

Operating Instructions Laboratory Glassware Washer G 7804

To prevent accidents and machine damage read these instructions **before** installation or use.



M.-Nr. 05 893 780

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This appliance is only intended for specialized applications. Only use the appliance for its intended purpose. Any other use, conversion or modification is dangerous. The manufacturer cannot be held responsible for damages caused by improper use of this machine.

This appliance complies with current safety requirements. Improper use of the appliance can lead to personal injury and material damage.

Read all instructions before installing or using this appliance.

Keep these operating instructions in a safe place and pass them on to any future user.

Installation and Service

The machine should only be installed, maintained and repaired by a Miele authorized service technician. Repairs by unqualified persons could be dangerous.

Do not install the machine in an area where a danger of explosion or of freezing may be present.

This equipment is not designed for maritime use or for use in mobile installations, such as caravans or aircraft. However, under certain conditions it may be possible for an installation in these applications. Please contact the nearest Miele dealer or the Miele Technical Service Department with specific requirements.

Be certain this appliance is properly installed and grounded by an authorized technician. To guarantee the electrical safety of this appliance, continuity must exist between the appliance and an effective grounding system. It is imperative that this basic safety requirement be met. If there is any doubt, have the electrical system of the house checked by a qualified technician. The manufacturer cannot be held responsible for damage or injury caused by the lack of or inadequacy of an effective grounding system .

A damaged machine is dangerous. Turn off the machine at the main power supply immediately and call the Miele Technical Service Department.

Before servicing, disconnect the power supply by either removing the fuse or "tripping" the circuit breaker.

Use

Personnel operating the machine should be trained regularly. Children and untrained personnel must not be allowed access to the machine or its controls.

BURN AND SCALD HAZARD This washer reaches very high temperatures. Take care when unloading the unit. Let baskets and inserts cool before touching them. Any water which may remain in containers will be very hot and must be emptied into the wash cabinet.

BURN HAZARD

The heating elements become extremely hot during use. Do not touch the heating elements during or directly after the end of a program.

Take care when handling liquids such as detergents, wetting agents or neutralizing agents. These may contain irritant or corrosive ingredients. Do not use an organic solvent in this washer, as an explosion may occur. Wear protective gloves and goggles. The manufacturer's safety conditions must be observed for all chemical agents.

Avoid inhaling powdered detergent. If swallowed, they can cause burning in the mouth and throat, or inhibit breathing. Be careful when sorting items with sharp pointed ends. If possible, place the pointed end downwards.

The water in the machine must not be used as drinking water.

Do not sit or lean on the open door. Injury or machine damage could result.

Never clean the machine or its vicinity with a water hose or a high pressure hose.

Only use cleaning agents formulated for special processes and approved by Miele for use with this machine. Use of unsuitable cleaning agents could adversely affect the components of the machine.

Pre-treatments with detergents can create suds, as can certain rinsing agents. For pre-treatment and / or cleaning only, use low-sudsing detergents which have been approved by Miele. Suds can have an adverse effect on the cleaning process. Where a chemical additive is recommended on technical application grounds (for example, with a cleaning agent), this does not imply that the manufacturer of the machine takes responsibility for the effect of the chemical on the material of the items being cleaned. Please be aware that changes in formulation, storage conditions, etc, which may not be published by the chemical producer, can have a negative effect on the cleaning result.

When using cleaning agents and specialized products, it is essential that the manufacturer's instructions are followed. Only use the product for the application described by the manufacturer to avoid any material damage or the occurrence of strong chemical reactions.

The machine is designed only for operation with water and additive cleaning agents. Organic solvents must not be used in the machine. An explosion or machine corrosion could occur with the use of organic solvents.

In critical applications where very high requirements must be met, it is strongly recommended that all the relevant factors for the process, such as cleaning agent, quality of water, etc,. are discussed with the Miele Technical Service Department.

If the cleaning result is subject to particularly stringent requirements (e.g. chemical analysis, specialized processes), a regular quality control test should be carried out by the user to ensure that the required standards are being achieved.

The mobile units and special inserts should only be used for their specific application.

Empty any containers or utensils before arranging them in the machine.

Do not allow any remains of acids or solvents, particularly hydrochloric acid or chloride solutions, to get into the wash cabinet. The presence of any solvents should be minimized (especially those in hazard class A1).

To prevent corrosion damage, ensure that solutions or steam containing hydrochloric acid do not come into contact with the steel outer casing of the machine.

Accessories

Only genuine Miele parts or accessories should be used with the G 7804 Laboratory Glassware washer. The performance and safety of non-genuine parts or accessories cannot be guaranteed, and use of such parts or items may void the machine warranty. If you have specific questions about machine options or accessories, please call Miele.

Disposal of an appliance

When discarding an old laboratory washer, disconnect it from the power supply, remove the door to the wash cabinet and cut off the power cord.

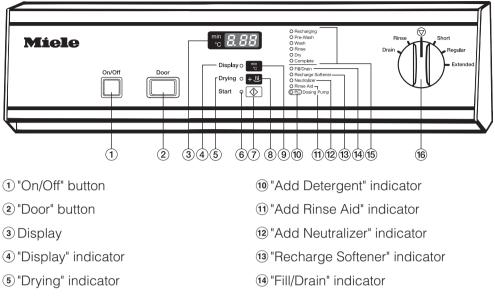
For environmental and safety reasons, ensure the machine is completely drained of any residual water and cleaning agent. (Observe safety regulations and wear safety goggles and gloves). Make appropriate arrangements for the safe disposal of the machine.

