Miele

Installation plan

PFD 400–PFD 407

en - GB, AU, NZ

M.-Nr. 11 935 780

Contents

Installation notes

For safe installation and commissioning of the dishwasher please read the installation plan, the service documentation and the operating instructions.

This installation plan includes the dimensions of the appliance, the technical data and the requirements to be met on site for the installation of the dishwasher.

Installation requirements

This dishwasher must only be installed and commissioned by the Miele Customer Service Department, a Miele authorised dealer or a suitably qualified specialist.

Installation should only be performed in accordance with valid regulations, relevant standards and health and safety codes.

Environmental requirements

Condensate can build up in the area surrounding the dishwasher. Any furniture and fittings in the room must therefore be suitable for purpose.

Protective sheet for built-under appliances

The protective sheet supplied protects the worktop from damage caused by steam escaping when the door is opened. Fit the protective sheet above the door, underneath the worktop.

Electrical connection

All work on the electrical connection must be carried out by the Miele Customer Service Department, an authorised Miele dealer or a qualified electrician.

Plug connection

The dishwasher should be connected to the electricity supply via a socket.

Hard-wired

If the dishwasher is hard-wired to the power supply, a power switch capable of disconnecting the dishwasher at all poles must be installed on site. This power switch must have a contact gap of at least 3 mm.

The socket and the power switch must be accessible after the appliance has been installed. An electrical safety test must be carried out after installation and after any servicing work.
The mains connection cable must be laid protected from the risk of thermal damage.

Residual current device (RCD)

For increased safety, it is recommended to protect the dishwasher with a residual current device (RCD) type A with a trip current of 30 mA.

Equipotential bonding

There is a screw connection point for equipotential bonding at the back of the dishwasher.
Equipotential bonding should be carried out if possible on site.

Installation notes

Water connection

The dishwasher must only be connected to fully vented pipework. A brief increase in the water pressure can damage components of the dishwasher.

UK Installation requirements:

The double check valve supplied with this product must be installed between the stopcock and the water inlet hose.
Screw the double check valve onto the stopcock. Then screw the water inlet hose with the water protection system onto the thread of the double check valve.

AU, NZ Installation requirements:

The dual check valve supplied separately with this product must be installed between the tap and the water inlet hose.
Screw the dual check valve onto the tap. Then screw the water inlet hose with the water protection system onto the thread of the dual check valve.

Turn on the the tap gradually to test for leaks. If there is a leak, the connection might not be on securely, or it may have been screwed on at an angle. Unscrew and reconnect the water inlet hose correctly before tightening it.

Water inlet

The quality of the incoming water must correspond to the drinking water specification of the country in which the dishwasher is being operated.

The dishwasher must be connected to the water supply in strict accordance with current local and national water authority regulations.

The dishwasher can be connected to cold or hot water[1)] supplies. If hot water is not available, the two water inlet hoses (for cold and hot water) must be connected to the cold water supply via a Y-piece. The Y-piece must be connected after the non-return valve.

The stopcocks should remain accessible once the dishwasher has been installed so that the water supply can be shut off whenever the appliance is not in use.

1) PFD 400: connection to cold or hot water with a water inlet hose

Drain

The dishwasher drain hose should be connected to a separate on-site drainage system for the dishwasher only. If a separate connection is not available, we recommend connecting the hose to a dual-chamber siphon.
If the hose is to be fitted directly to the drainage system on site, use the hose clip supplied with the dishwasher.
The on-site connector for the drain hose can be adapted to different hose diameters. If the connector extends more than 30 mm into the drain hose, it must be shortened. Otherwise, the drain hose can become blocked.

Lay the drain hose so that it does not kink and is not being subjected to pressure or tension.

If the on-site drain connection is situated lower than the guide path for the lower basket rollers in the open door, a siphoning effect during a programme can cause the wash cabinet to empty itself of water.
In this case, lay the drain hose with a bend in it so that its highest point is at least level with the guide path for the lower basket rollers.
For AU, NZ the drain should be connected in accordance with AS/NZS 3500.2.

