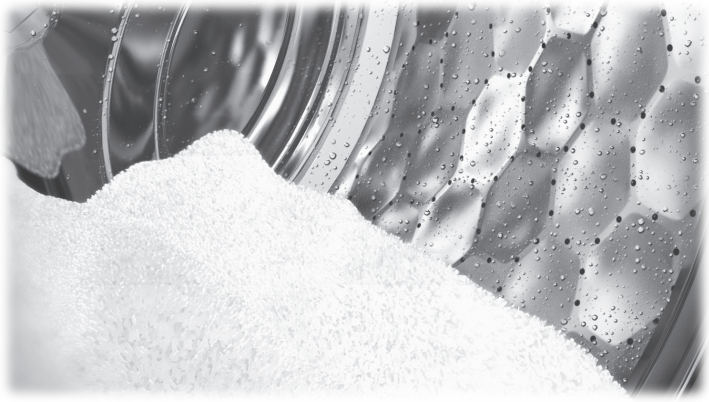
Miele



Installation plan
Commercial Washing Machine
PWM 511

To avoid the risk of accidents or damage to the appliance, it is **essential** to read these instructions before it is installed and used for the first time.

AU, NZ

M.-Nr. 12 352 340

Contents

Explanation of the safety instructions and warnings on the machine

	Read the operating instructions
	Read the instructions e.g. installation instructions
	Warning: hot surfaces
	Caution: voltage up to 1000 volts
	Earthing
	Equipotential bonding

Installation requirements

The washing machine must be installed and commissioned by a Miele Service technician or by an authorised service technician.

▶ The washing machine must be installed in accordance with applicable regulations and standards. Local energy and water supplier regulations must also be observed.

▶ This washing machine must only be operated in a room that has sufficient ventilation and which is frost-free.

This machine should not be installed or operated in any area where there is a risk of explosion.

General operating conditions

This washing machine is intended only for use in a commercial environment and must only be operated indoors.

- Ambient temperature: 0-40 °C
- Relative humidity: non-condensing
- Maximum height above sea level of installation site: 2000 m

Depending on the nature of the installation site, sound emissions and vibration may occur.

Useful tip: Have the installation site inspected and seek the advice of a professional in instances where increased noise may cause a nuisance.

Transportation and site access

The machine must not be moved without the transit bars in place. Keep the transit bars in a safe place. They must be refitted if the machine is to be moved again (e.g. when relocating the machine).

Installation

Transport the washing machine to its installation site using a suitable pallet truck and remove the transport packaging.

The washing machine must be set up on a completely level, horizontal and firm surface with the minimum stated load bearing capacity (see "Technical data").

Useful tip: A concrete floor is the most suitable installation surface. It is far less prone to vibration during the spin cycle than wooden floorboards or a carpeted surface.

The floor load created by the washing machine is concentrated and transferred to the installation footprint via the surface load in the area of the contact patch.

The washing machine requires a gap of at least 50 mm on each side to allow for movement during operation. Please ensure a minimum distance of 400 mm is maintained between the rear of the appliance and the rear wall.

The washing machine must not be installed on a carpeted floor.

The feet of the washing machine must be secured to the 4 fastening points on the floor using the fittings supplied.

The fastening material provided is intended for use in bolting the machine to a concrete floor. If other floor types are present at the installation site, the fastening material must be ordered by the customer.

Installation on concrete plinth

The washing machine can be installed on a concrete plinth if desired.

The concrete materials and the durability of the concrete plinth must be assessed in accordance with the floor load bearing capacity given in “Technical data”.

- To guarantee the stability of the washing machine, make sure that the concrete plinth is sufficiently stable on the floor and that it is capable of withstanding any burden or force from the washing machine.
- The washing machine must be secured to the concrete plinth using the fixtures and fastenings supplied.

