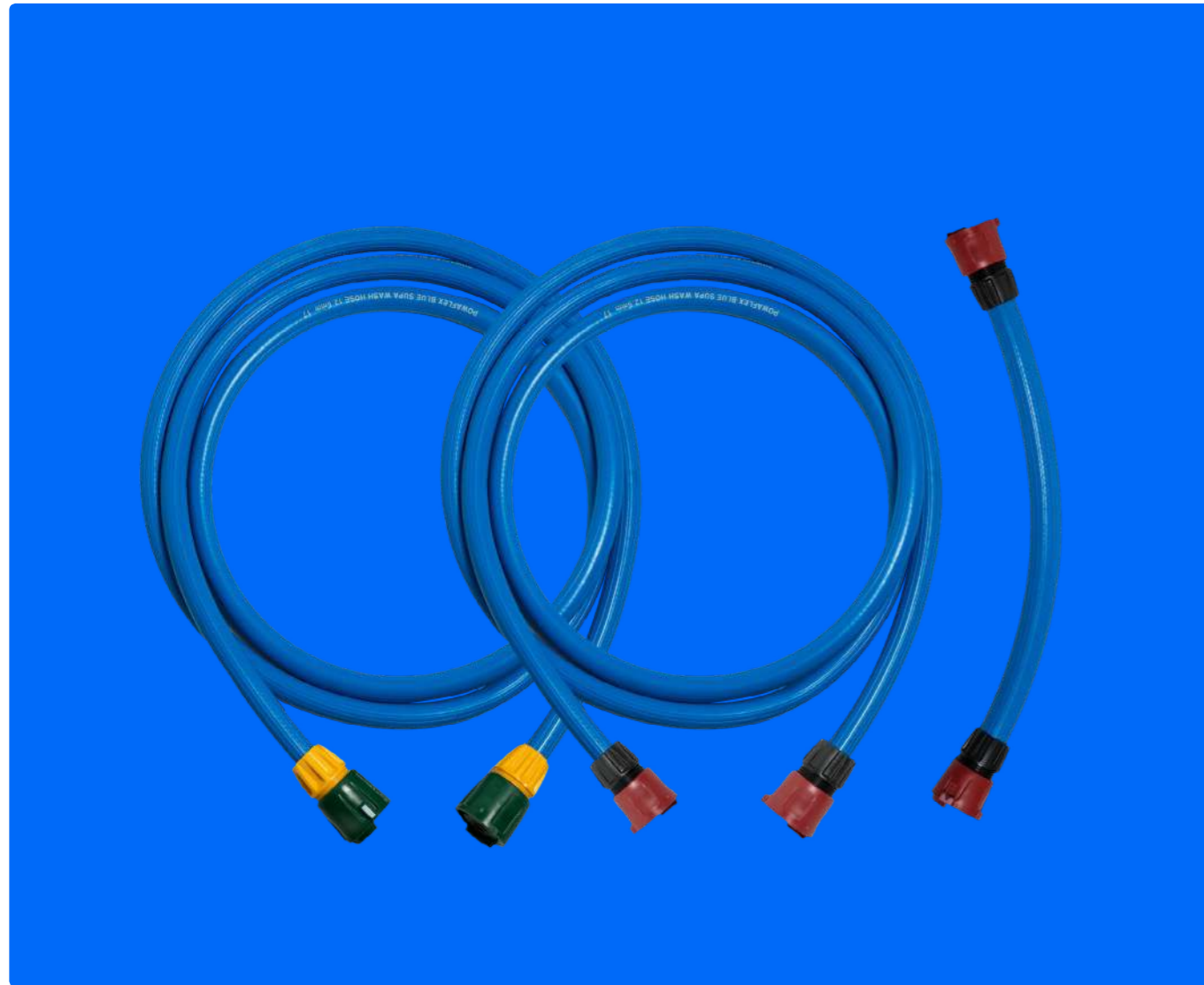
To Connect The Fittings

❯ Line up both white marks.
❯ Push firmly together.
❯ Twist 1/4 of a turn clockwise to lock.
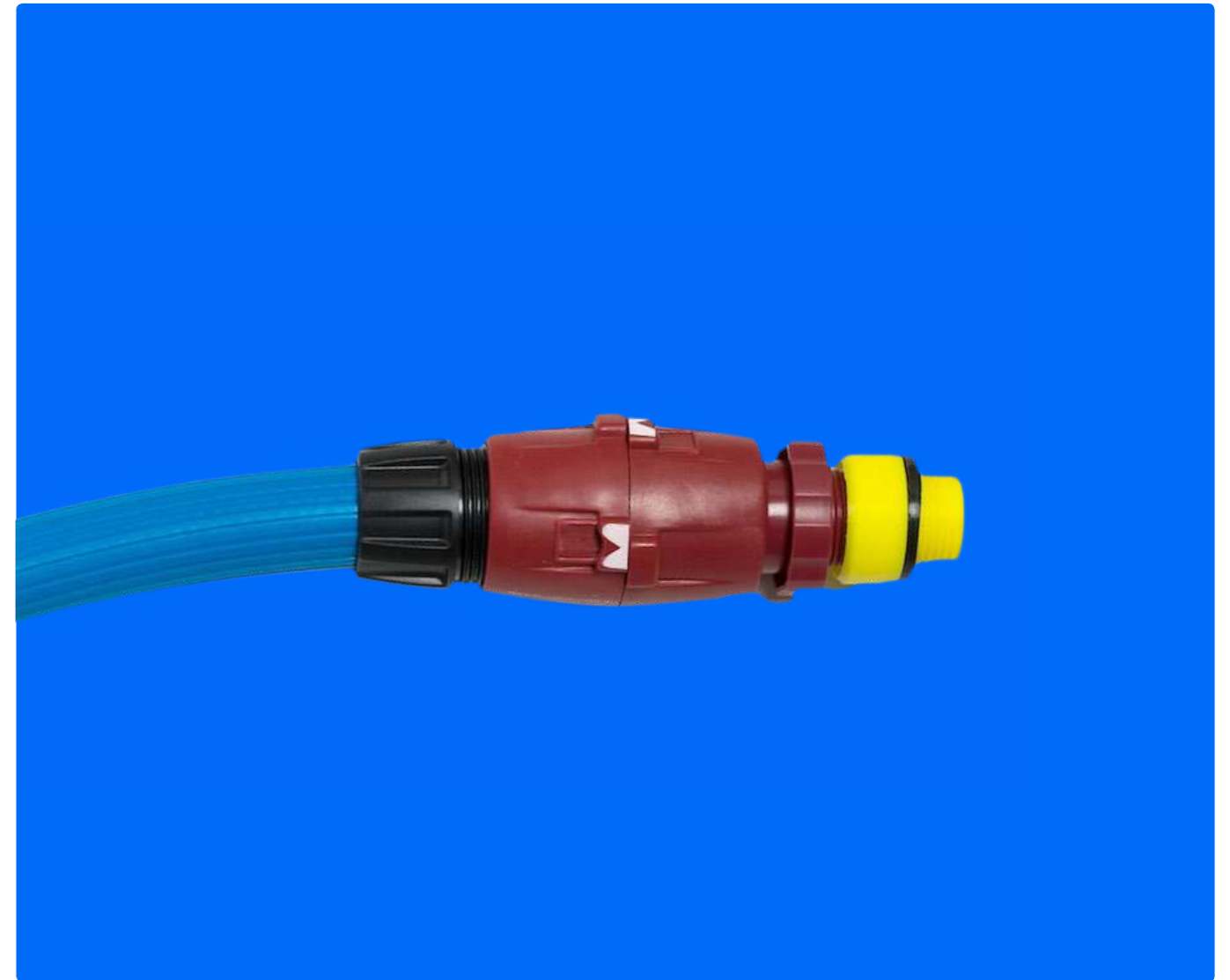
03 Assembling Hose Fittings

Water Fittings Are White, Air Fittings Are Black

Remove the white drain caps from the water inlet and outlet of your pool. Then remove the black O rings "**B**" from each cap. The white caps are not required when using an iCool machine they are only needed if you use your pool with ice.