SAVE THESE

The Miele G 7804 represents the highest-quality general purpose laboratory glassware washer on the market today. Equipped with three wash routines, the G 7804 can handle a wide variety of cleaning challenges found in basic laboratory environments.

The G 7804 can accommodate a variety of baskets and inserts specifically designed for laboratory glassware. This includes injection baskets for difficult to clean narrow necked items, specially designed pipette cleaning baskets and standard baskets for wide-mouthed items.

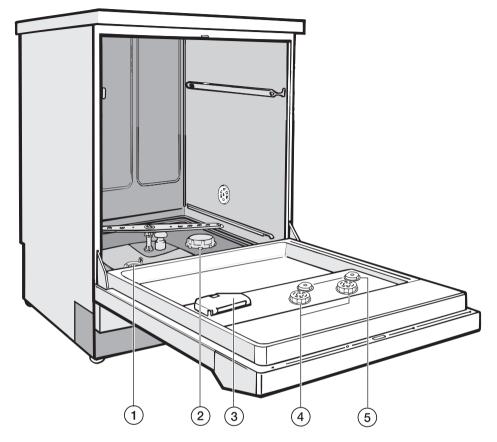
Guide to the glassware washer



- 6 "Start" indicator
- Istart button
- (8) "Drying" button
- Button to display "Actual time" or "Elapsed wash time"
- 16 Program selector

15 Program sequence indicators

Guide to the glassware washer



- ① Filter combination
- Salt reservoir (water softener)

- ③ Dispenser for powdered detergent
- Reservoir for neutralizer (with dosage selector)
- Level indicators

Electric door lock

The machine is equipped with an electric door lock. The door can only be opened when the electrical supply to the machine is turned on, and the "On/Off" button is pressed.

To open the door

Press the "Door" button in as far as it will go. At the same time, grip the handle and open the door.

After the first intake of water, the door remains locked and cannot be opened until the end of the program (except during the "Rinse" and "Drain" programs). The machine can be programmed to open during the "Drying" program, if desired.

Do not touch the heating elements. They remain hot for some time after the end of the program and can cause burns.

To close the door

Lift the door upwards and push it until it clicks shut. Do not press the release catch while shutting the door.

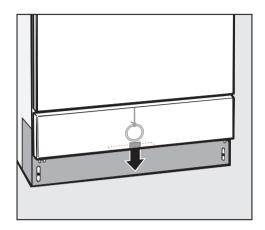
To cancel a program

If a program has to be canceled in an emergency, e.g. the program has been interrupted due to a fault, the door will have to be opened manually.

To open the door with the emergency release

The emergency release should only be used when the door cannot be opened normally, e.g. in the event of a power failure.

- Turn the program selector to "Stop" ⁽
 ⁽)</sup>.
- Press the "On/Off" button to turn the machine off.
- Take precaution against pressure wave release (rapid opening of the door).



Pull the emergency release cable (located at the bottom of the machine behind the service panel) downwards to open the door.

The door latch will reset after the emergency cable has been activated.

Water softener

To avoid the build-up of calcium deposits on glassware and the machine, the water may need to be softened (where the supply hardness exceeds 107 ppm $CaCO_3$).

To ensure a steady supply of soft water, the water softener must always be:

- 1. correctly set (programmed) and
- 2. regenerated with salt as soon as the "Recharge Softener" indicator illuminates.

The water softener should be set to correspond with the water hardness upon installation of the machine.

Your local water authority can advise you on the water hardness in your area.

Setting the water softener

The machine is set at the factory for a water hardness setting of 19^* , corresponding to 339 ppm CaCO₃. If your water supply is harder or softer than this, the setting of the controls should be changed.

Where the water hardness fluctuates e.g. between 160 - 310 ppm, always program the machine to the higher value, 310 ppm in this example.

Settings

• •••			
Settings	gr/gal	ppm	
1 - 30	1 - 30	CaCO ₃	
1	1	20	
2	2	40	
3	3	50	
4	4	70	
5	5	90	
6	6	110	
7	7	130	
8	8	140	
9	9	160	
10	10	180	
11	11	200	
12	12	220	
13	13	230	
14	14	250	
15	15	270	
16	16	290	
17	17	310	
18	18	320	
19	19 *)	340	
20	20	360	
21	21	380	
22	22	400	
23	23	410	
24	24	430	
25	25	450	
26	26	470	
27	27	490	
28	28	500	
29	29	520	
30	30	540	

Settings 31 - 60	gr/gal 31 - 60	ppm CaCO ₃	
31	31	560	
32	32	580	
33	33	590	
34	34	610	
35	35	630	
36	36	650	
37	37	670	
38	38	680	
39	39	700	
40	40	720	
41	41	740	
42	42	760	
43	43	770	
44	44	790	
45	45	810	
46	46	830	
47	47	850	
48	48	860	
49	49	880	
50	50	900	
51 52	51	920	
52 53	52 53	940	
53 54	54	950	
54 55	54	970 990	
56	56	1010	
50	50	1010	
58	58	1030	
59	59	1040	
60	60	1080	

*) factory setting

Setting the water softener

- Turn the machine off.
- Turn the program selector to "Stop" ⁽
- Press and hold the "Display" and "Start" buttons. At the same time, turn the machine on with the "On/Off" button. The display shows the current program status "P...". The "Fill/Drain" indicator will illuminate.
- Press the "Drying" button once. "E01" appears in the display.
- Turn the program selector to the 1-o'clock position.
 The display shows "19". (Factory setting of the water softener in gr/gal).
- Press and hold the "Display" button until the desired setting water hardness (in gr/gal) shows up in the display.