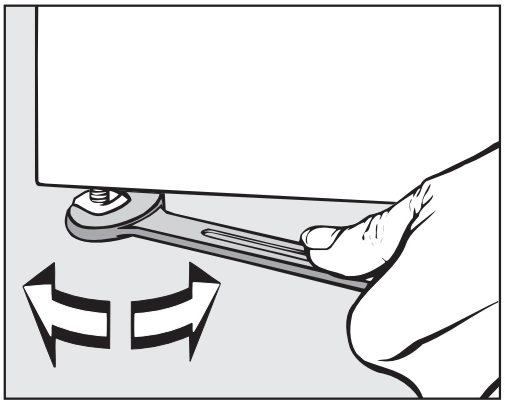
⚠ The washing machine must be secured to the plinth immediately after installation!
There is a risk of the washing machine falling off a raised plinth during a spin cycle if it is not secured.

Levelling the machine

- Align the washing machine vertically and horizontally using the adjustable feet and a spirit level.

The washing machine must stand evenly and horizontally on all four feet to ensure trouble-free and energy-efficient operation. Otherwise the water and energy consumption increases and the washing machine might move around.

- After aligning the machine, tighten the counter nuts by turning them in an anti-clockwise direction with a spanner. This will prevent the feet from adjusting themselves.



Electrical connection

The electrical connection must be carried out by a qualified electrician who must ensure that all electrical work is carried out in accordance with applicable electrical regulations and standards.

▶ This washing machine must be connected to an electrical mains supply that complies with local and national regulations. Please also observe your insurance and energy supplier's regulations as well as any workplace health and safety regulations.

▶ The required voltage, rated load and fusing rating can be found on the data plate on the washing machine. Before connecting the machine to the electricity supply, please ensure that the mains supply voltage complies with the values given on the data plate.

Connection to a supply voltage other than the one quoted on the data plate can lead to functional faults and damage to the washing machine.

If more than one voltage is quoted on the data plate, the washing machine can be converted for connection to the voltages stated.

▶ Conversion to a different voltage must only be carried out by a Miele Professional Service technician or by an authorised service technician. The wiring instructions given on the wiring diagram must be followed.
The machine is intended for hard-wiring, but can be connected using a plug and socket.

For hard-wired machines, connection should be made via a suitable mains switch with all-pole isolation which, when in the off position, ensures a 3 mm gap between all open contacts. These include circuit breakers, fuses and relays.

If the mains supply cannot be permanently disconnected, the isolator switch (including plug and socket) must be safeguarded against being switched on either unintentionally or without authorisation.

An electrical safety test must be carried out after installation and after any service work.

▶ If it is necessary to install a residual current device (RCD) in accordance with local regulations, a residual current device type B (sensitive to universal current) must be used.

An existing type A residual current device (RCD) must be exchanged for a type B RCD.

▶ If local and national installation specifications require equipotential bonding, good galvanic contact must be guaranteed. Equipotential bonding must have a ground current rating >10 mA.

Water connection

This washing machine has been supplied separately with a non-return valve (dual check valve). The non-return valve to prevent back siphoning must be fitted between the tap and water inlet hose or tap and Y-piece if connecting 2 hoses to the same tap. The non-return valve prevents water from the water inlet hose from flowing back into the on-site drinking water supply.

The flow pressure must amount to a minimum of 100 kPa and must not exceed 1000 kPa. If the flow pressure is higher than 1000 kPa, a pressure reducing valve must be used.

The machine must be connected to the water supply using the inlet hoses provided.

⚠ The connection points are subject to water supply pressure. Turn on the tap slowly and check for leaks. Correct the position of the seal and union if necessary.

Cold water connection

For the cold water connection, one tap each with a 3/4" screw thread is required.

If a water connection is not available, only a qualified installer may connect the washing machine to the mains water supply.

The inlet hose for cold water is not suitable for connection to a hot water supply.

Hot water connection

The same connection requirements as for cold water also apply to hot water up to 70 °C.

A suitable connection hose with a threaded union is supplied with the machine.

The machine with hot water connection also requires a cold water connection.

In the event that hot water is not available on site, a cold water supply must be used for the hot water connection.

The required amount of hot water should be added to the cold water volume.

Alternatively, the hot water connection should be blocked using the blind stopper supplied with the machine and the machine controls should be set to cold water intake.