Assembling Hose Fitting

Place the black O ring on to the thread adaptor "**A**" and attach it to the quick connect fitting "**C**"

You should now have an assembly that looks like illustration "**C**". Please note that for clarity the connector for the bottom of the pool is always red and the conncector for the top of the pool is awlays green.
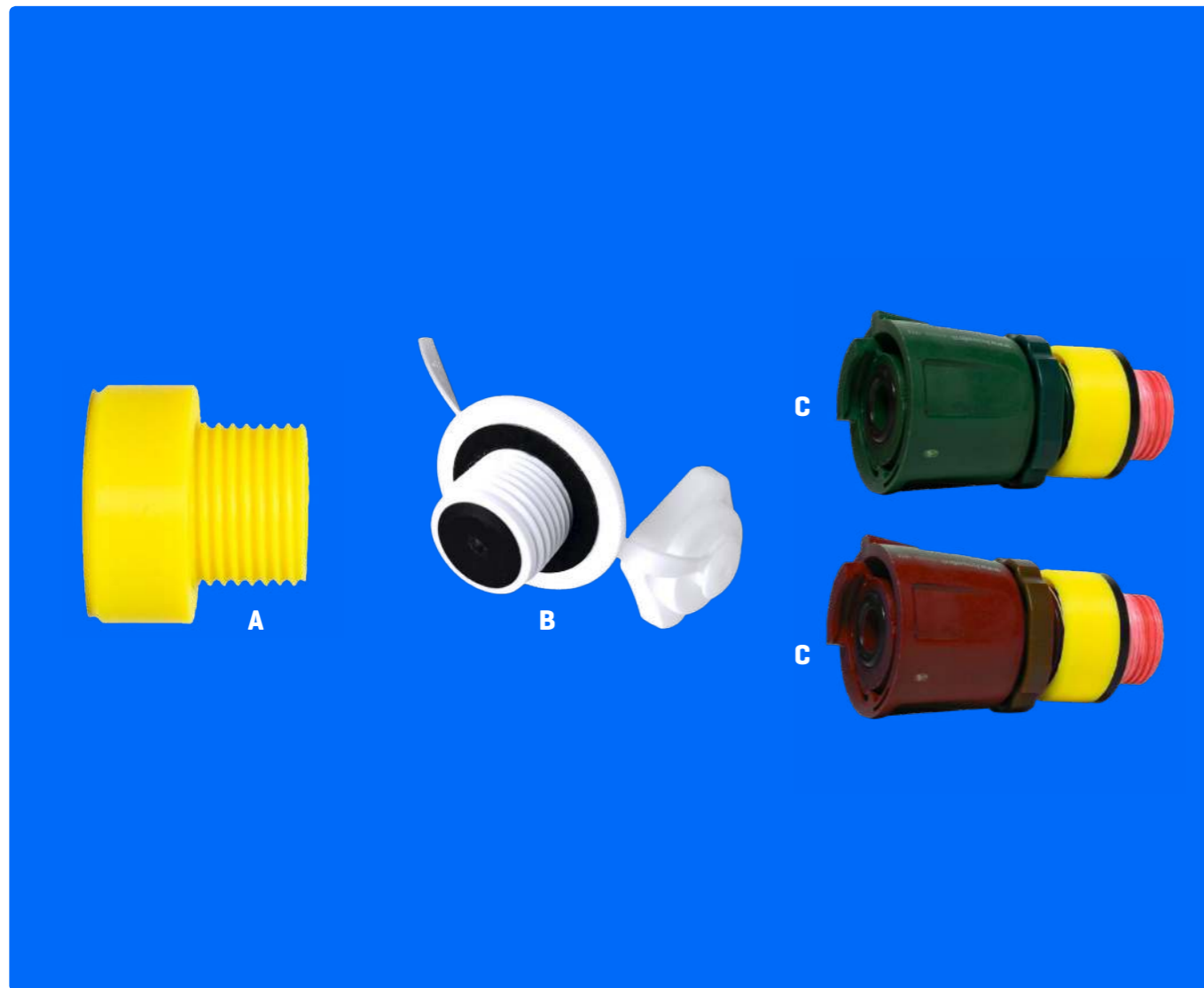
Connecting The Hose Fitting To Your Pool Or Bath

Connect this assembly to your pool using plumbers tape to ensure a leak free attachment.

The top water inlet is done the same way except that the quick connect fitting "**C**" is Green.

02   Important Safety Warnings

Power Supply Voltage

iCool's 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 Htz and 60 Htz 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 box on the rear of your iCool must be connected to standard AC power capable of providing at least 20 amps in countries with a 220 V supply and 40 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.

The Emergency Stop Button

When the emergency stop button on the touch screen wall box is pushed at any time, 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.

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 5ºC (40ºF) as this would put athletes using the system at risk of hypothermia. Also it will not accept heating temperature settings above 45º C (112ºF) to prevent any chance of scalding sensitive skin.

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.

Advice About Pool Chemicals

If you are using your Compact iCool 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.

Understanding Water Flow Problems

The water flow warning screen 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.

