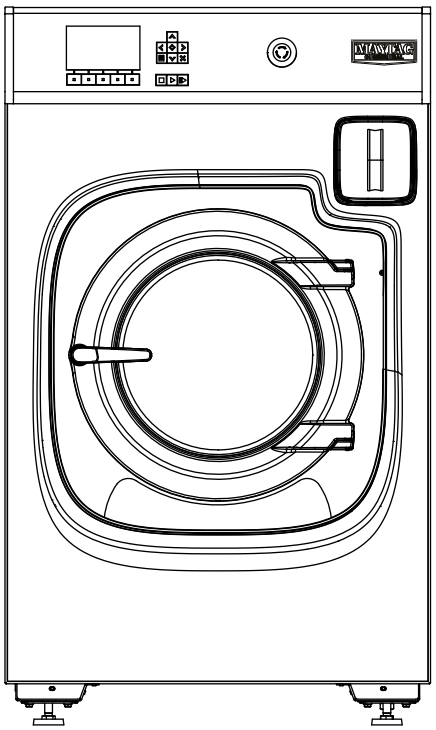
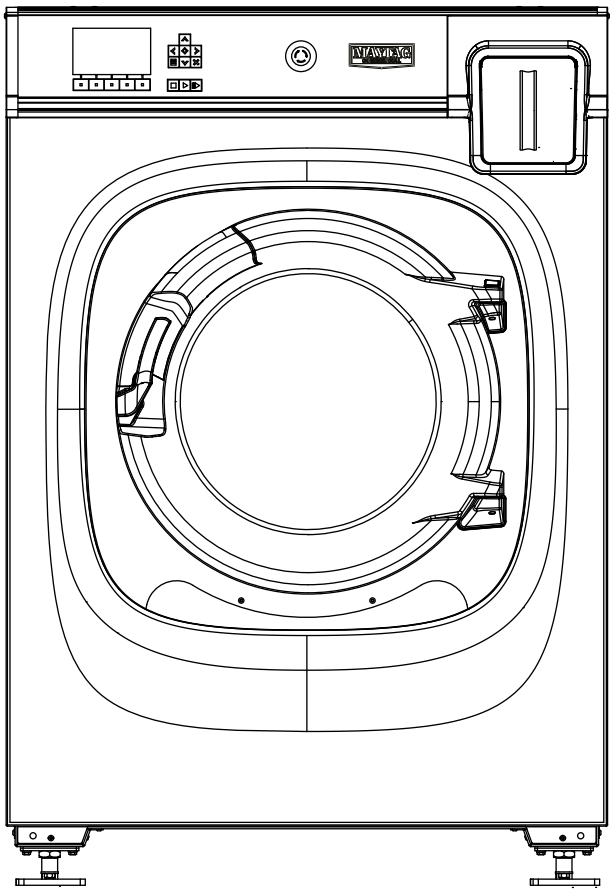
MAYTAG®
COMMERCIAL

INSTALLATION INSTRUCTIONS
COMMERCIAL WASHER-EXTRACTOR

MWS25, MWS35, MWS45, MWS55, MWS65, MWS85





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WASHER SAFETY

Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.

This is the safety alert symbol.
This symbol alerts you to potential hazards that can kill or hurt you and others.
All safety messages will follow the safety alert symbol and either the word "DANGER" or "WARNING."
These words mean:

⚠ DANGER — **You can be killed or seriously injured if you don't <u>immediately</u> follow instructions.**

⚠ WARNING — **You can be killed or seriously injured if you don't follow instructions.**

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: To reduce the risk of fire, electric shock, or injury to persons when using the washer, follow basic precautions, including the following:

