

Space requirements

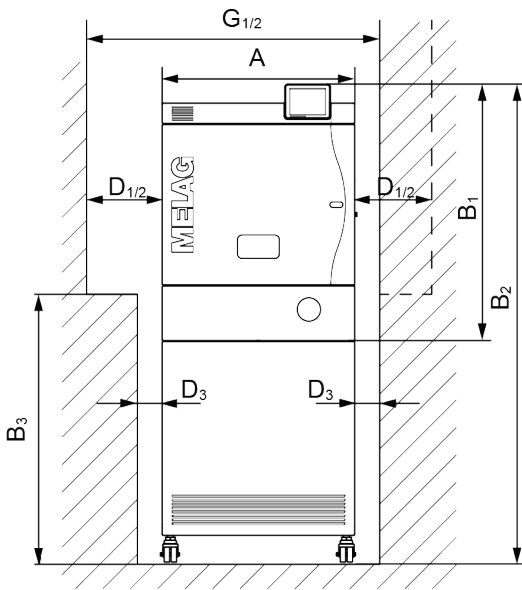


Fig. 1: Fore view, door hinge left

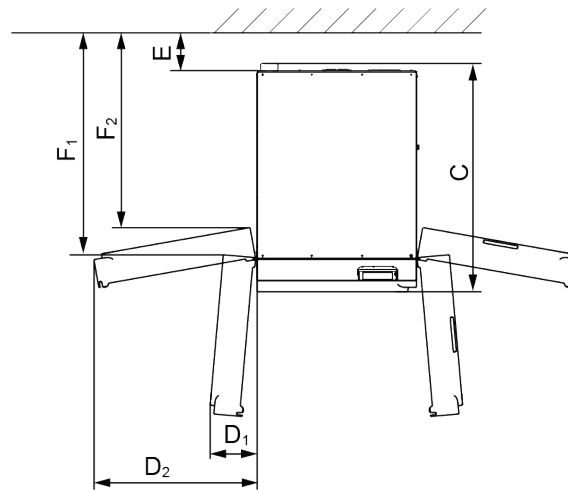


Fig. 2: Upper view, door hinge left (D1, D2) and door hinge right

Table 1: Space requirements – Cliniclave 45

| Dimensions   |                | Cliniclave 45                                   |
|--|----------------|---|
| Width  | A              | 65 cm   |
| Height   | B <sub>1</sub> | 85 cm + 6,5-7 cm max. height of the device feet |
| Height with floor unit   | B <sub>2</sub> | 160 cm  |
| Free area below the swivel range of the door                                 | B <sub>3</sub> | 85 cm   |
| Depth  | C              | 91 cm   |
| Minimum clearance to the door hinge side*                                    | D <sub>1</sub> | 25 cm (with a minimum opening angle of 95°)     |
|  | D <sub>2</sub> | 75 cm (with a maximum opening angle of 170°)    |
| Minimum clearance to the side wall of the floor unit                         | D <sub>3</sub> | 8 cm  |
| Minimum clearance to rear  | E              | 15 cm   |
| Free area (corresponds to the free room with a fully-opened floor unit door) | F <sub>1</sub> | 80 cm (with a minimum opening angle of 95°)     |
|  | F <sub>2</sub> | 70 cm (with a maximum opening angle of 170°)    |
| Total required niche width   | G <sub>1</sub> | min. 98 cm (with an opening angle of 95°)       |
|  | G <sub>2</sub> | min. 148 cm (with an opening angle of 170°)     |
| Clear width from the practice entrance to the installation location          |                | min. 70 cm                                      |

\*) For devices with door hinge right maintain the distances mirror-inverted (dotted line)

A free area of 60 cm must be given each side of the autoclave/must be achievable by moving the autoclave to facilitate maintenance.

**Additional space requirement for the reverse osmosis unit (only Cliniclave 45)**

For devices without a floor unit, a corresponding amount of space must be left for the reverse osmosis unit. It can be attached to a wall under the table if necessary.

