aquilo

# CCT1500

# Cryo-Compression Therapy Set

## Operator's Manual

# Table of Contents:



| Icon | Meaning |
|---|---|
|  | Read instructions before use |
|  | Type BF Components |
|  | Double insulated product |
|  | Direct current power |
|  | Name and location of product manufacturer |
|  | Dispose of electrical and electronic components appropriately |
|  | Warning symbol to indicate potential hazards that may lead to injury or death |

# Introduction to Aquilo Sports:

Founded in 2015 and based in Louisville, KY, Aquilo Sports LLC produces innovative cryo-compression products used by athletes to maximize their body's recovery.

Aquilo Sports' cryo-compression devices combine the benefits of cold and compression therapies to deliver a combination recovery experience to athletes. Aquilo's cryo-compression devices have been proven to decrease muscle damage, decrease muscle soreness, decrease fatigue, increase sleep quality, and significantly improve jump power when used post-workout.

In addition to cryo-compression combination therapy, the CCT1500 Control Unit and Compression Boots provide athletes with the flexibility to use either the cryo-therapy or compression therapy functionalities independently. This flexibility combined with program customization options delivers the ultimate personalized recovery solution for athletes.

With the CCT1500, athletes can choose how they recover as well as *where* they recover. The Control Unit's internal battery allows athletes to charge the device and take it with them to recover at their own convenience, without the need for an electrical outlet.

Take your performance to the next level with dual-action recovery powered by the Aquilo Sports CCT1500 Control Unit and Compression Boots.

# Contact Us:

+1 (502)290-8994

www.aquilosports.com

1902 Campus Pl., Suite 12
Louisville, Ky 40299

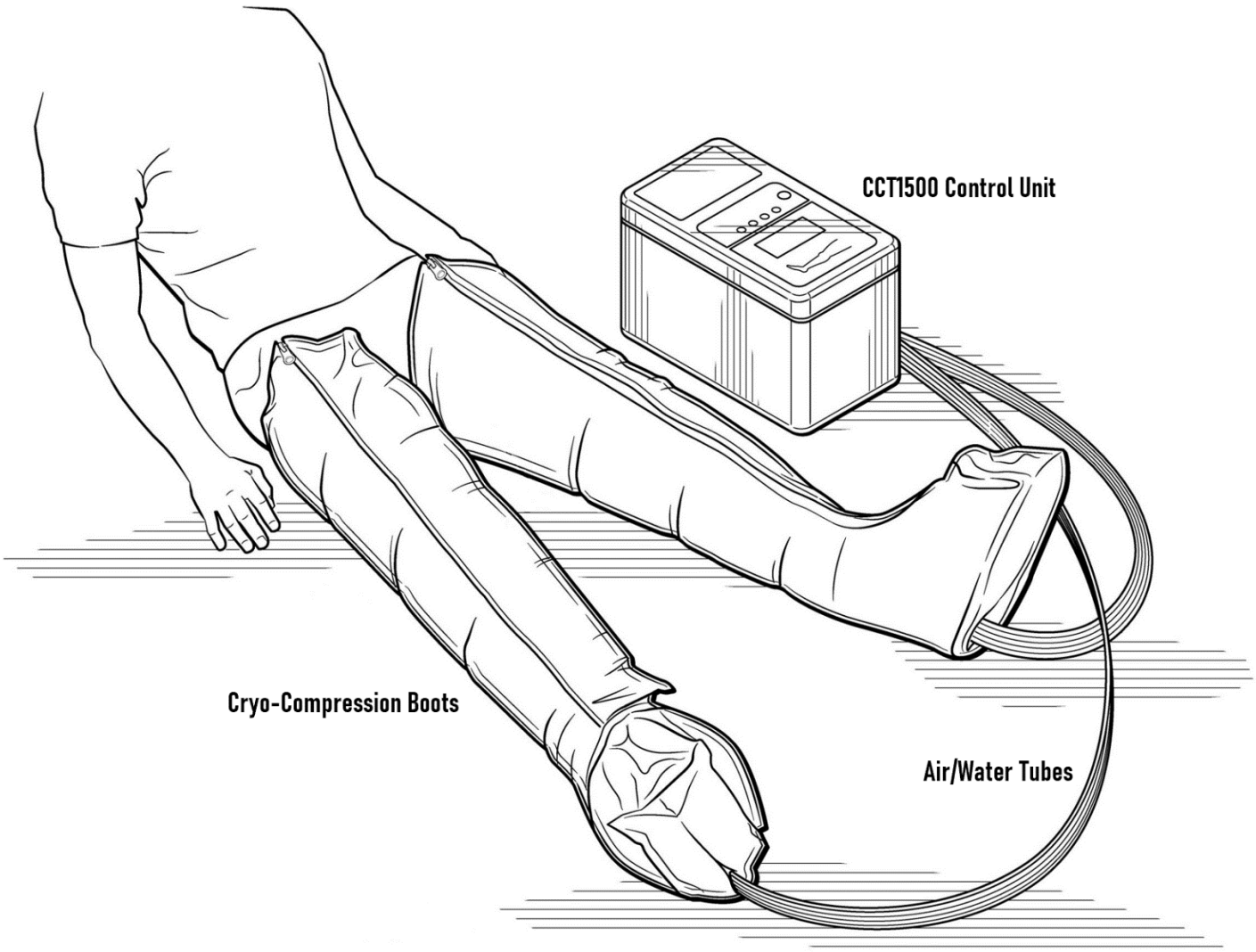
# CCT1500 System

The following items are included in your CCT1500 System:

| Product: | SKU: |
|---|---|
| CCT1500 Control Unit | AQU657 AT1 |
| Cold Boots | AQU653 CB1 |
| Water Tube | AQU656 WT3 |
| Air Tube | AQU655 AT1 |
| Power Adapter | AQU622 PA2 |
| AC/DC Plug | AQU624 AC2 |

