

Cryo Flow

Operation instruction User's Manual



Thank you so much for purchasing our machine Cryo Flow.
Please believe this machine will bring you reliable service and good performance. This chapter is a general description for Cryo Flow.



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Chapter 1 Machine system description

Attention

People who operate or maintenance this machine must read the manual carefully before operation

1. Machine description

Cryo Flow cooling machine is a incredible cooling system, which will never disturb the laser output and working. Combine with the laser equipment, such as 808 diode laser, IPL, RF To relieve patient's pain, redness, swelling and hear damage.

2. Working theory

- Before operation using, have a temporary anesthesia.
- Powerful cooling to -30°C
- The 1500W high-power compressor provided by Danfoss ensures the system can work continuously for long periods of time. (When the wind speed level is 4, The machine can work for 2 hours the minimum temperature)
- High-speed fans have a strong cooling effect, also 6 levels winds speed can meet the needs of different treatments
- Automatic defrost is the best performance for cooling
- The self-draining system ensures the safe and cleaning of machine
- The supporter for cooling make the operation more comfortable

Chapter 2 Safety attention

1. Electrical safety

To ensure the safety of this machine's design and production strictly following the:

General requirements for safety of medical electrical equipment to production and test.

The operating system uses single-phase 220V (50Hz) power supply, the maximum input shouldn't be larger than 3A, 110 volts (60Hz) the maximum input current shouldn't be larger than 4A. In order to ensure the stable performance, if your voltage is not stable, which will influence the machine, you need to have a 1500W regulator.

Notice: The operating system of the power supply with a standard three-core national standard connector to ensure that your network power outlet with a protective grounding wire, and safe grounding.

2. Transportation safety

This machine is a mechanical, electronic 2 in 1 machine, which does not allow users to use the long distance bumps. During the transport process, you must use the original shock absorber 4 package, otherwise it may lead to damage for the refrigeration system and mechanical electronic damage. In that case, our responsibility.

3. Primary warning

- Non-professionals do not enter the treatment room
- Ensure all the people are familiar for the operation
- Not use this system in places where flammable or explosive or other insecurity is present
- Make sure that the safety warning card is in a obvious position when using this system

Chapter 3 Construction and description for machine

1. System build up





WATER OUTFLOW



**TREATMENT
HEADS**

2. Control panel

Push the Air Switch the machine starts from original interface into the operation interface.

3. Drain water

Important




The machine needs to do the defrost after every **2 hours of working**



The machine tank stores the water produced by the defrost process. After 6 defrosting of the device, drain the water from the tank.

Important

Drain water from the tank inside regularly after every defrosting

4. Adapter instruction

Adapter name	Image	Description
<p>Round adapter INCLUDED</p>		<p>Small range treatment, reduces skin temperature, such as eyebrows, armpits, foreheads.</p>
<p>Middle square adapter INCLUDED</p>		<p>Moderate range of treatment to reduce skin temperature, especially hair removal treatment, such as arms, armpits, legs.</p>
<p>Large square adapter INCLUDED</p>		<p>Large-scale treatment reduces skin temperature, especially hair removal treatment, such as thighs and abdomen.</p>

Adapter name	Image	Description
<p>808 Adapter Head OPTIONAL</p>		<p>Cooperating with P-808 Diode laser system for hair removal treatment.</p>
<p>SHR Adapter OPTIONAL</p>		<p>Cooperating with SHR IPL series for hair removal and skin rejuvenation treatment.</p>

Chapter 4 Installation

1. The corresponding electrical requirements of the equipment

The machine can be installed in the hospital, medical clinics and beauty salon.

Before opening the instrument, check that the installation environment location meets the requirements described in this section.

The system should be installed away from the hot air, and with other objects have a certain distance.

The instrument in accordance with the requirements of the factory before the installation of the location of the installation of the rated voltage.

