Cryon-X Pro

Warning: According to federal law, this device is limited to sale by or on the order of a licensed practitioner.

CXP-152 Edition V1.0

OPERATING MANUAL

Please read fully before operating

TABLE OF CONTENTS

PRODUCT SPECIFICATIONS

Items included:

(1) Therapy System (CXP-152) *1pc

(2) Manual (CX-M152) * 1pc

(3) AC Adapter * 1pc (CX- AC152 Input: AC100-240V; Output: DC.29.4V--5A)

(4) Universal pad/wrap (CX- UP152) *1pc (The supplied wraps may vary based on your purchase needs)

(5) Elastic straps (CX- E152) * 3pcs (The supplied straps may vary based on your purchase needs)

(6) Drainage kit (CX- DK152) *1pc

(7) Carrying Case (CX-CC152) *1pc

(8) Connecting Hose (CX-H152) *1pc

Optional wraps:

- Knee wrap
- Leg wrap
- Back wrap
- Shoulder wrap with two elastic straps
- Hip wrap with one elastic strap

INTRODUCTION

The Cryon-X Pro is an advanced therapy system offering both cold and hot compression therapy in a compact and efficient design. Unlike traditional devices, it combines cold/hot therapy with air compression, providing at least three times more effectiveness. Its innovative technology allows users to achieve their desired temperature and view real-time temperature readings, setting it apart from other devices on the market.

Designed to address post-surgical and acute injuries, it helps reduce edema, swelling, and pain through cold and compression therapy. Additionally, it aids in treating post-traumatic and post-surgical medical conditions requiring localized thermal therapy.

This multi-modality device is AC-powered and software-controlled, suitable for clinical or home use under the guidance of a licensed healthcare professional. Offering iceless cold therapy, heat therapy, and compression therapy, it also features a rechargeable battery for portability and convenience.

The Cryon-X Pro is intended for use by licensed healthcare professionals in various settings, including rehabilitation facilities, outpatient clinics, athletic training centers, and homes.

INDICATIONS FOR USE

This device combines cold, heat, contrast, and compression therapy. It is intended to treat post-surgical and acute injuries to reduce edema, swelling, and pain for which cold and compression are indicated. It is also intended to treat post-traumatic and post-surgical medical and/or surgical conditions for which localized thermal therapy (hot or cold) is indicated.

This device is intended to be used by or on the order of licensed healthcare professionals in rehabilitation facilities, outpatient clinics, athletic training settings, and home settings.

SAFETY WARNINGS

Contraindications

Do not operate the device without a prescription from a licensed healthcare provider, which should specify the duration, pressure, timing, and frequency of use.

Patients with the following conditions should avoid using the therapy system:

- Congestive heart failure
- Existing deep vein thrombosis (DVT)
- Acute venal thrombosis (Phlebothrombosis)
- Inflammatory phlebitis
- History of pulmonary embolism
- Pulmonary edema
- Acute vein inflammation (Thrombophlebitis)
- Decompensated cardiac insufficiency
- Arterial dysregulation
- Erysipelas
- Carcinoma or metastasis in the affected limb
- Decompensated hypertonia
- Acute inflammatory skin conditions or infections
- Venous or arterial occlusive disease
- Poor peripheral circulation
- Severe arteriosclerosis or active infection
- Raynaud's phenomenon or other vasospastic conditions
- Cold allergies
- Conditions like paroxysmal cold hemoglobinuria
- Buerger's disease
- Chilblains
- Cryoglobulinemia
- Sickle cell anemia
- Diabetes
- Sensitivity to cold or heat
- History of cold-related injuries
- Severe cardiovascular diseases
- Anesthetic skin
- Hypercoagulation disorders
- Extremities sensitive to pain
- Extremely low blood pressure
- Decreased skin sensitivity
- Pheochromocytoma
- Compromised local circulation or potential wound healing issues
- Local tissue infections or unstable skin conditions

Patients under general anesthesia, sedation, or with cognitive or communication impairments should not use the device unsupervised.

