

G 7881 Dental Thermal Disinfector
Installation and In-service Manual



1. Examine exterior packaging for damage

- If damaged, notify carrier and then please call 800-666-0486 for Miele's Returns department.

2. Uncrating instructions

- Carefully cut the two packing straps.
- Lift cardboard box off of machine.
- Properly dispose of all packaging materials. All of the protective packaging material is environmentally safe and can be recycled.
- Carefully lift machine from pallet. Do not lift machine by its lid!

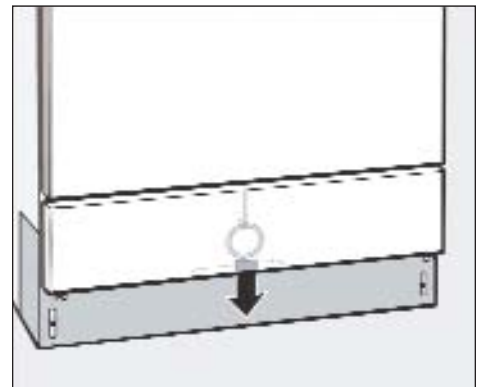
3. Remove Operating Instructions manual from the rear of the machine. Save for reference.

Note: You will need the manual and installation diagram for the remaining steps.

4. Open machine door via the emergency release and remove accessory items

(i.e. water inlet filter, drain hose, warranty card, water softener funnel, red empty 5L neutralizer container, steam deflector, etc.)

- Slowly pull the emergency release cable located at the bottom of the machine (see illustration).



5. Remove styrofoam blocks from upper basket support and discard

6. Connect drain hose to the rear of the machine using enclosed hose clamp

All plumbing work must be performed by licensed professionals and adhere to all applicable Local, State, and Federal Codes. Note: plumbing code in certain areas may require the use of the optional Cool Down Kit (Item # Cool Down Kit) to reduce the temperature of the effluent. Contact Miele Technical Service for ordering and installation information.

- 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 drainage system must be able to take a minimum drainage flow of 4 gal/min.
 - 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 drain hose is approx. 5 ft. (1.4 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.
- The drainage system must not exceed 12 ft. (4 meters).

The machine should preferably be connected to a separate drainage system such as a standpipe or floor drain. However, if local code permits the drain hose can be connected to an under-sink 3/4" tailpiece.

7. Either attach proper plug to power cord or hardwire to electrical supply

All electrical work must be performed by licensed professionals and adhere to all applicable Local, State, and Federal Codes.

The machine comes equipped for a connection to 208 V, 60 Hz, 1 phase power supply. It is equipped with a 6ft. long, 10/3 AWG power cord, without a plug. The installer may either install an electrical plug or hardwire the machine into an electrical junction box that has been installed on the wall or in a cabinet adjacent to the machine. It should be connected to the main power supply.

Voltage:	208 V, 1 phase Possible conversion to three-phase - Contact Miele Technical Support for additional information. The conversion diagram and the wiring diagram is secured to the inner side of the service panel.
Frequency:	60 Hz
Rated Load:	60 kW
Circuit Breaker:	2 x 30 A
Black:	Connect to L1 (hot)
White:	Connect to L2 (hot)
Green:	Connect to GND (ground)

WARNING – THIS APPLIANCE MUST BE GROUNDED

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).

**8. If applicable, connect the optional DOS G 60/1 power supply and feed hose
(Please refer to DOS G 60/1 Installation Instructions that are shipped with the unit)**




9. Installation & activation/deactivation of the water intake connections

All plumbing work must be performed by licensed professionals and adhere to all applicable Local, State, and Federal Codes.




The Miele G 7881 Dental Disinfector is equipped with both a DI Water intake (marked "H2O PUR") hose and a Cold Tap Water intake (marked with a blue sticker) hose. Leading instrument manufacturers recommend a DI water rinse as the final processing step prior to sterilization. Rinsing with DI water ensures the elimination of detergent residues and naturally occurring minerals which could lead to instrument stains and corrosion. However, if water quality is not an issue, the machine can be installed using the Cold Tap Water intake only (see below).