If you are absolutely certain that the system is stopping because of a false or overly sensitive water flow alarm, there is a provision to over ride the automatic shut down, but please be warned that once you disarm the flow safety monitor, nothing will stop the system even if water is not flowing, Therefore this over ride function is only to be used for short periods where it is essential to keep your system operating until the reason for the false alarm can be determined and corrected.

To over ride the water flow monitor touch the **Disarm flow safety sensor** button on the touch screen.

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

If you set the temperature below about 7ºC or 45ºF 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 5ºC 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 8ºC or 45ºF will not freeze the tanks in any conditions.

The tanks can only freeze if your setting is below 7 to 8ºC 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 9ºC 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

Operation In Very Hot Weather

Your Compact iCool is very powerful and is capable of removing up to 15,000 watts of heat from the water. (50,000 BTUs)

To remove waste heat from the 2 powerful heat pumps in each Compact iCool a powerful hi flow cooling fan is installed. The fan is designed to move up to 4000 cubic feet of air per minute. Air flow must never be blocked by any object.

If the temperature inside the Compact iCool exceeds 70ºC 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.

Do Not Operate The Spa Jets For Long Periods

The spa jets inject the room air in to the water for a better massage effect, however this adds heat to the water and will cause the Compact iCool to run longer to remove this extra heat. To save electricity turn off the jets when not in use.

Operation In Very Cold Weather

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

A button above the glass side panel operates the system. The button will glow red when the anti-freeze system is active.

This should only be operated when the air temperature drops below 5ºC.

Do not operate in normal weather conditions as this will waste electricity.

03 Operating Your iCool System

Step 1: Turn On The Main Power

When you turn on the power for the first time the system will load the latest software from its memory and run a diagnostic self test routine. This will take about 1 minute and the screen will be black for about 10 seconds. Don't touch it during this time.

The "**Status Lights**" bar above the touch screen will change colour or flash to give a clear indication of each function. The status bar will flash white while the software loads and the system is checked. Once the software is loaded and tested a "**Welcome Screen**" will appear. If you requested a personal logo screen with your order, a screen that looks similar to the examples shown below will appear instead, displaying the artwork you requested, Otherwise the standard iCool welcome screen will appear. (Bottom left) Touching the "**Welcome Screen**" (or your personal logo screen) anywhere will stop the light bar flashing and show a steady white light to indicate that the systems check was successful and that your iCool is now ready to use.

What the colours mean:

» Status bar lights glow **Blue** when only the pump is running.

» Status bar lights glow **Green** when the cooling system is running correctly.

» Status bar lights glow **Red** when the heating system is running correctly.

All Of The Functions Of Your Compact iCool Are Controlled By The Colour Touch Screen

The high-resolution touchscreen eliminates switches and provides complete control over your system in a user-friendly and intuitive manner. It also provides a substantial amount of additional information to assist you.

Once You Have Entered Your Required Settings, Operation Is Fully Automatic

Compact iCool will cool (or heat) to your set temperature and maintain that temperature as long as the system is turned on. There are a number of essential safety functions that are constantly monitored and the system will take automatic action if a safety issue occurs and in most cases the touch screen will give advice about the problem.

Touch The Welcome Screen Anywhere And The Main Operating Screen Will Appear

Main Operating Screen

Step 2: Select The Required Temperature

The main operating screen (top left) appears when you touch the "**Welcome Screen**". It provides many options which are covered in detail later in this manual, to quickly start the system you can simply accept the automatically inserted water temperature setting of 15ºc.

The two most commonly used temperatures for ice bath sessions are pre set for your convenience. 15ºc is inserted automatically on start up and you can just accept this and continue. If you choose "change settings" then the temperature selection screen appears (top right) and 10ºc is automatically set.

If you require a different temperature then after touching the "**Change Settings**" button, the Screen will change to the temperature selection screen you have the option of changing to any

Temperature Selection Screen

temperature you require by simply touching the up and down arrow buttons. As you make changes the new pool water temperature setting will appear on the screen in a blue window marked "**Selected Temperature**" . The right-hand side of this screen shows the outside air Temperature.

Once the pool water temperature you want, touch the "start" button (next to the up down arrows). This takes you back to the main operating screen. If you did not need to use the temperature selection screen and accepted the pre set 15ºc, then you will already be in the main operating screen.

Please Note: The temperatures can also be displayed in fahrenheit. This can be changed on the "**Home**" page under "**Preferences**".