The following patients require physician supervision when using the device for cold and heat therapy:

- Patients with insensitivity to pain in extremities
- Patients with extremely low blood pressure
- Patients with Raynaud's disease
- Patients hypersensitive to cold
- Children and the elderly
- Diabetics

- Incapacitated patients
- Patients with decreased skin sensitivity
- Patients with poor circulation
- Patients with vein ligation or recent skin grafts
- Patients with cognitive disabilities
- Patients using medications affecting mental capacity
- Visually impaired patients

WARNINGS

- If you experience unusual swelling, skin discoloration, or discomfort, cease use immediately and seek advice from a healthcare professional.
- Adhere to the treatment plan provided by your healthcare provider, including instructions on area, frequency, and duration.
- Only a licensed healthcare practitioner should determine the appropriate treatment regimen.
- Patients respond differently to cold, so monitor their comfort regularly.
- Healthcare professionals familiar with their purpose should initially select anatomical wrap.
- Avoid applying the therapy garment too tightly, as it may impede blood or fluid flow.
- Use only approved anatomical wraps recommended by the manufacturer.
- Anatomical wraps are non-sterile unless labeled otherwise. Never apply non-sterile wraps directly to open wounds or broken skin; use sterile wraps in such cases.
- Healthcare professionals are responsible for communicating warning instructions and precautions to other caregivers and patients.
- If home use of the therapy garment is deemed appropriate, healthcare providers must provide comprehensive usage instructions.
- Healthcare providers must oversee the patient's use of the device, ensuring proper application and therapy adherence.
- The pad is intended for single-patient use only.
- Inspect wraps for cleanliness and damage before each use. Do not use a damaged garment as it may leak. Clean dirty garments as per the cleaning instructions provided.
- Do not attempt to sterilize the device or wraps.
- Dressings beneath the therapy garment should be applied lightly.
- Prevent the therapy garment and umbilical hose from coming into contact with sharp objects.
- Ensure correct application of the therapy wrap before activating therapy to prevent ballooning, which may damage the wrap.
- Discontinue compression therapy immediately if you experience discomfort, numbness, or tingling.
- Only use the coolant approved for this device.
- Turn off compression therapy when removing the wrap from the patient.
- Do not ingest the coolant.
- Avoid inserting fingers or objects into fan or water tank openings.
- Do not smoke near the therapy wrap or open flame.
- Maintain ventilation openings on the console to prevent overheating.
- Do not use the device in confined spaces; ensure proper airflow around the unit.
- Check for air bubbles in the device's system, as they may affect performance.
- Use mild cleaners on the unit; avoid abrasive or solvent-based ones.
- Adhere to warning and caution labels; do not remove them.
- Use with caution, as serious burns may occur. Avoid using over sensitive areas or with poor circulation.
- Do not allow children or incapacitated individuals to use the device unsupervised.
- Monitor skin condition during use and discontinue if any unusual symptoms arise.
- Take extra care with children, pregnant users, those with hyper coagulation disorders, diabetes, neuropathies, arthritic conditions, peripheral vascular disease, and those with decreased skin sensitivity.

Precautions

To ensure safe usage and minimize the risk of fire, electric shock, or injury, adhere to the following precautions when using this device. Please carefully review the entire manual before operating the unit. Precautions include:

- Refrain from inserting objects into the device's exterior case.
- Avoid spilling any liquid on the device; promptly clean spills if they occur.
- Do not overfill the water tank to prevent spills.
- If the device becomes wet, disconnect it from the power source, wipe dry, and allow to air dry before use.
- Use only the provided accessories, such as pads, power cords, and tubes, when operating the device.
- Unplug the device when not in use.
- Do not operate the device if it shows signs of physical damage or fluid leakage.
- Avoid using the device with a damaged or frayed power cord.
- Limit usage to indoor environments.
- Refrain from spraying water, solvents, or cleaners on the device.
- Handle the device carefully to prevent drops or impacts.
- Avoid pulling on cords or hoses attached to the device to prevent stress.
- Keep the device away from equipment that generates electromagnetic or other interferences.
- Refrain from smoking or using anatomic wrap near open flames.
- Avoid inserting fingers or foreign objects into the fan or water tank openings.
- Ensure that the side vents of the device remain unobstructed; use compressed air to remove dust from the vents annually.
- Do not attempt to modify the device; servicing and maintenance should only be performed by authorized personnel.
- If the adapter becomes wet, dry it thoroughly with a cloth before connecting it to the outlet or device.
- Do not use the device in wet conditions or handle the transformer or electrical cord with wet hands.
- Avoid using the device in the presence of flammable anesthetic mixtures with air, oxygen, or nitrous oxide.
- Allow the device to adjust to room temperature if exposed to temperatures below 5°C or above 40°C.
- Keep all equipment and accessories out of reach of children and pets.
- Never operate the device without water, as it may damage the water pump permanently.

