Space requirements

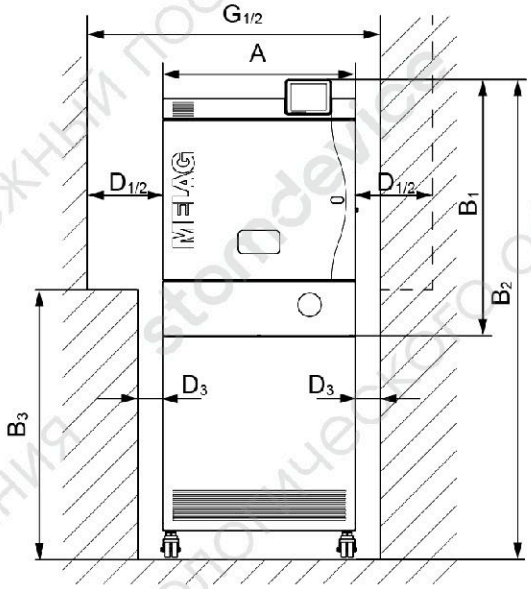


Fig. 1: Fore view, door hinge left

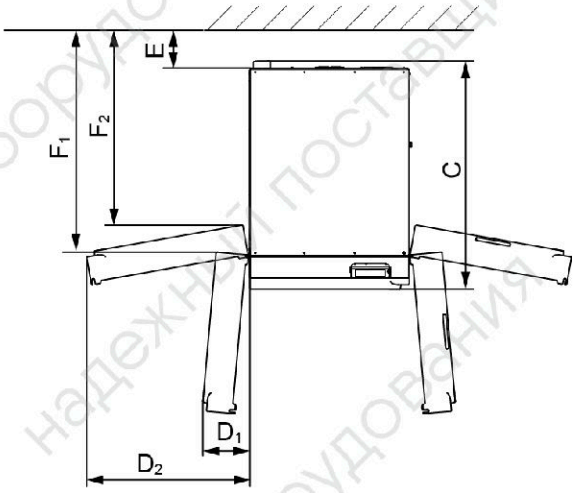


Fig. 2: Upper view, door hinge left (D1, D2) and door hinge right

Table 1: Space requirements – Cliniclave 45

Dimensions		Cliniclave 45
Width	A	65 cm
Height	B_1	85 cm + 6,5-7 cm max. height of the device feet
Height with floor unit	B_2	160 cm
Free area below the swivel range of the door	B_3	85 cm
Depth	C	91 cm
Minimum clearance to the door hinge side*	D_1	25 cm (with a minimum opening angle of 95°)
	D_2	75 cm (with a maximum opening angle of 170°)
Minimum clearance to the side wall of the floor unit	D_3	8 cm
Minimum clearance to rear	E	15 cm
Free area (corresponds to the free room with a fully-opened floor unit door)	F_1	80 cm (with a minimum opening angle of 95°)
	F_2	70 cm (with a maximum opening angle of 170°)
Total required niche width	G_1	min. 98 cm (with an opening angle of 95°)
	G_2	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
MELA*dem* 56	52 cm	50 cm	20 cm
Pressure tank for the MELA*dem* 56	35 cm	35 cm	50 cm

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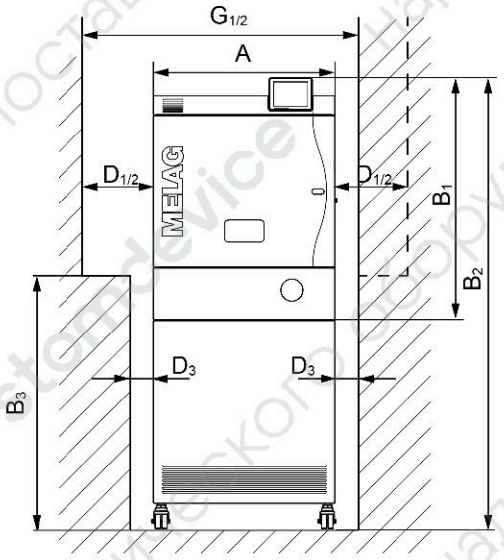