Step 3: Start The Water Pump

Touch the "**Start Pump**" button. The pump will begin operating and water should begin circulating within a minute or so. **Please Note:** When you touch the main buttons they change from "**Start**" buttons to "**Stop**" buttons and can then be used to Stop that function if required.

Do not touch the "**Start System**" button until you are sure that water is flowing smoothly. If water does not flow smoothly within two to three minutes an alarm will sound and the pump will stop . A red warning screen will appear with information about how to correct the water flow problem. Please check the plumbing for air leaks, or if using the optional filtration system check that it is not blocked and there is water in the filter housing and no air trapped. If your pump has a debris filter basket, check the basket.

Water must be flowing correctly before you touch the "**Start System**" button. The water flow is pre set to an optimum flow to allow time for the heat exchangers to operate at maximum efficiency and maintain the proper pressure. Pool water is completely changed approximately every 10 to 15 minutes in a 6 person spa.

Step 4: You Are Now Ready To Start The Automatic Cooling System

Now that you have pre set your desired temperature and started the circulating pump, the touch screen should look like the picture above. (Of course your temperatures may be different). Notice that the pump button will have changed from "**Start**" to "**Stop**" You can use the same buttons to start and stop the pump and system at any time.

Now, touch the "**Start System**" button and the cooling cycle will begin . The water will be automatically cooled to your preset temperature and the system will then cycle up and down to maintain that temperature automatically for as long as the main power is turned on. The **Digital Power Management System** will reduce electricity cost where possible.

If you don't hear the heat pump's compressor motors start do not touch the "**Start System**" button again, they will start automatically after a 3 minutes safety period elapses. This is to avoid overloading the compressors if gas pressure is high. Normally you will hear the first heat pump start immediately and the second one 2 minutes later if more cooling power is needed. This is automatically controlled by sensors.

Your turbo is a dual temperature machine, it is capable of either heating or cooling the water automatically to any preset temperature used in athlete recovery sessions. To use the heating mode you must switch between heat and cold.

Using your touch screen tap the button named hot cold. Then another screen will appear that allows you To select either heat or cold . A small red light shows which function is selected. Now touch the back 1 button to return to the main operating.

Important Note: Do not operate the heat/cold changeover switch while the Compact iCool is running this could. Damage the heat pumps.

How To Operate in Heating Mode

The auto pre set of 15ºc will need to be changed to a suitable warm temperature for typical athlete contrast therapy, normally between 36 and 42ºc. Simply touch the "**Change Settings**" button and the change settings screen will appear. Use the up down arrows to set the hot temperature you require, then touch start to go back to the main operating screen. Then, everything is the same as in the cooling mode. Start the pump, check that the water is flowing smoothly and then start the system. The status bar above the screen will turn red to indicate that the Compact iCool is heating.

Temperature Safety Limitations

For the safety of users, you cannot set temperatures below 5°C or above 45°C (40°F - 112°F) because of the dangers of hypothermia in the case of an unattended athlete using an ice bath, or above 45°C/112°F in the heating mode because of the risk of scalding. These temperature limits have been set after wide consultation with the sporting industry around the world. There are no demonstrated benefits in using water temperature lower than 5°C or above 45°C and therefore the risk of doing so is not justified.

Stop Operating In An Emergency

You can stop all functions immediately by touching the "**All Stop**" button on the touch screen, or by hitting the emergency stop button on the remote control panel.

05

More Information

Main Operating Screen

Pool Temperature Window

The "**Pool Temperature**" window shows the actual water temperature returning from the pool. This may vary slightly to the temperature measured in the pool because, for safety reasons, the electronic sensors are in the cooling unit, not in the pool. The sensors accurately read the actual temperature of the water that is returning to the pool. The actual pool water temperature may be slightly different depending on your setup, however the temperature of water returning from the Compact iCool is always accurately maintained within 1 degree. If the pool temperature is a bit different you can simply add or subtract an offset amount to compensate when selecting your required temperature.

Heat Pump Temperature Window

The "**Heat Pump Temperature**" window shows the temperature inside the cabinet. If this exceeds 70°C or 158°F the system will shut down, an alarm will sound and a warning screen will appear. This could happen in extremely hot conditions or if the unit is covered by an object such as a towel or anything that prevents proper airflow, or if it is operated with poor ventilation.