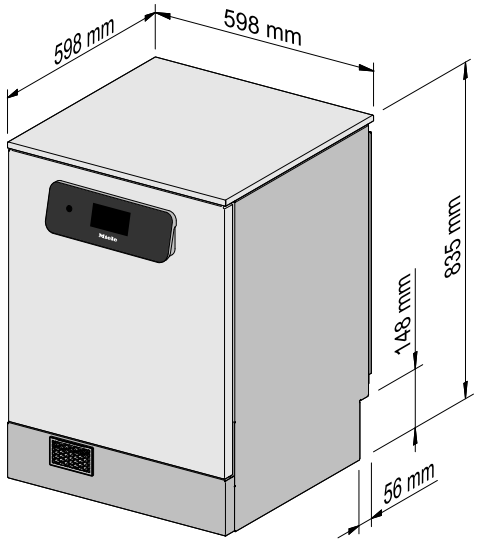
Connecting an external dispensing system

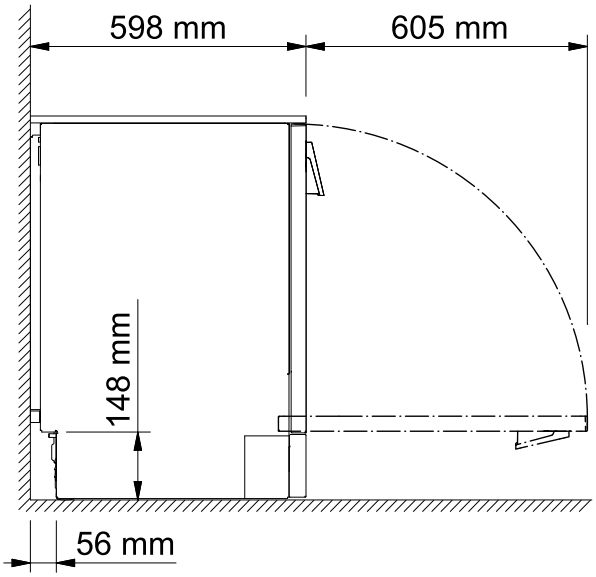
Up to two dispensing systems for liquid cleaning agents and rinsing agents can be connected to the back of the dishwasher. Machines with integrated dispensing systems have an external connection for rinsing agents.

Appliance dimensions

Freestanding appliances

PFD 400
PFD 401 (DOS)
PFD 402 (DOS)
PFD 404 (DOS)
PFD 405 (DOS)
PFD 407 (DOS)