The counter starts with "0" after reaching "60".

- Press the "Start" button. "SP" appears in the display.
- Press the "Start" button again. The setting will be stored and the display field clears.

If there is a fault, it will be helpful to know the water hardness of the local water supply.

- Enter the local water hardness level here: _____
- If your water is already soft and you would like to deactivate the water softener, set the hardness setting to "0".

Filling the salt reservoir

Only special, coarse-grained reactivation salt* should be used in this machine.

*Available from Miele's Professional Customer Service Department. Please see back page for more information.

Do not use other types of salt, e.g. table salt, agricultural or gritting salt. These could contain components which are insoluble in water and could damage the water softener. If in doubt, consult Miele's Professional Department.

The salt reservoir holds approx. 2.5 kg of salt.

Inadvertently filling the salt reservoir with detergent will damage the water softener.

Before filling, make sure that you are using **reactivation salt**.

- Remove the bottom basket from the machine.
- Unscrew the salt reservoir cap.

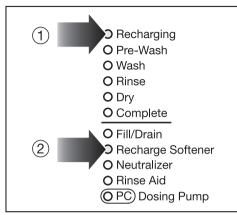
Before filling the salt reservoir with reactivation salt for the first time fill it with approx. 2.5 liters of water.



- Place the funnel provided in place.
- Carefully fill the reservoir with salt.
 Displaced water will run out as it is being filled.
- Wipe any residual salt off the screw threads on the socket.
- Screw the cap on firmly.
- Immediately after this step: Run the "Rinse" program to remove any traces of salt from the cabinet.

Note: There may be a delay before the "Rinse" program starts due to the reactivation of the water softener.

Salt indicator



When the salt reservoir is empty the "Recharge Softener" indicator, 2, illuminates to remind you to fill the reservoir.

Reactivation takes place automatically during a program. The "Recharging" indicator, ①, illuminates while this is occurring.

The following instructions relate only to basic preparation and loading of glassware. There are additional requirements for particular applications.

Loading the machine

Remove debris

Empty all glassware before loading into the machine.

Ensure that no acid or solvent residues, especially hydrochloric acid or chlorides, get into the wash cabinet.

- Remove all agar residue from petri dishes.
- Remove blood clots and residue from test tubes, etc.
- Remove all stoppers, corks, labels, sealing wax residue, etc.

Note

- Load items so that water will cover all surfaces. This ensures that they will be properly cleaned.
- Do not place items to be cleaned inside of other pieces, where they may be concealed.
- Hollow vessels, such as beakers, graduated cylinders, flasks, etc., should be inverted and placed in the correct inserts to ensure proper cleaning. A cover net can be used to reduce the risk of glass breakage during the wash process.
- Petri dishes and similar items should be placed in the correct insert with the soiled side facing center.
- Pipettes should be placed with the narrow end pointing down.
- Deep-based items should be placed at an angle to allow water to run off easily.
- Tall, narrow pieces should be placed in the center of the basket for best water coverage.
- The spray arms must not be blocked by items that are too tall or hang through baskets. Check clearance by manually rotating the spray arms.

Loading

Important:

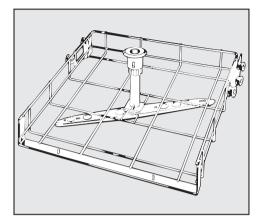
Make sure that the spring adapter for the water connection engages correctly when a basket or injector unit is inserted into the machine. It must be 4 - 5 mm higher than the water connection inlet in the machine. If this is not the case, adjust the adapter by performing the following steps:

- Loosen the locking ring.
- Push up the adapter 4 5 mm and tighten the locking ring.

Select baskets and inserts which are appropriate for the application.

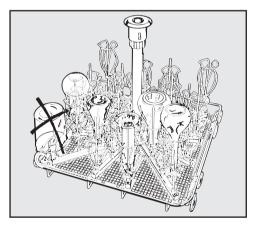
Please contact Miele's application specialist for advice: 1-800-991-9380

Loading examples



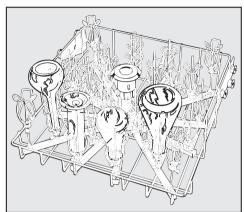
O 188 Upper basket

For various inserts.



E 350 Injector wagon

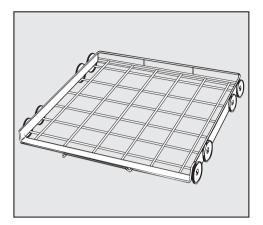
For narrow necked glassware, 15 injectors, 160 mm high; 18 injectors, 220 mm high.



O 187 Injector wagon

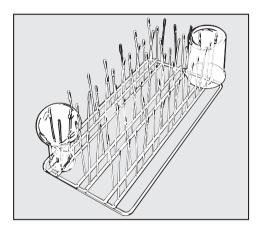
(Upper basket) For direct injection of narrow necked glassware, 34 injectors,160 mm high.