Drain valve (depending on model)

In the case of washing machines with a drain valve, a motorised valve is used to drain the machine. An HT DN 70 angle connector can be used for draining the machine directly into the waste water system (without a siphon) or into an on-site gully (with odour trap).

Thanks to an improved closing mechanism and a larger cross-section, even the coarsest of soiling does not leave any deposits or debris behind which could result in blockages. The dump valve can also be operated manually to allow the suds container to be emptied in the event of a power cut.

A vented drainage system is vital for unimpeded drainage.
If several machines are connected to a single drain pipe, this should be sufficiently large to allow all machines to drain simultaneously.
The appropriate Miele installation set M.-No.: 05 238 090 is available from Miele for venting an HT DN 70 pipe (not available from Miele).
If the slope for drainage is extremely steep, the piping must be vented to prevent formation of a vacuum in the machine's drainage system.

Slow or obstructed drainage or a backup of water in the drum as a result of undersized pipework can result in faults occurring during programmes, which will result in fault messages appearing in the display.

⚠ Outflowing suds can be as hot as 95 °C. Danger of burning!
Avoid direct contact.

Drain pump (depending on model)

In machines with drain pump, the suds are drained through a drain pump with a delivery head of max. 1 m.

The drain hose must be installed free of kinks for the suds to drain freely.

There are the following options for draining the machine:

- connected securely to a trapped waste pipe
- connected over the rim of the laundry trough or into the sud-saver pipe of the laundry trough
- connected into a trapped or untrapped waste pipe connected to a floor drain (gully)

If required, the hose can be extended to a length of up to 5 m. The corresponding accessories are available from Miele.

For a drain height of more than 1 m, a replacement drain pump for a delivery head of max. 1.8 m is available from Miele.

Dispenser connection

The machine is equipped with an interface for external dispenser systems. Adapters for pre-mixed suds or liquid detergent from external dispenser systems for up to 6 connections should be obtained from Miele and connected.

A separate Connector Box is required for controlling the dispensing pumps electrically. This must be installed by a Miele authorised technician. It is particularly important to observe the manufacturer's instructions when using a combination of cleaning agents and special application products.

Optional accessories

Only use genuine Miele spare parts and accessories with this machine.
Using spare parts or accessories from other manufacturers will invalidate the warranty, and Miele cannot accept liability.

Connector Box

The Connector Box allows external hardware from Miele and other suppliers to be connected to the Miele Professional machine.

The Connector Box is supplied with mains voltage by the Miele Professional Machine.

The separately available set consists of the Connector Box and fasteners for installation on the machine or on the wall.

Peak load/Energy management

A peak load or energy management device can be connected via the Connector Box.

The peak load cut-out monitors the energy consumption of a system and deactivates individual pieces of equipment temporarily in order to ensure that certain total load limits are not exceeded. Monitoring is externally controlled.

When the peak-load function is activated, the heating is deactivated and the programme stopped. A message appears in the display to inform you of this.

The programme is resumed automatically when the peak-load function finishes.

Liquid dispensing connection

External liquid dispenser pumps with a level monitoring indicator or a flow meter can be used to dispense liquid detergents.

The dispenser pumps can only be programmed with MDU by a Miele approved technician.

It is particularly important to observe the manufacturer's instructions when using a combination of cleaning agents and special application products.

Payment system

This machine can be fitted with a single payment system (optional accessory) via the Connector Box.

The programming required for connecting a payment system can be carried out during the initial commissioning process. After initial commissioning, changes can only be made by Miele Professional Service.

Installation notes

WLAN/LAN interface

The washing machine is fitted with a WLAN/LAN interface for the purpose of data exchange.

The data interface provided at the LAN connection complies with SELV (Separated Extra Low Voltage) in accordance with IEC 62368-1. The LAN connection uses an RJ45 connector in accordance with EIA/TIA 568-B.

Connected appliances must also comply with SELV.