The following items are compatible with your CCT1500 System:

| Product: | SKU: |
|---|---|
| Arm/Leg Wrap Right - Regular | AQU637 RS1 |
| Arm/Leg Wrap Left - Regular | AQU638 LS1 |
| Aquilo Recovery Pants - Size 1 | AQU626 S3R |
| Aquilo Recovery Pants - Size 2 | AQU627 S3R |
| Aquilo Recovery Pants - Size 3 | AQU628 S3R |
| Aquilo Recovery Pants - Size 4 | AQU629 S3R |
| Carry Case | AQU661 DB1 |
| Wrap Bag | AQU664 WB1 |
| Aquilo Heater - US | AQU635 HA1 |




# Specifications:

## Control Unit:

Size: 410 x 210 x 260 mm
Weight: 8.2 kg (CCT1500 Control Unit + Compression Boots)
Pressure level: 20 mmHg up to 150 mmHg
AC power: 100-240 V, 50-60 Hz, 2.5A Max
DC input: 13V / 6.5A
Battery Life: 2 pumps for 1 hr / 1 pump for 3 hrs

### Compression Boots:
Length: ~89 cm (heel to top)
Width: ~30.5 cm

### Water Pads:
Length: ~71 cm
Width: ~43-58 cm (ankle-top)

### Tubing Sets:
Air Tube Length: ~146 cm
Water Tube Length: ~188 cm

# Warning:
Users are required to read this User's Manual in full prior to using this device.

# Internal Battery:

The CCT1500 Control Unit contains an internal battery that allows the device to be used without an external power supply. The battery can power both the air and water pumps for approximately 1 hour, or power either pump independently for approximately 3 hours.

### Battery Storage
Store in a cool (preferably below 30ºC) and ventilated area away from moisture, sources of heat, open flames, and food and drink.

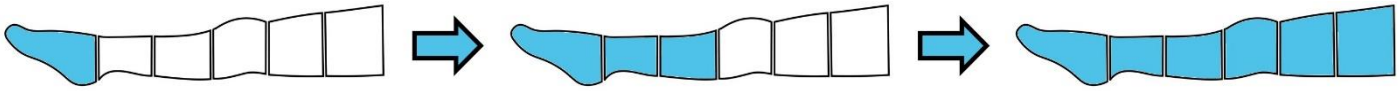
Temperature above 90ºC may result in battery leakage and rupture.

Do not incinerate, deform, mutilate, crush, pierce, disassemble, short circuit the battery pack. Avoid prolonged exposure to humid conditions.

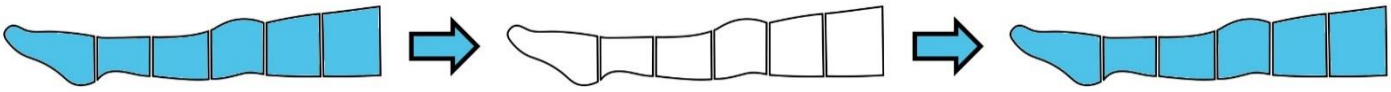
### Battery Specs
Minimum Cell Capacity: 2550mAh
Cell Type: NCM18650-260 (x12)
Nominal Cell Voltage: 3.6V

# Compression Modes:

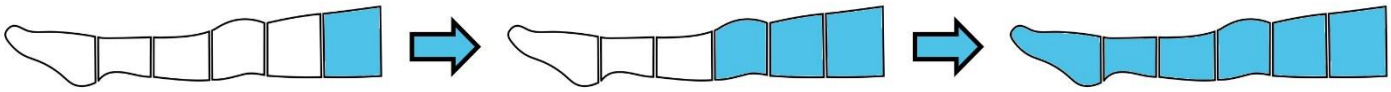
**Mode 1:** Sequential Compression – Bottom to Top - Chambers are filled starting with the bottom chamber (CH1-foot), and will remain filled as the next chamber (CH2) fills. This process continues until all chambers are filled. After the last chamber (CH6) is filled, all chambers will release and begin again.



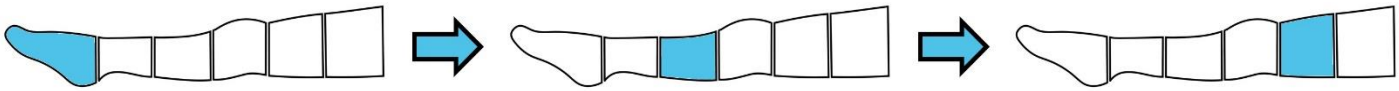
**Mode 2:** Uniform Compression – all air chambers are filled at the same time.



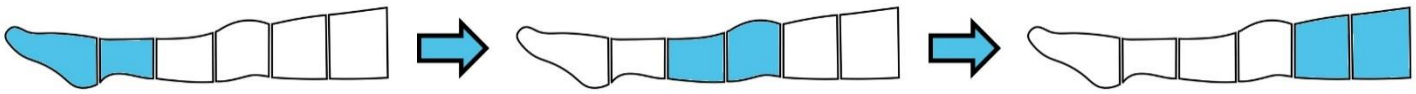
**Mode 3:** Sequential Compression – Top to Bottom.



