

JUKA FOR
HEALTH

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INFORMATION

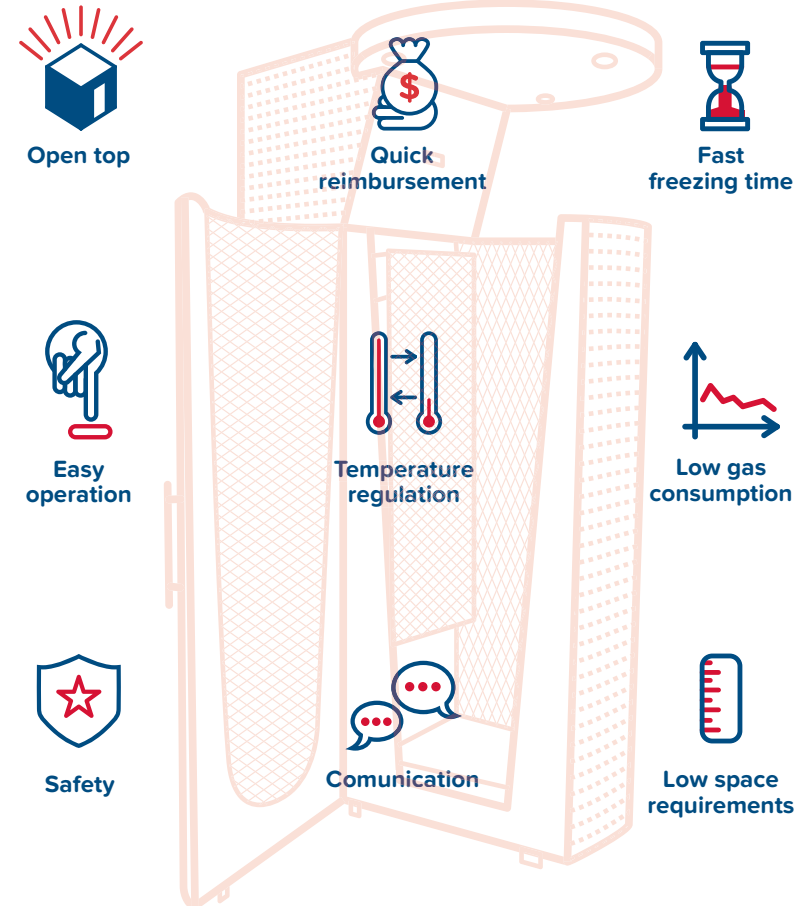
CRYOSAUNA

is a single person cryogenic chamber used for individual treatments of systemic cryotherapy.

During the treatment the temperature is regulated by the staff within the range from $-140\text{ }^{\circ}\text{C}$ to $-160\text{ }^{\circ}\text{C}$. The time may also be changed from 30 seconds up to 3 minutes. The Cryosauna is equipped with an elevated floor, so the person who is inside is submerged in the "cryobath" up to his/her shoulders – the head is held outside of the effect area of low temperature, thus the user breathes the air from the main room. Such a solution helps also people suffering from claustrofobia.

It also provides a direct contact with the patients throughout the treatment, which improves their sense of safety. The cabin of the Cryosauna is fit out with pivoting door, which can be opened at all times using minimal strength again reassuring patients of their absolute safety. The Cryosauna has an airing system which expels the gas used in the cabin-cooling process simultaneously ventilating the main room. The interior of the cabin is oval and heterogenous making the temperature inside to be spread out evenly.