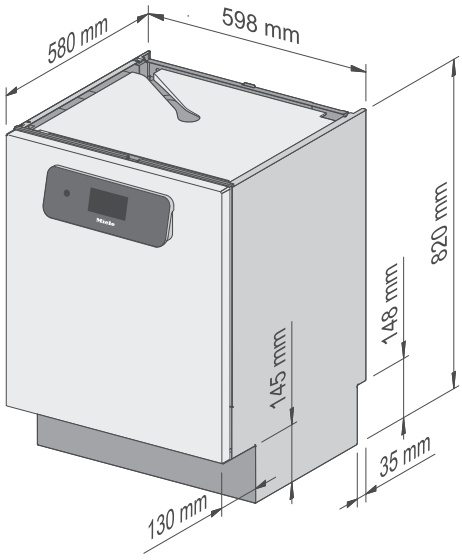


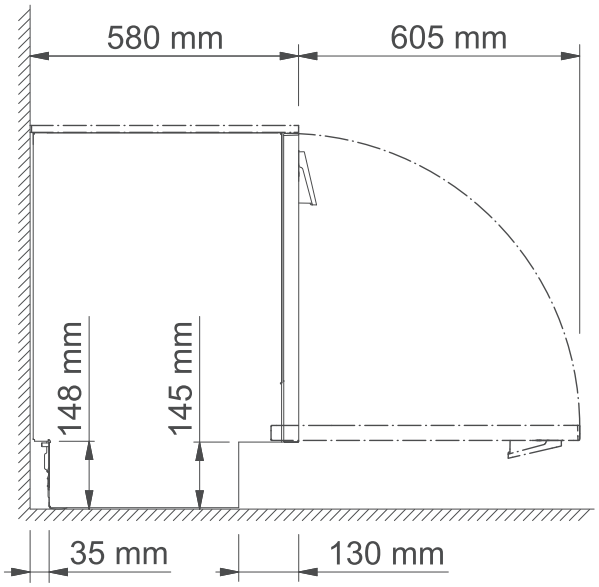


The front of the plinth may vary depending on the model

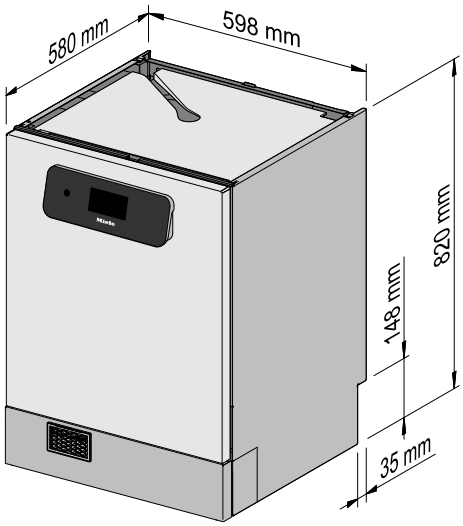
Built-under appliances

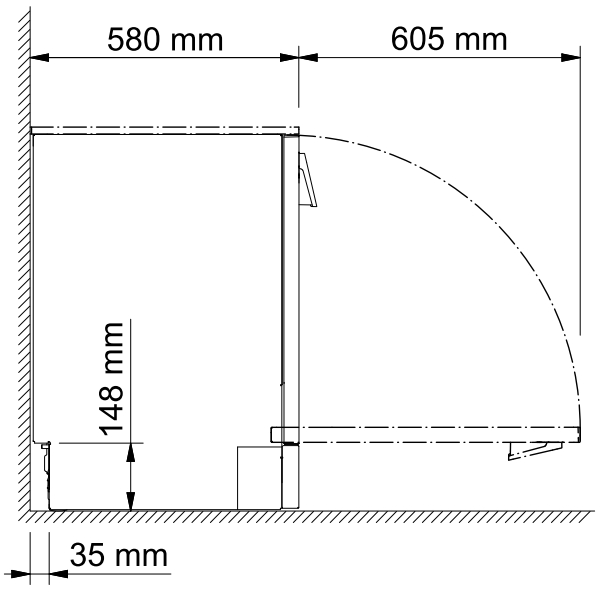
PFD 400 U, PFD 401 U





PFD 401 U DOS, PFD 402 U (DOS), PFD 405 U (DOS)