**Mode 4:** Sequential Compression - Bottom to Top – 1 chamber at a time; releasing previous channels.



**Mode 5:** Sequential Compression – Bottom to Top – 2 chambers at a time.



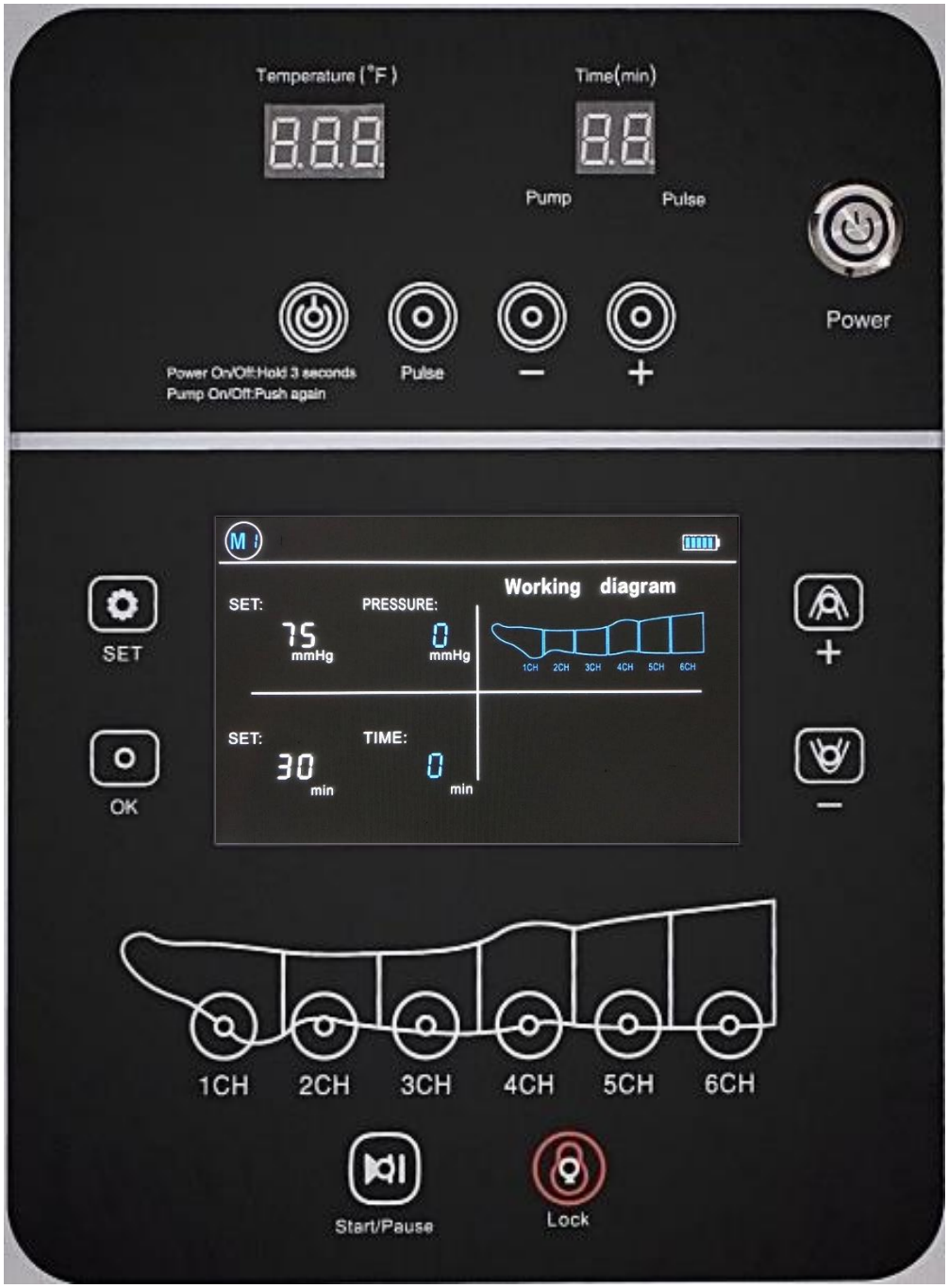
**Note: The system will automatically default to Mode 1 / 75 mmHg / 30 min.**

# Temperature:

When the water pump is in use, the temperature of the water will be displayed on the screen of the Control Unit. The temperature displayed is the temperature of the water within the Control Unit reservoir, not the temperature experienced by the user. The external temperature of the water pads will likely be slightly warmer than the water inside the Control Unit.

**Note:** during a recovery session, the water will increase in temperature as it is circulated and the ice in the Control Unit melts. Continuously add ice through the recovery session(s) to maintain the target temperature of the pads.

