

MITTAUSPÖYTÄKIRJA

MEASUREMENT REPORT

Nro nr • no.	T-R 1200	
Tilaaja Uppdragsgivare • Customer	Cryotech Finland Oy Jaakonkatu 2 01620 Vantaa, Finland	
Testattu laite Testad instrument • Tested instrument	Three single user cryotherapy cabins - Temperature profiles of twelve people before and after treatment	
Valmistaja Tillverkare • Manufactured by	1. Cryotech Finland Oy 2. Cryotech Finland Oy 3. Cryomed, Slovakia	
Tyyppi Typ • Model	1. CTN CryoCabin (Liquid Nitrogen powered) 2. CTN eCabin (Electrically powered) 3. Cryomed Cryosauna (Liquid Nitrogen powered)	
Sarjanumero Serienummer • Serial number	1. CTN170150 2. EC210001 3. CMC330015	
Kalibrointipäivä Kalibreringsdatum • Date of calibration	8. - 10.2.2022	
Päiväys Datum • Date	14.2.2022	
Allekirjoitukset Underskrifter • Signatures	Farshid Manoocheri Head of Calibration Services	Petri Kärhä Senior Scientist
Sivu Sida • Page	1/5	
Liitteitä Bilagor • Appendices	Appendix: Thermal images of "Heli" and "Tuomo" (12 pages) CTN CryoCabin Feb 08 2022.zip CTN eCabin Feb 09 2022.zip Cryomed Cryosauna Feb 10 2022.zip	

Tested artefacts

The skin temperature profiles of people were measured before and after a treatment in a cryotherapy cabin. Three different cabins were tested. Cabins 1 and 3 were cooled with liquid Nitrogen. Cabin 2 was electrically cooled. The cabins were in good working condition.

The measurements were performed on 12 people in total, 8 males and 4 females. Properties of the tested persons are listed in Table 1.

Table 1. Properties of the tested persons.

	First name	Age	Gender	Height / cm	Weight / kg
1	Jonna	41	Female	168	59
2	Anette	24	Female	163	69
3	Heli	51	Female	170	60
4	Sanna	48	Female	171	58
5	Ossi	71	Male	166	64
6	Seppo	71	Male	175	95
7	Kalle	29	Male	191	75
8	Tuomo	45	Male	172	82
9	Jori	41	Male	177	75
10	Hannu	64	Male	179	113
11	Atte	58	Male	174	95
12	Roni	45	Male	185	93.6

Testing method

Thermal images were taken from a distance of approximately 6 m. Location was chosen close to the cabinet to ensure short delay (~10 s) between the treatment and the photographs. Two thermal images, front and rear side of the whole person, were taken before and after the treatment. The tests were carried out on three separate days to ensure similar starting conditions and comparable skin temperatures of the test objects. On each day, a different cryotherapy cabin was used.

Measurement standards used in calibration and traceability

Thermal images were taken with FLIR E54 24° thermal camera, serial number 84505191. Device has been calibrated October 9, 2020, by FLIR Systems OÜ, Estonia.

Testing conditions

Tests were performed under ordinary room conditions in the premises of CTN. Ambient temperature was approximately $T_a = (22 \pm 2)^\circ\text{C}$, Relative humidity was not monitored.

Measurements

Two of the cryotherapy cabins (cabins 1 and 3) used liquid Nitrogen for cooling. They were set at a temperature of -130°C , and the duration of the treatment was 180 seconds for all test subjects. Cabin 2 was cooled electrically. The cold distribution and duration were controlled automatically by the temperature monitoring system integrated in the device. The treatment was continued until the chosen skin temperature of $+5^\circ\text{C}$ was reached. The duration of the treatment varied from 109 seconds to the set maximum of 180 seconds depending on the person's individual characteristics. The cooling mode was set to "Intense".

Test results and measurement uncertainty

Measurements with CTN CryoCabin

Measurements with CTN Cryocabin were carried out on February 8, 2022. The order of the test group was Jonna, Anette, Heli, Sanna, Ossi, Seppo, Kalle, Tuomo, Jori, Hannu, Atte, and Roni. The thermal photographs taken are included in the attached file CTN CryoCabin Feb 08 2022.zip. The file names consist of date and time. For example, the first image name, 08022022093441812.jpg, contains the measurement date: 08.02.2022, followed by time: 09:34:41. Every second object contains the name of the subject as a note. In the measurements, emissivity was set to 1.00 and the color palette was Iron. These were later edited as 0.98 and Rainbow. Temperature scale was edited to 0 - 35 °C.

Measurements with CTN eCabin

Measurements with CTN eCabin were carried out on February 9, 2022. The order of the test group was Jonna(109 s), Jori (130 s), Sanna (126 s), Anette (124 s), Atte (176 s), Ossi (180 s), Seppo (180 s), Tuomo (160 s), Heli (151 s), Hannu (180 s), Roni (180 s), and Kalle (180 s). The number in parentheses states the time in the cabin. The thermal photographs taken are included in the attached file CTN eCabin Feb 09 2022.zip. The file names consist of date and time. For example, the first image name, 09022022090901520.jpg, contains the measurement date: 09.02.2022, followed by time: 09:09:01. Every second object contains the name of the subject as a note. In the measurements, emissivity was set to 0.98 and the color palette was Rainbow. Temperature scale was edited to 0 - 35 °C.