Environmental Condition for Normal Working, Transport, and Storage

- Normal working ambient temperature: 5~40°C
- Normal working ambient humidity: 15%~90%
- Store and transport ambient temperature: -25~70°C
- Store and transport ambient humidity: 0~90%
- Atmospheric pressure: 70~106kPa

SYMBOL INTERPRETATION

Symbols indicating essential information for proper usage must be utilized. The device and its labeling may feature the following symbols:

Symbol	Title
	ON/OFF button
	Refer to instructions for use
	Temperature setting
	Timer setting
IP20	IP code of the device
	Disposal in accordance with Directive 2002/96/EC (WEEE)
	This way up
	Date of manufacture
	Batch code
	Manufacturer
	Type BF applied part
	Fragile, handle with care
	Keep the product in the dry place. Away from water and rain.
	Product packaging is able to be recycled
	Symbol for Class II Equipment
	Caution: Federal law restricts this device to sale by or on the order of a licensed practitioner.
	Warning

ELECTROMAGNETIC COMPATIBILITY

Warning:

- Caution: Avoid using this equipment near active HF surgical equipment or within the RF shielded room of an ME system used for magnetic resonance imaging, where high levels of electromagnetic disturbances are present.
- Caution: Refrain from placing or stacking this equipment adjacent to other devices, as it may lead to malfunction. If necessary, monitor its operation to ensure normal functionality.
- Caution: Using accessories, transducers, or cables not specified by the manufacturer may increase electromagnetic emissions or reduce electromagnetic immunity, resulting in improper operation.
- Caution: Keep portable RF communications equipment (including antenna cables and external antennas) at least 12 inches (30 cm) away from any part of this equipment, including manufacturer-specified cables, to prevent performance degradation.

FCC Statement:

This device complies with part 18 of the FCC Rules.

Technical description:

Guidance and manufacturer's declaration – electromagnetic emission

The device is designed to operate within the electromagnetic environment outlined below. Users must ensure that the device is used within this specified environment.

Emission test	Compliance	Electromagnetic Environment – Guidance
RF emissions CISPR 11	Group 1	The device 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 emission CISPR 11	Class B	The device is suitable for use in all locations including home-use and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

Guidance and manufacturer's declaration – electromagnetic immunity

The device is designed for operation within the electromagnetic environment detailed below. Users must ensure its use within this specified environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±15 kV air	±8 kV contact ±15 kV air	Floors should be wood, concrete or ceramic tile. If floor are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/ burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2kV for power supply lines	Main power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	±1 kV differential mode	Main power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IE C 61000-4-11	<5% U_T for 0.5 cycle (>95% dip in U_T) 40% U_T for 5 cycles (60% dip in U_T) 70% U_T for 25 cycles (30% dip in U_T) <5% U_T for 5 sec (>95% dip in U_T)	<5% U_T for 0.5 cycle (>95% dip in U_T) 40% U_T for 5 cycles (60% dip in U_T) 70% U_T for 25 cycles (30% dip in U_T) <5% U_T for 5 sec (>95% dip in U_T)	Main power quality should be that of a typical commercial or hospital environment.
Power frequency (50Hz/60Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE U_T is the ac. main voltage prior to application of the test level.

Guidance and manufacturer's declaration – electromagnetic immunity

The device is designed to function within the specified electromagnetic environment. Users must ensure its operation in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
Conducted RF IEC 61000-4-6	3 V_{rms} 150 kHz to 80 MHz	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. **Recommended separation distance** $d = 1{,}2\sqrt{P}$
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.5 GHz	10 V/m	$d = 1{,}2\sqrt{P}$ 80MHz to 800MHz $d = 1{,}2\sqrt{P}$ 800MHz to 2.5MHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey[a], should be less than the compliance level in each frequency range[b]. Interference may occur in the vicinity of equipment marked with the following symbol: 

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.
NOTE 2 These guidelines may not be applicable in every circumstance. Electromagnetic propagation can be influenced by absorption and reflection from structures, objects, and individuals.

a The strength of the field emitted by fixed transmitters, like base stations for cellular/cordless phones, land mobile radios, amateur radio, AM and FM radio broadcast, and TV broadcast, cannot be accurately predicted theoretically. To evaluate the electromagnetic environment caused by fixed RF transmitters, consider conducting an electromagnetic site survey. If the measured field strength at the device's location surpasses the relevant RF compliance level, monitor the device to ensure normal operation. If abnormal performance is detected, further actions, such as reorienting or relocating the device, may be required.

b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended Separation Distances

The device is designed for operation in an electromagnetic environment where radiated RF disturbances are managed. To minimize electromagnetic interference, users should maintain a specific distance between portable and mobile RF communications equipment (transmitters) and the device. This distance should be based on the maximum output power of the communications equipment, as recommended below.

Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter (m)		
	150 KHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2.5 GHz
0.01	**0.12**	**0.12**	**0.23**
0.1	**0.38**	**0.38**	**0.73**
1	**1.2**	**1.2**	**2.3**
10	**3.8**	**3.8**	**7.3**
100	**12**	**12**	**23**

For transmitters with a maximum output power not specified above, users can estimate the recommended separation distance (d) in meters (m) using the appropriate equation based on the transmitter's frequency. Here, P represents the maximum output power rating of the transmitter in watts (W) as provided by the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.
NOTE 2 Please note that these guidelines may not be applicable in all circumstances. Electromagnetic propagation can be influenced by absorption and reflection from structures, objects, and individuals.

TECHNICAL INFORMATION

Model/type	Cryon-X Pro	Weight	6.4 kg (with battery) 5.1 kg (without battery)
Power supply	Powered by a 29.4V 5A adapter or a 25.9V 10Ah built-in lithium battery	Degree of protection against electric shock	Type BF applied part
Max Volume	350 mL	Type of protection against electric shock	Class Ⅱ
Warranty	1 year	Grade of waterproof	IP20
Temperature range	Cold Therapy: 41°F-58°F (5°C-14.5°C) Heat Therapy:105°F-109°F (40.5°C-42.7°C)	Mode of operation	Continuous operation
Time to warm from minimum storage temperature to ready for use	30 minutes	Time to cool from maximum storage temperature to ready for use	15 minutes
Timer	10-60 min	Controller size (±2mm)	L282 x W220 x H230 mm
Cooling working time	Approx. 3 hours	Adapter for charging	Input: AC100-240V, Output: DC5.0V--1A
Heating work time	Approx. 2 hours	Compression range	0mmHg—70mmHg

Caution: Not designed for sterilization.

Avoid use in ENVIRONMENTS RICH IN OXYGEN.

OPERATING INSTRUCTIONS

How to Use the Device

1. **Connect Device to Power:**
   Locate the power port at the back of the device and use the provided power cord to connect it to a wall outlet. Ensure one end of the cord is connected to the device and the other end to the outlet. Note: The device can also be operated using its rechargeable batter for portability.

2. **Fill Water Tank:**
   Open the cap of the water tank on the device's top and add distilled water carefully. Fill the tank to the appropriate level without exceeding the maximum to prevent spills. Securely tighten the cap afterward. Note: It's recommended to add 10% alcohol with distilled water for monthly cleaning/disinfection.

3. **Attach Hose to Device:**
   Connect one end of the hose to the connector located at the device's lower front.

4. **Connect Hose to Wrap:**
   Attach the opposite end of the hose to the wrap. Different wraps are provided for various body areas.

5. **Apply Wrap to Body:**
   Wear the appropriate anatomic wrap on the intended body part. Ensure a snug fit without excessive tightness. Different wraps are tailored for areas like the shoulder, back, arm/elbow, knee, leg, and foot. To prevent skin issues, wear light clothing or socks before using the device.

6. **Power ON:**
   Press the POWER button on the device's front to switch it on. The blue indicator light will illuminate, and the screen will activate.

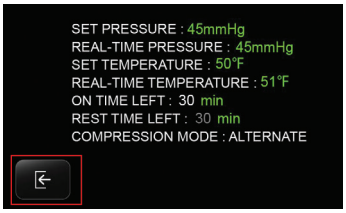
7. **Prior to Treatment:**
   After powering on, follow the instructions on the welcome interface and "Prior to Start" page. Ensure all highlighted steps are completed. Adjust the display brightness if needed. Proceed to the next interface/ page by pressing the NEXT arrow.

8. **Start Therapy:**
   Press the "Start Therapy" button to initiate the default or preset treatment. Note: The device's settings should be configured by a licensed practitioner. If adjustments are required, consult your practitioner.

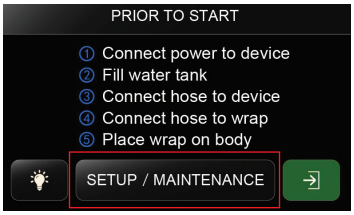
Furthermore, pressing the HOME button located in the lower left corner will navigate you back to the "Prior to Start" interface/page. Here, you can modify the display brightness and check the remaining battery level. To learn more about the "MONITOR" button, refer to Step 9 below.

9. **Monitor Real-time Data:**
   Use the "MONITOR" button to access real-time data such as pressure, temperature, and remaining treatment time. Press the BACK arrow to return to the main treatment interface.