# Display:



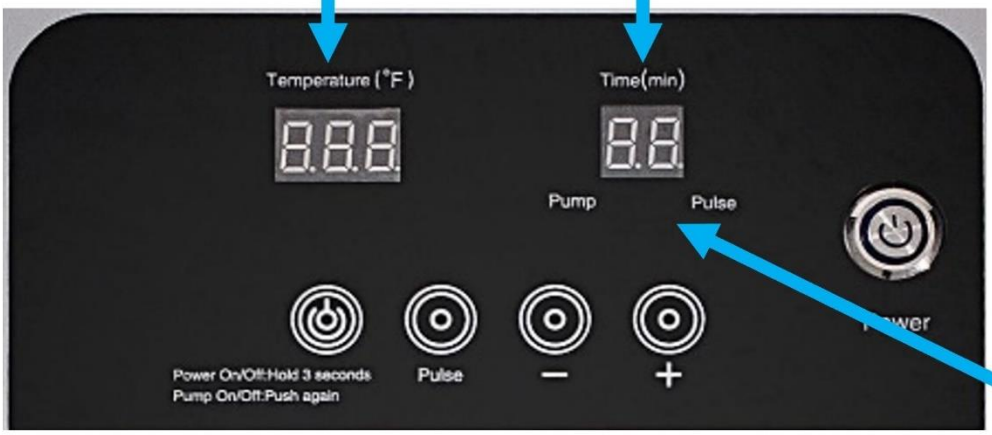

**Water Panel:** Controls function of the water pump

**Compression Panel:** Controls function of the air pump

# Indicators:

**Temperature:** Current temperature of the water reservoir

**Time (min):** time remaining for water pump



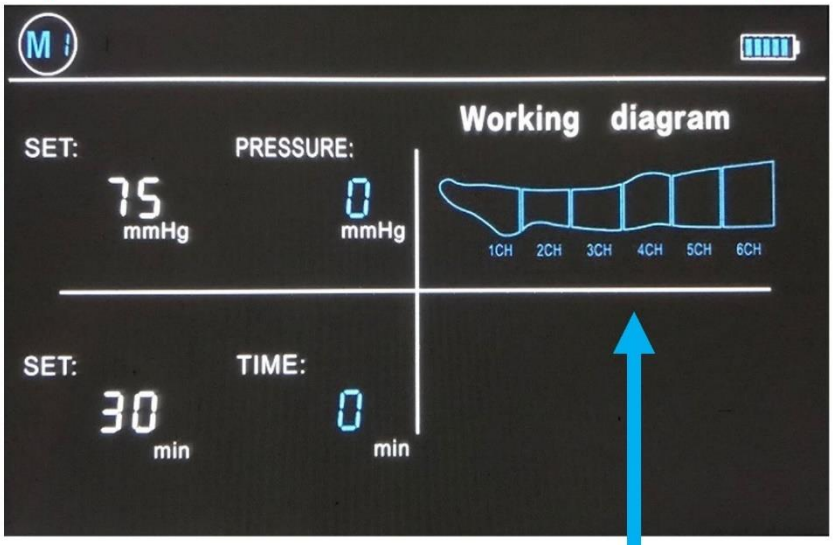

**Pump and Pulse Status Indicators**

**Current Mode**

**Battery Level**

**Pressure:** target pressure setting and current pressure of active chambers

**Time:** treatment duration setting and time remaining




**Working Diagram:** active chambers are filled on the diagram (no active chambers in example)

# Controls:

| | |
|---|---|
|  | **Power:** Use this button to turn the Control Unit on and off. |
|  | **Water Pump Power:** Activate the water pump by holding for 3 seconds. Time and temperature will display at this time. Start the water pump by pressing this button again. |
|  | **Pulse:** Use this button to set the water pump to run for 2 minutes ON and 30 seconds OFF, automatically. This cycle will repeat for the set duration of the treatment. (do not use in combination with compression pump) |
|  | **Add Time (Water):** Use this button to add time to the water flow. |
|  | **Subtract Time (Water):** Use this button to subtract time to the water flow. |
|  | **Set:** Use this button to select one of the available Modes 1-5, as well as time and pressure settings. |
|  | **Play/Pause:** Use this button to start or pause a compression treatment. |
|  | **Add Time (Compression):** Use this button to add time or pressure. |
|  | **Subtract Time (Compression):** Use this button to reduce time or pressure. |
|  | **Pressure/Time Selection:** Use this button to confirm pressure and time once the desired number is added or subtracted. The cycle must be off or paused to change pressure settings. |
|  | **Channel Selection:** Use this button to open or close chambers. A closed chamber will skip this chamber during the compression cycle. The cycle must be off or paused to open or close chambers. |
|  | **Lock:** Use this button (hold down 3 seconds) to lock the screen from changes. Hold again 3 more seconds to unlock screen. |

# System Instructions:

Components:

- CCT1500 Control Unit
- Aquilo Sports provided Power Supply
- Water Tubing Set
- Air Tubing Set
- Cryo-Compression Boots

**Precautions:**

- Turn off the Control Unit and unplug it from the electrical outlet before filling or emptying water or ice from the reservoir to avoid the risk of electrical shock.
- Keep the Control Unit secure during preparation and operation of the device to prevent drops and other accidental damage. Position the device on a flat surface when filling, emptying, and operating the Control Unit.
- The Control Unit should always be plugged into a grounded electrical outlet when using the provided power supply.
- The power supply, air tubing, and water tubing pose potential tripping hazards. Position the device to mitigate these risks to yourself and others.
- External environmental factors will impact the performance of this device. High external temperatures will increase water temperatures faster than normal.

## Cryo-Compression Treatment:

1. Open the reservoir door using the finger groove in the door.
2. Add water to the appropriate fill line inside the tank (1 or 2 users). DO NOT overfill the water. Fill the remaining reservoir space with ice. Close the reservoir door completely.
3. Connect the air tubing from the Control Unit to each plug on the Compression Boots. Use the notch on the plugs to properly orient the connectors. You should hear a click from each connector when they are properly attached.