Measurements with Cryomed Cryosauna

Measurements with Cryomed Cryosauna were carried out on February 10, 2022. The order of the test group was Jonna, Ossi, Atte, Seppo, Tuomo, Heli, Sanna, Anette, Roni, Kalle, Hannu, and Jori. The thermal photographs taken are included in the attached file Cryomed Cryosauna Feb 10 2022.zip. The file names consist of date and time. For example, the first image name, 10022022092033438.jpg, contains the measurement date: 10.02.2022, followed by time: 09:20:33. Every second object contains the name of the subject as a note. In the measurements, emissivity was set to 0.98 and the color palette was Rainbow. Temperature scale was edited to 0 - 35 °C.

Analysis of measurement subjects “Heli” and “Tuomo”

Thermal images of subjects “Heli” and “Tuomo” were analysed with program FLIR Thermal Studio. Eight measurement points were added to the images as shown in the attached thermal images. The locations were Chest, Belly, Right arm, Left arm, Right thigh, Left thigh, Right leg, and Left leg. Temperatures were recorded and tabulated, and averages and standard deviations (Stdev) were calculated.

Table 2. Measured front side temperatures of subject “Heli”. All temperatures are in °C.

Measurement Location	CryoCabin		eCabin		Cryomed		
	Before	After	Before	After	Before	After	
Chest	1	33.9	21.8	34.3	14.2	33.7	24.1
Belly	2	33.0	16.4	33.0	9.2	32.1	19.8
Right arm	3	31.5	19.3	32.3	9.7	30.9	23.0
Left arm	4	31.0	19.3	31.6	13.8	30.4	25.8
Right thigh	5	30.3	5.3	30.6	12.3	28.8	7.3
Left thigh	6	28.7	8.7	30.8	11.2	28.7	10.7
Right leg	7	30.0	15.4	31.6	19.7	31.2	17.3
Left leg	8	31.3	19.3	32.4	18.0	31.7	18.5
Average		31.4	15.1	32.1	13.5	30.9	18.3
Stdev		1.5	5.4	1.1	3.5	1.6	6.1

Table 2 shows measured front side (face) temperatures of Heli. Rear side (back) temperatures are presented in Table 3. Tables 4 and 5 show corresponding results for Tuomo.

Table 3. Measured rear side temperatures of subject "Heli". All temperatures are in °C.

Measurement Location	CryoCabin		eCabin		Cryomed	
	Before	After	Before	After	Before	After
Chest 1	33.9	24.7	34.7	16.4	34.1	26.9
Belly 2	34.1	21.3	34.7	17.2	34.6	26.1
Right arm 3	31.2	13.6	32.4	12.6	32.4	19.0
Left arm 4	20.3	14.0	31.8	17.4	32.0	22.5
Right thigh 5	28.5	8.7	30.9	12.1	30.0	12.6
Left thigh 6	30.1	5.2	31.4	12.1	30.1	7.4
Right leg 7	28.3	9.5	30.8	15.8	28.9	12.0
Left leg 8	28.4	2.4	30.4	12.0	28.6	7.3
Average	29.4	12.4	32.1	14.5	31.3	16.7
Stdev	4.1	7.1	1.6	2.3	2.1	7.5

Table 4. Measured front side temperatures of subject "Tuomo". All temperatures are in °C.

Measurement Location	CryoCabin		eCabin		Cryomed	
	Before	After	Before	After	Before	After
Chest 1	33.1	25.0	33.2	21.3	32.6	26.9
Belly 2	30.5	12.0	31.7	7.1	30.7	14.7
Right arm 3	32.0	25.4	33.2	18.4	31.4	24.3
Left arm 4	31.8	19.9	32.7	21.6	31.1	23.7
Right thigh 5	28.2	6.8	30.6	17.6	28.1	11.4
Left thigh 6	28.2	15.0	30.4	18.5	29.4	16.5
Right leg 7	32.8	20.1	33.2	23.5	32.1	23.1
Left leg 8	32.4	20.3	33.9	17.7	31.9	23.6
Average	31.1	18.1	32.4	18.2	30.9	20.5
Stdev	1.8	6.0	1.2	4.7	1.4	5.2

Table 5. Measured rear side temperatures of subject "Tuomo". All temperatures are in °C.

Measurement Location	CryoCabin		eCabin		Cryomed	
	Before	After	Before	After	Before	After
Chest 1	32.9	20.5	33.3	6.6	32.5	25.7
Belly 2	32.9	23.7	32.8	16.1	32.9	27.1
Right arm 3	30.5	11.9	32.6	13.4	31.0	18.4
Left arm 4	31.6	16.9	32.5	14.9	30.6	18.9
Right thigh 5	30.4	14.1	31.7	15.5	30.3	16.4
Left thigh 6	30.4	7.2	31.4	15.4	30.2	10.4
Right leg 7	30.9	11.2	31.9	17.1	29.7	13.7
Left leg 8	30.9	0.2	31.9	16.1	30.1	10.8
Average	31.3	13.2	32.3	14.4	30.9	17.7
Stdev	1.0	7.0	0.6	3.1	1.1	5.8

The overall uncertainty of the temperature measurements as specified by the manufacturer is ± 2 °C.

Remarks

Calibration results only apply to the tested devices or artefacts.