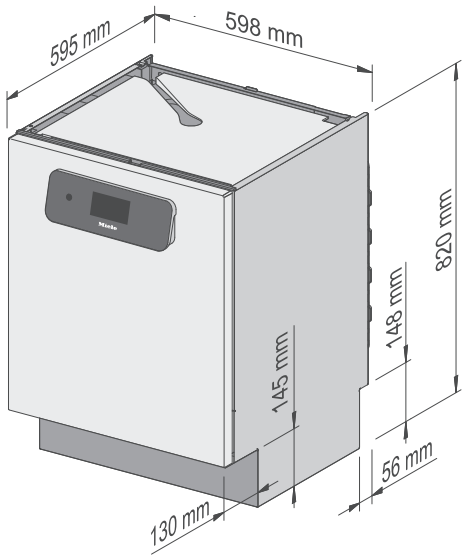


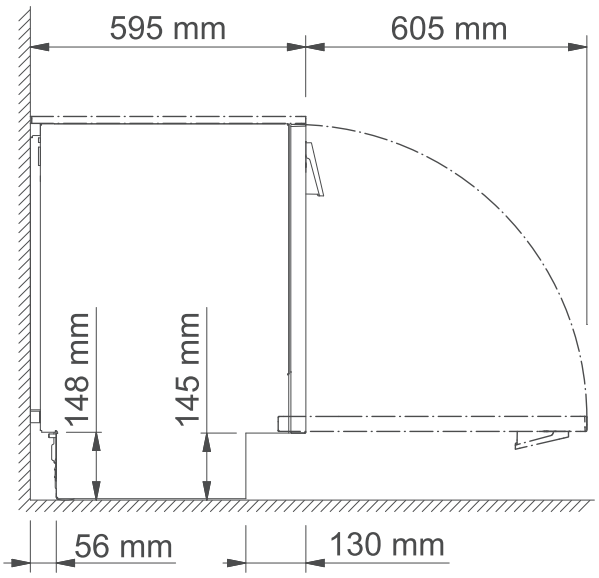
The front of the plinth may vary depending on the model