The corresponding electrical requirements for the equipment are as follows:

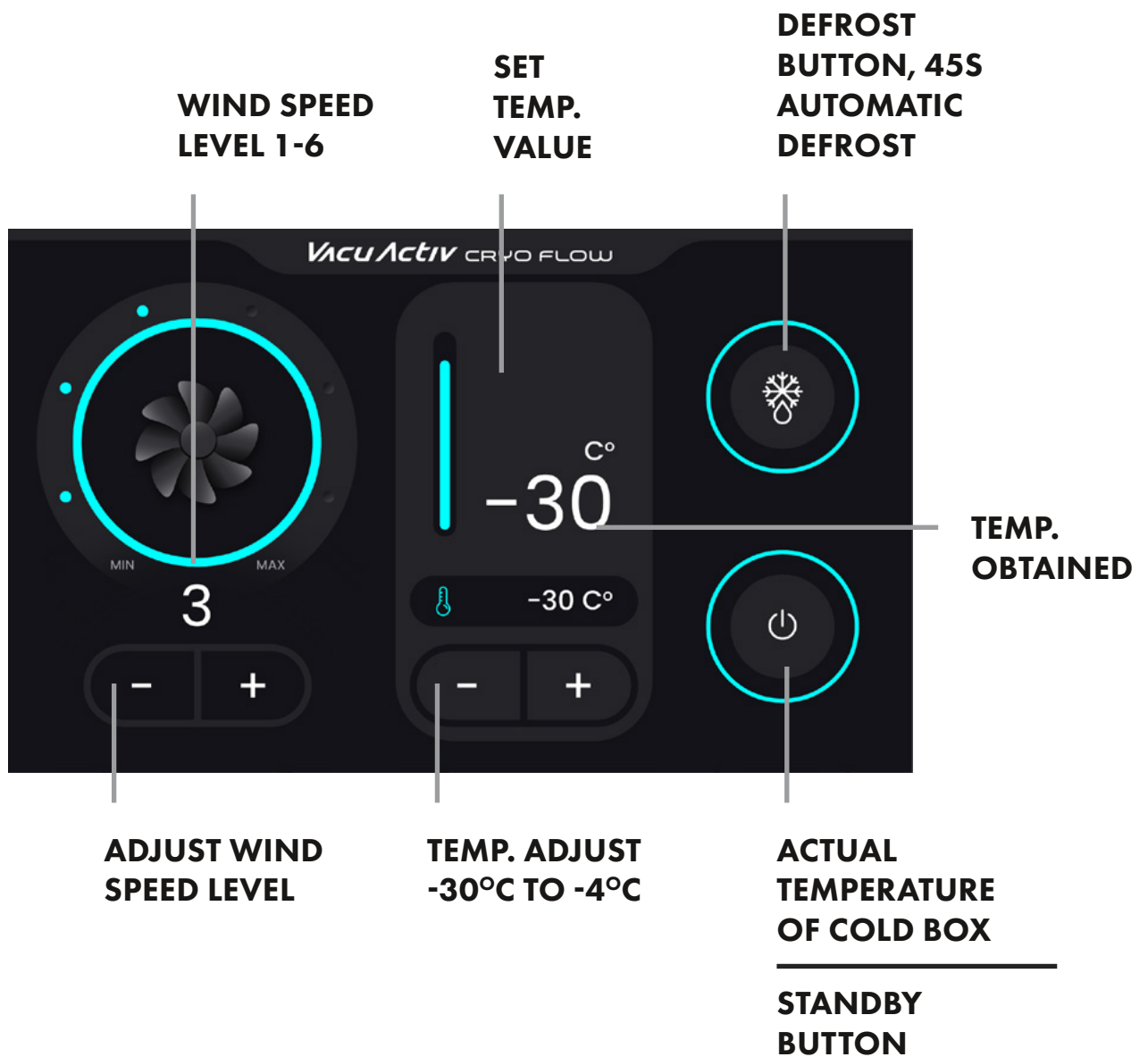
- Single-Phase 220V±10% 10A 50Hz
- The grounding of the equipment through the wall of the power jacket is grounded by the wall line. Good grounding is essential for safe operation.
- The input voltage can not have transients, voltage and current spikes, collapses or surges.
- To ensure that the system is in the best condition, the indoor temperature should be kept at about 20°C, the relative humidity can not exceed 80%, therefore, the treatment room is best equipped with air conditioning.
- Do not allow the instrument to be exposed to direct sunlight for long periods of time

2. Equipment list

1. Cryo Flow machine
2. One power cord
3. One coolig tube
4. Three treatments heads

Chapter 5 Operation

1. Interface description



2. Quick using

Machine cooling takes time, so the machine just blow out the wind temperature close to room temperature after a period of time (5 - 10minutes) then the air will cooling. Cryo Flow needs to be **defrosted after two hours of operation**. Device tank stores the water produced by the defrost process, **drain regularly after defrosting**.