4. Connect the water tubing from the Control Unit to the water pads in the Boots. You should hear a click from each connector when they are properly attached.
5. Connect the AC adapter to an electrical outlet and insert the plug into the power port on the Control Unit. Skip this step when operating the system via battery power.
6. Press the power button to turn on the Control Unit. Hold down the water pump power button for 3 seconds to turn on the cryo-therapy controls. Use the **[+]** and **[–]** buttons to increase or decrease the duration of the treatment session. Do not use the 'pulse' functionality in combination with compression treatment.
7. Use the lower panel on the Control Unit to program the compression settings for the treatment session. Select the desired compression mode by tapping the **[SET]** button and cycling through the options using the **[+]** and **[–]** buttons. Tap the **[OK]** Button again and choose desired pressure by increasing the decreasing the pressure with the **[+]** and **[–]** buttons. Tap the **[OK]** button again and set the desired session time by increasing and decreasing the duration using the **[+]** and [–] buttons. Tap the **[OK]** button again to finalize selections.
8. To prevent compression of sensitive areas or focus the treatment on a specific area, compression chambers can be excluded from the program. To exclude a chamber, select that chamber on the chamber selection diagram.
9. Place the user's legs into the Boots, sliding each Boot up their leg until their heel is squarely at the bottom. Completely zip the Boots and ensure the user is seated comfortably prior to starting the treatment.
10. Tap the water pump power button to start the flow of water to the pads. Allow the water to flow for 10 seconds.
11. Tap the **[Start/Pause]** button to begin the compression treatment.
12. Add ice throughout the treatment as necessary to maintain the target temperature.
13. At the completion of the treatment session, wait approximately 30 seconds before disconnecting water tubing to let the water drain out of the pads and back into the reservoir.
14. Press the power button to tun off the unit. Unplug the power supply from the control unit. Disconnect the water and air tubes from the unit.
15. With the unit placed securely at the edge of a sink or other drain, untwist a drain cap on the side of the unit to let the water flow out of the reservoir. Replace the drain cap after the water has been drained.

## Compression Treatment:

1. Connect the air tubing from the Control Unit to each plug on the Compression Boots. Use the notch on the plugs to properly orient the connectors. You should hear a click from each connector when they are properly attached.
2. Connect the AC adapter to an electrical outlet and insert the plug into the power port on the Control Unit. Skip this step when operating the system via battery power.
3. Press the power button to turn on the Control Unit. Use the lower panel on the Control Unit to program the compression settings for the treatment session. Select the desired compression mode by tapping the **[SET]** button and cycling through the options using the **[+]** and **[–]** buttons. Tap the **[OK]** Button again and choose desired pressure by increasing the decreasing the pressure with the **[+]** and **[–]** buttons. Tap the **[OK]** button again and set the desired session time by increasing and decreasing the duration using the **[+]** and **[–]** buttons. Tap the **[OK]** button again to finalize selections.
4. To prevent compression of sensitive areas or focus the treatment on a specific area, compression chambers can be excluded from the program. To exclude a chamber, select that chamber on the chamber selection diagram.
5. Place the user's legs into the Boots, sliding each Boot up their leg until their heel is squarely at the bottom. Completely zip the Boots and ensure the user is seated comfortably prior to starting the treatment.
6. Tap the **[Start/Pause]** button to begin the compression treatment.
7. After completion of the treatment, press the power button to turn off the system. Unplug the power supply and air tube from the Control Unit.

## Cryo-therapy:

1. Open the reservoir door using the finger groove in the door.
2. Add water to the appropriate fill line inside the tank (1 or 2 users). DO NOT overfill the water. Fill the remaining reservoir space with ice. Close the reservoir door completely.
3. Connect the water tubing from the Control Unit to the water pads in the Boots. You should hear a click from each connector when they are properly attached.
4. Connect the AC adapter to an electrical outlet and insert the plug into the power port on the Control Unit. Skip this step when operating the system via battery power.

5. Press the power button to turn on the Control Unit. Hold down the water pump power button for 3 seconds to turn on the cryo-therapy controls. Use the **[+]** and **[–]** buttons to increase or decrease the duration of the treatment session. Select the **[Pulse]** button if the 'pulse' functionality is desired during this treatment session.
6. Place the user's legs into the Boots, sliding each Boot up their leg until their heel is squarely at the bottom. Completely zip the Boots and ensure the user is seated comfortably prior to starting the treatment.
7. Tap the water pump power button to start the flow of water to the pads.
8. Add ice throughout the treatment as necessary to maintain the target temperature.
9. At the completion of the treatment session, wait approximately 30 seconds before disconnecting water tubing to let the water drain out of the pads and back into the reservoir.
10. Press the power button to tun off the unit. Unplug the power supply and water tubes from the control unit.
11. With the unit placed securely at the edge of a sink or other drain, untwist a drain cap on the side of the unit to let the water flow out of the reservoir. Replace the drain cap after the water has been drained.

# Storing the CCT1500 System:

When preparing to store the unit after use:

- Drain the reservoir as completely as possible and wipe off any excess water before storing the Control Unit.
- Whenever possible, store the tank with the lid open to allow the system to dry.
- Deflate the Compression Boots as completely as possible by unplugging the air tubes and gently pushing the air out.
- Store the system indoors
- Avoid leaving the Control Unit or Compression Boots in extreme conditions such as direct sunlight or extreme hot or cold temperatures

# Cleaning the CCT1500 System:

## System:

The system includes the interior of the control unit, the water tubes, and the inside of the water pads. This system can be cleaned by circulating water containing a mild detergent or effervescent reservoir cleaning tablets.