- Read all instructions before using the washer.
- Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for 2 weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using the washer, turn on all hot water faucets and let the water now from each for several minutes. This will release any accumulated hydrogen gas. As the gas is flammable, do not smoke or use an open flame during this time.
- Before the washer is removed from service or discarded, remove the door or lid.
- Do not install or store the washer where it will be exposed to the weather.
- Do not repair or replace any part of the washer or attempt any servicing unless specifically recommended in this manual or in published user-repair instructions that you understand and have the skills to carry out.
- Do not wash or dry articles that have been previously cleaned in, washed in, soaked in, or spotted with petrol, dry-cleaning solvents, other flammable, or explosive substances as they give off vapors that could ignite or explode.
- Do not add gasoline, dry-cleaning solvents or other flammable, or explosive substances o the wash water. These substances give off vapors that could ignite or explode.
- The appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by a utility.
- Ventilation openings in the base shall not be obstructed by a carpet or similar object.
- The new hose-sets supplied with the appliance are to be used. Old hose-sets should not be reused.
- Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. Cleaning and user maintenance shall not be made by children without supervision. Children of less than 3 years should be kept away unless continuously supervised.
- This appliance is intended, but not limited, to be used in public areas.
- This washer/dryer is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning use of the dryer by a person responsible for their safety.
- Do not reach into the washer if the tub, agitator, or drum is moving.
- The appliance must be disconnected from its power source during service and when replacing parts.
- Do not tamper with controls.
- Fabric softeners, or similar products, should be used as specified by the fabric softener instructions.
- Only authorised spare parts shall be used in the event of failure.
- See "Electrical Requirements" section for earthing instructions.
- All service and installation operations shall be performed by a Maytag service person, qualified electrician or similarly qualified person.

SAVE THESE INSTRUCTIONS

IMPORTANT:

- The Circuit must be a dedicated circuit and may not be combined with any lighting circuit.
- Adequate grounding is essential to washer operation.
- Do not fuse the neutral or grounding circuit.

Some models and features depicted in this booklet may not be available in your region or country.

- Certain internal parts are intentionally not grounded and may present a risk of electrical shock only during service. Do not contact the inlet valve coil straps while the appliance is energized.
- This appliance must be connected to a grounded metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance.

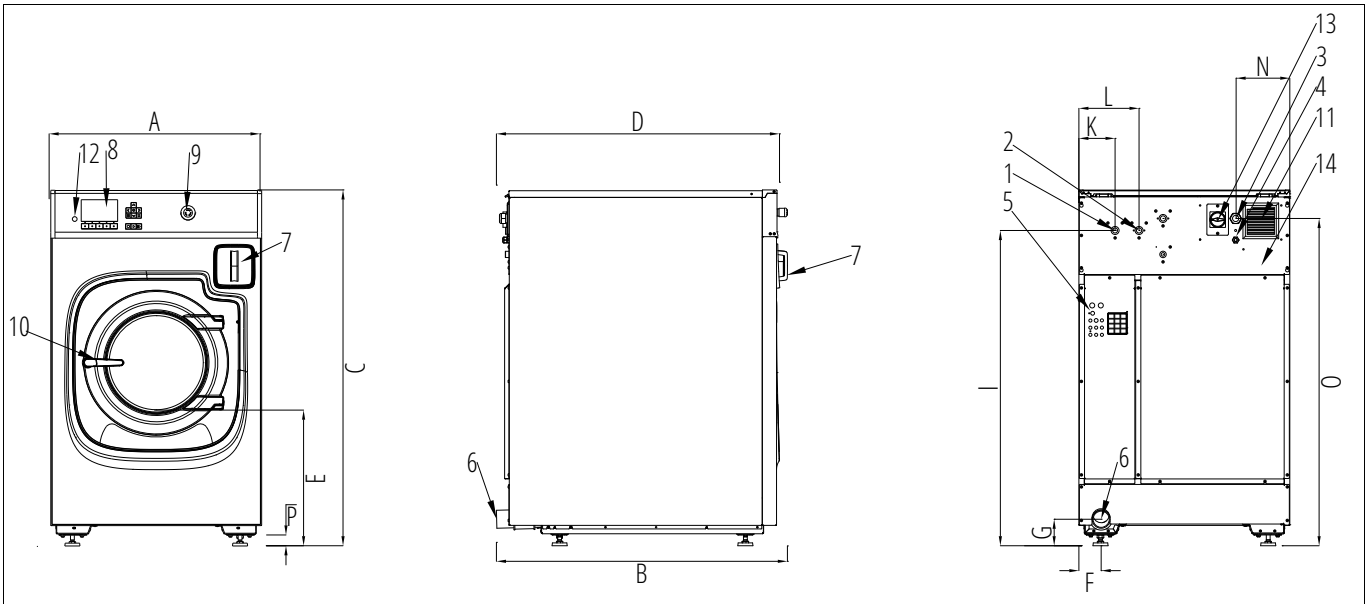
WASHER DISPOSAL

- This appliance is marked according to the European directive 2002/ 96/ EC on Waste Electrical and Electronic Equipment (WEEE).