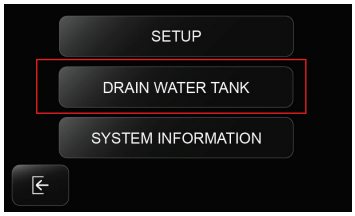
   To access additional details about the device, select "SETUP / MAINTENANCE" (refer to details below).



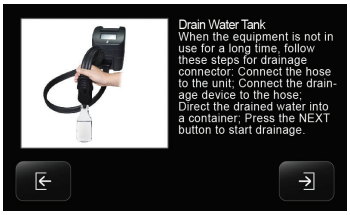
For more information of the device, you can click “SETUP / MAINTENANCE”.



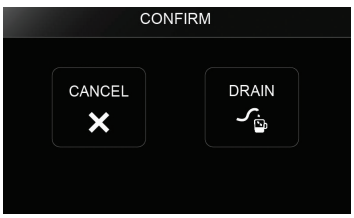
Press “SETUP / MAINTENANCE”.



The “SET UP” button will show the detailed photos and description of the five steps on the “PRIOR TO START” interface/page (For details, see the above section of “How to use the device”). For more system information, please select “SYSTEM INFORMATION”.



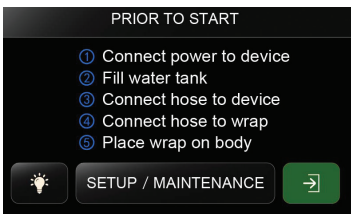
Select “DATE AND TIME SETTING”



You can input and save the correct date and time on this interface above.

Also, you can go back to select “DATA RECORD”.

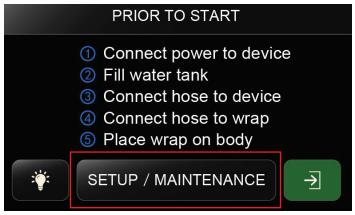
You can see the total cumulative time of compression therapy, cold therapy, and hot therapy.



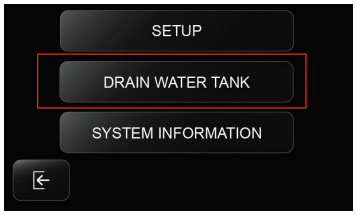
In addition, you can go back to select “SYSTEM RESET”.

You can decide whether you want to delete all the data recorded and reset the system by pressing “YES” or “NO”.

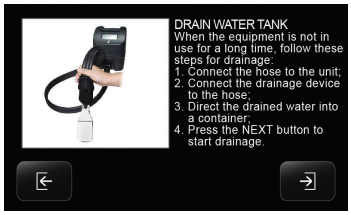
If the device is not in use after treatment, and you need to drain the liquid inside the tank of the device.



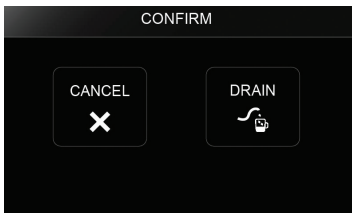
Select “SETUP / MAINTENANCE”.



Select “DRAIN WATER TANK”.



Follow the instruction on the screens and go to the next steps by pressing the arrow in the lower right corner.



Select “DRAIN”.

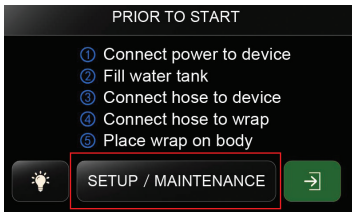
The device will start to drain. It takes a couple of minutes. Please wait.

Once it has drained all water, it will display ”SYSTEM HAS BEEN FULLY DRAINED”.

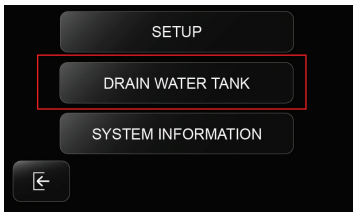
HOW TO ADJUST THE DEVICE'S OPTIONAL PARAMETERS

Here are the steps to adjust the device's settings, including pressure, temperature, and treatment time, under your licensed practitioner's guidance.

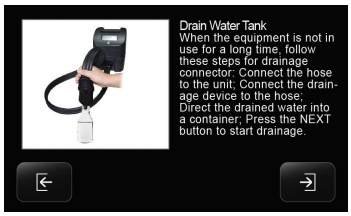
How to Adjust the Cold Temperature



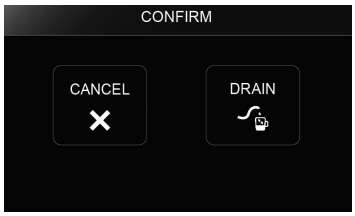
Tap the center area three times to access the "SETTING" button, then press it to adjust cold temperature and other therapy settings.