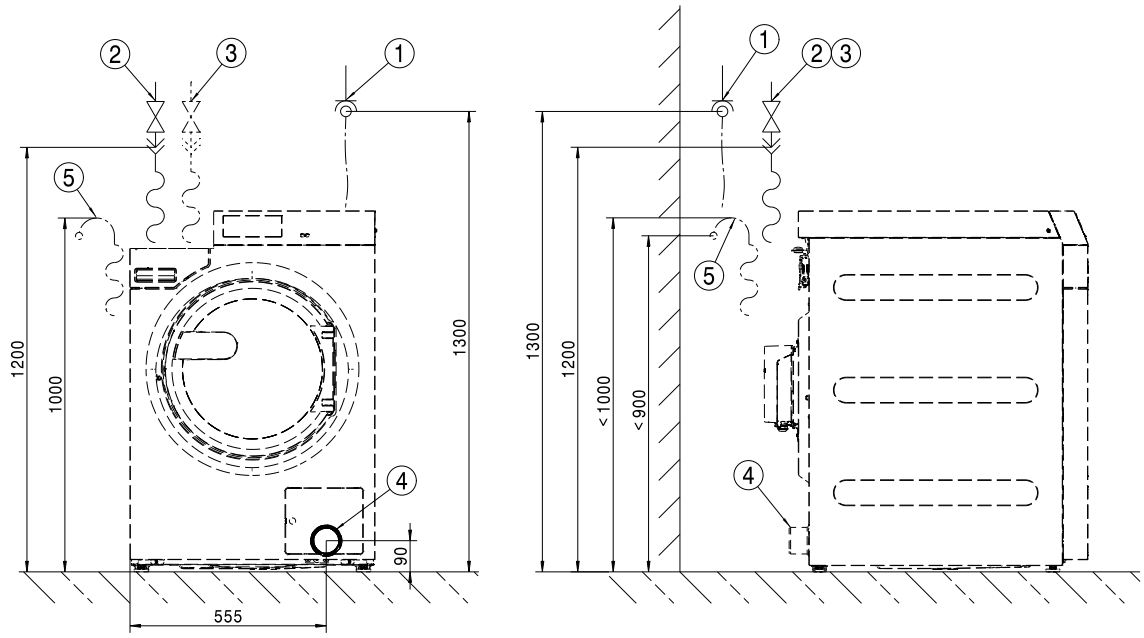
Plinth (APWM037/038/039)

The machine can be installed on a plinth (open or box plinth, available as an optional Miele accessory).

Elevating the washing machine gives a better ergonomic working position when loading or unloading. It also simplifies the installation of a waste water connection.

⚠ The washing machine must be secured to the plinth immediately after installation. The plinth must be secured to the floor.
There is a risk of the washing machine falling off a raised plinth during a spin cycle if it is not secured.

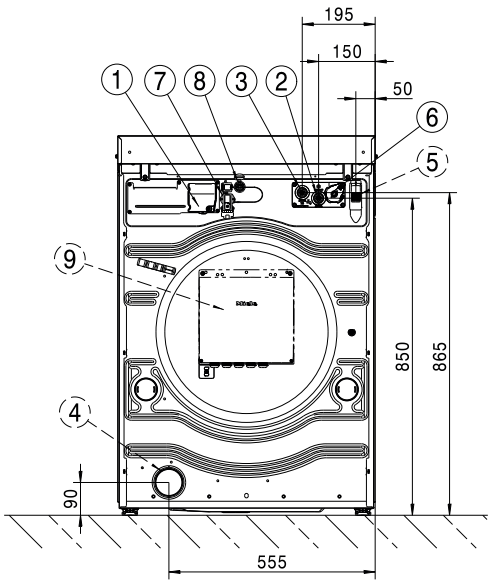
Standard



① Electrical connection
② Cold water connection
③ Hot water connection
④ Drain pipe (DV versions only)
⑤ Drain connection (DP versions only)