1. DIMENSIONS AND TECHNICAL SPECIFICATIONS

Model	Cylinder Volume Cubic Feet (Liters)	Cylinder Diameter in (mm)	Cylinder Depth in (mm)	Dry Load Capacity lb (kg)	Maximum Spin (rpm)	Maximum Extract Force (G-force)	Sound Pressure (dB)
MWS25	3.6 (103)	24.8" (630)	13" (330)	25 (10)	1012	360	55-65
MWS35	5.4 (153)	24.8" (630)	19.3" (490)	35 (15)	1012	360	55-65
MWS45	6.4 (181)	24.8" (630)	22.8" (580)	45 (18)	1012	360	55-65
MWS55	8.5 (242)	27.6" (700)	24.8" (630)	55 (24)	961	360	55-65
MWS65	9.8 (277)	27.6" (700)	28.3" (720)	65 (28)	961	360	55-65
MWS85	12.9 (365)	35.4" (900)	22.6" (575)	85 (40)	847	360	55-65

1.1. MWS25 / MWS35 / MWS45



Front Side **Right Side** **Rear Side**

Fig. 1.1 Front, right and rear side view diagrams of MWS25, MWS35 and MWS45 models

1 Cold Water	**4** Grounding Connection	**8** Control Panel	**12** USB Port
2 Hot Water	**5** Liquid Detergent Connection	**9** Emergency Stop Button	**13** Power Switch
3 Electrical Connection	**6** Drain	**10** Door Handle	**14** Serial Plate
	7 Detergent Dispenser	**11** Electric Cabinet Cooling Fan Filter	

Table 1.1 Components of the front, right and rear side view diagrams of MWS25, MWS35 and MWS45 models

Dimensions MWS25

Unit	A	B	C	D	E	F	G	I	K	L	N	O	P
in	34.6"	38"	58.5"	36.6"	22.3"	3.7"	4.4"	51.8"	5.9"	9.8"	8.9"	53.8"	1.8"
mm	880	964	1485	930	566	93	111	1315	150	250	225	1366	45

Dimensions MWS35

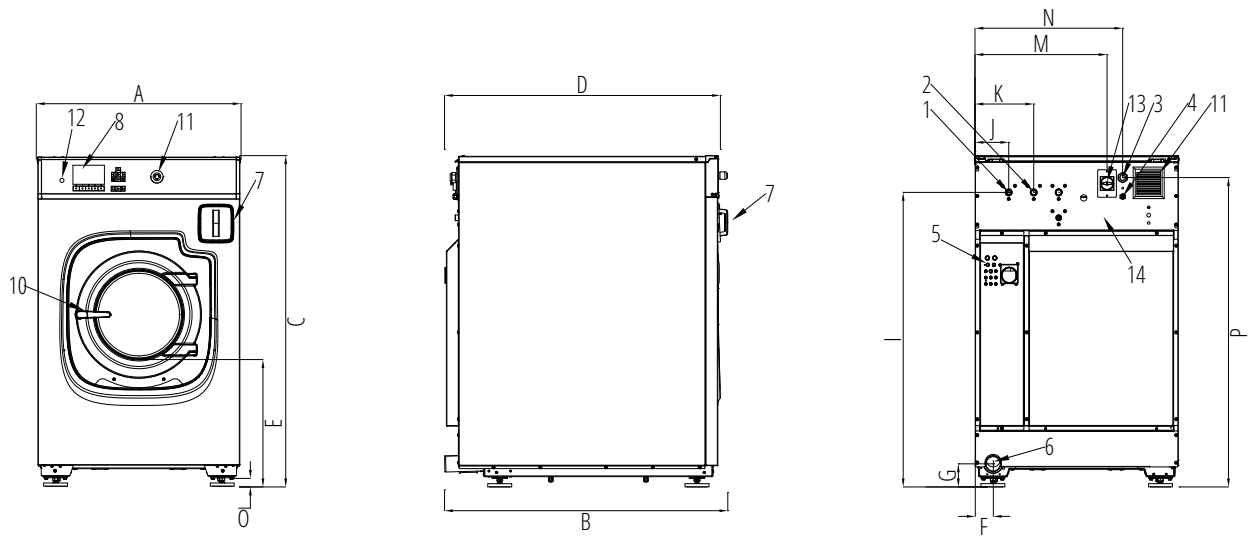
Unit	A	B	C	D	E	F	G	I	K	L	N	O	P
in	34.6"	44.3"	58.5"	42.9"	22.3"	3.7"	4.4"	51.8"	5.9"	9.8"	8.9"	53.8"	1.8"
mm	880	1124	1485	1089	566	93	111	1315	150	250	225	1366	45