It is necessary to guarantee free access of the autoclave hoses and cables to the reverse osmosis unit.

| Reverse osmosis unit             | Width | Height | Depth |
|----------------------------------|-------|--------|-------|
| MELAdem 56                       | 52 cm | 50 cm  | 20 cm |
| Pressure tank for the MELAdem 56 | 35 cm | 35 cm  | 50 cm |

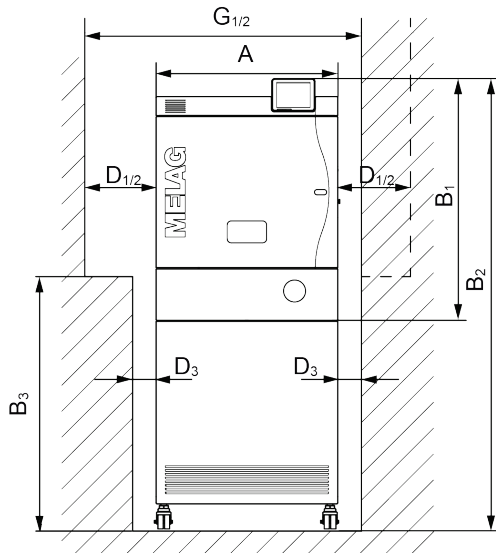


Fig. 2: Fore view, door hinge left

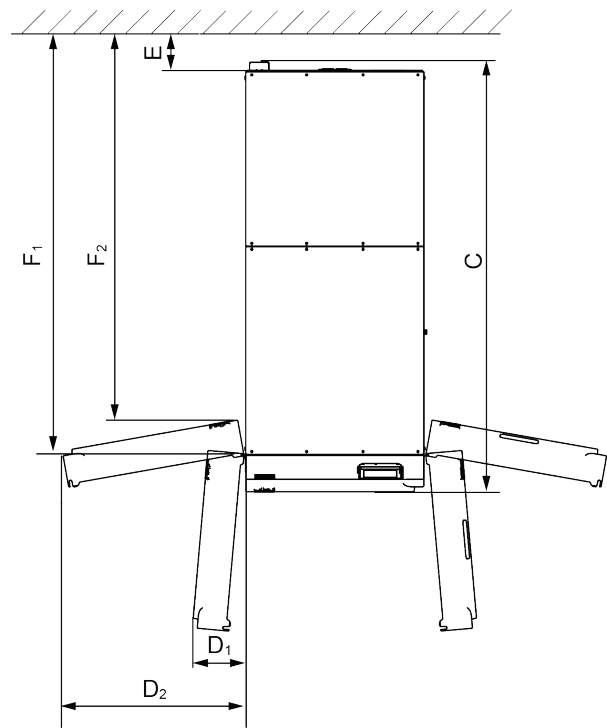


Fig. 2: Upper view, door hinge left (D1, D2) and door hinge right

Table 2: Space requirements – Cliniclave 45 M

| Dimensions   | Cliniclave 45 M |   |
|--|-----------------|---|
| Width  | A               | 65 cm   |
| Height   | B <sub>1</sub>  | 85 cm   |
| Height with floor unit   | B <sub>2</sub>  | 160 cm  |
| Free area below the swivel range of the door                                 | B <sub>3</sub>  | 85 cm   |
| Depth  | C               | 153 cm  |
| Minimum clearance to the door hinge side*                                    | D <sub>1</sub>  | 25 cm (with a minimum opening angle of 95°)   |
|  | D <sub>2</sub>  | 75 cm (with a maximum opening angle of 170°)  |
| Minimum clearance to the side wall of the floor unit                         | D <sub>3</sub>  | 8 cm  |
| Minimum clearance to rear  | E               | 15 cm   |
| Free area (corresponds to the free room with a fully-opened floor unit door) | F <sub>1</sub>  | 145 cm (with a minimum opening angle of 95°)  |
|  | F <sub>2</sub>  | 135 cm (with a maximum opening angle of 170°)   |
| Total required niche width   | G <sub>1</sub>  | min. 98 cm (with an opening angle of 90°)   |
|  | G <sub>2</sub>  | min. 148 cm (with an opening angle of 170°)   |
| Clear width from the practice entrance to the installation location          |                 | min. 70 cm  |
| Required corridor width  |                 | When turning a 90° corner the sum of the door width and corridor width amounts to at least 2.30 m |

\*) For devices with door hinge right maintain the distances mirror-inverted (dotted line)

A free area of 60 cm must be given each side of the autoclave/must be achievable by moving the autoclave to facilitate maintenance.