Fig. 2: Fore view, door hinge left

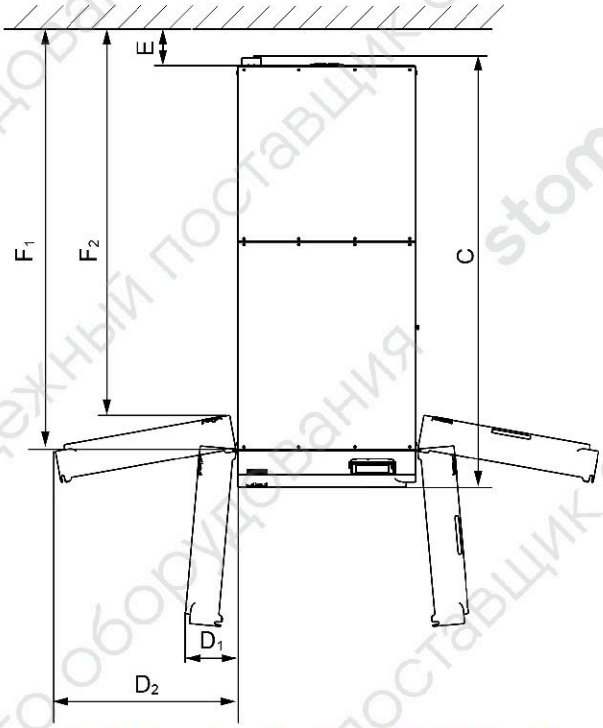


Fig. 2: Upper view, door hinge left (D1, D2) and door hinge right

Table 2: Space requirements – Cliniclave 45 M

Dimensions		Cliniclave 45 M
Width	A	65 cm
Height	B_1	85 cm
Height with floor unit	B_2	160 cm
Free area below the swivel range of the door	B_3	85 cm
Depth	C	153 cm
Minimum clearance to the door hinge side*	D_1	25 cm (with a minimum opening angle of 95°)
	D_2	75 cm (with a maximum opening angle of 170°)
Minimum clearance to the side wall of the floor unit	D_3	8 cm
Minimum clearance to rear	E	15 cm
Free area (corresponds to the free room with a fully-opened floor unit door)	F_1	145 cm (with a minimum opening angle of 95°)
	F_2	135 cm (with a maximum opening angle of 170°)
Total required niche width	G_1	min. 98 cm (with an opening angle of 90°)
	G_2	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)

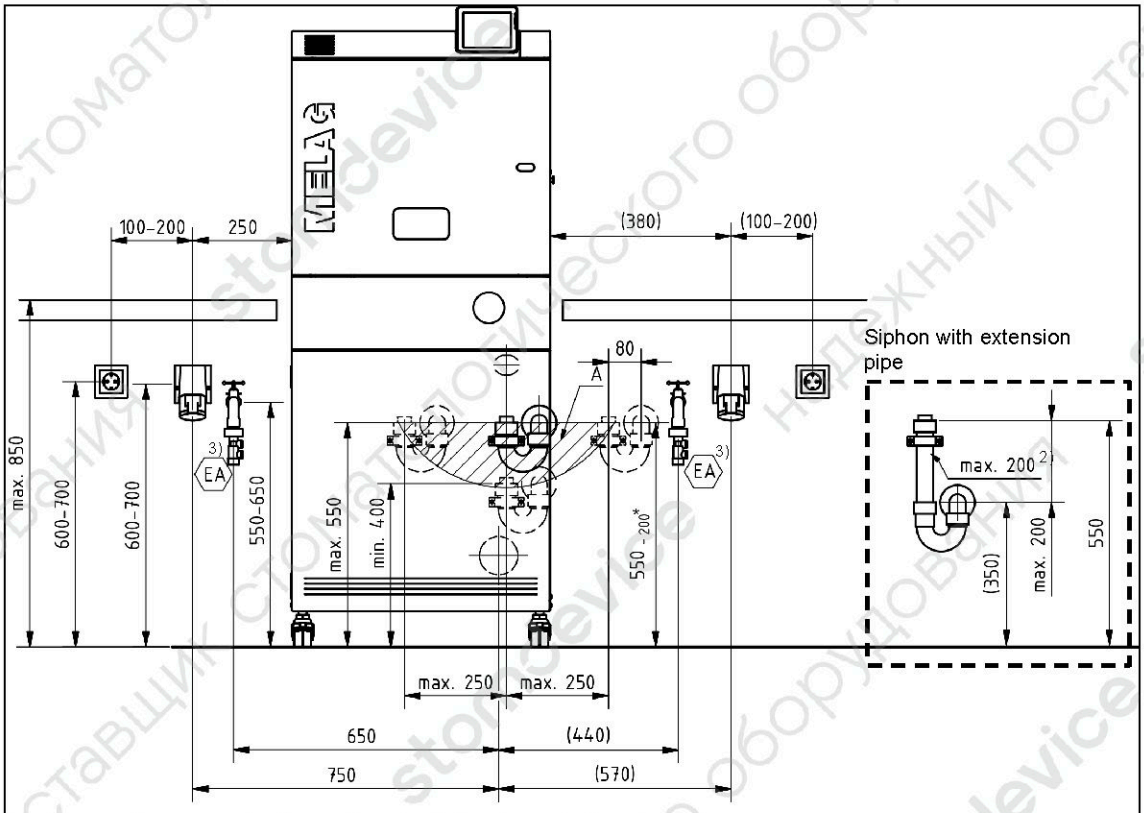
A free area of 60 cm must be given each side of the autoclave/must be achievable by moving the autoclave to facilitate maintenance.