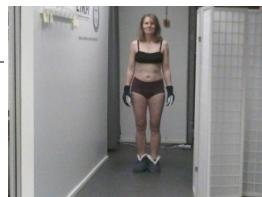
8.2.2022 10.48.53



Heli_CryoCabin_1.jpg

Measurements

Sp1	34.0 °C
Sp2	33.1 °C
Sp3	31.6 °C
Sp4	31.1 °C
Sp5	30.4 °C
Sp6	28.8 °C
Sp7	30.1 °C
Sp8	31.4 °C



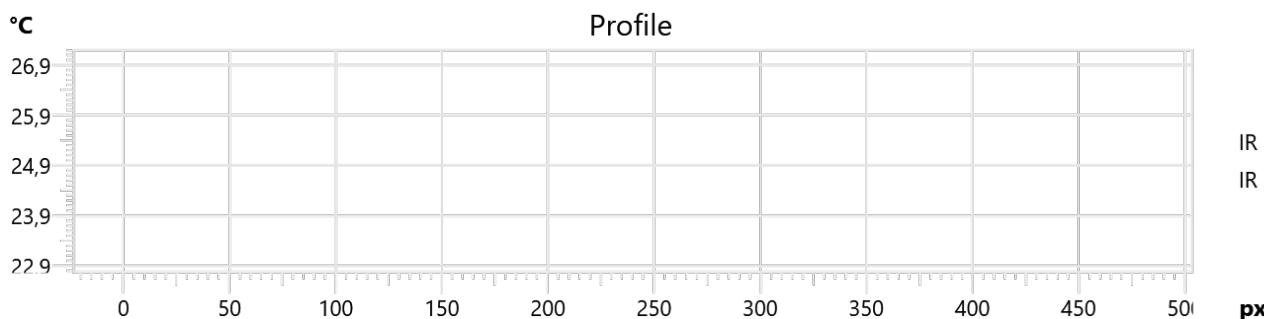
8.2.2022 10.53.08



Heli_CryoCabin_2.jpg

Measurements

Sp1	21.8 °C
Sp2	16.3 °C
Sp3	19.3 °C
Sp4	19.2 °C
Sp5	5.0 °C
Sp6	8.4 °C
Sp7	15.3 °C
Sp8	19.2 °C



IR 1 (Img1): Li1
IR 2 (Img2): Li1

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Parameters

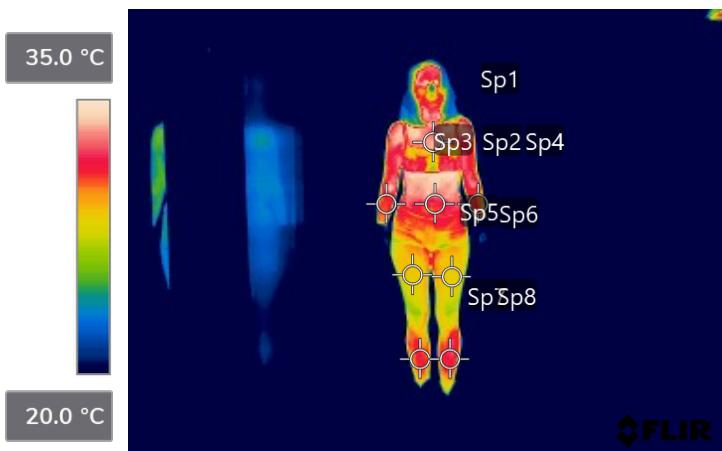
Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Note comparison

Subject "Heli" before treatment in CTN CryoCabin

Subject "Heli" after treatment in CTN CryoCabin

10.2.2022 10.50.41



Heli_Cryomed_1.jpg

Measurements

Sp1	33.8 °C
Sp2	32.2 °C
Sp3	31.0 °C
Sp4	30.5 °C
Sp5	28.9 °C
Sp6	28.7 °C
Sp7	31.3 °C
Sp8	31.8 °C



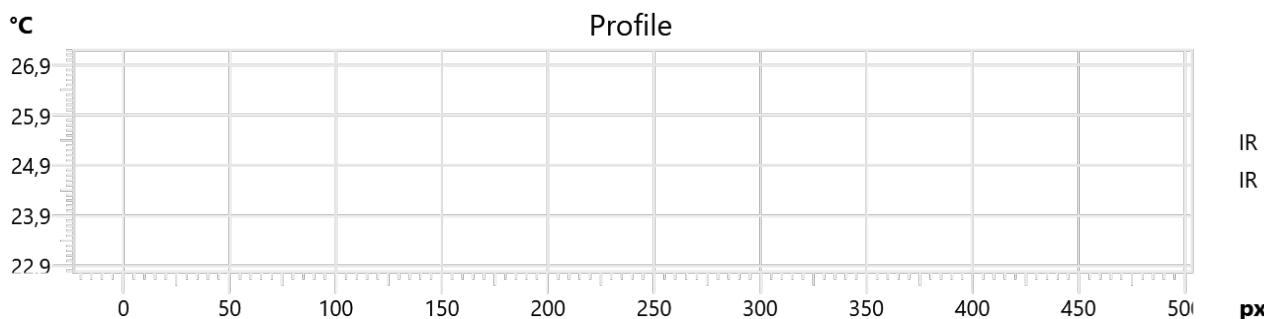
10.2.2022 10.54.23



Heli_Cryomed_2.jpg

Measurements

Sp1	24.1 °C
Sp2	19.7 °C
Sp3	23.0 °C
Sp4	25.3 °C
Sp5	7.0 °C
Sp6	10.5 °C
Sp7	17.2 °C
Sp8	18.5 °C


 IR 1 (Img1): Li1
 IR 2 (Img2): Li1

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Note comparison

Subject "Heli" before treatment in Cryomed Cryosauna

Subject "Heli" after treatment in Cryomed Cryosauna

9.2.2022 11.06.09



Heli_eCabin_1.jpg

Measurements

Sp1	34.4 °C
Sp2	33.1 °C
Sp3	32.4 °C
Sp4	31.8 °C
Sp5	30.7 °C
Sp6	30.9 °C
Sp7	31.8 °C
Sp8	32.5 °C