Appliance dimensions

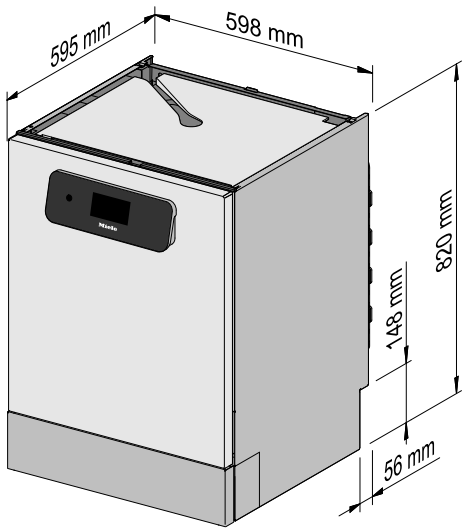
Built-under appliances

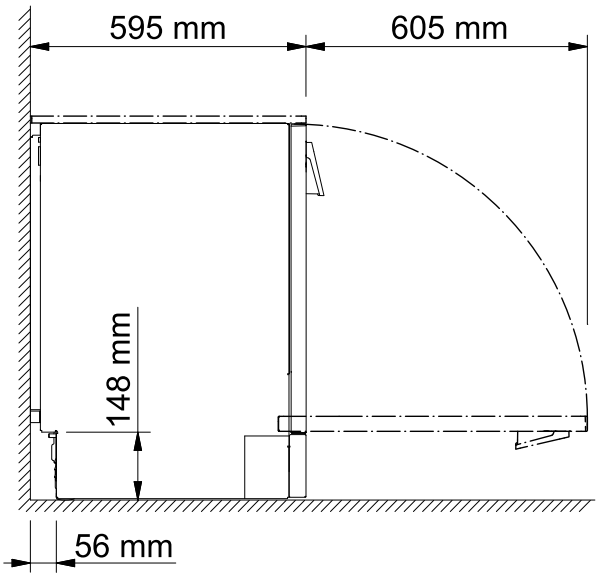
PFD 404 U, PFD 407 U





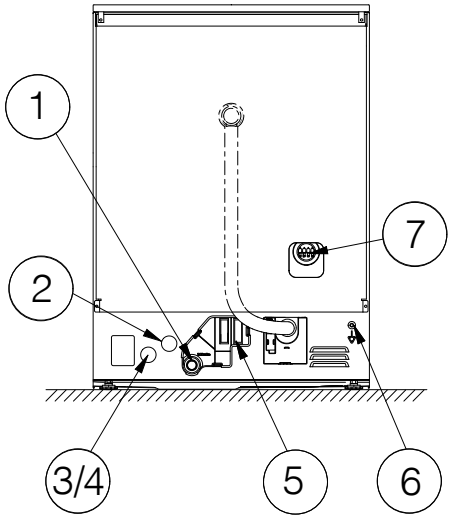
PFD 404 U DOS, PFD 407 U DOS



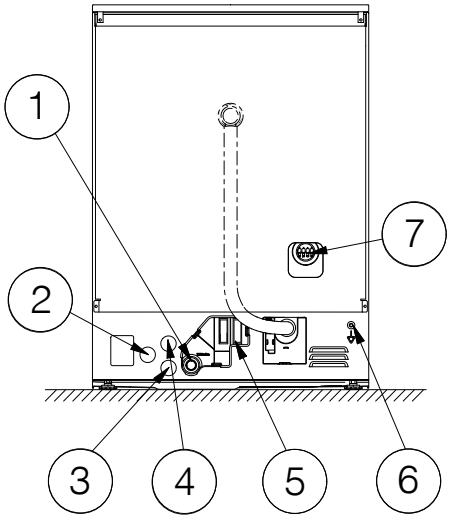


Connections on the back of the appliance

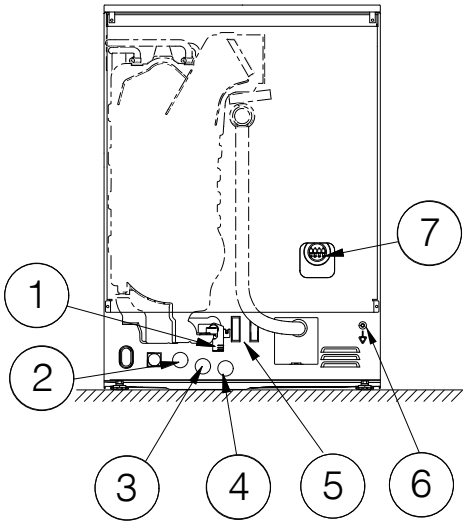
PFD 400



PFD 401 (DOS), PFD 402 (DOS), PFD 405 (DOS)



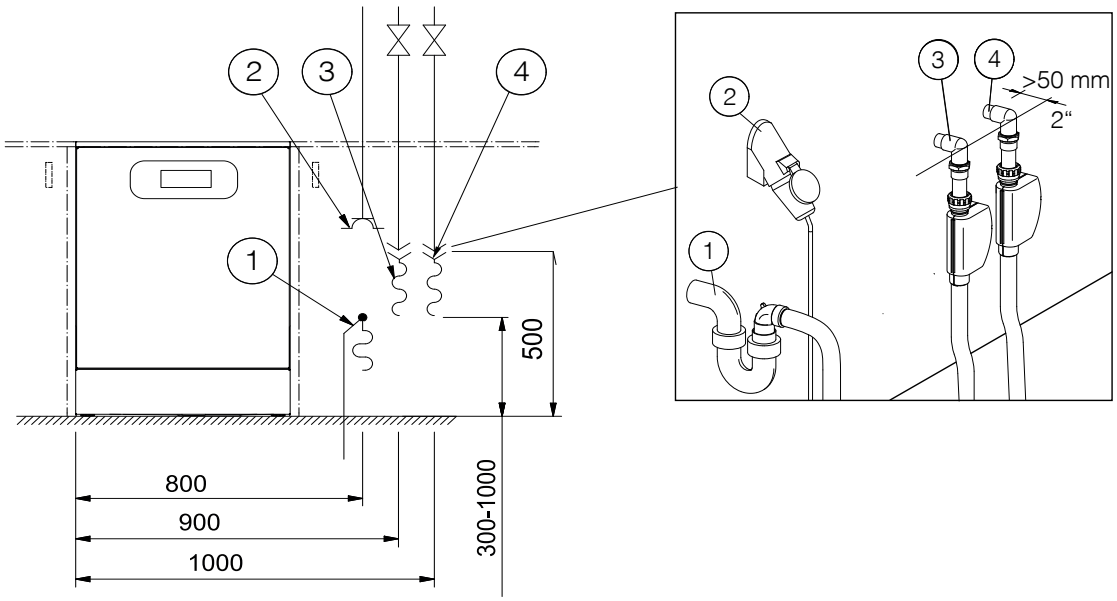
PFD 404 (DOS), PFD 407 (DOS)