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Installation location

Property	Cliniclave 45	Cliniclave 45 M
Floor space required	level and horizontal	
Floor loading during normal operation	240/320*) kg 60/80*) kg per caster	460 kg 115 kg per caster
Floor loading during water pressure test	320/400*) kg 80 kg/100 kg per caster	610 kg 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°) 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	

*) with floor unit



A – Connection range for the cold water inflow hose to the siphon

1) Data applies in case of using the extension pipe (siphon and extension pipe are included in the installation kit)

2) The extension pipe can be cut to the required length.

3) The backflow preventer is only valid in the Netherlands.

Fig. 3: Installation requirements (dimensions in mm)

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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
On-site requirements	Electrical equipment must accord with DIN VDE 0100. 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!	
Electrical connection	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 **Observe the clockwise rotating field!**	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 **Observe the clockwise rotating field!**
Electrical power	max. 10.5 kW	max. 13.5 kW
Length of power cable	2.3 m (1.6 m when using a floor unit)	1.8 m from the floor unit
Leak detector water stop)	additional 230 V, 50 Hz socket	

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Water connection

Table 4: Requirements for water connection – Cliniclave 45

Cliniclave 45	Cold water	Feed water	Waste water
Length of water hoses	2.20 m (1.30 m from floor unit)	n/A	1.50 m (1 m from floor unit)
Connection in practice	to the cold water cut-off valve (water inflow tap) G 3/4“	to a reverse-osmosis unit, e g. MELA*dem* 56	to the surface-mounted siphon in the installation package
Installation height	55-65 cm	n/A	max. 55 cm (upper edge of the siphon)
Min. flow pressure	1.5 bars at 8 l/min.	0.5 bars at 5 l/min.	n/A
Recommended flow pressure	2.5-6 bars at 8 l/min.	2-4 bars at 5l/min.	
Maximum water pressure (static)	10 bars	5 bars	n/A
Additional requirements	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)	**with MELA*dem* 56** 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) **Other water treatment units** additional protection required in accordance with DIN EN 1717, fluid category 5	
Water quality	potable water, max. water hardness 4-12° dH in accordance with DIN EN 285[1)]	in accordance with DIN EN 285, appendix B table B.1, max. 5 µS/cm	
Leak monitor	We recommend the installation of a leak detector with a cut-off valve (e. g. MELAG water stop)		

[1)] Higher levels of hardness necessitates the installation of a water-softening unit.

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Table 5: Requirements for water connection – Cliniclave 45 M

Cliniclave 45 M	Cold water	Feed water	Waste water
Length of water hoses	1.30 m from the floor unit	n/A	1 m from the floor unit
Connection in practice	to the cold water cut-off valve (water inflow tap) G 3/4“	to a reverse osmosis unit, e g. MELA*dem* 56 M	to the surface-mounted siphon in the installation package
Installation height	55-65 cm	n/A	max. 55 cm (upper edge of the siphon)
min. flow pressure	1.5 bars at 8 l/min.	0.5 bars at 5 l/min.	n/A
Recommended flow pressure	2.5-6 bars at 8 l/min.	2-4 bars at 5l/min.	
Maximum water pressure (static)	10 bars	5 bars	n/A
Additional requirements	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)	**with MELA*dem* 56 M** 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) **Other water treatment units** additional protection required in accordance with DIN EN 1717, fluid category 5	
Water quality	potable water, max. water hardness 4-12° dH in accordance with DIN EN 285[1)]	in accordance with DIN EN 285, appendix B table B.1, max. 5 µS/cm	
Leak monitor	We recommend the installation of a leak detector with a cut-off valve (e. g. MELAG water stop)		

[1)] 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.

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