3. Machine parameter

Type	Cryo Flow air cooling system
Control System	10.1-inch True color Touch Screen
Power	1500W
Temperature	-30°C to -4°C
Wind Level	1-6 Adjustable
Defrost time	45 seconds
Working voltage	110V 60hz,3A, 220V,50hz, 3A
Net weight	62 kg
Cooling Tube Length	2m
Supporter	Yes
Device Dimensions	Width: 570,4mm Depth: 881,7mm Height: 839,3mm Height with supporter: 2035,5mm

4. Operation

Cryo Flow can be used with:

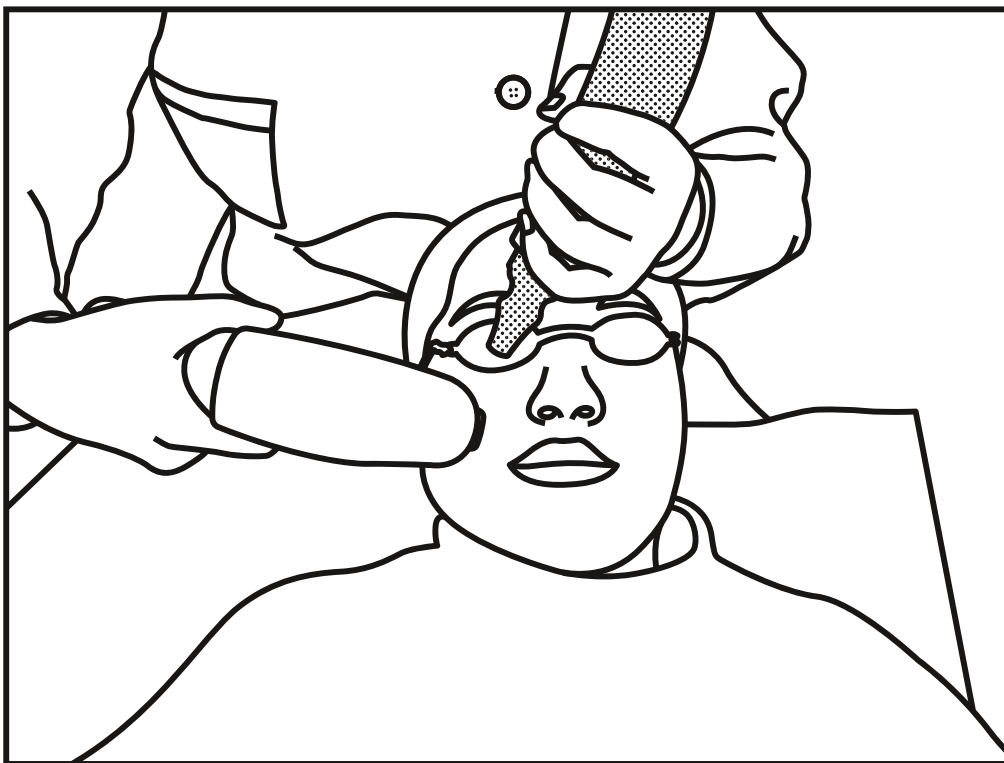
- 808 laser,
- IPL 980 laser CO2 laser,
- RF machine,

Cryo Flow reduce the pain and temperature, avoid the scald.

1. Before starting the session, cool the treatment area for 2 minutes.
2. The treatment head should target to the light outlet when you do the laser treatment.
3. If there is no adapter with the optical device, then the face treatment, the outlet should be tilted along the patient's forehead to the direction of the chin for treatment, so that patients more comfortable.

Operation as shown below

Like this you should handle the outlet, and follow the treatment head when you operation.
Blowing while cooling.



Operation as shown below

If the operation uses the adapter head, the cold wind will blow out from the treatment head



