



## Whole body cryotherapy chamber

Model Number: uCyro E2

Working principle: The cryotherapy chamber adopts the world's most advanced automatic cascade refrigeration technology, and drives the compressor with electricity to reduce the temperature in the cryotherapy chamber to about -140 degrees, solving the various drawbacks of traditional liquid nitrogen technology. In addition, the "Dongyidong" cryotherapy chamber also innovatively integrates 5G Internet of Things, develops mobile phone applications, provides multiple functions such as appointment time and health record management, and provides users with accurate health management and big data support.



## Product Parameter & Function



## 1. Total power supply specifications

### Power supply

Input power: AC380V, 50Hz Input power: 30000VA

Output voltage and current: AC380V 40A, DC24V 40A, DC 12V 10A Output power: 26000VA

## 2. Cryotherapy chamber specifications

Cryotherapy chamber specifications 1300x1700x2360mm

Cryotherapy chamber input power: AC380V, 50Hz

Output power: 2000VA

## 3. Refrigerant specifications

Refrigerator dimensions 750x950x1650mm

Refrigerator input power: AC380V, 50Hz

Output power: 13300VA

## 4. Chiller specifications

Chiller dimensions 1600x800x1500mm

Chiller input power: AC380V, 50Hz

Output power: 10700VA

## 5. Operating environment

Operation mode Continuous operation

Ambient temperature: 10°C ~ 32°C

Relative humidity: ≤83% RH

Ambient pressure: 98kPa ~ 104kPa

## 6. Storage environment

Ambient temperature -20°C ~ 50°C (-4°F ~ 122°F)

Relative humidity 10%RH ~ 90%RH

Ambient pressure 86kPa ~ 106kPa

## 7. Main functions and operation of the product

a. Refrigeration of the cold therapy cabin. The refrigerator adopts the world's most advanced automatic cascade refrigeration technology. The compressor is driven by electricity to reduce the temperature in the cold therapy cabin to about -140 °C . The temperature of the cold therapy cabin is set at -80 to -140 °C , which is the best temperature for cold therapy acceptable to the human body. The cold therapy time is controlled at 2 to 4 minutes. The cold therapy temperature and duration are set according to personal physical conditions.



- b. The touch operation screen (10.4 inches) is equipped with Windows operating system, which displays the actual temperature in the cabin, displays the countdown of cold therapy, and displays whether there are people in the cabin; the cold therapy time, cold therapy temperature, and music played during the cold therapy can be set; there are start and emergency stop touch buttons; the automatic power on and off time can be set in the system.
- c. The temperature display screen in the cabin can observe the remaining time during the cold therapy process in the cabin to enhance the linkage of user experience.
- d. The voice system in the cabin can broadcast cold therapy precautions during the cold therapy process, or play the experimenter's own selected music, increase the fun of the cold therapy process, and reduce the fear brought by the first experience of low temperature and fog in the cabin. Call "Xiaodong, Xiaodong" in the cabin, and you can voice control "open window, close window", and voice control the lifting of the glass window of the cold therapy cabin.
- e. The way to enter the cabin for cold therapy, there are three ways to open the cabin door: fingerprint, NFC card, and appointment code. Log in to the mobile app to register a personal account, establish a personal health profile, and realize one card per person or enter fingerprints to facilitate the query and management of personal data.
- f. Safety guarantee for cold therapy. Emergency stop, if you feel unwell during the cold therapy and cannot continue to complete the cold therapy, there is an emergency handle in the cabin, which can be pulled down to open the cabin door to terminate the cold therapy; there is an "Emergency Stop" physical button outside the cabin, which can be pressed to open the cabin door to terminate the cold therapy; during the cold therapy, the "Emergency Stop" touch button on the touch screen can be pressed to open the cabin door to terminate the cold therapy. Three safety guarantee measures, from experimenter to administrators to achieve all-round safety guarantee. Safety stop. After the cold therapy is over, if the device determines that the person has not left the cabin (or illegally entered the cabin without the cold therapy procedure), the cabin will start the safety mode: stop cooling, the refrigerator stops cooling the cabin; the cabin door is automatically unlocked, and the electromagnetic lock of the cold therapy cabin will automatically shut down and pop open; open the glass window to exchange the cold air in the cabin with the outside as soon as possible; turn on the heating mode in the cabin, turn on the heating function after the refrigerator stops cooling, and heat the cabin to above 25 °C at the fastest speed; send an alarm message to the management background to notify the equipment management to check on site; ensure personal safety and prevent accidents.
- g. Glass window lifting and lowering. The operation panel outside the cabin is equipped with physical buttons to control the lifting and lowering of the glass window; call "small movement, small movement" in the cabin, and you can voice control "open window, close window" to control the lifting and lowering of the glass window of the cold therapy cabin. The glass lifting function can reduce the fear of people who experience it for the first time. Opening the glass can ensure real-time communication with the people in the cabin. Opening the window when closing the cabin door can reduce the impact of negative pressure in the cabin on the human body.
- h. Heating of glass windows. Continuous heating of glass windows ensures that the glass is clear and transparent without frost, so as to better observe the internal situation of the cabin.
- i. Backstage management system. The cold therapy cabin integrates 5G Internet of Things and develops mobile applications. You can make online reservations for cold therapy time and find nearby cold therapy stores and outlets. The cold therapy cabin is connected to the backstage data