### Installation location

| Property                                 | Cliniclave 45  | Cliniclave 45 M               |
|--|--|-------------------------------|
| Floor space required                     | level and horizontal   |                               |
| Floor loading during normal operation    | 240/320 <sup>1)</sup> kg<br>60/80 <sup>1)</sup> kg per caster                        | 460 kg<br>115 kg per caster   |
| Floor loading during water pressure test | 320/400 <sup>1)</sup> kg<br>80 kg/100 kg per caster                                  | 610 kg<br>152.5 kg per caster |
| Heat emission                            | up to 1.4 kW   | up to 2 kW (when door open)   |
| Ambient temperature                      | 5-40°C (ideal range 16-26°)<br>sufficient ventilation of the room must be guaranteed |                               |
| Air humidity in %                        | 30-60%   |                               |
| Illumination                             | in accordance with DIN EN ISO 12100 and DIN EN 1837                                  |                               |

<sup>1)</sup> with floor unit

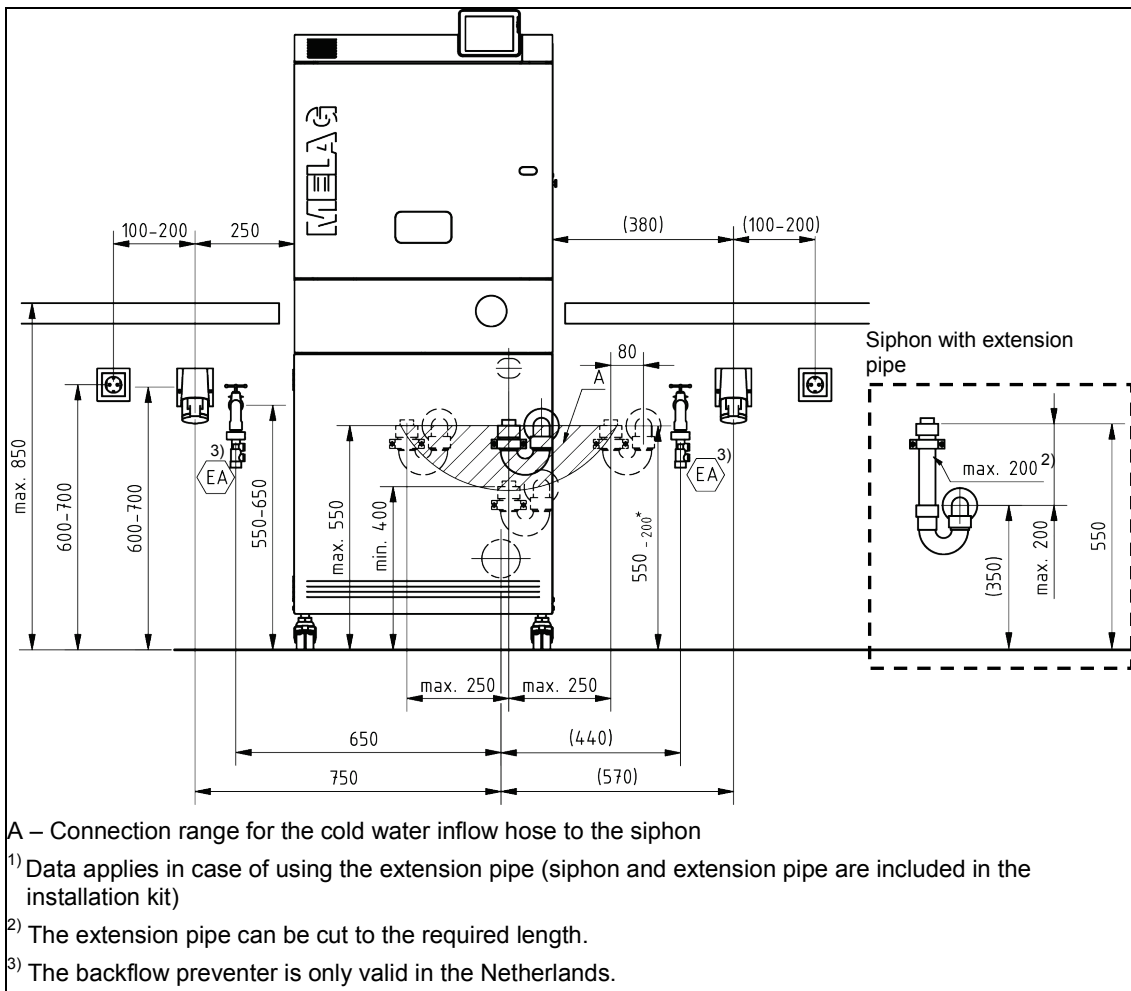


Fig. 3: Installation requirements (dimensions in mm)

## On-site installation requirements

### Mains supply



#### DANGER!

**Incorrectly performed electrical connections can result in a short-circuit, fire, water damage and/or an electric shock. This could result in serious injury.**

- The connections for electrical provision and water supply and discharge must be set-up by trained personnel.
- Observe the information regarding the installation and commissioning provided in the technical manual.

Observe the following safety measures when dealing with the cable and mains plug:

- ▶ Never splice or change the power cable.
- ▶ Never bend or twist the power cable.
- ▶ Never remove the plug by pulling on the power cable. Always take a grip on the plug.
- ▶ Never place any heavy objects on the power cable.