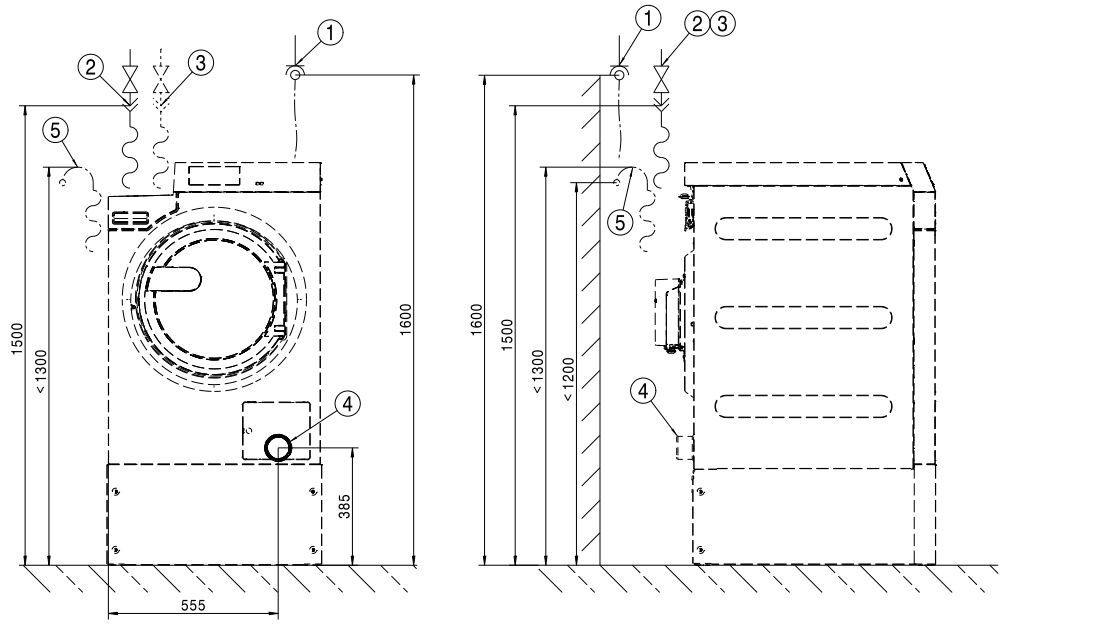
Installation

Standard



① Electrical connection
② Cold water connection
③ Hot water connection
④ Drain pipe (DV versions only)
⑤ Drain connection (DP versions only)
⑥ Dispenser pump connection
⑦ Connector Box connection
⑧ LAN connection
⑨ Connector Box (optional)

Plinth



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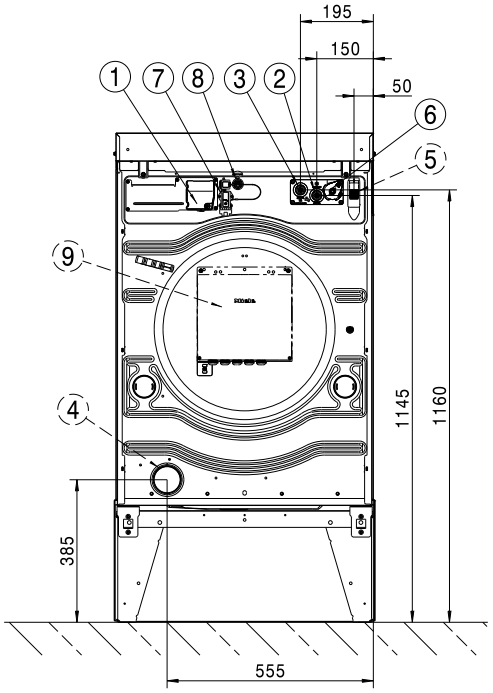
Plinth