## Control Unit:

The exterior of the Control Unit and the visible interior surfaces of the reservoir can be cleaned using a mild detergent or a mixture of water and isopropyl alcohol. Apply the cleaner to a cloth and wipe down the surfaces of the Control Unit. Allow the unit to dry completely before returning it to storage or the carrying bag.

Avoid using harsh cleaners or abrasive materials that could damage the plastics.

The Control Unit is not waterproof and should not be submerged, exposed to direct streams of water, or exposed to water pooling on any surface of the device.

## Tubing Sets:

The interior of the water tubes can be cleaned using the aforementioned system cleaning method. The exterior of the water and air tubes can be cleaned using a mild detergent or a mixture of water and isopropyl alcohol. Apply the cleaner to a cloth and wipe down the surfaces of the tubes. Allow the tubing sets to dry completely before returning it to storage or the carrying bag.

Avoid using harsh cleaners or abrasive materials that could damage the plastics.

Avoid using any petroleum-based lubricants that would damage the o-rings. Use silicon-based lubricants instead.

## Wraps:

To clean the inside of the Compression Boots, unzip and remove the thin boot liners. These liners are machine washable. Make sure the water pads are placed flat into the compression boots before reattaching the boot liners.

To clean the surfaces of the water pads or boots, use a cloth with a mild detergent or antibacterial soap to wipe down all surfaces. Let the pads and boots completely dry before returning them to storage or use.

Avoid using harsh cleaners that could damage the pad and boot materials.

## Carry Bag:

The carry bag can be cleaned using a mild detergent or antibacterial soap. Apply

the cleaner to a cloth and wipe down the surfaces of the bag. Allow the bag to dry before using it to store the control unit or accessories.

Avoid using harsh cleaners or abrasive materials that could damage the surfaces of the carry bag.

# Maintaining the CCT1500 System:

Other than routine cleaning of the device and accessories, no other service or modification should be performed on the system.

# Troubleshooting:

| Error | Cause | Potential Fixes |
|---|---|---|
| Excessive water pump noise | The water level is likely lower than that necessary for the water pump. | • Stop the water pump.<br>• Add water to reservoir and restart the treatment session. |
| The Control Unit appears to be leaking. | Water has leaked out of the inner reservoir into the insulating outer shell. | • Drain all water out of the unit.<br>• Let the tank completely dry out.<br>• Make sure the drain caps are tightly fastened to the sides of the unit.<br>• Try to use the device again. If the problem persists, contact Aquilo Sports. |
| | The tubing connectors are not properly connected. | • Make sure the tubing connectors are completely fastened. There should be an audible click when each water connector is properly fastened. |
| | Wrap Condensation | • When cold water is circulating through the wrap, there will be some condensation on the wraps and tubing sets, especially in warm, humid environments.<br>• This is normal and can be simply wiped off the tubing sets and/or wraps. |

| | | |
|---|---|---|
| Compression Boots are not getting cold enough | There is poor circulation through the water wraps. | • Make sure the water tubes are properly connected to the Control Unit. There should be an audible click when the connectors are properly attached.<br>• Lay out the compression boots and make sure the water pad is flat inside the boot to eliminate any kinking. |
| | The water in the reservoir has increased temperature over time. | • Check the temperature of the reservoir on the temperature gauge. If the temperature has increased over successive treatment sessions, add ice to the unit to decrease the temperature. |
| Decreased performance of the air and water pump | A low battery charge | • Plug the Control Unit into wall power and pump performance should increase immediately.<br>• Leave the device plugged in to recharge the battery. |
| The device will not turn on when the power button is pressed. | The unit is not receiving power / The device battery is dead | • Make sure the device is plugged into an active outlet. There should be a green light on the power supply to indicate the power supply is receiving power.<br>• Select a different outlet if the power supply is not receiving power.<br>• If the problem persists, contact Aquilo Sports. |
| The compression boots aren't reaching inflation pressure. | Air tubing is disconnected / not connected properly | • Make sure all components of the air tubing set are connected properly. The notches should be properly aligned, and a click should be heard when the connectors are fastened together. |
| | If only using one compression boot, one branch of the tubing may not be sealed. | • Make sure the branch of the tubing set not in use is sealed with the included connector cap. |
| | Low battery | • If the device is not able to fill to the desired inflation pressure, the battery may be low and the air pump may not be receiving full power.<br>• Charge the device and/or run it using the included power supply to restore full function. |

# Precautions:

- Read and understand the warnings and user manual prior to using the device.