- ▶ Never run the cable over areas in which it could become trapped (e.g. doors or windows).
- ▶ Never lead the cable along a source of heat.
- ▶ Never use any nails, paper fasteners or similar objects to fix the cable.
- ▶ Should the cable or plug become damaged, switch off the autoclave. The power cable and plug should only be replaced by authorized personnel.
- ▶ Failure to observe these provisions can result in damage to the cable or plug and/or a fire or an electric shock. This could result in serious injury.

**Table 3: On-site installation requirements for electrical connection**

| On-site installation requirements | Cliniclave 45   | Cliniclave 45 M   |
|-----------------------------------|---|---|
| <b>On-site requirements</b>       | Electrical equipment must accord with DIN VDE 0100.<br>A main switch (all-pole) should be fitted outside the installation room. This must be marked as the device and easily accessible for the operator. The feed line to the electrical connection must be laid separately from the distribution to the device. Observe the clockwise rotating field! |   |
| <b>Electrical connection</b>      | CEE socket with 380-415 V 16 A, separate electricity circuit with 3x 16 A fuse (to ensure continued practice operation following an autoclave malfunction), an additional RCD switch with 30 mA, 3N AC 380-415 V, 50/60 Hz, 3x16A<br><b>Observe the clockwise rotating field!</b>   | CEE socket with 380-415 V 32 A, separate electricity circuit with 3x 32 A fuse (to ensure continued practice operation following an autoclave malfunction), an additional RCD switch with 30 mA, 3N AC 380-415 V, 50/60 Hz, 3x32A<br><b>Observe the clockwise rotating field!</b> |
| <b>Electrical power</b>           | max. 10.5 kW  | max. 13.5 kW  |
| <b>Length of power cable</b>      | 2.3 m (1.6 m when using a floor unit)   | 1.8 m from the floor unit   |
| <b>Leak detector water stop)</b>  | additional 230 V, 50 Hz socket  |   |