ADVANTAGES

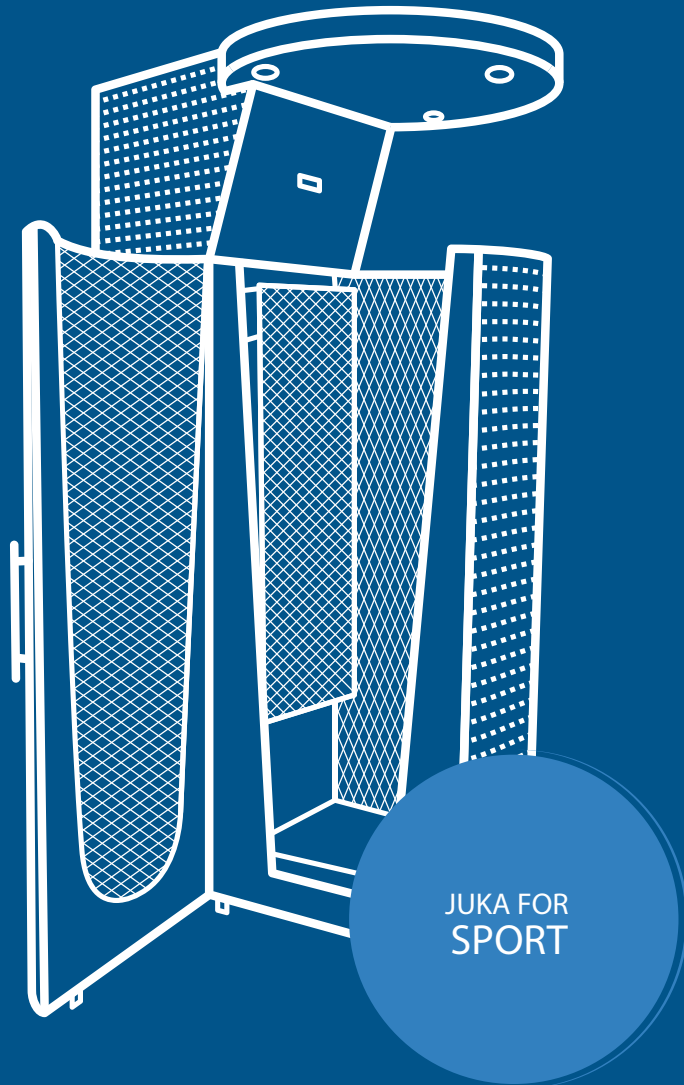




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LOCAL REQUIREMENTS

It is recommended to place the cryosauna in a separate room. The room should:

- be not smaller than 10–15 m² and should be of a height not less than 250 cm;
- the door to the room should be not narrower than 80 cm;
- have efficient mechanical ventilation with not less than 5–6 room volume air changes per hour;
- have two 125–130 mm diameter openings from the room to the outside /the cryosauna will be connected with them by flexible ducts (type FLEX); one common opening with 160 mm diameter is also possible;
- have one opening with 100 mm diameter to conduct cryogenic installation connecting cryogenic gas container with cryosauna;
- be equipped with a 3-phase socket, 16A, with “0-I” switch. The cryosauna is supplied with 3-phase power supply;
- be equipped with a reliable oxygen concentration analyser /oxygen detector/ informing when the oxygen concentration in the room falls below 19%; the delivery of cryosauna does not include the oxygen detector (it can be ordered at the manufacturer or at the gas supplier);

TECHNICAL PARAMETERS

OVERALL DIMENSIONS	
WIDTH (when the door of the cabin is closed)	900 mm
WIDTH (when the door of the cabin is opened)	1550 mm
LENGTH	1600 mm
OVERALL HEIGHT (with shades light)	2450 mm
OVERALL HEIGHT (without ceiling - optional)	2250 mm
CABIN HEIGHT	1850 mm
WEIGHT CHAMBER (cab + one person)	250–300 kg

ELECTRICAL PARAMETERS :

Nominal power output : 1,5 kW

Power supply : 400/3~/50 V/Hz

TECHNICAL DATA

- ▶ Temperature range of the Cryosauna: -100°C do -160°C
- ▶ Freezing out of the Cryosauna (cabin startup): 4–8 min
- ▶ Time range of a single treatment: 1–3 min
- ▶ Recommended time of a single treatment: 1,5 min
- ▶ Maximum time of a single treatment: 3 min