# General Cautions:

- Handle the device with the care to prevent accidental damage to the Control Unit or other system components.
- To avoid the risk of electrical shock disconnect the power supply and turn off the Control Unit prior to filling or draining water.
- Do not spill liquid on top of the device; prevent water from pooling on top during filling/emptying processes.
- If the device gets wet, do not use the device. Keep the power off and allow the device to dry before using the device again.
- Do not operate the water pump without sufficient water in the reservoir. Doing so will result in damage to the product.
- Do not exceed the designated fill lines on the interior of the reservoir.
- Do not operate the water pump without the water tubes and water pads connected. Running the pump without connecting the full system could result in damage to the product.
- Do not operate a damaged device. Do not use if there is leaking or external damage to the unit.
- Only use the included power supply to charge and power the device. [Switching Power Supply Model HG85-C13P]
- Do not use any liquids other than water in the Control Unit reservoir. Doing so could result in damage to the Control Unit and/or water pads.
- Use only Aquilo Sports water pads and compression boots with the CCT1500 Control Unit.
- Only use the handles on the side of the product to carry the Control Unit. Picking up the device by other surfaces could result in damage to the product.
- Do not put foreign objects or body parts into the device water reservoir.
- Do not expose the control unit to an open flame.
- Do not expose the Aquilo Sports wraps to sharp objects, internally or externally.
- Only clean the device using methods outlined in the user manual.
- Due to the internal electrical components of the device, the Control Unit must be disposed of properly. Contact local resources to determine how to properly dispose of electrical and electronic waste.
- Use caution when handling small system components to prevent accidental swallowing or inhalation.
- When in use and in storage, keep track of cord and tube placement to eliminate risk of strangulation.

- Keep the Control Unit and all accessories away from children and pets.

# General Warnings:

- Read and understand the device contraindications prior to use.
- A healthcare professional should be responsible for selecting the appropriate settings for each user.
- Users and care providers should follow the instructions of a healthcare professional during use.
- When using the device at home, the patient should receive sufficient instructions for a healthcare professional to facilitate independent use.
- Independent users of the device should be monitored by a healthcare professional.
- Improper use of the Aquilo Sports system could result in damage to muscle tissue.
- Stop using the device if you experience skin discoloration or swelling. Consult a healthcare professional.
- Do not apply the boot directly on top of open wounds or other sensitive areas. Sensitive areas should be properly covered with a sterile dressing prior to treatment.
- Discontinue use if the user experiences discomfort or numbness while using the device.
- Read and understand all caution/warning labels on the device.
- Do not remove labels from the device.

# Indications for Use:

The CCT1500 System combines cold and compression therapy modalities into a single device. The device allows for full or partial coverage of the extremities.

It is intended to treat post traumatic and post surgical medical and/or surgical conditions using cold and compression therapy as indicated by a healthcare professional.

It is intended to Treat and assist healing of cutaneous ulceration (wounds), reduce would healing time, enhance arterial circulation (blood flow), reduce compartmental pressures, reduce edema (swelling), reduce the need for anticoagulant (blood thinning) medications using cold and compression therapy as indicated by a healthcare professional.

It is intended to reduce edema associated with soft tissue injuries such as bums, postoperative edema, and ligament sprains using cold and compression

therapy as indicated by a healthcare professional.

It is intended for treatment of disorders associated with vascular or lymphatic insufficiency such as Chronic Venous Insufficiency (CVI), venous stasis ulcers, post-mastectomy edema and chronic lymphedema using compression therapy as indicated by a healthcare professional.

It is intended to decrease the risk of deep venous thrombosis (DVT) using compression therapy as indicated by a healthcare professional.

It is intended to aid blood flow back to the heart using compression therapy as indicated by a healthcare professional.

# Contraindications:

- Presumptive evidence of congestive heart failure
- Suspected/observed pre-existing deep vein thrombosis or pulmonary embolism
- Suspected/observed deep acute venal thrombosis (phlebothrombosis)
- Suspected/observed inflammatory phlebitis process
- Suspected/observed pulmonary edema
- Suspected/observed acute inflammations of the veins (thrombophlebitis)
- Suspected/observed decompensated cardiac insufficiency
- Suspected/observed arterial dysregulation
- Suspected/observed erysipelas
- Suspected/observed carcinoma and carcinoma metastasis in the affected extremity
- Suspected/observed decompensated hypertonia
- Suspected/observed acute inflammatory skin diseases or infection
- Suspected/observed venous or arterial occlusive disease
- Suspected/observed Determine venous and lymphatic return is undesirable
- Suspected/observed patient has Raynaud's Disease
- Suspected/observed poor peripheral circulation
- Suspected/observed hypersensitivity to cold
- Patient therapy contact on extremity containing a fracture
- Extremities that are not sensitive to pain

# Warranty Information:

## Manufacturer's Warranty

Aquilo Sports LLC warrants that the CCT1500 Control Unit, if properly used, will

be free from defects in material and workmanship for a period of two (2) years after the date the CCT1500 Control Unit was purchased. If the CCT1500 Control Unit, which is the subject of this Limited Warranty, malfunctions during the warranty period for reasons covered by this Limited Warranty, Aquilo Sports, at its options, will:

- REPAIR the CCT1500 Control Unit

  OR

- REPLACE the CCT1500 Control Unit with another CCT1500 Control Unit.

THIS LIMITED WARRANTY AND ANY IMPLIED WARRANTIES THAT MAY EXIST UNDER STATE LAW APPLY ONLY TO THE ORIGINAL PURCHASER OF THE CCT1500 CONTROL UNIT AND ARE NON-TRANSFERABLE.

## Extent of Limited Warranty

This limited warranty does not cover damages due to external causes, including, without limitation, accident, usage not in accordance with product instructions, misuse, neglect, alteration or repair.

## How to Obtain Warranty Service

To activate a warranty request, the user should contact Aquilo Sports directly (aquilosports.com). The user will receive an RMA (Returned Material Authorization) form to complete. If you return the CCT1500 Control Unit to Aquilo Sports, you must assume the risk of damage or loss during shipping. You must use the original packaging or the equivalent. Aquilo Sports may require you to verify in writing that you are the original purchaser of the CCT1500 Control Unit. Aquilo Sports may elect to replace or repair the CCT1500 Control Unit with either a new or reconditioned product. The returned product shall become Aquilo Sports' property upon receipt. The replacement CCT1500 Control Unit is warranted under this written warranty and is subject to the same limitations and exclusions for the remainder of the original warranty period. THIS WARRANTY IS NOT TRANSFERABLE.