Loading



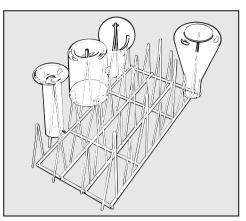
U 874 Lower basket

For various inserts.



E 109

Stainless steel half insert to accommodate 21 beakers up to 250 ml, Erlenmeyer flasks, round flasks etc.



E 106

Stainless steel half insert with 28 spring hooks in 2 different heights for various glassware, e.g. narrow necked flasks, graduated cylinders, medicine bottles, etc.

Adjusting the upper basket

The upper basket can be adjusted above and below the middle position by 2 cm.

Example: Upper basket O 188/1 and lower basket U 874

Upper basket	Upper basket height		Lower basket height	
position	cm	inches	cm	inches
Upper	15.5	6 ¹ / ₈ "	28.5	11 ¹ / ₄ "
Middle	17.5	6 ⁷ / ₈ "	26.5	10 ⁷ / ₁₆ "
Lower	19.5	7 ¹¹ / ₁₆ "	24.5	9 ⁵ / ₈ "

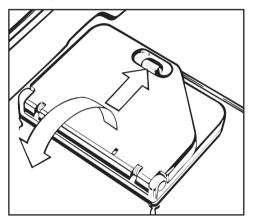
(measurements do not include inserts)

To adjust the upper basket:

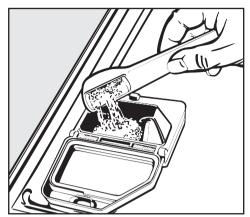
- Pull out the upper basket, lift from the runners and remove.
- Unscrew the roller bearings on both sides of the basket with a wrench and reposition as required.

Only use cleaning agents formulated for this machine. Do not use detergents formulated for domestic dishwashers.

Powdered detergent must be placed in the detergent container prior to every program (except for "Rinse" and "Drain".)



Press the opening catch on the container (see arrow) forwards. The flap will spring open. (The flap is always open at the end of a program).



Add detergent to the compartment.

Dosage: approx. 3 g/l (equivalent to 30 g per cleaning sequence).

Follow manufacturer's instructions if they differ.

Close the dispenser lid.

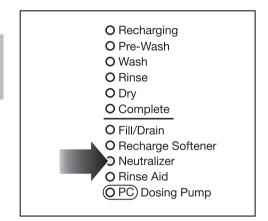
The Dual Dosing container for liquid agents incorporated in the door has a capacity of 2×180 ml.

A Inadvertently filling the storage reservoir with **detergent** will damage the reservoir.

Neutralizer (factory setting)

To reduce the pH to neutral after the alkaline cleaning, neutralizing agent needs to be used.

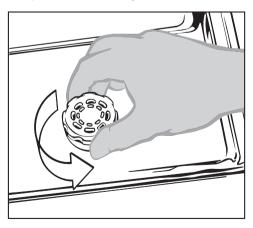
Adding neutralizer



When using the machine for the first time or when the "Add neutralizer" indicator lights, add neutralizer to the storage containers.

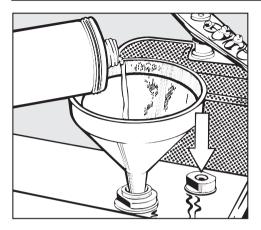
The storage containers have an additional level indicator at the inner side of the door.

Open the door fully.



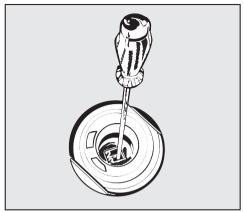
Unscrew the caps. Wear protective gloves.

Adding neutralizer



- Pour neutralizing agent into the reservoir until the level indicator is dark (see arrow on illustration). Use a funnel if necessary.
- Replace and tighten the cap. Clean up any spilled neutralizer.
- Wait until the "Add neutralizer" indicator illuminates again before refilling.

Setting the dosage



The dosage adjuster in the opening has settings adjustable from 1 to 6 (1- 6 ml). It is preset to "5" (10 ml) as the recommended dosage for **neutralizer**.

Use a flat headed screw driver to turn the dial to the correct setting.

Operation



Turning on the lab washer

- Make sure the spray arms are not blocked.
- Close the door.
- Press the "On/Off" button to turn the machine on.

Starting a program

 Turn the program selector clockwise or counterclockwise to the desired program. Refer to the Program Guide for more details.

The wash temperature of the selected program is shown in the display (except for "Rinse" and "Drain"). The "Start" indicator will flash.

- Select the "Drying" button, if necessary.
- Press the "Start" button. The actual temperature is displayed. The "Start" indicator will illuminate.

Drying

"Drying" may be selected as an additional feature once a program has been selected (except in the "Rinse" and "Drain" programs). Drying is phased over 10 minutes. The total running time of the program lengthens accordingly.

Once the program has started, all other programs are blocked. If the program selector is turned to another program during the running program, the values shown in the display disappear. The values appear again if the program selector is turned back to the running program.

Press the "Display" button to alternate between elapsed time and actual time in the display during the program.

Changing a program

If the selected program has not yet been started:

- Turn the program selector to the new program.
- Select the "Drying" feature, if necessary.
- Press the "Start" button.

Program sequence display

The current step of a wash program is indicated by a program sequence display.