9.2.2022 11.09.22



Heli_eCabin_2.jpg

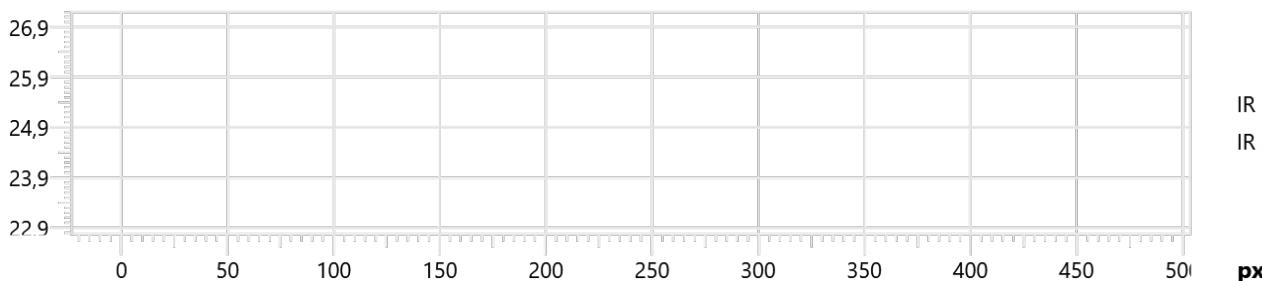
Measurements

Sp2	14.0 °C
Sp3	9.0 °C
Sp4	9.4 °C
Sp5	13.6 °C
Sp6	12.1 °C
Sp7	11.0 °C
Sp8	19.6 °C
Sp9	17.9 °C



°C

Profile



IR 1 (Img1): Li1
IR 2 (Img2): Li1

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Note comparison

Subject "Heli" before treatment in CTN eCabin

Subject "Heli" after treatment in CTN eCabin

8.2.2022 10.49.06



Heli_CryoCabin_3.jpg

Measurements

Sp1	33.9 °C
Sp2	34.1 °C
Sp3	31.2 °C
Sp4	30.3 °C
Sp5	28.5 °C
Sp6	30.1 °C
Sp7	28.3 °C
Sp8	28.4 °C



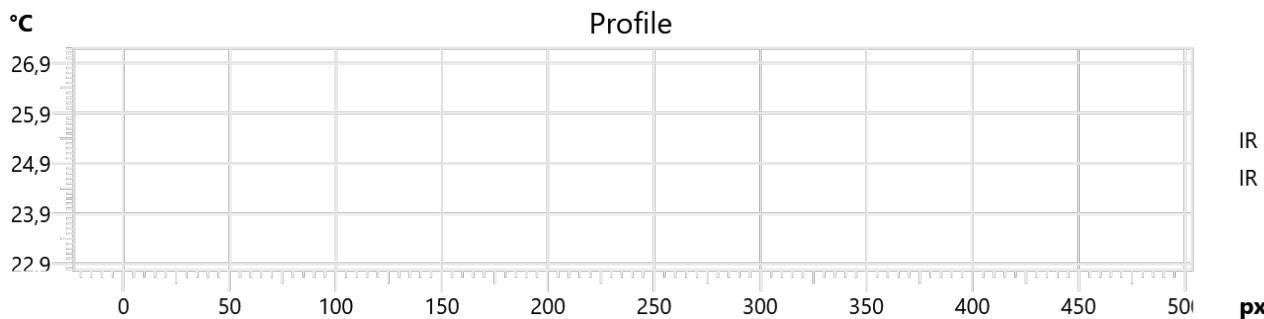
8.2.2022 10.53.20



Heli_CryoCabin_4.jpg

Measurements

Sp1	24.7 °C
Sp2	21.3 °C
Sp3	13.6 °C
Sp4	14.0 °C
Sp5	8.7 °C
Sp6	5.2 °C
Sp7	9.5 °C
Sp8	2.4 °C



IR 1 (Img1): Li1
IR 2 (Img2): Li1

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Parameters

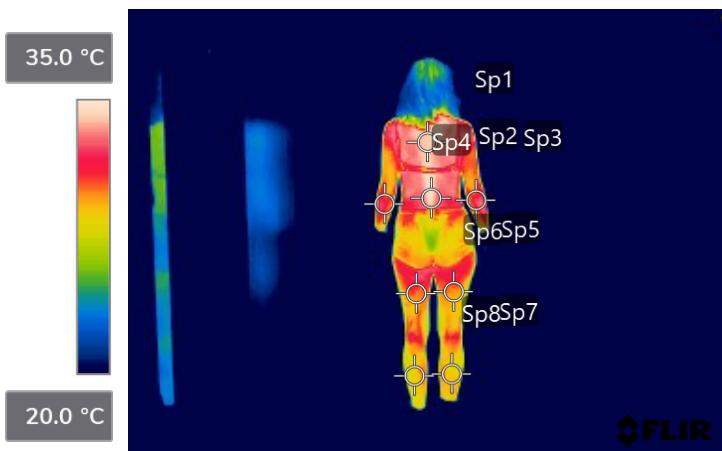
Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Note comparison

Subject "Heli" before treatment in CTN CryoCabin
Subject "Heli" after treatment in CTN CryoCabin

Heli
Heli

10.2.2022 10.50.51



Heli_Cryomed_3.jpg

Measurements

Sp1	34.1 °C
Sp2	34.6 °C
Sp3	32.4 °C
Sp4	32.0 °C
Sp5	30.0 °C
Sp6	30.1 °C
Sp7	28.9 °C
Sp8	28.6 °C