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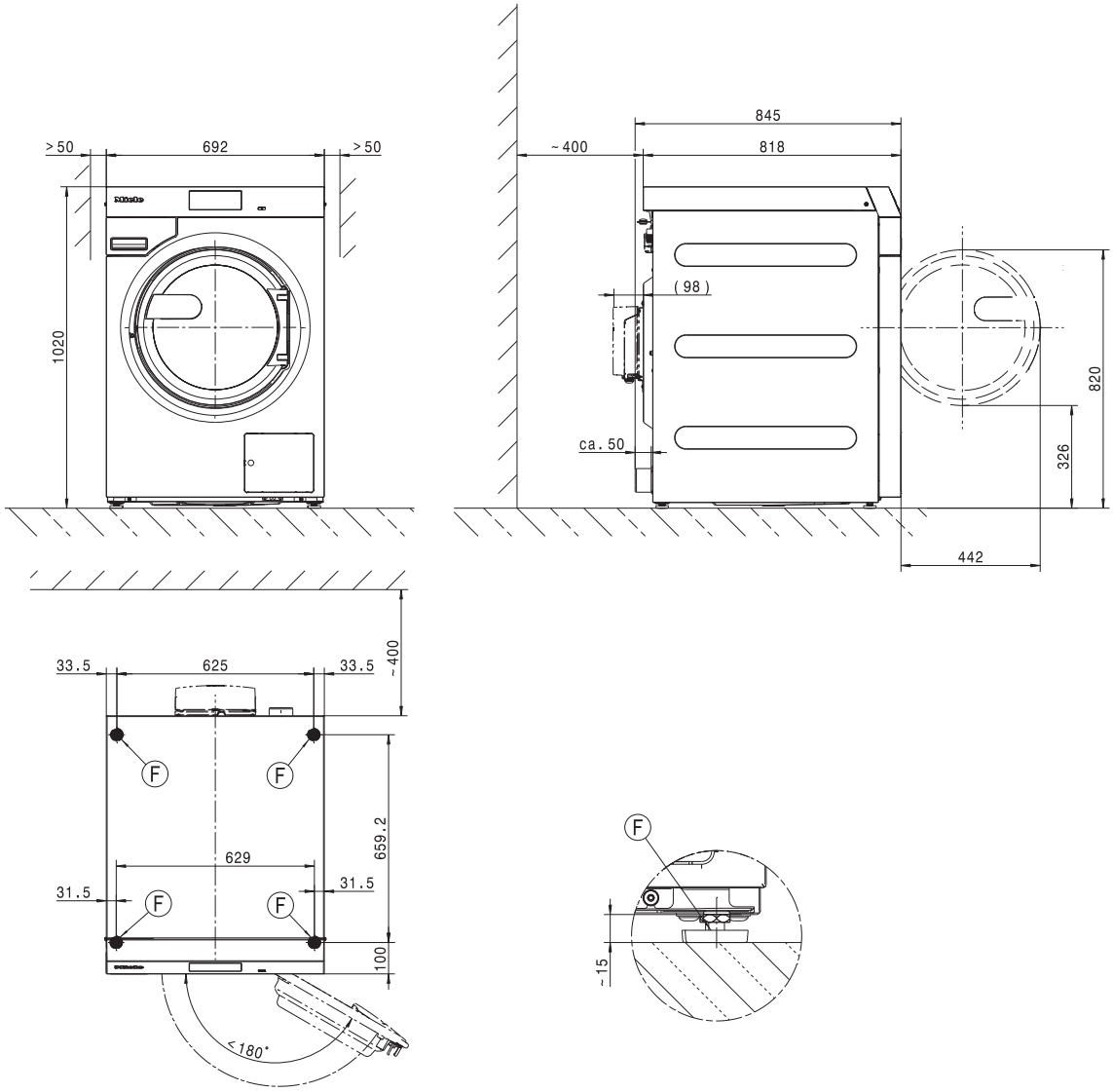
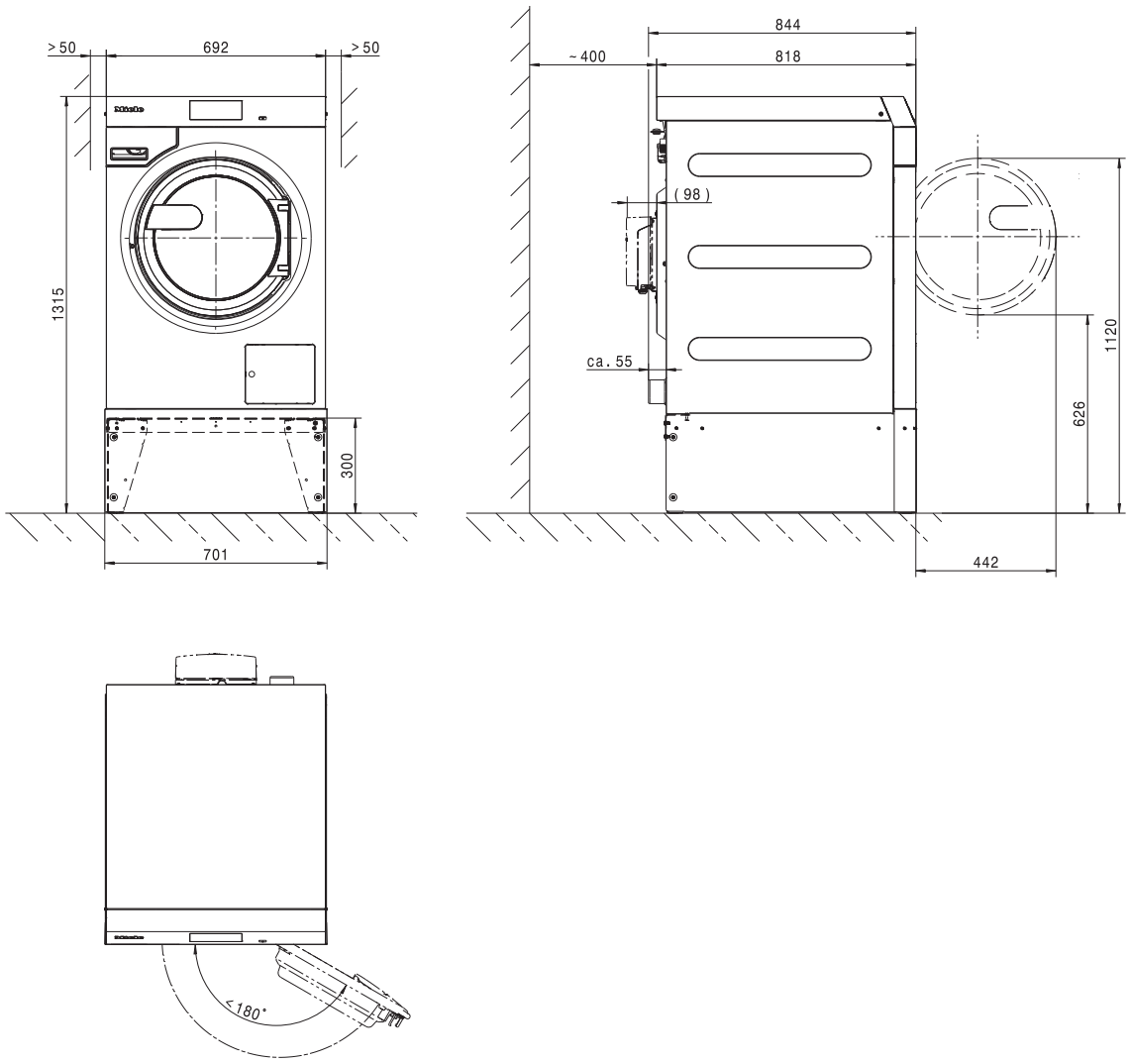