## Water connection

Table 4: Requirements for water connection – Cliniclave 45

| Cliniclave 45                          | Cold water   | Feed water   | Waste water   |
|--|--|--|---|
| <b>Length of water hoses</b>           | 2.20 m<br>(1.30 m from floor unit)   | n/A  | 1.50 m<br>(1 m from floor unit)                           |
| <b>Connection in practice</b>          | to the cold water cut-off valve (water inflow tap) G 3/4"  | to a reverse-osmosis unit, e.g. MELA <i>dem</i> 56   | to the surface-mounted siphon in the installation package |
| <b>Installation height</b>             | 55-65 cm   | n/A  | max. 55 cm<br>(upper edge of the siphon)                  |
| <b>Min. flow pressure</b>              | 1.5 bars at 8 l/min.   | 0.5 bars at 5 l/min.   | n/A   |
| <b>Recommended flow pressure</b>       | 2.5-6 bars at 8 l/min.   | 2-4 bars at 5l/min.  |   |
| <b>Maximum water pressure (static)</b> | 10 bars  | 5 bars   | n/A   |
| <b>Additional requirements</b>         | no additional back flow preventer required (internally secured against return flow into the potable water network by the air gap according to EN 1717, fluid category 5) | <b>with MELA<i>dem</i> 56</b><br>no additional back flow preventer required (internally secured against return flow into the potable water network by the air gap according to EN 1717, fluid category 5)<br><br><b>Other water treatment units</b><br>additional protection required in accordance with DIN EN 1717, fluid category 5 |   |
| <b>Water quality</b>                   | potable water, max. water hardness 4-12° dH in accordance with DIN EN 285 <sup>1)</sup>  | in accordance with DIN EN 285, appendix B table B.1, max. 5 µS/cm  |   |
| <b>Leak monitor</b>                    | We recommend the installation of a leak detector with a cut-off valve (e. g. MELAG water stop)   |  |   |

<sup>1)</sup> Higher levels of hardness necessitates the installation of a water-softening unit.

Table 5: Requirements for water connection – Cliniclave 45 M

| Cliniclave 45 M                        | Cold water   | Feed water   | Waste water   |
|--|--|--|---|
| <b>Length of water hoses</b>           | 1.30 m from the floor unit   | n/A  | 1 m from the floor unit                                   |
| <b>Connection in practice</b>          | to the cold water cut-off valve (water inflow tap) G 3/4"  | to a reverse osmosis unit, e.g. MELAdem 56 M   | to the surface-mounted siphon in the installation package |
| <b>Installation height</b>             | 55-65 cm   | n/A  | max. 55 cm (upper edge of the siphon)                     |
| <b>min. flow pressure</b>              | 1.5 bars at 8 l/min.   | 0.5 bars at 5 l/min.   | n/A   |
| <b>Recommended flow pressure</b>       | 2.5-6 bars at 8 l/min.   | 2-4 bars at 5l/min.  |   |
| <b>Maximum water pressure (static)</b> | 10 bars  | 5 bars   | n/A   |
| <b>Additional requirements</b>         | no additional back flow preventer required (internally secured against return flow into the potable water network by the air gap according to EN 1717, fluid category 5) | <p><b>with MELAdem 56 M</b></p> <p>no additional back flow preventer required (internally secured against return flow into the potable water network by the air gap according to EN 1717, fluid category 5)</p> <p><b>Other water treatment units</b></p> <p>additional protection required in accordance with DIN EN 1717, fluid category 5</p> |   |
| <b>Water quality</b>                   | potable water, max. water hardness 4-12° dH in accordance with DIN EN 285 <sup>1)</sup>  | in accordance with DIN EN 285, appendix B table B.1, max. 5 µS/cm  |   |
| <b>Leak monitor</b>                    | We recommend the installation of a leak detector with a cut-off valve (e. g. MELAG water stop)   |  |   |

<sup>1)</sup> Higher levels of hardness necessitates the installation of a water-softening unit.



#### PLEASE NOTE

The waste water hose must be fitted at a constant incline without sagging. Deviations in the installation arrangements require consultation with MELAG. Failure to do so can result in autoclave malfunctions.