At the end of a program

When the "Complete" indicator illuminates, the "Start" indicator goes out and the display shows a "0", the program has ended. A buzzer will sound for 30 seconds. (The buzzer function can be changed; see "Programming special functions.")

Turning off

 Press in and release the "On/Off" button to turn the machine off.

Canceling a program

Once a program is running, it should only be canceled in extreme cases, e.g. when glassware is knocking against each other and has to be rearranged.

- Turn the program selector to "Stop". The program is canceled after 2 seconds.
- Open the door with the "Door" button.

Caution! Water and items in the machine may be hot. Danger of burning or scalding.

- Rearrange or remove the items (wear protective gloves where necessary.)
- Replenish powdered detergent if necessary.
- Close the door.
- Select the "Drain" program to allow the waste water to drain.
- Select and start the program.

Program guide

Program	Program cycle					
	Pre- wash	Main wash	Interim rinse 1	Interim rinse 2	Final rinse	Drying (Optional function)
A SHORT		X 70°C/5'		(X) DOS 3 (DI)	X 70°C/3' DI	(X)
B REGULAR		X 70°C/5'	X DOS 3	(X) (DI)	X 70°C/3' DI	(X)
C EXTENDED	Х	X 70°C/5'	X DOS 3	(X) (DI)	X 70°C/3' DI	(X)
ੇਦੂ DRAIN						
<u> </u> RINSE			Х			

X = Sections included in a program (with temperature/temperature holding time)

A second interim rinse can be activated (see "Programming special functions").

DOS 3 = Neutralizer dosage

DI (Aqua destillata) = distilled water

Note

- Unoccupied program selector positions are displayed by a bar (-) in the middle display element.

1. Selecting a second interim rinse

A second interim rinse can be programmed to improve interim rinsing in all programs (except "Rinse").

- Turn the program selector to "STOP" ⁽).
- Turn the machine off.
- Press and hold "Display" and "Start". At the same time, turn the machine on with the "On/Off" button.. The displays shows the current program status "P...". The "Fill/Drain" indicator lights.
- Press the "Drying" button once. "E01" appears in the display.
- Turn the program selector to the 5-o'clock position.
 The display shows either "50" or "51".
 "50" = without Interim rinse II.
 "51" = with Interim rinse II.
- Press "Drying" to change from "50" to "51" or vice versa.
- Press the "Start" button. "SP" appears in the display.
- Press the "Start" button again. The change has been saved.
- Please note the changed setting:

2. Activating Delay Start and setting the Delay Start time

The start of a wash program can be delayed up to 24 hours in 30 minute increments.

Note:

The Delay Start should only be selected in programs "Regular" and "Extended". The "Short" program, cannot provide a good cleaning result when Delay Start is selected. The washing temperatures and time is not sufficient to clean dried-on items.

a) Activating Delay Start

- Turn the program selector to "Stop" ⁽
- Turn the machine off.
- Press and hold "Display" and "Start". At the same time, turn the machine on with the "On/Off" button. The display shows the current program status "P...". The "Fill/Drain" indicator will illuminate.
- Press the "Drying" button once. "E01" appears in the display.

 Turn the program selector clockwise to the 8-o'clock position.
 The display shows either "80" or "81".
 "80"= Delay Start not activated
 "81"= Delay Start activated

- Press "Display" to change from "80" to "81", or vice versa.
- Press the "Start" button. "SP" appears in the display.
- Press the "Start" button again. The change has been saved.
- Please note the changed setting:

b) Setting the Delay Start period

The Delay Start period (from 30 minutes to 24 hours) must be set before a program is started.

 After selecting a program, (see "Starting a program"), press the "Display" button or hold it in until the required value is displayed. The "Display" indicator illuminates.

After the "Start" button is pressed, the Delay Start period will count down in the display until the program automatically starts.

3. Setting the buzzer

A buzzer can be set to signal one or both of the following:

- End of program = continuous buzzer
- Error = rhythmic buzz
- Turn the program selector to "STOP" .
- Turn the machine off.
- Press and hold "Display" and "Start".
 At the same time, turn the lab washer on with the "On/Off" button. The displays shows the current program status "P...".
 The "Fill/Drain" indicator illuminates.
- Press the "Drying" button once.
 "E01" appears in the display.
- Turn the program selector clockwise to the 10-o'clock position.
 The display shows a number between "100" and "103".
 "100" = Buzzer is turned off
 "101" = End of program
 - (factory setting)
 - "102" = Error
 - "103" = All functions (End of program, Error).

- Press and hold "Display" until the desired value appears in the display.
- Press the "Start" button. "SP" appears in the display.
- Press the "Start" button again. The change has been saved.
- Please note the changed setting:

To turn the buzzer off

■ Turn the program selector to "STOP" ⁽).

4. Restoring the factory settings

- Turn the machine off.
- Press and hold "Display" and "Start".
 At the same time, turn the machine on with the "On/Off" button.
 The display shows the current program status "P...".
 The "Fill/Drain" indicator lights.
- Press "Drying" seven times.
 "E07" appears in the display.
- Turn the program selector to any position (except "Stop").
 The display shows either "00" or "PP".
 "00"= (factory setting; electronic was not programmed).
 "PP"= (electronic was programmed).
- If "PP" is displayed, press "Display" to change from "PP" to "00".
- Press the "Start" button. "SP" appears in the display.
- Press the "Start" button again. Values which had been changed are now reset.