to establish a personal health profile. You can formulate a cold therapy plan based on your specific physical condition and provide users with accurate health management and big data support. In the management background, you can remotely monitor the equipment, view the operation of the cold therapy cabin in real time, understand the number of people entering the cabin every day, and remotely control the start and shutdown of the cold therapy cabin.

## **Product Benefits**

1. Sports rehabilitation: After the body returns to normal temperature after being frozen, the muscles will relax at three or four times the normal speed, and the blood circulation will accelerate, which can bring more oxygen and nutrients to the sports injury, thereby accelerating recovery. At the same time, it prevents the generation of pain factors, so it can greatly reduce the pain of sports injuries.

2. Fat reduction and skin beauty: After being stimulated by extreme cold, the body continues to maintain a high blood circulation and metabolism for one to two hours, consuming about 500 calories, which is equivalent to the calories of running fast for an hour, burning fat and saving time. Low temperature causes the skin blood vessels to contract, and the pores to contract accordingly, which can make the skin surface more delicate and smooth, reduce oil secretion, improve the condition of oily skin, and prevent the occurrence of skin problems such as acne and pimples.

3. Body function conditioning: When the body is stimulated by extreme cold, the blood flow will be more intense, and the blood vessels that contracted when the body surface cooled down can be opened to welcome a large amount of blood with nutrients and oxygen, and expel toxins from the body. At the same time, the brain will increase the secretion of multiple hormones, such as endorphins, serotonin, and adrenaline, and will also increase the production of lymphocytes. These hormones can accelerate metabolism, restore human functions, regulate sub-health, improve sleep, and enhance immunity.

4. Vascular gymnastics: Ultra-low temperature cold therapy is when the human body quickly enters an extremely cold environment from a normal temperature environment, the skin is



stimulated by cold, the blood vessels shrink sharply, and a large amount of blood flows to the internal organs and deep tissues. In order to resist the cold, the skin blood vessels expand quickly, so a large amount of blood flows from the internal organs to the body surface, and the blood circulation and metabolism of the whole body are greatly enhanced. This kind of exercise that makes the human blood vessels expand and contract enhances the elasticity and toughness of the blood vessels, increases the elastic fibers of the arterial wall, and reduces the deposition of cholesterol in the blood vessel wall, preventing and delaying the regeneration of arteriosclerosis. Similar new exercise methods are called "vascular gymnastics."

5. Improve musculoskeletal function and relax muscles: It can reduce muscle excitability, relax muscles, relieve muscle tension and spasm, and help muscles return to normal state for muscle fatigue and muscle strain after exercise, and prevent further aggravation of muscle damage. Promote joint function recovery: After reducing joint inflammation and pain, it helps to improve joint mobility, improve joint function, assist in the treatment of joint diseases such as osteoarthritis, delay the process of joint degeneration, and improve joint stability and flexibility.



## Configuration List

Index	Specification	Unit	QTY
Cryo Chamber	Chamber: 1300x1700x2360mm	set	1
Refrigerator	Refrigerator	set	1
Chiller	Chiller	set	1
Distribution box	Distribution box	set	1
Cables	5 meter Cables	set	1
Cold Therapy Kit	Cold Therapy Kit	set	6



***Your Therapy Expert***

POWER BY:



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