Acceptable water pressure (flow rate) for both intake valves: 10-147 psi each
Recommended water pressure (flow rate) for both intake valves: 25-60 psi each

- DI Water Intake: ¾"(19 mm) GHT female hose thread, connected to external DI water supply source
- Cold Tap Water Intake: ¾"(19 mm) GHT female hose thread, connected to cold tap water source
- Use the proper inline cartridge filter: Matte finish for the DI intake, chrome finish for the Cold Tap intake




1. Turn off the machine with the "On/Off" button.
2. Turn the program selector to the "Stop" ⏹ position.
3. Press and hold the "Display"  and "Start"  buttons at the same time.
4. Simultaneously turn the machine on with the "On/Off" button.
The current program status "P..." will appear in the display and the "Fill/Drain" indicator will illuminate.
5. Press the "Drying"  button once. "E01" (programming level 1) will appear in the display.
6. Turn the program selector one switch position counter-clockwise (11 o'clock position).

If machine is installed with both the DI Water & Cold Tap Water intakes:

7. Press the "Display"  button as many times as necessary until the display shows the number "110."
Once the number "110" has been reached the G 7881 will activate the DI Intake Valve for the final rinse.
8. Press the "Start"  button. "SP" will appear in the display.
9. Press the "Start"  button again.

OR:

If machine is installed with only the Cold Tap Water intake:

7. Press the "Display"  button as many times as necessary until the display shows the number "111."
Once the number "111" has been reached the G 7881 will deactivate the DI Intake Valve.
8. Press the "Start"  button. "SP" will appear in the display.
9. Press the "Start"  button again.

The inlet hose must not be shortened or damaged in any way.

10. Adjust the feet to the proper height/Install machine on solid non-carpeted surface

- Undercounter
Note: Removal of lid not necessary for all undercounter installations.
 - ♦ Open the door, remove fixing screws on the left and right sides using a Phillips head screwdriver.
 - ♦ Pull the machine lid approx. 5mm forwards, lift it upwards, and remove.
 - ♦ Adjust feet to proper height.
 - ♦ Slide machine into place, making sure machine is level in all directions.
 - ♦ Secure machine to the front edge of the worktop using screws to the left and right of the front trim.
Do not use silicone sealant in gaps between the machine & neighboring units.
 - ♦ Secure machine to countertop, making certain to not pinch hoses.
- Freestanding
 - ♦ Use Mounting Kit (Item #00253531)

11. Install the Steam Deflector if applicable

Note: A Steam Deflector protects the countertop and comes packaged with the unit.

12. Test the water hardness and activate softener if necessary

Note: If not using water softener, please set and save the water softener setting at 0.

Before using the machine for the first time the water softener should be programmed according to the hardness of the incoming water. You can determine water hardness with a simple test kit or by contacting your local water authority.

Note: the G 7881 is set at the factory for a water hardness level of 19 gr/gal (340 ppm). If your hardness level is other than the factory default then the G 7881 must be reprogrammed to the proper setting. Reference the Water Hardness Table below for the correct value.

Water Hardness Table

Settings 0-20	gr/gal 1-20	ppm CaCO ₃
0	1	20
0	2	40
0	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

Settings 21-40	gr/gal 21-40	ppm CaCO ₃
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
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

ne neodishe	gr/gal 41-60	ppm CaCO ₃
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	51	920
52	52	940
53	53	950
54	54	970
55	55	990
56	56	1010
57	57	1030
58	58	1040
59	59	1060
60	60	1080

A. Filling the salt reservoir:

Only Miele approved reactivation salt should be used in the G 7881.

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.

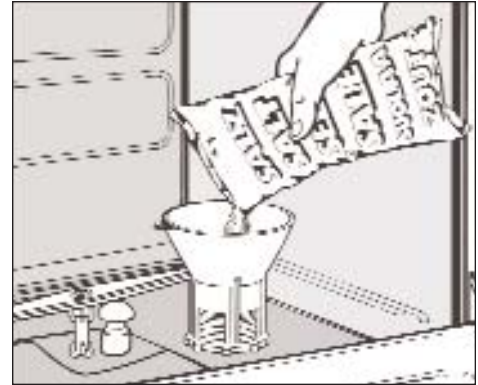
Inadvertently filling the sale reservoir with cleaning agent will damage the water softener. Before filling, make sure that you are using reactivation salt.