①	Waste water
②	Electrical connection
③	Hot water
④	Cold water and cold water connection for steam condenser
⑤	External dispensing, power supply connection
⑥	Equipotential bonding
⑦	External dispensing, connection for dispenser hose

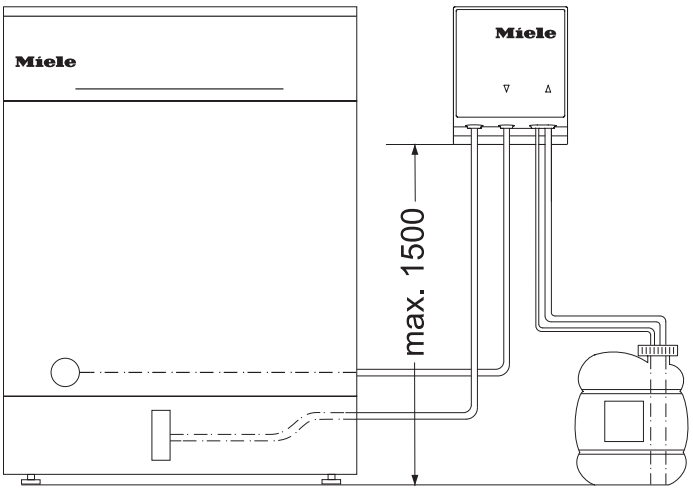
Connections

On-site connections



①	Waste water
②	Electrical connection
③	Hot water
④	Cold water and cold water connection for steam condenser
⑤	External dispensing, power supply connection
⑥	Equipotential bonding
⑦	External dispensing, connection for dispenser hose

External dispensing



Max. delivery head	1.5 m
Length of dispenser hose, DOS module to suction lance	1.8 m
Length of dispenser hose, back of appliance to DOS module	2.8 m
Length of power cable, back of appliance to DOS module	2.8 m

Place the container on the floor next to the dishwasher or in an adjacent cabinet.
The container must not be placed on top of or above the dishwasher.

Technical data

Electrical connection GB

Option 1

	Standard	Voltage variant *
Voltage	3N AC 400 V	AC 230 V
Frequency	50 Hz	50 Hz
Fuse rating	3 x 16 A	16 A
Plug	-	-
Mains connection cable length	1.9 m	1.9 m
Mains connection cable cross-section	5 x 2.5 mm^2	3 x 1.5 mm^2
Heater rating	8.5 kW	3.0 kW
Total rated load	8.9 kW	3.4 kW

Option 2

	Standard	Voltage variants *	
Voltage	AC 230 V	AC 230 V	AC 230 V
Frequency	50 Hz	50 Hz	50 Hz
Fuse rating	30-32 A	16 A	13 A
Plug	-	-	+
Mains connection cable length	1.9 m	1.9 m	1.9 m
Mains connection cable cross-section	3 x 4 mm^2	3 x 1.5 mm^2	3 x 1.5 mm^2
Heater rating	5.5 kW	3.0 kW	2.5 kW
Total rated load	5.9 kW	3.4 kW	2.9 kW

* Conversion work done by the Miele Customer Service Department

Electrical connection AU, NZ

Option 1

	Standard	Voltage variant *
Voltage	3N AC 400 V	AC 230 V
Frequency	50 Hz	50 Hz
Fuse rating	3 x 16 A	15 A
Plug	–	+
Mains connection cable length	1.9 m	1.9 m
Mains connection cable cross-section	5 x 2.5 mm^2	3 x 1.5 mm^2
Heater rating	8.5 kW	3.0 kW
Total rated load	8.9 kW	3.4 kW

Option 2

	Standard	Voltage variant *
Voltage	AC 230 V	AC 230 V
Frequency	50 Hz	50 Hz
Fuse rating	30–32 A	15 A
Plug	+	+
Mains connection cable length	1.9 m	1.9 m
Mains connection cable cross-section	3 x 4 mm^2	3 x 1.5 mm^2
Heater rating	5.5 kW	3.0 kW
Total rated load	5.9 kW	3.4 kW