Outside Temperature Window

The "**Outside Temperature**" window shows the current air temperature around the Compact iCool. It is not desirable to operate this system in temperatures above 42°C or 108° F. If the reading exceeds this you may need to improve the air flow. Because the Compact iCool expels a lot of cold air while in the heating mode, the indicated outside temperature may read quite low because it is reading this cold air.

Preset Temperature Windows

The "**Preset Temperature**" windows always shows your selected temperature. This is the temperature the water will be automatically cooled (or heated) to and maintained at. "**Change Settings**" You can change your preset temperature at any time by touching the "**Change Setting**" button, this will take you to the Change Settings Screen. From here you proceed as described on page 13.

Main Operating Screen

Help Window

The "**Help**" window on your iCool has a some built-in electronic help screens. These screens mostly apply to our mobile and portable units. Very rarely the help programs can cause a computer crash. If this happens simply restart the iCool and normal operation will be restored.

Back 1 Button

You can flip backwards to the previous page using the "**Back 1**" button on the right-hand side of the help screens or you can return to be main help menu page at any time by touching the "**Home**" button.

All Stop Button

There are several ways to stop the system and close it down.

❯ You can stop the cooling system only by touching the "**Stop System**" button, in this case the pump will continue to run.

❯ You can stop to pump at any time by touching the "**Stop Pump**" button. Stopping the pump while the System is running also automatically stops the Cooling (or Heating) System because it can not run safely without water.

❯ Alternatively you can stop everything by touching the "**All Stop**" .button If you use the"**All Stop**" button the fan may continue to run for a short time to cool the cabinet.

More Information

System Preferences Screen

Available System Preferences

Main Cooling Fan Speed: This function only applies to our portable machines, it has no function on the Compact iCool.

Temperature Display Scale: This can be set to either Centigrade or Fahrenheit and changes all of the displays throughout the entire system. The iCool normally reads in Centigrade as this is the world standard. It can convert the display to ºF if required, however due to rounding off calculations between Cº and Fº there may be minor differences in the Fº display, but the system always holds the water temperature to within 1ºC.

Sound Level: The Sound level adjusts the sounds made when touching the screen and by the alarms. Normally it should be left on high to assist with settings and to make sure alarms are heard. There are three settings High, Medium and Low. A red dot indicates which setting is selected in each of the available settings.

Pool Temperature Screen

Display The Pool Temperature At Full Screen Size

If you touch the number in the pool temperature window on the Main Operation Screen for a few seconds the screen will change to a full-screen display of the pool temperature. (Shown here at right) This is useful if you wish to monitor the system from a distance. The pre-set temperature and the outside temperature continue to be displayed in smaller windows for your reference. To return to the main operating screen touch the "**Back 1**" button.

Clock Control Screen

Session Timer & Clock Functions

Your iCool offers a number of very useful timing functions including a real-time clock, a countdown timer to time your recovery and training sessions and a timer to shut down the system automatically after use. To set up and use these functions touch the "Timer" button on the "**Home**" screen.

Set Main Clock

To set the clock touch the "**Set Main Clock**" button on the timing functions screen and the time setting display on the bottom right of the screen will begin flashing. You must set each number while it is flashing by using the up down and left right keys. Once you stop using these keys for more than a few seconds the display will stop flashing and the time showing is automatically set into the system and the clock begins operating. The clock operates in the universal 24-hour time style.

Set Count Down

This allows you to accurately control the immersion times of athletes and to repeat those times as often as needed. This is an essential part of successful cryo recovery therapy and is just as important as maintaining accurate and consistent temperatures, which of course your iCool does perfectly.

The session timer is set by touching the "**Set Count Down**" button. The numbers on the setting screen in the bottom right-hand corner are minutes and seconds. They will begin to flash and you can use the left, right and up, down arrows to change the minutes and seconds. Once you have set the time you want your athletes to remain in the bath, touching the "**Display Countdown Full Screen**" button will take you to the main session timer screen. This screen allows you to see the countdown from a distance and also to control it in various convenient ways. The current pool and outside temperature will also be displayed. The count down can be set for once only, or it can repeat automatically as many times as you like. This is particularly convenient if you have a number of athletes using the same pool at the same time. The system beeps for each of the last five seconds at the end of each countdown to warn the athletes to get ready to get either in or out of the pool and pauses for several seconds to allow the changeover before the countdown begins again.

Session Timer Screen

Start Button

The "**Start**" button starts the countdown.

Pause Button

You can pause the countdown at any time and start again from the same position with the "**Pause**", or touch reset to start from the top.