If the hardness level setting in the water softener had been changed, this will reset to the factory setting of 340 ppm (19 gr/gal). This will need to be reset to suit the hardness level in your area.

Filter combination

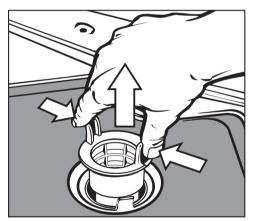
The machine must not be used without all the filters in place. The filters protect the circulation pump from damage caused by foreign objects.

The filter combination in the base of the wash cabinet should be inspected regularly and cleaned if necessary.

Caution:

Watch out for sharp objects which could cause injury.

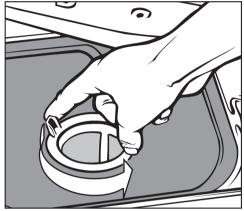
Cleaning the coarse filter



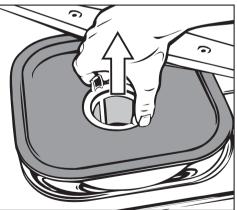
- Press the two tabs together. Remove and clean the coarse filter.
- Put the clean filter back in position and press until it clicks in place.

Cleaning the fine, flat and micro-fine filters

- Remove the coarse filter.
- Remove the fine filter (if fitted) from between the flat and the micro-fine filters.



To unscrew the micro-fine filter, grasp the two tabs and turn counterclockwise twice.

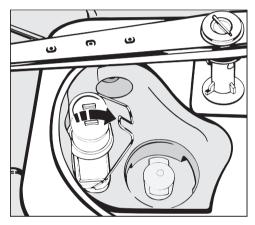


- Remove both filters together.
- Clean the filters.
- Replace the filter combination in reverse order. The flat filter must lie flat in the base of the wash cabinet.

Cleaning the non-return valve and drain pump

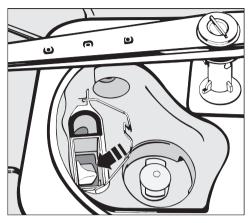
If water has not been pumped away at the end of a program, the drain pump or the non-return valve may be blocked.

- Turn off the washer.
- Remove the filter combination from the wash cabinet.



- Tilt the locking clamp to the side.
- Pull out the non-return valve and rinse under running water.

The drain pump is located beneath the non-return valve (see arrow).



- Before returning the non-return valve, check that the drain pump is not blocked. Spin the propeller several times in both directions to check for obstructions.
- Carefully refit the non-return valve and secure it with the locking clamp. Refit and lock the filter in place.

For safety reasons the load should be washed again.

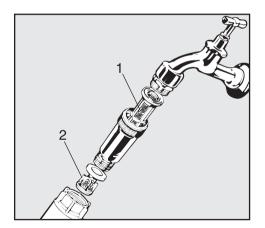
Cleaning the filters in the water inlet

Filters are incorporated in the screw connection of the water inlet hose to protect the water inlet valve. If these filters become dirty, they need to be cleaned, otherwise insufficient water flows into the wash cabinet.

The plastic housing of the water connection contains an electrical component. It must not be submerged in water.

To clean the filters

- Disconnect the machine from the main electrical supply.
- Turn off the water supply.
- Unscrew the water inlet hose.



Clean the large area filter, 1, and fine filter, 2, replace with new filters, if necessary.

- Replace filters and the seal. Make sure they are sitting correctly.
- Reconnect the hose to the water inlet, making sure that it goes back on straight.
- Open the water tap carefully. If there is a leak, tighten the connections.

Cleaning the control panel

The control panel should only be cleaned with a damp cloth or a suitable cleaner for use on plastic materials.

▲ Do not use abrasive cleaners, glass cleaners or all-purpose cleaners! They will damage the control panel.

Cleaning the front of the machine

Use a cleaner suitable for the type of material the machine front is fitted with.

A Do not use detergents containing ammonia or thinners.

With the aid of the following guide, minor problems can be fixed without a service call.

What if	Possible fault	Fix
the machine does not start?	The door is not properly closed.	Close the door firmly.
	The fuse is defective or the breaker has tripped.	Make sure the circuit breaker has not tripped.
a few minutes after starting a program, the "Fill/Drain" indicator flashes and the fault code "FE" appears in the display?	 The water valves are closed. The filters in the water inlet hose are dirty. Water pressure is too low. 	 Turn the program selector to "Stop" (the fault code goes out). Press the "On/Off" button to turn the machine off. Open the water valve or clean the filters (see "Machine care"). Turn the machine on again and reselect the program.
the wash cycle finishes too early, the "Fill/Drain" indicator flashes, and the fault code "F A" appears in the display?	 The drain hose is kinked. The drain pump is blocked. 	 Turn the program selector to "Stop" (the fault code goes out). Press the "On/Off" button to turn the machine off. Remove any kinks in the hose. Clean the drain pump (see "Machine care"). Turn the machine on, run the drain program then restart the original program (see additional program "Drain" and "Turning on").