12. Test the water hardness and activate softener if necessary (continued)

A. Filling the salt reservoir

- 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. $\frac{3}{4}$ gallon of water.
- Place the funnel provided in place (see illustration).
 - 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.



B. Setting the water softener

- Turn off the machine with the "On/Off" button.
- Turn the program selector to the "Stop" (⏹) position.
- Press and hold the "Display" (min/c) and "Start" (⏻) buttons at the same time. Simultaneously turn the machine on with the "On/Off" button. The current program status "P..." will appear in the display and the "Fill/Drain" indicator will illuminate.
- Press the "Drying" (☰) button once. "E01" (programming level 1) will appear in the display.
- Turn the program selector one switch position clockwise (1 o'clock position). The number "19" will appear in the display (this indicates the factory water hardness setting in gr/gal, equivalent to 340 ppm).
- Press the "Display" (min/c) button as many times as necessary or hold it in until the required value (hardness level in gr/gal) appears in the display. Once the number "60" has been reached the counter will begin again at "0".
- Press the "Start" (⏻) button. "SP" will appear in the display.
- Press the "Start" (⏻) button again.

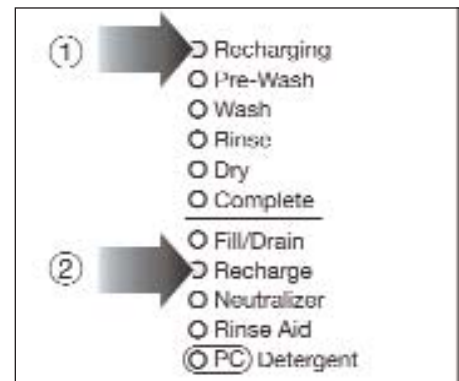
The setting will now be stored in memory. The display will go out. For future serving, it is useful to make a note of your water hardness level.

- Enter your water hardness level here:
 _____ gr/gal or _____ ppm

C. Salt Indicator (see illustration)

Reactivation takes place automatically during a program. The "Recharging" indicator (#1 in illustration) illuminates.

When the salt reservoir is empty, the "Recharge" indicator (#2 in illustration) illuminates to remind you to fill the reservoir.





13. Prime the pumps



Note: Only use detergent and neutralizer recommended by Miele.

Take care when handling liquid agents and additives as they may contain irritant or corrosive ingredients. Follow the manufacturer's safety instructions and relevant Health and Safety procedures carefully. Wear protective gloves and goggles.

A. Priming the neutralizer dispensing system

- Turn the program selector to the "Stop" ⏹ position.
- Turn off the machine.
- Press and hold the "Display"  and "Start"  buttons at the same time. Simultaneously turn the machine on with the "On/Off" button.

The current program status "P..." will appear in the display and the "Fill/Drain" indicator will illuminate.

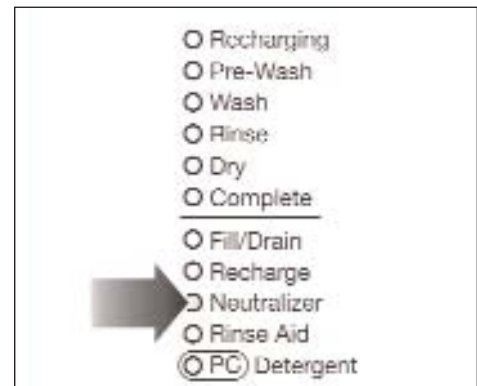
- Press the "Drying"  button twice, "E02" (programming level) will appear in the display.
- Turn the program selector to the 5 o'clock position. "do3" appears in the display.
- Press the "Display"  button. The dispensing system will be primed automatically. "do3" will appear in the display when priming is finished.

Note: Run the "Rinse" program to dilute and drain away any agents that may remain in the wash cabinet every time the dispensing system has been primed.