Reset Button

The "**Reset**" button resets time to the preset value in the single shot mode, ready to start again by pressing the "**Start**" button.

Repeat Button

When the "**Repeat**" button is pressed the countdown will repeat until the repeat function is cancelled by pressing once again. A red dot indicates that it is active.

Automatic System Shutdown Timer

You can preset your iCool to shut down at any time up to five hours in the future. This is very convenient for coaches and specialists who may want to leave the training area early but want to make sure that the system is not left running needlessly. To set this time, touch the "**Set Shut Down**" button and the clock digits on the bottom right of the screen will begin to flash as with setting the clock. Use the same up down and left right arrows to set the number of hours and minutes you wish to elapse before the system automatically shuts down. The system automatically begins the countdown and will stop when the time you set reaches zero. The time remaining before shutdown is displayed on the main clock display screen. As the same arrows are used to set all three time functions, to avoid confusion, a red dot appears next to be button of the function being set. To avoid an unintended shut down next time you use your iCool this timer automatically resets to 0:00 at shutdown. It does not keep the previous setting, so there will only be a shutdown if you reset this timer.

You can also display the main clock, showing the time of day in full screen mode by touching the "**Display Clock in Full Screen**" button.

Locking Your iCool System To Prevent Tampering

Your iCool has an electronic lock system. You should keep this a secret known only to authorised operators. iCool Systems have attractive user interfaces, this makes them easy to use, but the downside is that Untrained people often like to play with the colourful touch screens. This can upset all your settings and even cause an unintended shutdown. To lock the screen so that no further inputs can be made, touch and hold the iCool icon on the main run screen for more than 10 seconds (you can only lock from this main screen). A picture of a lock will appear. When ever this lock is visible it is not possible to make any inputs or to change screens. To unlock the system and returned to normal, repeat the procedure. Touch and hold the iCool icon for more than 10 seconds. The lock will disappear and all functions will return to normal.

Intelligent Power Management Saves Electricity Automatically

All Compact iCools are all fitted with a fully automatic intelligent power management system that manages the dual heat pumps to minimise electricity use. It senses pool and room temperature and other parameters and provides only the cooling or heating power that is actually needed at any point and closes down one of the two built in heat pumps completely when it is not required. This cuts power use by up to half. Compared to other comparable systems it offers large savings during long hold over periods such as over night or weekends, while still maintaining your set temperature. You may notice that the heat pump compressors start and stop at various times. This is a normal function of the power management system as it optimises the operation for best performance and economy.

06

Troubleshooting

If The Status Bar Light On Top Of The iCool Turns Red When You Touch The "Start System" Button

This means that the Compact iCool is turned to the HEAT mode. If you intended to cool your pool then touch the "**Hot Cold**" button on the main screen and change to the "**Cold**" mode, restart normally.

If Your Screen Freezes Or Fails To Respond

In most cases if the screen freezes while the iCool is running normally, the main computer will 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. This is a very rare issue.

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

Your Compact iCool 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 45ºC, eventually the system will reach the limit of it's safe operating range. If the temperature inside the cabinet reaches 70ºC 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 iCool 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 45ºC 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 30-35ºC. It is good practice to allow the heat to reduce naturally to below 30ºC before starting the cooling cycle. This also saves a lot of electricity.

If The iCool Shuts Down Repeatedly And Displays A "No Water" Red 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 direct a shut down. Please refer to page 10 for advice on how to correct this.

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. So that you are not prevented from using your system for an important event even if there is a rare failure of a component. We have also build-in ways to work around partial failures. This is a unique advantage of our dual design. Compact iCool's are actually complete 2 heat pumps in one cabinet so they have built in backups. Our staff can assist you by phone or e-mail.

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 may also have a representative in your country that can also provide local support in many major regions of the world. Just contact us and we will do our very best to assist you quickly. We may also have a representative in your country.