Dimensions MWS45

Unit	A	B	C	D	E	F	G	I	K	L	N	O	P
in	34.6"	47.8"	58.5"	46.5"	22.3"	3.7"	4.4"	51.8"	5.9"	9.8"	8.9"	53.8"	1.8"
mm	880	1214	1485	1181	566	93	111	1315	150	250	225	1366	45

Table 1.2 Length values for MWS25, MWS35 and MWS45 models

1.2. MWS55 / MWS65



Front Side **Right Side** **Rear Side**

Fig. 1.2 Front, right and rear side view diagrams of MWS55 and MWS65 models

1 Cold Water	**4** Grounding Connection	**8** Control Panel	**12** USB Port
2 Hot Water	**5** Liquid Detergent Connection	**9** Emergency Stop Button	**13** Power Switch
3 Electrical Connection	**6** Drain	**10** Door Handle	**14** Serial Plate
	7 Detergent Dispenser	**11** Electric Cabinet Cooling Fan Filter	

Table 1.3 Components of the front, right and rear side view diagrams of MWS55 and MWS65 models

Dimensions MWS55

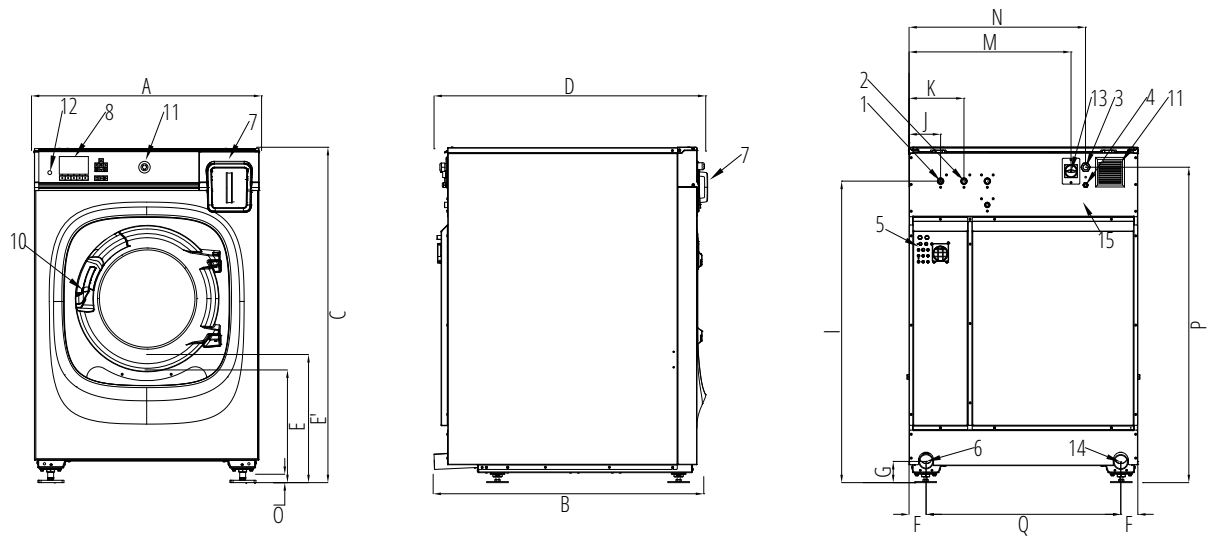
Unit	A	B	C	D	E	F	G	I	J	K	M	N	O	P
in	38.7"	50"	61.6"	48.6"	23.7"	3.5"	4.3"	54.8"	6.4"	11.1"	25"	27.9"	1.6"	57.6"
mm	982	1270	1565	1234	602	88	109	1392	162	282	634	709	41	1462

Dimensions MWS65

Unit	A	B	C	D	E	F	G	I	J	K	M	N	O	P
in	38.7"	53.5"	61.6"	52.1"	23.7"	3.5"	4.3"	54.8"	6.4"	11.1"	25"	27.9"	1.6"	57.6"
mm	982	1360	1565	1324	602	88	109	1392	162	282	634	709	41	1462