NOMINAL CONSUMPTION OF THE CRYOGENIC GAS

- ▶ Freezing out of the Cryosauna: ~ 10 kg
- ▶ During the treatment : ~ 1–1,5 kg

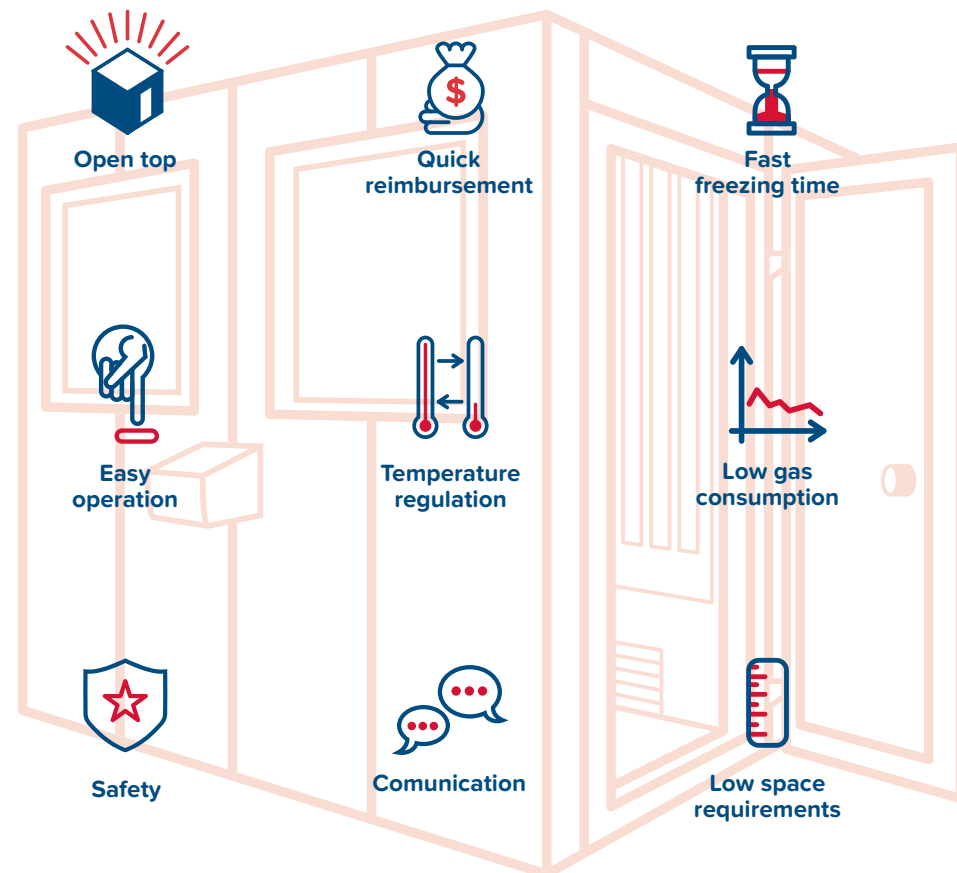
INFORMATION

CRYOGENIC CHAMBER

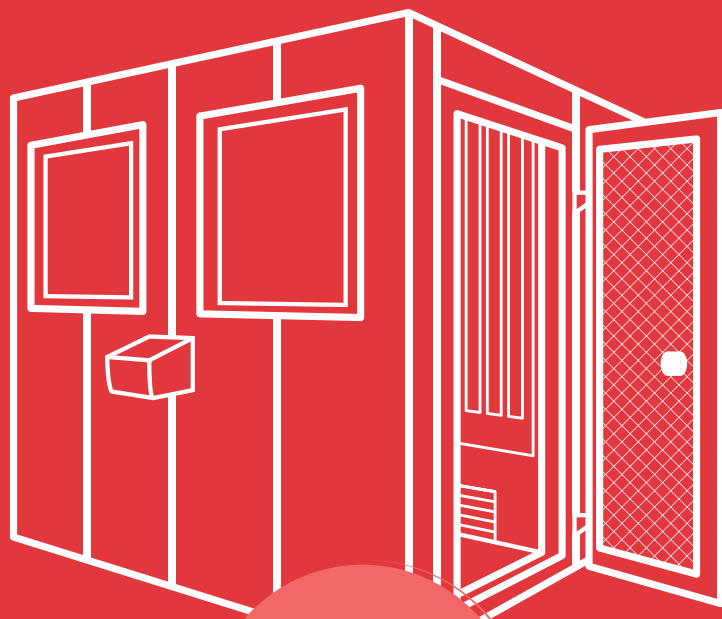
Cryochamber – is suited for group systemic cryogenic therapy. Cryochamber is a unit composed of two separate rooms – the preliminary chamber and the main chamber. The temperature may be set ranging from -40°C to -60°C in the preliminary chamber and from -100°C to -160°C in the main chamber. The time of the procedure is set and controlled by the personnel and equals 3 minutes for each chamber. Both treatment temperatures and time may be selected and planned individually for each and every session. Induced circulation on “cold” enables an even spread of temperature throughout the rooms.