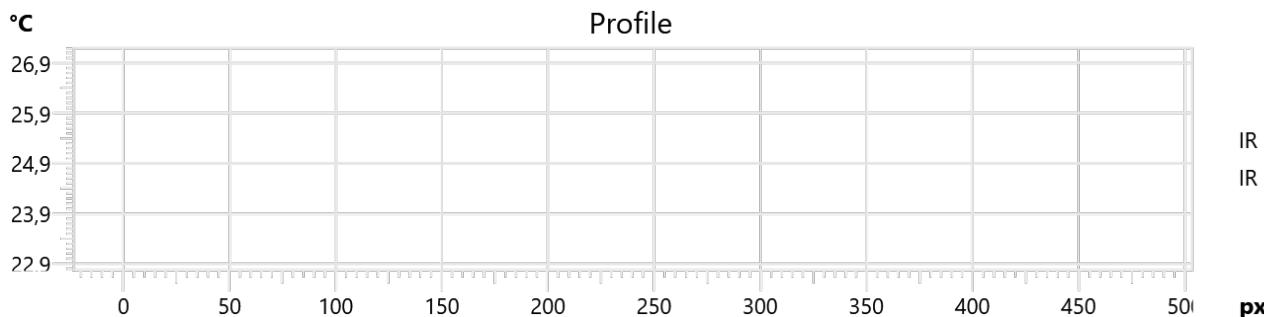
10.2.2022 10.54.33



Heli_Cryomed_4.jpg

Measurements

Sp1	26.9 °C
Sp2	26.1 °C
Sp3	19.0 °C
Sp4	22.5 °C
Sp5	12.6 °C
Sp6	7.4 °C
Sp7	12.0 °C
Sp8	7.3 °C


 IR 1 (Img1): Li1
 IR 2 (Img2): Li1

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Note comparison

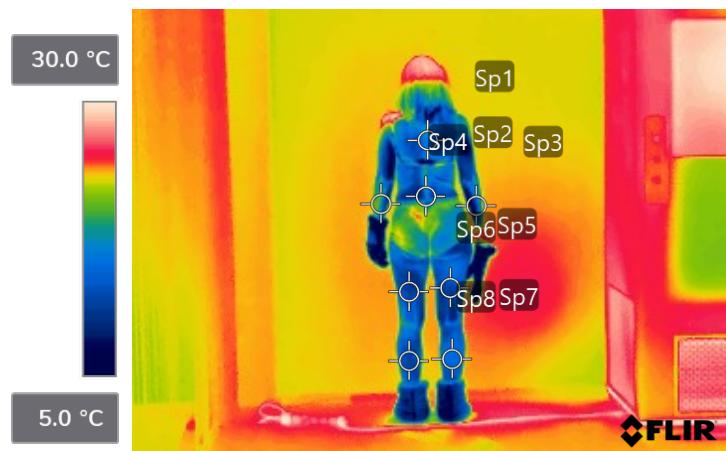
 Subject "Heli" before treatment in Cryomed Cryosauna
 Subject "Heli" after treatment in Cryomed Cryosauna

 Heli
 Heli

9.2.2022 11.06.20



9.2.2022 11.09.35



Measurements

Sp1	34.7 °C
Sp2	34.7 °C
Sp3	32.4 °C
Sp4	31.8 °C
Sp5	30.9 °C
Sp6	31.4 °C
Sp7	30.8 °C
Sp8	30.4 °C



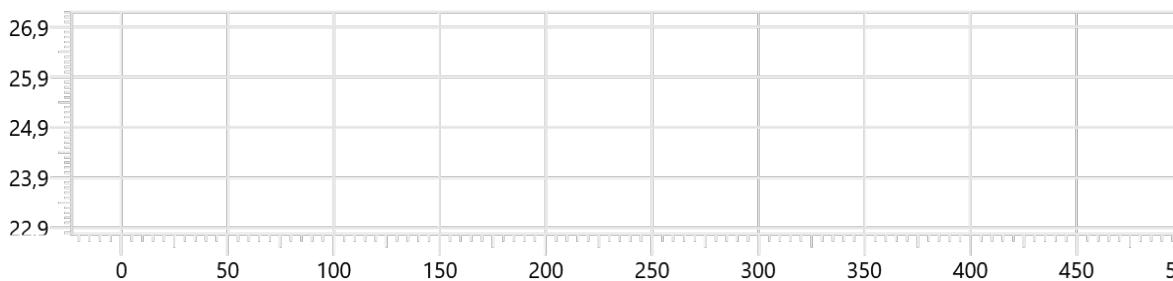
Measurements

Sp1	16.4 °C
Sp2	17.2 °C
Sp3	12.6 °C
Sp4	17.4 °C
Sp5	12.1 °C
Sp6	12.1 °C
Sp7	15.8 °C
Sp8	12.0 °C



°C

Profile



px

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Parameters

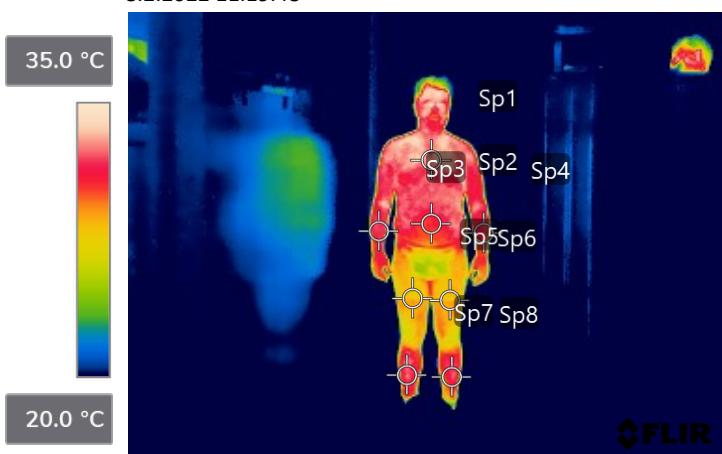
Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Note comparison