* Conversion work done by the Miele Customer Service Department

Technical data

Water inlet

Max. water temperature cold water	20 °C
Max. water temperature hot water	60 °C
Max. water hardness	10.71 mmol/l
Max. water hardness	60 °dH
Water connection pressure Cold water PFD 400, PFD 401, PFD 402, PFD 405: PFD 404, PFD 407: Hot water	 40-1000 kPa 100–1000 kPa 40-1000 kPa
Flow rate	3 l/min
On-site threaded union (flat seal)	3/4 inch
Connection hose length	1.5 m
Connection hose extension *	1.5 m

* Optional accessories

Drainage

Max. water temperature PFD 400, PFD 401: PFD 402: PFD 404, PFD 405: PFD 407:	 70 °C 80 °C 85 °C 93 °C
Drain hose length	1.5 m
Max. drain hose length	4 m
Max. delivery head	1 m
Max. transient flow rate	16 l/min
Hose inner diameter (Ø)	22 mm
On-site hose sleeve (Ø x length)	22 x 30 mm

Dispensing

Integrated dispenser pump (DOS)

Max. delivery head	1.5 m
Length of dispenser hose, back of appliance to suction lance	approx. 1.8 m

External dispenser pump

Max. delivery head	1.5 m
Length of dispenser hose, DOS module to suction lance	approx. 1.8 m
Length of dispenser hose, back of appliance to DOS module	approx. 2.8 m
Length of power cable, back of appliance to DOS module	approx. 2.8 m

Dimensions

	Freestanding appliance	Built-under appliance
Height	835 mm	820 mm
Height adjustment	60 mm	60 mm
Width	598 mm	598 mm
Depth		
PFD 400, PFD 401, PFD 402, PFD 405:	598 mm	580 mm
PFD 404, PFD 407:	598 mm	595 mm
Depth including control panel		
PFD 400, PFD 401, PFD 402, PFD 405:	638 mm	620 mm
PFD 404, PFD 407:	638 mm	635 mm
Depth with door open		
PFD 400, PFD 401, PFD 402, PFD 405:	1203 mm	1185 mm
PFD 404, PFD 407:	1203 mm	1200 mm

Weights

	PFD 400 PFD 401	PFD 402 PFD 405	PFD 404 PFD 407
Freestanding appliance (DOS)	75 kg	78.5 kg	78.5 kg
Built-under appliance (DOS)	66.5 kg	70.5 kg	76.5 kg
Max. floor load	1200 N	1200 N	1200 N

Technical data

Emissions data

	PFD 400, PFD 401, PFD 402, PFD 405	PFD 404, PFD 407
Sound power level	59 dB(A) re 1 pW	57 dB(A) re 1 pW
Sound pressure level in the workplace	47 dB(A)	45 dB(A)
Heat output into the room	1.44 MJ/h	1.44 MJ/h

Operating conditions

Ambient temperature	+5 to +40 °C
Relative humidity: Up to 31 °C, maximum Linear decreasing to 40 °C	 80 % 50 %
Max. altitude above sea level up to	2000 m

Storage and transportation conditions

Ambient temperature	-20 to +75 °C
Relative humidity	10–85 %
Air pressure	500–1060 hPa

Min. site access dimensions including transport pallet

Height	920 mm
Width	670 mm
Depth	740 mm

Weights including packaging

	PFD 400 PFD 401	PFD 402 PFD 405	PFD 404 PFD 407
Freestanding appliance (DOS)	85 kg	88.5 kg	86.5 kg
Built-under appliance (DOS)	76.5 kg	80.5 kg	86.5 kg

Miele

Manufacturer:
Miele & Cie. KG
Carl-Miele-Straße 29
33332 Gütersloh
Germany

Manufacturing site:
Miele & Cie. KG
Mielestraße 2
33611 Bielefeld
Germany

Internet: www.miele.com/professional

 M.-Nr. 11 935 780 / 02

CE