



M.C.S.

Technische Daten V01



TECHNICAL DATA

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TECHNICAL DATA M.C.S.

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Sundern, June 26, 2026, Version 02

1. Cabin composition

1.1 Cabin TYPE ISO 80

Sandwich panels with 80 mm, sheet metal, galvanized and powder-coated.
Colour similar to RAL 9006.

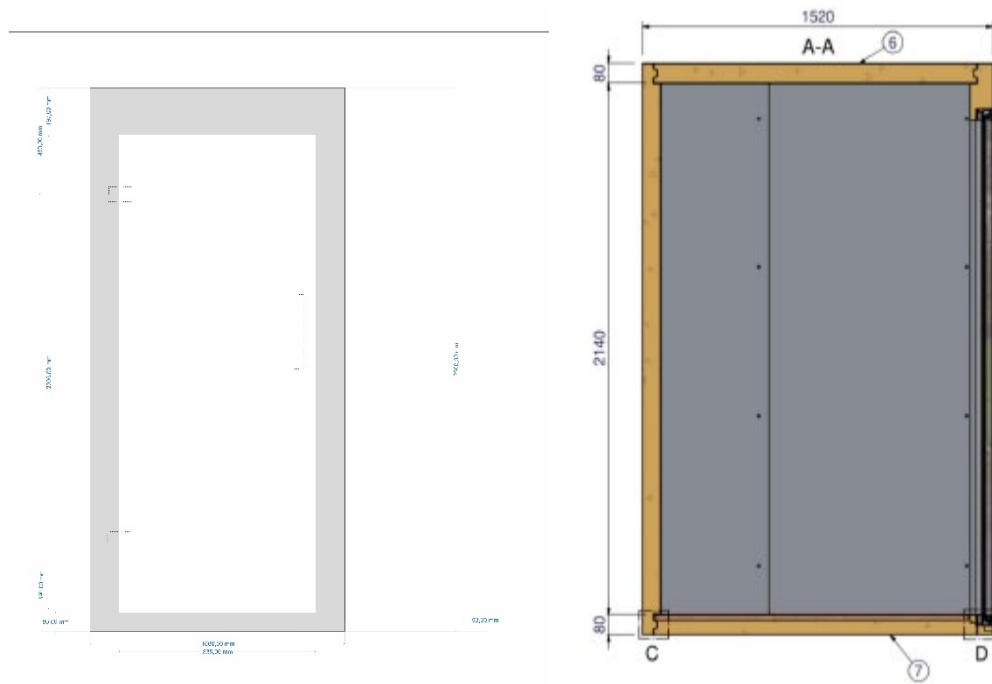
Floor made of 1.5 mm stainless steel, with slip resistance class 11.

Insulation: 80 mm rigid polyurethane foam; foamed free of CFCs/HCFCs

Surface: sheet metal, galvanized on the inside and outside, powder-coated;
colour GreenCoat® Anthracite Grey, RR2H8 / SS0087

Exterior dimensions: Width approx.: 1,200 mm; Depth approx.: 1,520 mm;
Height approx.: 2,520 mm

Gewicht: Weight: Weight of the fully assembled cabin approx. 460 kg.



1.2 Glass cabin door

Sandwich panels with 80 mm, sheet metal, galvanized and powder-coated.
Colour similar to RAL 9006.

Type: DIN right, optional DIN left
Insulating glass door with frame

Internal door dimensions approx.: 835 x 2005 mm (W x H)

- Internal wooden door handle
- External stainless steel door handle

1.3 Electrical control cabinet

In-house programmed electrical control, arranged in a Rittal compact control cabinet with embossed enclosure cams in the roof, base and side panels.

Type:	Rittal
Housing:	Steel sheet
Door:	Sheet steel, all-around foamed PU seal
Dimensions (W x H x D):	600 x 600 x 250 mm

1.4 Operating unit

Display:	Microsoft Surface Tablet
Software:	Microsoft Windows 11

Fastened directly to the M.C.S. as standard with a bracket.

The following functions can be operated via the tablet:

- Start one of nine pre-installed programs
- Future update with customised programs
- 12 x treatment goals, 1 demo vibration program
- Countdown timer
- Music control
- Deep tissue warmth on / off
- Aromatherapy on / off
- BAM on / off
- Distance control: feedback from the ultrasonic sensor measuring the distance to the ion generators
- Temperature monitoring: permanent temperature control via thermal sensor
- Optional: switchable privacy door

If a user is sensitive to odours or heat, for example, it is possible to switch off aroma and/or heat in a specific program.

2. Technical specifications and system elements

2.1 Connections

1. Voltage:

Operating voltage: 230 V / 50 - 60 Hz

Power: 2 Kw

A safe grounded power connection, socket, of 230 Volt / 16 A is required for operation. The socket should not be more than 1.0 metre from the installation location.