Subject "Heli" before treatment in CTN eCabin
Subject "Heli" after treatment in CTN eCabin

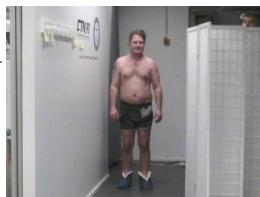
Heli
Heli

8.2.2022 11.19.48

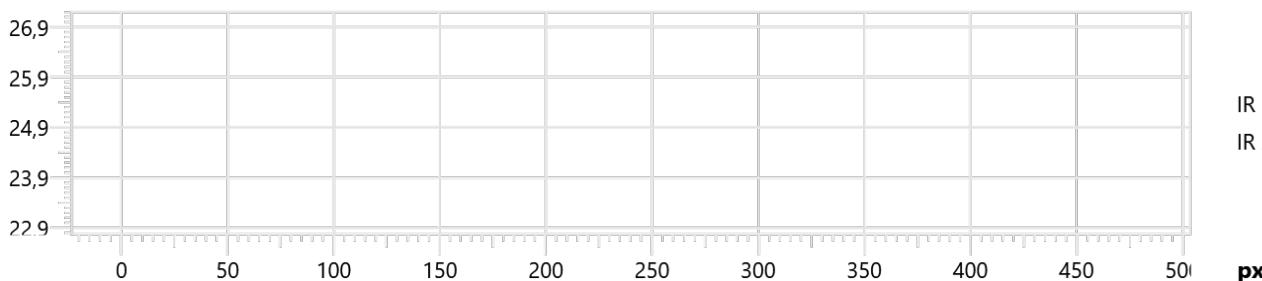


Measurements

Sp1	33.1 °C
Sp2	30.5 °C
Sp3	32.0 °C
Sp4	31.8 °C
Sp5	28.2 °C
Sp6	28.2 °C
Sp7	32.8 °C
Sp8	32.4 °C



Profile



IR 1 (Img1): Li1
IR 2 (Img2): Li1

8.2.2022 11.23.29



Measurements

Sp1	25.0 °C
Sp2	12.0 °C
Sp3	25.4 °C
Sp4	19.9 °C
Sp5	6.8 °C
Sp6	15.0 °C
Sp7	20.1 °C
Sp8	20.3 °C



Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Parameters

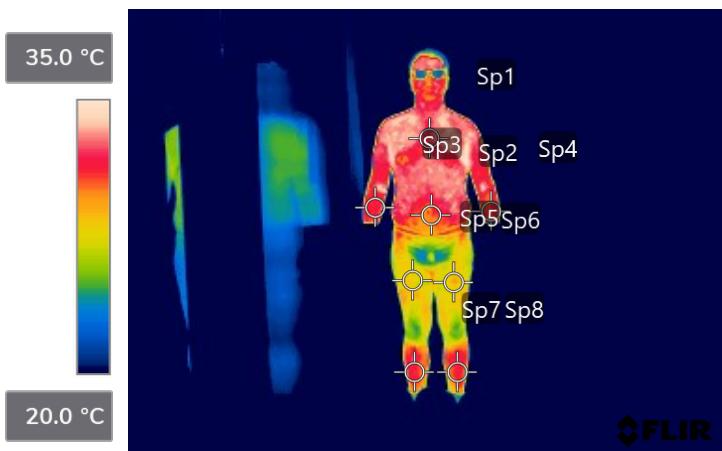
Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Note comparison

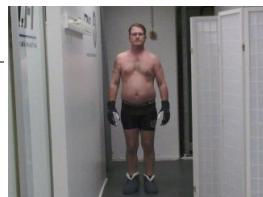
Subject "Tuomo" before treatment in CTN CryoCabin

Subject "Tuomo" after treatment in CTN CryoCabin

10.2.2022 10.42.41


Measurements

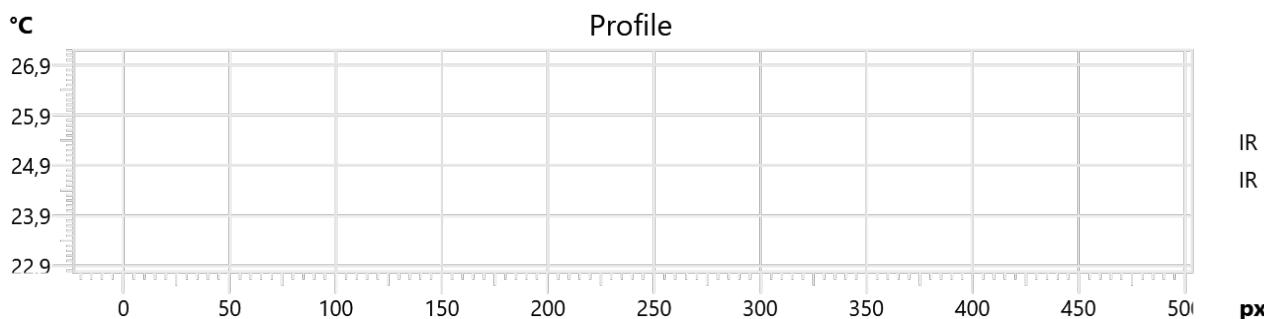
Sp1	32.6 °C
Sp2	30.7 °C
Sp3	31.4 °C
Sp4	31.1 °C
Sp5	28.1 °C
Sp6	29.4 °C
Sp7	32.1 °C
Sp8	31.9 °C