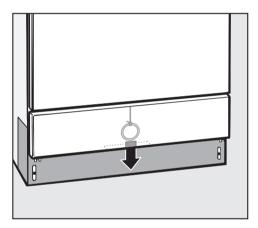
Frequently asked questions

What if	Possible fault	Fix
water in the wash cabinet is not heated, the program sequence lasts too long and a fault code appears in the display: "F01 - F02"?	This machine has a resettable heater limiter which will switch off the heater in case of over-heating. This could be caused if large articles cover the heating elements or if the filters in the wash cabinet are blocked.	 Remove the cause of the fault. Remove the service panel (see "Electrical connection"). Press the reset button on the right side of the temperature sensor. If this switch trips repeatedly, contact the Miele Technical Service Department before further use.
a fault message is caused by a possible malfunction?		 Turn the program selector to "Stop" ((the fault code goes out).) Press the "On/Off" button to turn the machine off. Turn the machine on again and reselect the program. If the fault code "F" appears in the display, or if you experience further difficulty, contact the Miele Technical Service Department.

Opening the machine during a power failure

The emergency release should only be used when the door cannot be opened normally, e.g. in the case of a power failure.

- Turn the program selector to "Stop" ⑦.
- Press the "On/Off" button to turn the machine off.



Reach behind the service panel and pull the ring of the emergency release downwards.

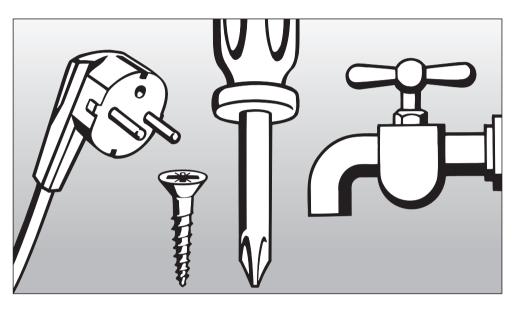
After Sales Service

In the event of a fault which you cannot correct yourself, please contact the Miele Technical Service Department

- USA 1-800-991-9380 techserv@mieleusa.com
- CDN 1-800-565-6435 service@miele.ca

Please quote the model and serial number of your machine. This information can be found on the data plate located on the rear of the machine.





INSTALLATION INSTRUCTIONS

Download from Www.Somanuals.com. All Manuals Search And Download.

Disposal of the packing material

The protective packing materials are environmentally safe and can be recycled.

Ensure that any plastic wrappings, bags, etc. are disposed of safely and kept out of the reach of children. Danger of suffocation!

Disposal of the appliance

Appliances contain materials which can be recycled. Please contact your local authorities about recycling in your area.

Ensure that the machine presents no danger to children while being stored for disposal. See "Important Safety Instructions".

Please refer to the installation diagram supplied with the machine.

Furniture and fittings installed near the machine must be of a commercial standard (able to withstand the effects of steam).

Installation options

- Free-standing
- Undercounter

The machine can be installed under a continuous counter or sink drain. The recess must be at least 60 cm wide, 60 cm deep and 82 cm high.

Positioning and securing the machine

To ensure stability, the machine must be aligned and screwed to the counter.

- Open the door.
- Secure the machine to the front edge of the worktop using the screws to the left and right of the front trim.
- When not mounted undercounter, floor mounting brackets must be used.

Do not use silicone sealant to seal the gaps between the machine and any neighboring units. This will hinder ventilation to the circulation pump.

Steam Deflector (protects the countertop)

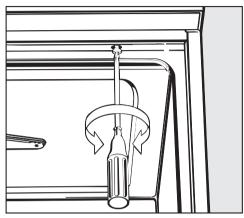
Depending on the requirements for an undercounter installation, a steam deflector can be ordered from the Miele Technical Service Department.

The underside of the countertop is protected from steam damage by a stainless steel plate.

Removing the lid (if necessary)

If necessary, remove the lid from the machine to make installation possible.

Open the door.



- Remove the fixing screws on the left and right sides using a phillipshead screwdriver.
- Pull the machine lid approx. 5 mm forwards, lift it upwards and remove.

Important for machines with steam condenser (depending on model)

To prevent countertop damage by steam, the supplied self adhesive protective foil (25 x 58 cm) must be placed underneath the countertop near the steam condenser.

Water inlet

- The machine must be connected to the water supply in accordance with local and national regulations.
- The washer is constructed so it may be connected to a supply without an extra non-return valve, unless required by code.
- An acceptable water pressure (flow rate) is 10 - 147 psi. However, the recommended pressure is 25 - 60 psi.

If the water pressure is below 30 psi, the fill time will take longer. If the "Fill/Drain" fault code "F..E" is displayed, contact the Technical Service Department.

The machine is supplied to be connected to a standard cold (coded blue) or hot (coded red) water supply to a maximum temperature of 158 °F (70 °C.)

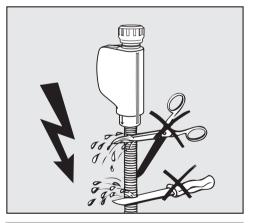
Connect the water intake hoses to the cold and hot water faucets.

If no hot water supply is available, the hot water intake hose with the **red** marking needs to be connected to cold water by a y-adapter.

For a DI water connection (H_2O pure), see the next page.

- Water valves with ³/₄" male hose thread are to be provided on site. They should be easily accessible so the water supply can be turned off if necessary.
- The inlet hoses are 5 ^{1/2} feet (1.7 m) long, terminating in a ³/₄" female hose thread. **The water inlet filters in the threads must not be removed.**
- Large surface area filters are enclosed in the kit supplied with the machine.