B. Refilling the neutralizing agent

When the "Neutralizer" indicator illuminates (seen right)





- Replace the current neutralizer container with a full one.
- The indicator light should go out.
- If the container has been allowed to run dry, the light will not go out until the priming process is performed.



C. Setting & priming the optional DOS G60/1 detergent dispensing system




As a separate option, the G 7881 can be fitted with the DOS G60/1 liquid detergent dispenser. The DOS unit is supplied with its own installation instruction manual. Follow the instructions for connecting the dispensing option. Once connected to the G 7881 secure the detergent supply tube in the detergent bottle.

Setting the detergent dosage

- Turn the program selector to the "Stop" ⏹ position.
- Turn off the machine with the "On/Off" button.
- Press and hold the "Display"  and "Start"  buttons at the same time. Simultaneously turn the machine on with the "On/Off" button.
- The current program status "P..." will appear in the display and the "Fill/Drain" indicator will illuminate.
- Press the "Drying"  button twice. "E02" (programming level 2) will appear in the display.
- Turn the program selector to "Wash" (2 o'clock position).
- Press the "Display"  button as many times as necessary to set the dosage amount .40 (50 ml).

13. Prime the pumps (continued)

C. Setting & priming the optional DOS G60/1 detergent dispensing system (continued)

- Turn the program selector to the 1 o'clock position. "do1" appears in the display.
- Press the "Display"  button. The dispensing system will be primed automatically. "do1" will appear in the display when the priming is finished. Ensure that priming has occurred by visually inspecting machine chamber for dispensed detergent. If priming has not occurred, repeat priming step.
- Press the "Start"  button. "SP" will appear in the display.
- Press the "Start"  button again. The setting will now be stored in memory. The display will go out.
- After priming, run the "Rinse" program to remove detergent residues from the wash chamber.

Note: If detergent is allowed to become empty, reference G 7881 Operating Instructions for priming the system.

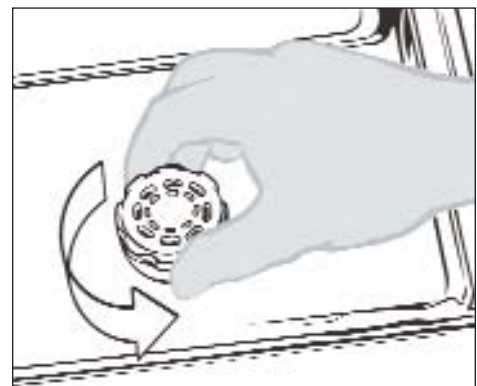
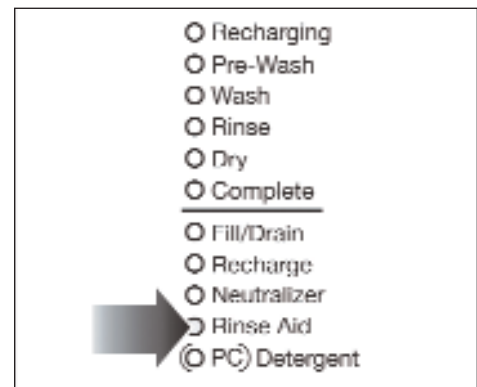
14. Add the rinse aid

Rinse aid is necessary to ensure water does not cling to and leave marks on items during the drying phase. It also enables items to dry faster after they have been washed. Rinse aid is poured into the storage reservoir and a pre-set amount is dispensed automatically. The rinse aid reservoir holds approximately 180 ml.

Inadvertently filling the rinse aid reservoir with detergent (including liquid detergent) will damage the reservoir. To avoid damage and ensure proper results only use Miele approved rinse aid.

A. Adding rinse aid

- The reservoir must be filled with rinse aid when the "Rinse Aid" indicator illuminates (as seen in illustration). There is also a level indicator for the rinse aid reservoir on the inside of the door.
- Open the door fully.
- Unscrew the cap (see illustration).