The M.C.S. should have its own circuit / own line and be connected directly to the socket without the use of multi-socket outlets or extension cables.

Input current: 8.5 A

Fuse protection: 10 A

Connection cable: 5 m with Schuko plug

Sound pressure level: N/A

Heat: N/A

2. Netzwerk / Internet:

- WIFI connection / LAN connection should be provided for device updates and remote maintenance.

2.2 Ionisation / Quality Charged Air (QCA)

The cabin has three unique patented ion sources. The highly concentrated ionisation is directed into the cabin interior by 3 axial fans. This means that, during the application, up to 15.6 million / cm³ can reach the user's face.

- Three unique negative air ion generators, also known as air vitamins, with up to 15.6 million / cm³

2.3 Innovative air-volume exchange system

The air-volume exchange system installed on the cabin cover enables very rapid air exchange, providing fresh air during the application. A rapid temperature drop in the cabin can be generated in a targeted way. In the optionally implementable aroma module, multiple aroma additions through the ion channel into the cabin are also possible.

The rapid extraction system prevents the aromas from mixing.

- Reduces perspiration and moisture accumulation while also supporting a temperature drop on the skin surface
- Enables air exchange and therefore fresh air for every customer
- Enables air exchange and the use of several aromas within one application

2.4 Long-wave infrared heat / Deep Tissue Warmth (DTW)

9 independently operating far-infrared heating panels provide targeted warming of the lower legs, thighs, buttocks and abdominal region during the application. The operating temperature ranges from +30°C to +55°C. For user safety, the heating elements are equipped with touch protection by means of wood panelling.

- Covered with wood panelling.

2.5 LED lights / Light Cocktails (LC)

The LED strips installed in the cabin are special high-performance LEDs with specific colour-light wavelengths.

Specifications:

24 Volt high-performance LED strips. Up to 28.8 W/m.

2 different red colour spectra: Power Red and Collagen Red

2 different green colour spectra: Calming Green and Vital Green

2 different blue colour spectra: Calming Blue and Vital Blue

2.6 Sound system / Sound Stimulation Module (SSM)

The system is equipped with a stereo sound system as standard. A premium stereo sound system can be implemented optionally.

- Neurobeats via standard stereo sound system

2.7 Service router with interface for remote monitoring

- Developed and manufactured in Germany

Network:

VPN:	OpenVPN server, OpenVPN client
WAN/LAN:	2 x RJ 45 10/100 Mbit/s, full and half duplex
WLAN:	802.11 b/g/n, access point, WAN client

3. Choosable components

- Aromatherapy module (FIS)
- Boost & Activation Module (BAM)

3.1 Aromatherapy module

To make the application a true experience for the senses, a high-quality aromatherapy module with three different scents can be implemented.

The following aromas are part of the aroma module:

Scent 1: Cherry Blossom -> can strengthen the immune system

Scent 2: New Forest -> increases motivation / reduces stress

Scent 3: Ice Mint -> positive effect on the respiratory tract)

Up to three different aromas are offered in one program during the application.

High-quality aromatherapy via a Fragrance Injection System (FIS) - no oil, no dilution.

Supports three different scents.

Intake/discharge connections:	1" R-AG
Cooling water volume flow:	3.5 m³/h
Water intake min./max.:	5/20 °C
Water pressure min./max.:	1.5/5 bar

Option: connection with city water, cold water set or glycol system, on request.

3.2 Vibration unit

- Vibration frequencies: 12 Hz, 15 Hz, 18 Hz, 21 Hz
- Developed and manufactured in Germany

4. Treatment procedure

After the program has been selected, the application starts automatically after 10 seconds.

Before entering the cabin, the specially designed protective glasses must be put on. The user walks all the way to the rear wall. The control unit indicates whether the user is positioned optimally. Optimal placement is achieved when the user maintains a distance of 200 to 300 mm from the ion channel.

During the 8-minute application, depending on the program selection, the system changes colour, heating mode, thermal setting and ion concentration up to 6 times.

The best treatment results are achieved when users enjoy the treatment procedure in underwear or swimwear.

After the program has ended, the system returns to its basic setting.

Depending on the program selection, the implemented vibration unit can also be used.

5. Precautions

1. Always wear the special glasses supplied with the MCS during the application.

 **Attention: Normal sunglasses do NOT protect the user's eyes.**

2. Always wear shoes in the MCS.
3. Do not touch the metal surfaces in the cabin!

Do not use the MCS if you:

- are under age
- are intoxicated or under the influence of drugs
- cannot tolerate high temperatures, or switch the heating off
- are sensitive to odours, or switch the aromatherapy off
- are sensitive to intense light

6. Set-up requirements / building requirements

- To ensure the intended use of the M.C.S., the following building / room requirements are prerequisites:
- An even, load-bearing floor must be provided on site.
- Weight of the fully assembled cabin approx. 460 kg.