10.2.2022 10.46.42


Measurements

Sp1	26.9 °C
Sp2	14.7 °C
Sp3	24.3 °C
Sp4	23.7 °C
Sp5	11.4 °C
Sp6	16.5 °C
Sp7	23.1 °C
Sp8	23.6 °C


Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Note comparison

Subject "Tuomo" before treatment in Cryomed Cryosauna

Subject "Tuomo" after treatment in Cryomed Cryosauna

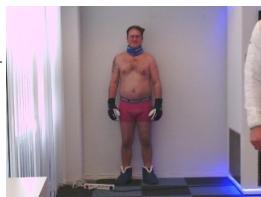
9.2.2022 10.54.01



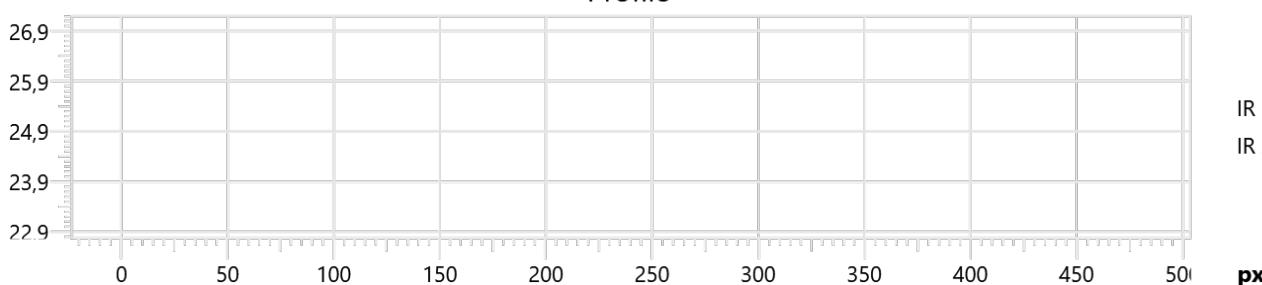
Tuomo_eCabin_1.jpg

Measurements

Sp1	33.2 °C
Sp2	31.7 °C
Sp3	33.2 °C
Sp4	32.7 °C
Sp5	30.6 °C
Sp6	30.4 °C
Sp7	33.2 °C
Sp8	33.9 °C



Profile



Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Note comparison

Subject "Tuomo" before treatment in CTN eCabin

Subject "Tuomo" after treatment in CTN eCabin

8.2.2022 11.20.02

35.0 °C



20.0 °C



Tuomo_CryoCabin_2.jpg

8.2.2022 11.23.39

35.0 °C



Tuomo_CryoCabin_4.jpg

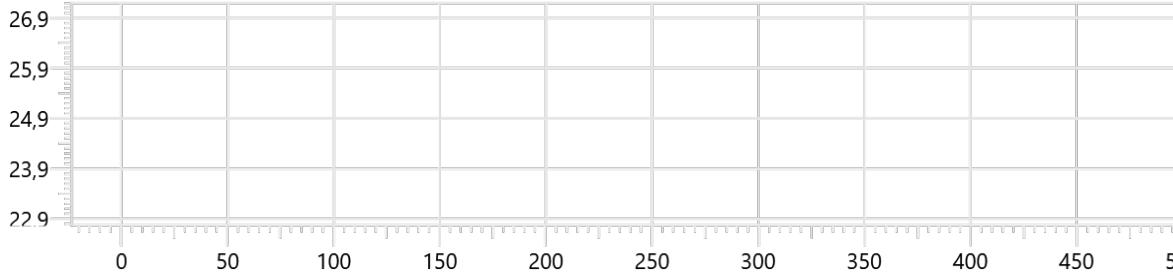
Measurements

Sp1	32.9 °C
Sp2	32.9 °C
Sp3	30.5 °C
Sp4	31.6 °C
Sp5	30.4 °C
Sp6	30.4 °C
Sp7	30.9 °C
Sp8	30.9 °C



°C

Profile



IR 1 (Img1): Li1
IR 2 (Img2): Li1

Measurements

Sp1	20.5 °C
Sp2	23.7 °C
Sp3	11.9 °C
Sp4	16.9 °C
Sp5	14.1 °C
Sp6	7.2 °C
Sp7	11.2 °C
Sp8	0.2 °C



Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

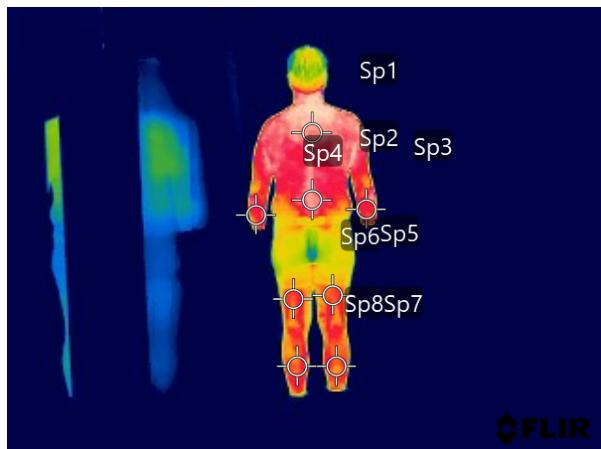
Note comparison

Subject "Tuomo" before treatment in CTN CryoCabin
Subject "Tuomo" after treatment in CTN CryoCabin