Press the "THERAPY OPTIONS" button to proceed to the next page.



Select "Cold Therapy," "Cold and Compression Therapy," or "MANUAL THERAPY."

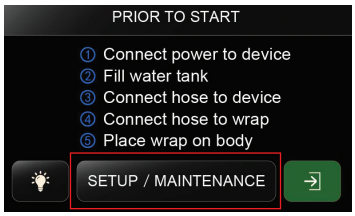


After making your choice, select "START THERAPY" to begin cold therapy. If required, opt for "COOL" to adjust the temperature further.

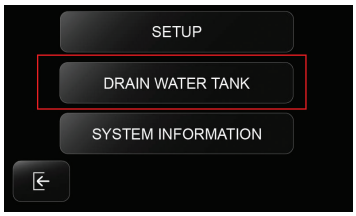
Adjust and save the temperature settings. Then, initiate cold therapy by clicking "START THERAPY."

To stop the therapy session, press "STOP THERAPY."

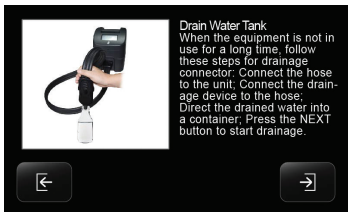
How to Adjust the Heat Temperature



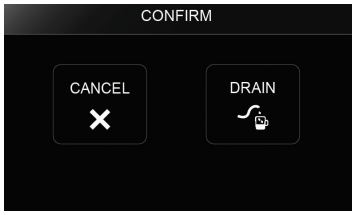
Tap the center area three times to reveal the SETTING button. Then, select it to access THERAPY OPTIONS and TIMER SETTING.



Press the "THERAPY OPTIONS" button to proceed to the next page.



Select "Hot Therapy," "Hot and Compression Therapy," or "MANUAL THERAPY."

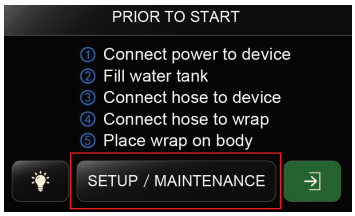


Upon selection, click "START THERAPY" to initiate the hot therapy. If needed, choose "HEAT" to further customize the temperature.

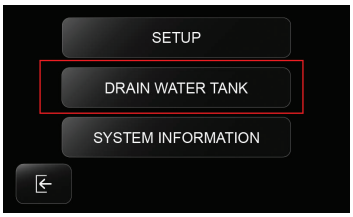
Adjust and save temperature, then initiate hot therapy by selecting "START THERAPY".

To stop the therapy session, press "STOP THERAPY."

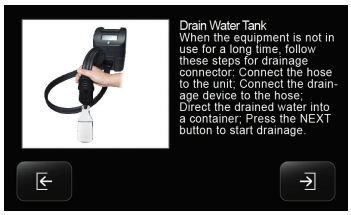
How to Adjust the Compression Pressure



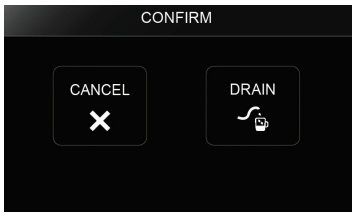
Tap the center area three times to reveal or hide the SETTINGS button. When visible, tap the SETTINGS icon to access THERAPY OPTIONS and TIMER SETTING.



Press “THERAPY OPTIONS” to enter the next page.



Select “Cold and Compression,” “Hot and Compression,” or “MANUAL THERAPY.”

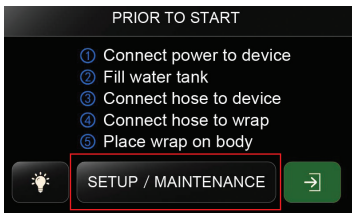


Once selected, begin therapy by clicking "START." Adjust compression pressure if necessary by selecting "COMPRESS."

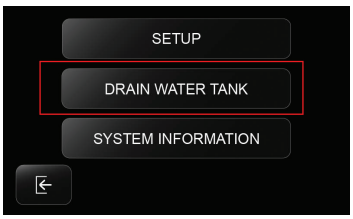
djust compression and save. Start therapy by clicking "START THERAPY."

To stop the therapy session, press "STOP THERAPY."