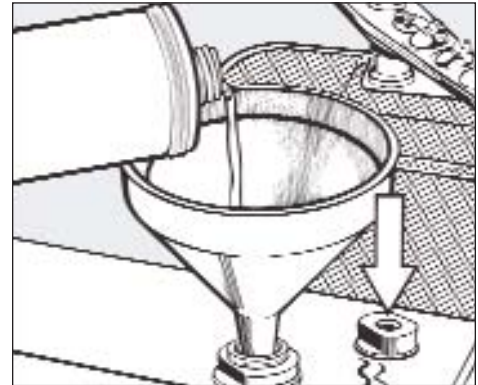


14. Add the rinse aid (continued)

A. Adding rinse aid

Pour rinse aid into the storage container until the level indicator is dark (see arrow in the illustration). Use a funnel if necessary.

- Screw the cap back on and wipe up any spilled rinse aid. This prevents over-foaming from occurring during the next program.
- Wait until the "Rinse aid" indicator on the control panel illuminates before adding more rinse agent.



B. Setting the dosage

- The dosage adjuster in the opening as settings from 1 to 6 (1-6ml) It is factory-set to 3 (3ml).
- Use a higher setting if spots are left after drying.
- If surfaces become cloudy and/or streaky, use a lower setting.



15. Load baskets & inserts into the machine

The G 7881 normally requires a top and bottom basket. Various inserts and special baskets are also available for a wide variety of instruments.

A. Preparation

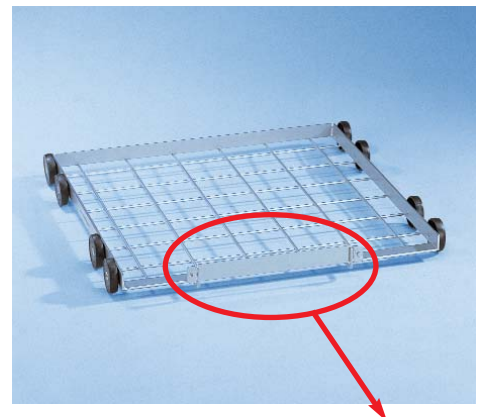
- Ensure that no acid or solvent residue, especially hydrochloric acid or chlorides, gets into the wash cabinet.

B. Load the bottom basket

- Insert lower basket with handle, circled in photo, facing out of the machine.
- Add all applicable inserts.

C. Load the top basket into the wash chamber

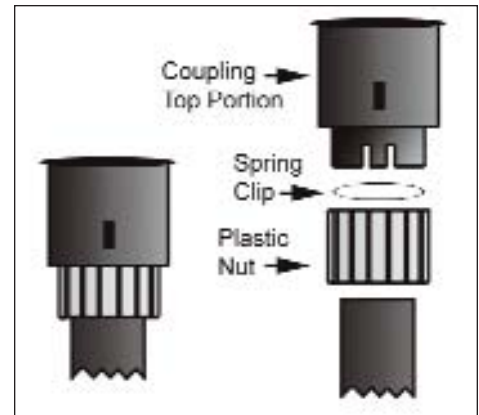
- Add all applicable inserts.



15. Load baskets & inserts into the machine (continued)

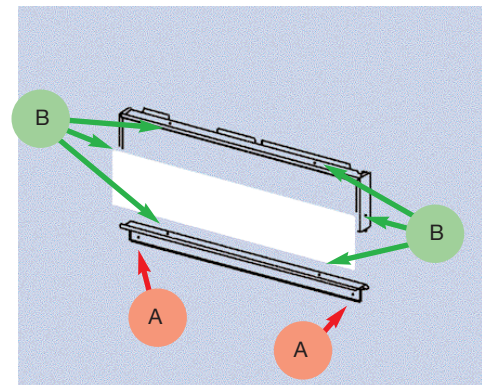
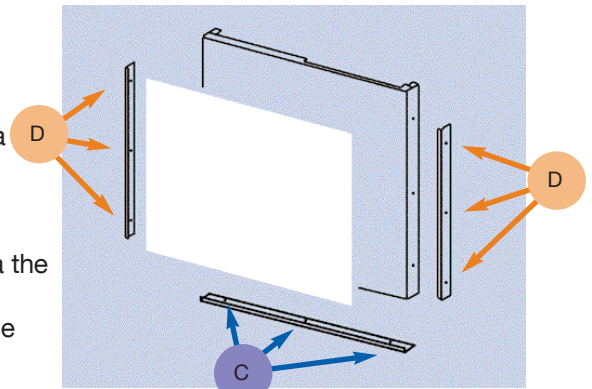
D. Adjust the top basket coupling

- Fully insert top basket, ensuring water coupling connects with water inlet in the top of the chamber. Not inserted into machine, this water coupling must be 4-5 mm higher than the water connection inlet. If it is not, loosen the plastic nut, push the adapter 4-5 mm higher than the water connection inlet, and tighten the plastic nut.