## Warranty Limitations and Exclusions

THESE WARRANTIES REPLACE ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. AQUILO SPORTS MAKES NO EXPRESS WARRANTIES BEYOND THOSE STATED HERE. AQUILO SPORTS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED

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## Limitations of Liability

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## Warranty Registration

The CCT1500 Control Unit comes with a 2-year warranty from date of purchase. All other accessories come with a 1-year warranty.
In the case of a manufacturer's defect, products are returnable within 14 days of purchase.

# Electromagnetic Compatibility:

**Electromagnetic Compatibility Information According to IEC/EN 60601-1-2**

## Table 1 for Emissions

| Guidance and Manufacturer's Declaration – Electromagnetic Emissions | | |
|---|---|---|
| **Emissions Test** | **Compliance** | **Electromagnetic Environment - Guidance** |
| RF emissions CISPR 11 | Group 1 | The CCT1500 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. |
| RF emissions CISPR 11 | Class B | The CCT1500 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes. |
| Harmonic Emissions<br>EN 61000-3-2 | Class A | |
| Voltage Fluctuations/Flicker Emissions<br>EN 61000-3-3 | Compliant | |

## Table 2 for Electromagnetic Immunity

| Guidance and Manufacturer's Declaration – Electromagnetic Immunity | | | |
|---|---|---|---|
| **Immunity Test** | **IEC 60601 Test Level** | **Compliance Level** | **Electromagnetic Environment - Guidance** |
| Electrostatic discharge (ESD)<br>IEC 61000-4-2 | ± 6 kV contact<br>± 2, 4, 8, 15 kV air | ± 6 kV contact<br>± 2, 4, 8, 15 kV air | Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%. |
| Electrical fast transient/burst<br>IEC 61000-4-4 | ± 2 kV for power supply lines<br>± 1 kV for input/ output lines | ± 2 kV for power supply lines<br>± 1 kV for input/ output lines | Mains power quality should be that of a typical commercial or hospital environment. |
| Surge<br>IEC 61000-4-5 | ± 1 kV line(s) to line(s)<br>± 2 kV line(s) to earth | ± 1 kV line(s) to line(s)<br>± 2 kV line(s) to earth | Mains power quality should be that of a typical commercial or hospital environment. |
| Voltage dips, short interruptions and voltage variations on power supply input lines<br>IEC 61000-4-11 | <5% $U_T$<br>(>95% dip in $U_T$) for 0.5 cycle<br>40% $U_T$<br>(60% dip in $U_T$) for 5 cycles<br>70% $U_T$<br>(30% dip in $U_T$) for 25 cycles<br><5% $U_T$<br>(>95% dip in $U_T$) for 5 s | <5% $U_T$<br>(>95% dip in $U_T$) for 0.5 cycle<br>40% $U_T$<br>(60% dip in $U_T$) for 5 cycles<br>70% $U_T$<br>(30% dip in $U_T$) for 25 cycles<br><5% $U_T$<br>(>95% dip in $U_T$) for 5 s | Mains power quality should be that of a typical commercial or hospital environment. If the user of the CCT1500 requires continued operation during power mains interruptions, it is recommended that the CCT1500 be powered from an uninterruptible power supply or a battery. |
| Power frequency (50/60 Hz)<br>magnetic field<br>EN 61000-4-8 | 3 A/m | 3 A/m | Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment. |
| Conducted RF<br>EN 61000-4-6<br><br>Radiated RF<br>EN 6100-4-3 | 3Vrms<br>0.15MHz to 80 MHz<br><br>3V/m<br>80 MHz – 2.7 GHz | 3Vrms<br>0.15MHz to 80 MHz<br><br>3V/m<br>80 MHz – 2.7 GHz | Portable and mobile RF communications equipment should be used no closer to any part of the CCT1500 system, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. |

## EMC Statement

The Aquilo Sports CCT1500 was designed for use in a specific electromagnetic environment. It is the responsibility of the user to ensure that the aforementioned guidelines are followed to use the device in a suitable environment.

If the electromagnetic field strength in a location exceeds the RF compliance level listed above, the device may exhibit irregular performance. If this performance is observed, modifications such as reorientation and/or relocation of the device may be necessary.

This device has been tested in accordance with IEC 60601-1-2 standards for electromagnetic radiation. It is the responsibility of the user to use these standards to prevent electromagnetic radiation from the CCT1500 device from interfering with other equipment in the vicinity. Interference may be decreased by using a separate electrical outlet, increasing physical distance between devices, and reorienting/relocating the device.

## WARNINGS:

**The Aquilo Sports CCT1500 device should be used in accordance with the guidelines outlined within the Electromagnetic Compatibility tables in this user manual.**

**The CCT1500 System has to be powered with the AC adapter Shenzhen Highlight Electronic Co. Ltd. model HG85-C13P power supply in order to be compliant with IEC/EN 60601-1-2 section 6.1 and 6.2.**

**Under normal circumstances, the CCT1500 should not be used in direct contact with/in the immediate vicinity of other electrical equipment. If it is necessary to use in this arrangement, verify proper function of the device in this environment.**