Furthermore the lack of roof eliminates the problem of heat produced by patients which accumulates under the ceiling. In chamber equipped with roofs the accumulated heat has a negative effect on the distribution of temperature within the area of both chambers.

ADVANTAGES



CRYOGENIC CHAMBER CRYOCHAMBER



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SAFETY REQUIREMENTS

The patient who is going to perform cryogenic treatment in the chamber must be wearing appropriate protective outfit :

- Swimwear for women and shorts for men, thick socks to the knees, protective footwear such as clogs and gloves / cotton material is the best /, hat or headband for ears and a special mask on his/her face.

The patient who enters the chamber cannot wear any jewellery including piercing.

Cryogenic chamber can be operated only by a person who has been trained by the manufacturer PPH JUKA.

TECHNICAL DATA

DIMENSIONS OF THE CRYOCHAMBER	2-3 PERSONS	4-5 PERSONS
WIDTH	3000 mm	3800 mm
DEPTH	4500 mm	5200 mm
HEIGHT	2300 mm	2800 mm
TOTAL HEIGHT	2600 mm	2600 mm
WEIGHT	1500 kg	2000 kg

LOCAL REQUIREMENTS

2-3 people Cryochamber should be placed in a separate room, which would not be smaller than $L \times B \times H = 4,5 \times 3,5 \times 2,6$ m.

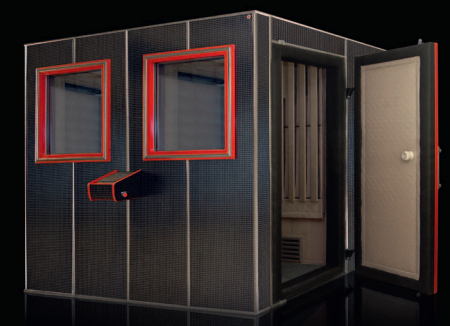
The room should be :

- not smaller than 20 m² and be of a height not less than 250 cm for 2-3 people Cryochamber
- not smaller than 25 m² and be of height not less than 250 cm for 4-5 people Cryochamber
- have efficient mechanical ventilation with no less than 6 room volume air changes per hour

There should be a power supply next to the chambers room and it should have 230V/50Hz and power of 4.0 kW. It is suggested not place and swimming pools or any other hydro devices which could increase the humidity, next to the chamber. There should be a non-slippery carpeting on the floor where the chamber is placed. We recommend to make a floor heating right in front of the chamber. If there is no floor heating, then JUKA will produce a cryogenic chamber with a heating plate underneath the chambers' floor.



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PPH JUKA S.j.
ul. Fabryczna 4
32-005 Niepołomice

Dział Kriogeniki
Tel: +48 12 284 41 00
Fax: +48 284 41 10
E-mail: g.gorka@juka.com.pl
j.skwara@juka.com.pl

Sekretariat
Tel: +48 12 284 41 00
Fax: +48 284 41 10
E-mail: sekretariat@juka.com.pl

www.kriogenika.juka.com.pl