- A safe grounded power connection, socket, of 230 Volt / 16 A is required for operation. The socket should not be more than 1.0 metre from the installation location.
- The M.C.S. shall be connected directly to the socket without the use of multi-socket outlets or extension cables.
- For later operation of the cabin, a free area in front of the cabin of 1.00 x 1.20 metres is required, door opening.
- For setting up the cabin, 1.50 metres of free space is required in front of the cabin and 0.5 metres of free space on both the left and right of the cabin, 3.00 x 2.20 metres.
- The room height must be at least 2.52 metres. The room height with the control cabinet above must be at least 2.60 metres.

6.1 Connections

1. Current:

Back-up fuse max.:	10 A
Operating voltage:	230 V 50 Hz
Electrical system type:	TN network / TNC network

2. Network / Internet:

The service router sets up an outbound TCP connection to the address support.lr-kaelte.de, 78.94.142.172.

In order to establish a secure connection to the server, the following requirements must be met.

6.2 Installation and ambient requirements

Temperature range in the treatment room: 15 - 30 °C

- Installation on a level floor with flowing screed or tiles, max. 2 cm tolerance over a total length of 6 m
- For later operation of the cabin, a free area in front of the cabin of 1.00 x 1.20 metres is required, door opening
- During installation, 1.50 metres of free space in front of the cabin and 0.5 metres of free space to the left and right of the cabin are required, 3.00 x 2.20 metres
- The minimum room height must be 2.52 metres
- The room height with the control cabinet installed on top of the cabin must be at least 2.60 metres

6.3 Set-up

- Unloading and bringing in of the components
- Container or similar for disposal of the packaging material
- Free transport routes for bringing in
- Fire safety measures

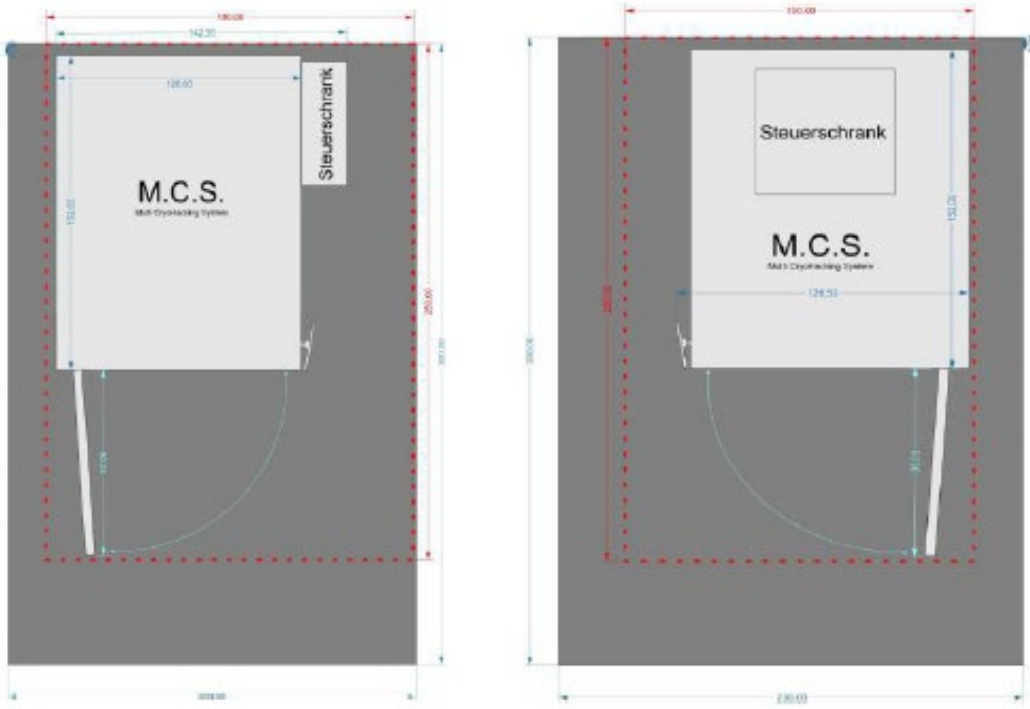
7. General provisions

- Technical changes: Our systems, machines and their components correspond to the state of the art. We reserve the right to make technical changes that do not affect the performance and functions of the device.
- Design and documentation of the machine in accordance with L&R standard and CE certification

8. Pictures



9. Drawings



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by L&R Kältetechnik GmbH & Co. KG

Hachener Str. 90a-c

59846 Sundern | Germany

Tel.: +49 2935 9652 0 | Fax: +49 2935 9652 501

www.artofcryo.com