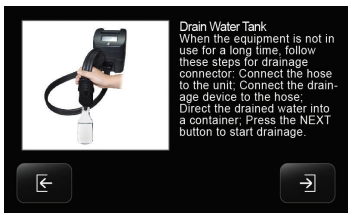
How to Set Timer



Tap the center area three times to reveal or hide the SETTING button. Once shown, tap the SETTING icon to access THERAPY OPTIONS and TIMER SETTING.



Press “TIMER SETTING” to enter the next page.



Adjust and save "ON TIME" and "REST TIME".(“ON TIME” is the run time and “REST TIME” is the rest time between runs. Under the contrast therapy mode, the timer cannot be set).

Usage Tips

Always consult your licensed healthcare practitioner before starting treatment.

Remember, federal law limits the sale of this device to licensed healthcare practitioners.

Share your complete medical history, including any reactions, with your practitioner. Some medical conditions increase the risk of cold-induced injury. Discuss potential adverse reactions and injuries with your practitioner.

Use Only as Prescribed

Use this device strictly according to the instructions provided by your practitioner. Follow their guidance on the frequency and duration of cold/hot compression, the level of application, intervals between uses, skin inspection procedures, and overall treatment duration. Refrain from using the device if you have not received or understood these instructions.

Always ensure there is an insulation barrier between the pad and the skin during use

Never allow direct contact between any part of the pad and the skin surface. Use an insulation barrier like a light sock or clothing to protect the skin. Prioritize the protection of wound sites by applying a sterile dressing with a waterproof barrier before placing the insulation and pad over the treatment area. Seek advice from your healthcare practitioner regarding the appropriate dressing.

If the treatment site has a dressing that does not fully cover the skin under the pad, add an extra insulation barrier. For individuals highly sensitive to cold/hot, thicker barriers should be considered to prevent cold/hot injury. Consult your healthcare practitioner for tailored advice in such cases.

Pad/Wrap Application

The device may include suitable pads tailored to your requirements. Here are the guidelines for using the universal pad, which you can refer to. For specific instructions on pad usage, please refer to the accompanying pad package.

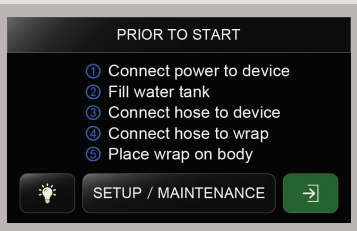
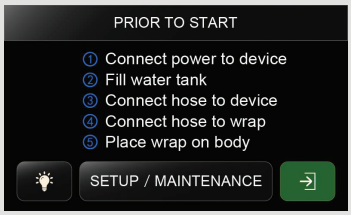
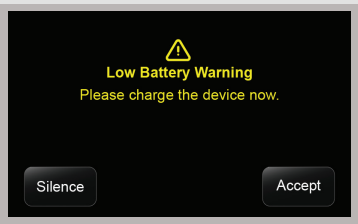
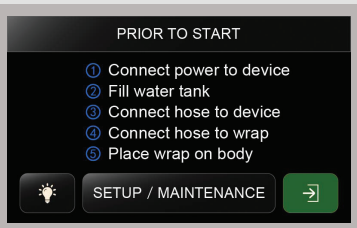
Only use pads that are compatible with the device. Using other pads may result in variations in temperature, increasing the risk of severe cold/hot-induced injuries, including full-thickness necrosis.

The Universal Pad:

1. Place a protective barrier such as a light sock or clothing over the treatment area.
2. Position the pad over the barrier. Secure the top part of the pad using one of the straps with hooks attached to the loop pad surface.
3. Secure the bottom part of the pad by attaching another strap to the loop surface. Ensure the straps are not too tight to impede movement or circulation.
4. Regularly inspect the skin under the pad, lifting the edge when necessary. Always maintain a barrier between the pad and the skin.
5. Check the skin area being treated as prescribed, especially if sensitive to temperature changes. If dressing obstructs skin checks, consult your practitioner immediately.
6. Monitor moisture on the barrier between your skin and the cold pad. Discontinue use if moisture is present, and switch to a dry barrier before resuming.
7. Regarding Condensation: If condensation appears on the pad surface, it's normal due to temperature variations. To prevent excessive moisture, wrap a barrier over the pad before use.

Remarks: Wounds should be shielded with a sterile dressing featuring a waterproof barrier. It's advisable to drain the pads between uses following the provided instructions.