Table 1.4 Length values for MWS55 and MWS65 models

1.3. MWS85



Front Side **Right Side** **Rear Side**

Fig. 1.3 Front, right and rear side view diagrams of MWS85 models

1 Cold Water	**4** Grounding Connection	**8** Control Panel	**12** USB Port
2 Hot Water	**5** Liquid Detergent Connection	**9** Emergency Stop Button	**13** Power Switch
3 Electrical Connection	**6** Drain	**10** Door Handle	**14** Water Recycle
	7 Detergent Dispenser	**11** Electric Cabinet Cooling Fan Filter	**15** Serial Plate

Table 1.5 Components of the front, right and rear side view diagrams of MWS85 models

Dimensions MWS85

Unit	A	B	C	D	E	E'	F	G	I	J	K	M	N	O	P	Q
in	46.5"	55.3"	66.5"	54.9"	22.4"	25.4"	3.5"	4.2"	59.8"	6.4"	11.1"	32.8"	35.7"	1.7"	62.6"	39.4"
mm	1182	1405	1690	1395	568	646	88	107	1519	162	282	832	906	42	1589	1000

Table 1.6 Length values for MWS85 models

1.4. Dimensions

Crated Dimensions			
Model	Crated Width in (mm)	Crated Depth in (mm)	Crated Height in (mm)
MWS25	36.6"(930)	40.9" (1040)	61.8" (1570)
MWS35	36.6"(930)	47.24" (1200)	61.8" (1570)
MWS45	36.6"(930)	50.79" (1290)	61.8" (1570)
MWS55	40.2" (1020)	53.1" (1350)	64.5" (1640)
MWS65	40.2" (1020)	56.7" (1440)	64.5" (1640)
MWS85	48.8" (1240)	58.3" (1480)	71.8" (1825)

Approximate Weight		
Model	Uncrated-lb (kg)	Crated-lb (kg)
MWS25	966 (438)	1005 (456)
MWS35	1020 (463)	1065 (483)
MWS45	1049 (476)	1100 (499)
MWS55	1565 (710)	1607 (729)
MWS65	1764 (800)	1806 (819)
MWS85	2260 (1025)	2348 (1065)

1.5. Water, Drain, External Supply Connections for OPL

Model	Number Of Water Inlets	Inlet Sizes (BSPP)	Operating Pressure Psi (Bar)	Number Of Dispenser Compartments	External Chemical Connections, Number	Drain Valve Drain, Qty x Ø, in (mm)
MWS25	2	3/4"	15-87 (1-6)	5	5	1 x 3" (76)
MWS35	2	3/4"	15-87 (1-6)	5	5	1 x 3" (76)
MWS45	2	3/4"	15-87 (1-6)	5	5	1 x 3" (76)
MWS55	2	3/4"	15-87 (1-6)	5	5	1 x 3" (76)
MWS65	2	3/4"	15-87 (1-6)	5	5	1 x 3" (76)
MWS85	2	3/4"	15-87 (1-6)	6	6	1 x 3" (76)

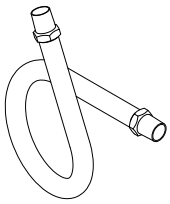
1.6. Energy/Water Usage

Model	Capacity lbs (kg)	Average Cycle Water Use Gallons US (Liters)		Total/Hot Ratio
		Hot Water	Total Water	
MWS25	25 (10)	11.09 (42)	21.39 (81)	1.930
MWS35	35 (15)	16.37 (62)	31.69 (120)	1.930
MWS45	45 (18)	19.28 (73)	37.24 (141)	1.930
MWS55	55 (24)	22.71 (86)	43.31 (164)	1.900
MWS65	65 (28)	26.15 (99)	49.66 (188)	1.900
MWS85	85 (40)	38.8 (147)	67.9 (257)	1.750

2. INSTALLATION REQUIREMENTS

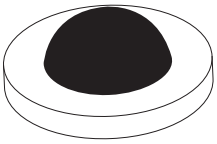
2.1. Tools and Parts

Parts supplied:

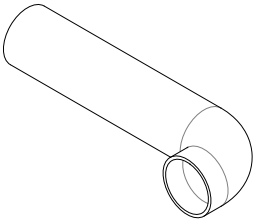


Water Inlet Hoses (2)

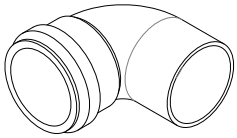
Inlet Hose Washers (2)