Install these filters between the water valve and the water inlet hose (see illustration in "Machine Care/Cleaning the filters in the water inlet"). The large surface area filter for DI water is made from stainless steel and can be recognized by its matte surface.



A Do not cut the inlet hose or damaged it in any way.

■ See the supplied installation diagram.

DI-Water connection

The machine comes with a standard connection for a pressure-resistant system. The recommended water pressure (flow rate) is 25 - 60 psi however, water pressure of 10 - 147 psi is acceptable.

The DI pressure-tested hose (marked "H₂O pure") with a ³/₄" hose thread must be connected to the on-site water valve for DI purified water.

If the DI water connection is not used, the electronics needs to be reprogrammed by a Miele technician. The water intake hose remains at the rear side of the machine.

Drainage

- The drainage system is fitted with a non-return valve which prevents dirty water from flowing back into the machine via the drain hose.
- The machine should preferably be connected to a **separate** drainage system onsite.

If separate drainage is not available contact your Miele application specialist for advice.

The onsite drain connection point should be located between 1 ft.

(0.3 m) and 3 ft. (1 m) **above the lower edge of the machine**.

If it is lower than 1 ft. (0.3 m), lay the hose in a curve at a height of at least 1 ft. (0.3 m).

The drainage system must be able to take a minimum drainage flow of 16 l/min.

- The drain hose is approx. 5 ft. (1.5 m) long, is flexible and has an internal diameter of ⁷/₈ in. (22 mm). It must not be shortened. Hose clamps are supplied for securing it in position.
- A longer drain hose (up to 12 ft. [4 m] long) is available to order from the Miele Technical Service Department.
- The drainage system must not exceed 12 ft. (4 meters).
- See the supplied installation diagram.

All electrical work must be performed by a qualified person in accordance with local and national safety regulations.

The machine comes equipped for connection to a 208 V, 60 Hz, 3 phase power supply. It is equipped with a 6 ft. long, 12/4 AWG power cord, without a plug. A plug, rated for the required power which will fit the receptacle, is to be supplied by the electrician doing the installation. It should be connected to the main power supply.

Voltage:	208 V, 3 phase
Frequency:	60 Hz
Rated Load:	6 kW
Circuit breaker:	3 x 20 A

Black : connect to L1 (hot)

Red: connect to L2 (hot)

White: connect to L3 (hot)

Green: connect to GND (ground)

It can be converted to use a single phase power supply in accordance with the conversion and wiring diagram. The cord must be changed from a 12/4 AWG to a 10/3 AWG. Contact Miele Technical Service for more information

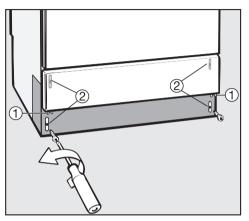
Voltage:	208 V, 1 phase
Frequency:	60 Hz
Rated Load:	6 kW
Circuit breaker:	2 x 30 A

- Connection should be made via a suitable isolator, with an "On/Off" button easily accessible for servicing work.
- A damaged power cord must only be replaced with a genuine Miele cord by a Miele service technician.

WARNING THIS APPLIANCE MUST BE GROUNDED

Grounding connection

■ The ground lead must be connected to the screw connection point (marked with the ground symbol ⇒) at the back of the machine.



The machine must only be operated with the voltage, frequency and fusing shown on the **data plate** located on the rear of the machine, and on the plinth (behind the service panel).

The **conversion diagram** and the **wiring diagram** is secured to the inner side of the service panel.

Removing the service panel

Disconnect the machine from the main electrical supply.

- Remove the fixing screws, ①, from the service panel.
- Hold the service panel at both sides and pull upwards.
- Unscrew the facing, ②. Remove the plastic protective cap.
- See the supplied installation diagram.

Re-assembling the service panel

Refit the plastic protective cap, facing and service panel in the reverse order to which they were removed.

Technical data

	English		Metr	ic	
Height:	33 ^{1⁄2} " (32	^{1/} 2")	85 (82)	cm	
Width:	23 1/2 "		60 cr		
Depth:	23 1/2 "	3 1/2 "		60 cm	
Voltage:	208 V				
Power cord	approx. 5' 11"		1.8 m	1.8 m	
Water pressure (flow r Recommended Acceptable	ate): 25 - 60 psi 10 - 147 psi			1.72 - 4.13 bar .7 - 10 bar	
Cold or Hot water connection:	up to max. 158°F		70 °C	70 °C	
D1 water connection: Recommended Acceptable	25 - 60 psi 10 - 147 psi			1.72 - 4.13 bar .7 - 10 bar	
Delivery head:	min. 12" max. 39 ³ / ₈ "		0.3 m 1 m	0.3 m 1 m	
Drainage length:	max. 13' 1"		4 m	4 m	
Water intake hose	approx. 5' 7"		1.7 m	1.7 m	
Drain hose:	approx. 4' 7"		1.4 m	1.4 m	
Noise level in dB (A): Sound pressure level Free stand unit: Built under counter:	LpA	At mach 64.8 62	hine	1 m (39 ³ / ₈ ") away 52.9 50.1	

When contacting the Technical Service, please quote the model and serial number of your appliance.



Miele, Inc. USA



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Technical Service & Support

Nationwide

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This paper has been bleached without the use of chlorine.

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