TROUBLESHOOTING

Screen Display Sound	Warnings	Reasons	Solutions
 Beeps will last 0.25s.	Low Coolant Warning	The water is below the minimum water level to work normally	Please refill the water tank with distilled water. SETUP / MAINTENANCE details.
 Beeps will last 0.25s.	The cooling/ heating unit is in error.	The cooling and heating units are faulty. If no temperature change is detected within 5 minutes, therapy cannot proceed.	 Press “Silence” to return to “PRIOR TO START” and “SETUP / MAINTENANCE” or “Accept” to return to the therapy page. If the issue persists, the alarm will remain. Contact customer service.
 Beeps will last 0.25s.	Low Pressure Warning	The compression pressure cannot reach the set value within 180 seconds.	 Check the connection between the unit and the wrap. If needed, contact customer service. Press “Silence” to return to “PRIOR TO START” and “SETUP / MAINTENANCE” or “Accept” to go back to the therapy page. If the issue persists, the alarm will remain. Contact customer service.
 Beeps will last 0.25s.	High Pressure Warning	If the compression pressure is too high, stop using. If the warning still exists after reboot, contact customer service.	 Check the connection between the unit and the wrap. If needed, contact customer service. Press “Silence” to return to “PRIOR TO START” and “SETUP / MAINTENANCE” or “Accept” to go back to the therapy page. If the warning persists after reboot, contact customer service.
 Beeps will last 0.25s.	Low Battery Warning	The battery voltage is lower than 23V.	 Please charge the device now! Note: A low-voltage alarm will disable all functions. Restarting without charging will only show the low-voltage alarm. Press “Silence” to return to “PRIOR TO START” and “SETUP / MAINTENANCE” or “Accept” to go back to the therapy page.
 Beeps will last 0.25s.	Blockage Warning	There may be a blockage in the connecting tube.	 Check the connections between the tube, unit, and wraps. Press “Silence” to return to “PRIOR TO START” and “SETUP / MAINTENANCE” or “Accept” to go back to the therapy page.

CLEANING & DISINFECTING

NOTE: Prior to each use, inspect the device and adhere to the cleaning and disinfecting guidelines.

Caution: Before and during cleaning or disinfecting, ensure the device is turned off and unplugged from the wall outlet. UNDER NO CIRCUMSTANCES SHOULD THE DEVICE BE IMMERSED IN ANY LIQUID.

- To clean the outer surface, gently wipe it with a soft cloth dampened with soapy water or 70% isopropyl alcohol.
- Avoid using abrasive or harsh cleaners.
- Refrain from placing the device or wraps in a dryer or microwave.
- Hand wash the exterior of the wraps using a soft cloth moistened with soapy water or 70% isopropyl alcohol, then allow them to air dry.
- After cleaning or disinfecting, ensure the device is thoroughly dry by keeping it in the off position and disconnected from the wall outlet for at least 30 minutes.

MAINTENANCE & DISPOSAL

The device has a shelf life of 3 years, determined by the battery's charge retention. It can be powered by a rechargeable battery or a 100-240 VAC 50/60 Hz power source. To maintain optimal performance, recharge the built-in battery annually if the device is stored unused for an extended period. Note that the battery cannot be replaced by the user.

- There are no user-serviceable parts in the device. Any issues should be directed to the manufacturer or seller.
- Before each use, inspect the device and all components for damage (e.g., frayed charging cord, cracked housing, torn wraps).
- Do not connect the power supply if damage is detected.
- Avoid dropping or subjecting the device to shocks.
- Do not handle the wrap containing air bladders with sharp objects. If the air bladder is punctured or you notice a leak, do not attempt to repair the device or wrap.
- Handle the wrap containing air bladders with care and avoid contact with sharp objects. If a puncture or leak occurs, do not attempt repairs.
- During use and transportation, avoid folding or creasing the air bladder.
- Dispose of the device containing the battery in accordance with local, state, or federal regulations. Do not dispose of it in landfills or regular waste.

This device is an electromechanical device that includes printed circuit boards and rechargeable batteries. Dispose of the battery-containing device according to the local, state, or corresponding laws. Do not discard in landfill. Do not discard the device in regular waste. Consult local county requirements for proper disposal instructions.

WARRANTY

The device is covered by a one-year limited warranty starting from the delivery date, which applies only to the device itself; accessories are not included.

Within this period, any defective items will be repaired or replaced free of charge (shipping coverage excluded). However, misuse, abuse, alterations, or external damage may void the warranty.

For further details, please reach out to the manufacturer or seller.

CONTACT INFORMATION

Manufactured for

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info@cryon-x.com

CXP-152 Edition V1.0 Rev A