Tuomo
Tuomo

10.2.2022 10.42.53

35.0 °C



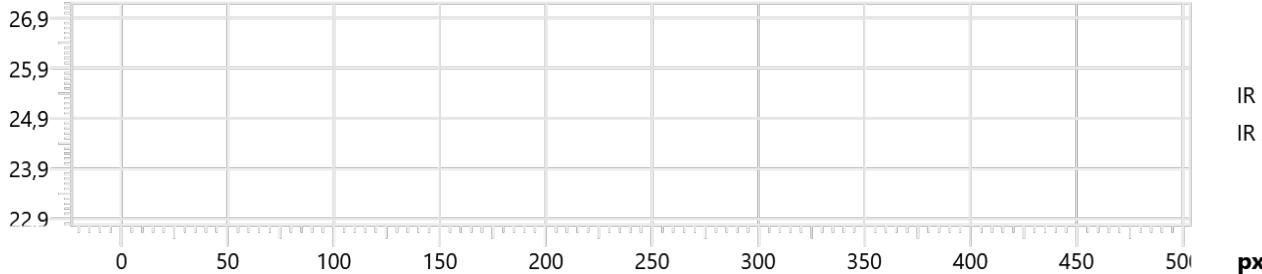
Tuomo_Cryomed_2.jpg

Measurements

Sp1	32.5 °C
Sp2	32.9 °C
Sp3	31.0 °C
Sp4	30.6 °C
Sp5	30.3 °C
Sp6	30.2 °C
Sp7	29.7 °C
Sp8	30.1 °C



°C

Profile

 IR 1 (Img1): Li1
 IR 2 (Img2): Li1

Measurements

Sp1	25.7 °C
Sp2	27.1 °C
Sp3	18.4 °C
Sp4	18.9 °C
Sp5	16.4 °C
Sp6	10.4 °C
Sp7	13.7 °C
Sp8	10.8 °C


Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Note comparison

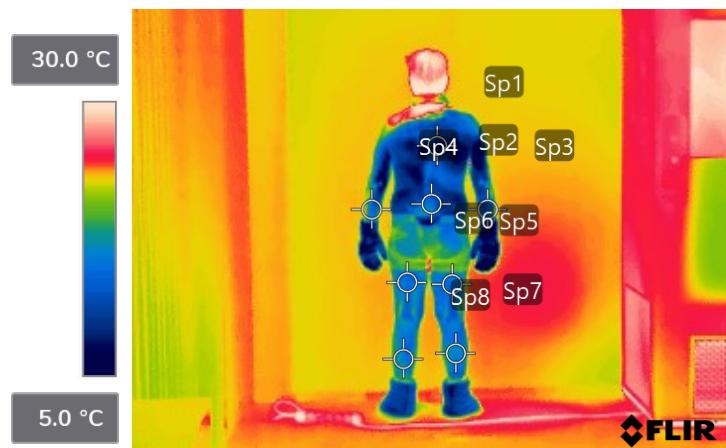
 Subject "Tuomo" before treatment in Cryomed Cryosauna
 Subject "Tuomo" after treatment in Cryomed Cryosauna

 Tuomo
 Tuomo

9.2.2022 10.54.12



9.2.2022 11.00.53



Measurements

Sp1	33.3 °C
Sp2	32.8 °C
Sp3	32.6 °C
Sp4	32.5 °C
Sp5	31.7 °C
Sp6	31.4 °C
Sp7	31.9 °C
Sp8	31.9 °C



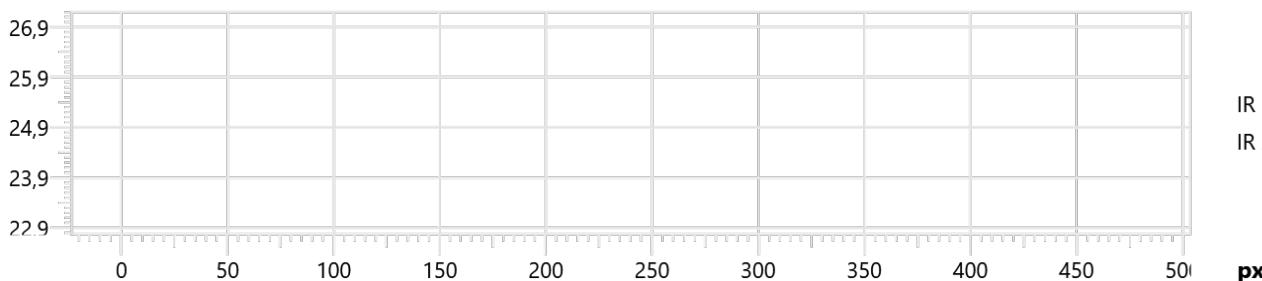
Measurements

Sp1	6.6 °C
Sp2	16.1 °C
Sp3	13.4 °C
Sp4	14.9 °C
Sp5	15.5 °C
Sp6	15.4 °C
Sp7	17.1 °C
Sp8	16.1 °C



°C

Profile



Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Camera information

Camera model	FLIR E54
Camera serial	84505191
Range max.	120.0 °C
Range min.	-20.0 °C
Field of view	23.50

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Parameters

Emissivity	0.98
Distance	6.00 m
Reflected temp.	20.0 °C
Atmospheric temp.	24.0 °C
Relative humidity	50.0%

Note comparison

Subject "Tuomo" before treatment in CTN eCabin
Subject "Tuomo" after treatment in CTN eCabin

Tuomo
Tuomo