07 Specifications

Specification	Compact iCool	Compact Dual Temp	Compact XP	Compact XP Dual Temp	Compact Iceman
Cooling Power	4000 Watts	5000 Watts	7000 Watts	7000 Watts	7800 Watts
Heating Power	Chill Only	5000 Watts	Chill Only	7100 Watts	Chill Only
Run [& Max.] Power 220 Volts	5 Amps [12 Amps]	6.5 Amps [13 Amps]	7.5 Amps [14 Amps]	7.5 Amps [14 Amps]	6.5 Amps [13 Amps]
Run [& Max.] Power 110 Volts	10 Amps [22 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	Yes 7 Inch 800 x 480 Resolution	Yes 8 Inch 800 x 480 Resolution	Yes 8 Inch 800 x 480 Resolution	Yes 8 Inch 800 x 480 Resolution	Yes 8 Inch 800 x 480 Resolution
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 1500 Cubic Ft per Minute	3 Speed 1200 Cubic Ft per Minute	3 Speed 1200 Cubic Ft per Minute	3 Speed 1200 Cubic Ft per Minute	3 Speed 1200 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	36kg 79 Lbs
Dimensions H. W. D. Millimetres	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

Materials

| 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 enquiries 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.

iCoolsport
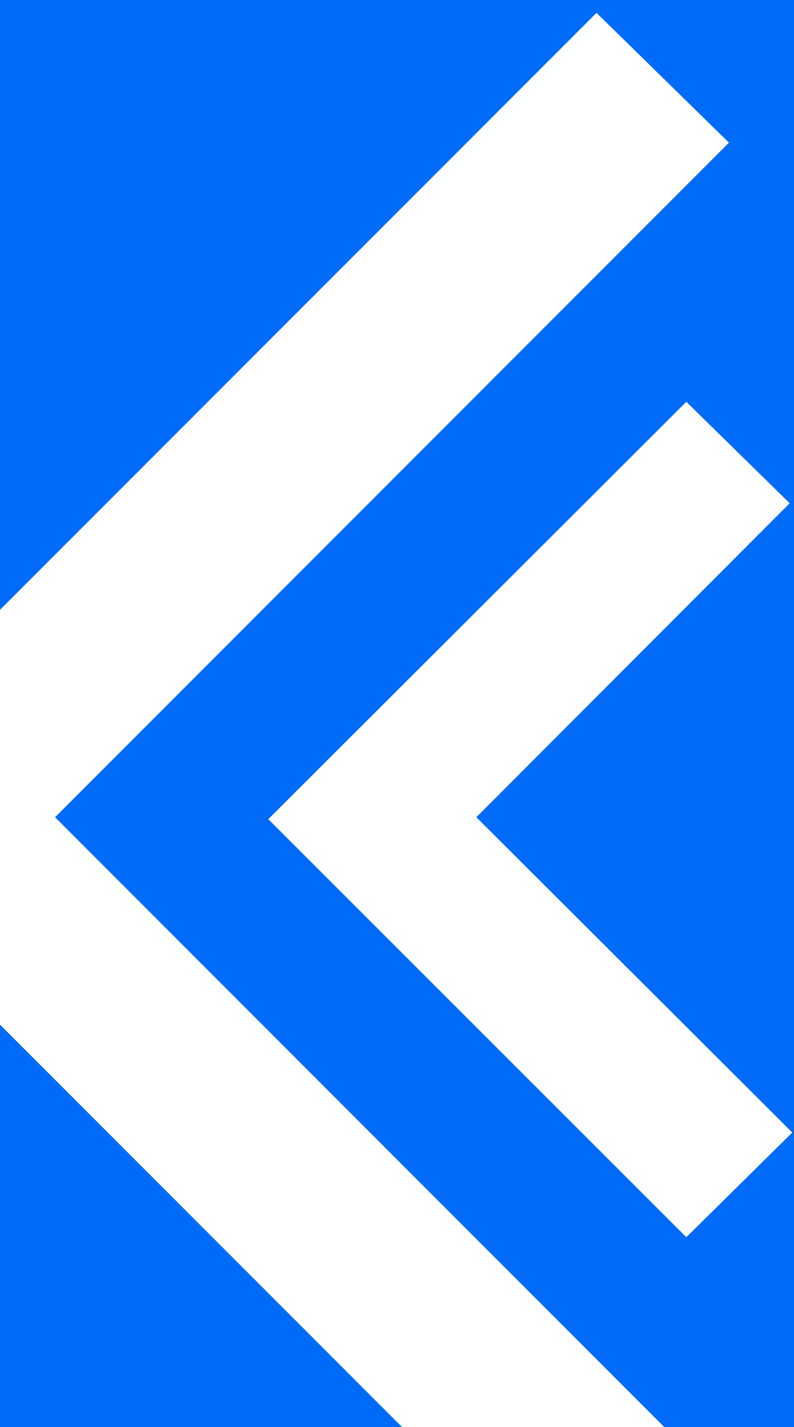
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