Dimensions in millimetres

Ⓕ machine feet

Installation

Plinth

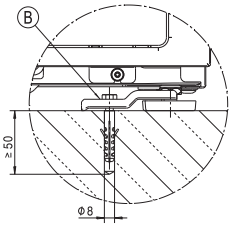


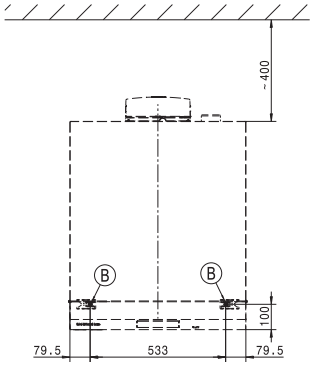
Dimensions in millimetres

Ⓕ machine feet

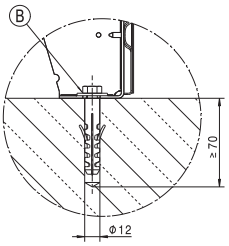
Floor anchoring

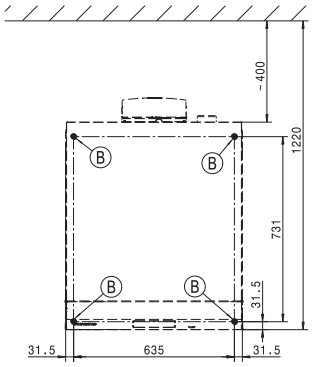
Standard





Plinth





Dimensions in millimetres

Ⓑ screw / anchor point

Technical data

Voltage versions and electrical data

3N AC 400 V EL DV

Supply voltage	3N AC 400 V
Frequency	50/60 Hz
Fuse rating (on site)	3 x 16 A
Circuit breaker trip characteristic	Type B
Total rated load	8,2 kW
Mains connection cable, min. cross-section	5 x 1,5 mm^2

3N AC 400 V EL DP

Supply voltage	3N AC 400 V
Frequency	50 Hz
Fuse rating (on site)	3 x 16 A
Circuit breaker trip characteristic	Type B
Total rated load	8,2 kW
Mains connection cable, min. cross-section	5 x 1,5 mm^2

3N AC 400 V EL DP

Supply voltage	3N AC 400 V
Frequency	60 Hz
Fuse rating (on site)	3 x 16 A
Circuit breaker trip characteristic	Type B
Total rated load	8,2 kW
Mains connection cable, min. cross-section	5 x 1,5 mm^2

Water connection

Cold water connection

Required flow pressure	100 - 1000 kPa (1 - 10 bar)
Maximum flow rate	10 l/min
Threaded union required (male thread, to be provided by customer in accordance with AS 3688, flat sealing)	3/4"
Length of water inlet hose supplied	1550 mm

Hot water connection

Maximum permissible hot water temperature	70 °C
Required flow pressure	100 - 1000 kPa (1 - 10 bar)
Maximum flow rate	10 l/min
Threaded union required (male thread, in accordance with AS 3688, flat sealing)	3/4 "
Length of water inlet hose supplied	1550 mm

Drainage (DV)

Maximum drain water temperature	95 °C
Waste water connection (on machine)	Plastic pipe HT DN 70
Drain (on-site)	Connection DN 70
Maximum drainage rate	200 l/min

Drainage (DP)

Maximum drain water temperature	95 °C
Waste water connection (on machine)	External diameter 22 (DN 22)
Maximum drainage rate	26 l/min

Equipotential bonding

Connection with male thread	10×35 mm
Washers and nuts	M10
If local and national installation specifications require equipotential bonding, good galvanic contact must be guaranteed. Accessories for equipotential bonding are not supplied and need to be ordered separately.	

Installation dimensions

Casing width (without add-on components)	692 mm
Casing height (without add-on components)	1012 mm
Casing depth (without add-on components)	818 mm
Overall machine width	700 mm
Overall machine height	1020 mm
Overall machine depth	845 mm
Minimum width of transport opening	800 mm
Minimum distance between wall and rear of appliance	400 mm
Diameter of door opening	370 mm
Door opening angle	180°

Technical data

Anchoring

Standard

Required anchor points	2
DIN 571 wood screw (diameter x length)	12 mm x 90 mm
Rawl plugs (diameter x length)	16 mm x 80 mm

With plinth (APWM)

Required anchor points	4
DIN 571 wood screw (diameter x length)	12 mm x 90 mm
Rawl plugs (diameter x length)	16 mm x 80 mm

Concrete plinth

Required anchor points	2
DIN 571 wood screw (diameter x length)	12 mm x 90 mm
Rawl plugs (diameter x length)	16 mm x 80 mm

Transport data, weight and floor load

Packaging width	750 mm
Packaging height	1214 mm
Packaging depth	917 mm
Gross volume	835 l
Gross weight*	161 kg
Net weight*	148 kg
Maximum floor load during operation*	2577 N

*depending on equipment configuration

Emissions data

Sound pressure level at workplace, washing	51 dB (A)
Sound power level, washing	60,1 dB (A)
Sound pressure level at workplace, spinning	60 dB (A)
Sound power level, spinning	68,7 dB (A)
Average heat dissipation rate to installation site	2,8 MJ/h
Emission sound pressure level	61 dB (A) re 20 µPa

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