16. Décor panel mounting instructions (optional)

1. Remove the Lower Panel from the G 7881 via the 2 mounting screws (A).
2. Remove the Lower Panel Décor Frame mounting piece via 6 phillips head screws (B).
3. Slide out the Lower White Décor Panel and replace it with the laminate sheet.
4. Replace the Lower Panel Décor Frame mounting piece via the 6 phillips head screws (B). Set Lower Panel aside.
5. Remove the bottom piece of the Upper Panel Décor Frame via the 3 phillips head screws (C).
6. Open the machine door so side screws are accessible (D).
7. Remove both sides of the Upper Panel Décor Frame via the 3 phillips head screws on each side (D).
8. Slide out the Upper White Décor Panel and replace it with the laminate sheet.
9. Replace the sides of the Upper Panel Décor Frame via the 3 phillips head screws on each side (D).
10. Close the machine door so bottom screw holes are accessible (C).
11. Replace the bottom piece of the Upper Panel Décor Frame via the 3 phillips head screws (C).
12. Replace the Lower Panel on the G 7881 via the two mounting screws (A).



17. Run the program cycle. Program will take ~50 minutes.
If successful, the G 7881 is now ready to operate

Technical Data

Control Unit

Control system supplied with five standard programs:

Disinfection Vario 93°C/200°F

Disinfection 93°C/200°F

Wash

Rinse

Drain

Cleaning Mechanism

Rotary: Three multi-jet spray arms

Direct Injection: Using optional O 177/1 Upper Basket

Drying

Flash heat drying using standard sump heating element

Water Softener

Built-in, with adjustable water hardness

Automatic reactivation

Detergent Dispensing

Machine is equipped with a standard powder door cup

An optional automatic dispensing module is available for dispensing of liquid detergents

Main Circulation Pump

Circulation: 106 gal/min (400 l/min)

Construction: ABS plastic impeller and housing

Cabinet and Chamber

Materials and Construction:

Exterior: White front panels standard, with optional stainless steel panel or custom panels available

Interior: Type 304 SS sides, back, and top

Type 316 SS bottom and door

Plumbing Connections

One or two water connections as follows:

Tap a. Cold water for wash cycles. 5'5" connection hose with 3/4" hose thread unions

Minimum flow rate of 2.5 gpm/10-147 psi (recommended 25-60 psi)

DI Source (use optional) b. 5'6" connection hose with 3/4" hose thread unions

Minimum flow rate of 2.5 gpm/10-147 psi (recommended 25-60 psi)

Drain Connections

Connection One 7/8" ID flexible drain hose, 4'7" long

Maximum drain height, 39.4"

Maximum drain length, 13'

Electrical Requirements

Single Phase 208 V, 60 Hz, 2 x 30 Amps

Three Phase 208 V, 60 Hz, 3 x 20 Amps (Available as an optional conversion)

Unit is equipped with a 5'11", 10 AWG, 3 wire, unterminated power cord

Units are CSA approved (certificate 1319665)

Dimensions

Interior: 18.5"H x 20.5"W x 20.5"D

Exterior: 33.46"H x 23.54"W x 24.0"D (Height is 32.28" without lid)

Noise Level

< 60 dBa

Customizable Décor Panels

Main Panel: 442 mm H x 586 mm W, 1.2 mm thick

Toe Kick Service Panel: 117 mm H x 586 mm W, 1.2 mm thick

Stainless Steel and select Laminate Décor Panels available through Miele. Custom panels available with a 6-8 week delivery time.

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