Filter Screen (2)



Drain Hose (1)



PVC Elbow (1)

Fig. 2.1 Tools and Parts for All Models

3. ELECTRICAL REQUIREMENTS

CABLE AND FUSE VALUES FOR 200V-240V SINGLE-PHASE VOLTAGE						
	Unit	**MWS25**	**MWS35**	**MWS45**	**MWS55**	**MWS65**
Wiring		2+PE				
Water Heater Fed Models						
Circuit Breaker (non NAR)	Ampere	16	20	25	25	25
Circuit Breaker (NAR)		15	20	25	25	25
Cable Quantity and Section Area	qty x mm^2	3 x 2,5	3 x 2,5	3 x 2,5	3 x 2,5	3 x 2,5
	qty x AWG	3 x 14	3 x 12	3 x 10	3 x 10	3 x 10
Full Load Current Draw	Ampere	10	15.6	20.5	21.6	21

Table 2.1 Cable and Fuse Values for 200V-240V Single-Phase Voltage (60/50)

CABLE AND FUSE VALUES FOR 208V-240V THREE-PHASE VOLTAGE		
	Unit	**MWS85**
Wiring		3+PE
Water Heater Fed Models		
Circuit Breaker (non NAR)	Ampere	16
Circuit Breaker (NAR)		20
Cable Quantity and Section Area	qty x mm^2	5 x 2,5
	qty x AWG	4 x 12
Full Load Current Draw	Ampere	16.2

Table 2.2 Cable and Fuse Values for 208V-240V Three-Phase Voltage (60/50)

CABLE AND FUSE VALUES FOR 380V-415V THREE-PHASE VOLTAGE (Non North America)							
	Unit	**MWS25**	**MWS35**	**MWS45**	**MWS55**	**MWS65**	**MWS85**
All Heating Types							
Wiring		3+N+PE					
Electric Heated Models							
Circuit Breaker (non NAR)	Ampere	20	32	40	40	50	63
Circuit Breaker (NAR)		20	30	40	40	50	60
Cable Quantity and Section Area	qty x mm^2	5 x 2,5	5 x 6	5 x 10	5 x 10	5 x 10	5 x 16
	qty x AWG	5 x 14	5 x 10	5 x 8	5 x 8	5 x 8	5 x 6
Full Load Current Draw 380V	Ampere	16,7	26,8	28,8	33,9	39	48,6
Full Load Current Draw 400V		17,3	27,8	30,9	34,8	42,1	51
Full Load Current Draw 415V		17,8	28,7	32	36,1	43,6	52,8
Heating Power 380V	kW	9	15	18	21	24	30
Heating Power 400V		9,9	16,5	20,3	22,7	27,4	33,2
Heating Power 415V		10,6	17,8	21,9	24,5	29,5	36
Water Heater Fed Models							
Circuit Breaker (non NAR)	Ampere	16	20	10	10	10	16
Circuit Breaker (NAR)		15	20	10	10	10	20
Cable Quantity and Section Area	qty x mm^2	5 x 2,5	5 x 2,5	5 x 2,5	5 x 2,5	5 x 2,5	5 x 2,5
	qty x AWG	5 x 14	5 x 14	5 x 14	5 x 14	5 x 14	5 x 14
Full Load Current Draw	Ampere	10	15,6	6,2	7,1	7,5	9,3

Table 2.3 Cable and Fuse Values for 380V-415V Three-Phase Voltage (50)

4. INSTALLATION OF THE SOFT WASHER-EXTRACTOR WITHOUT PEDESTAL BASE

⚠WARNING

Excessive Weight Hazard

Use two or more people and mechanical equipment to lift, move and install washer.

Failure to do so can reasult in back or other injury.

Anchoring MWS models (Soft Machines)

⚠WARNING

Crush Hazard

Washer can tip over if not properly installed on platform or pedestal.

Shipping brackets must be removed per installation instructions before operating.

Failure to follow these instructions can result in death or serious injury.

Shipping bolts need to be uninstalled from the soft washers prior to operation.

Leveling feet are provided with soft machines. Use the feet to level the machine in it's final operating location. Use the level to level the top of the washer. Turn the leveling legs to adjust the setting. Check that the washer does not move front-to-back, side-to-side, or diagonally when pushed on its top edges. Keep the legs as short as possible for best performance.

Once the washer is leveled the lock nuts must be tightened up against the top of the foot bushing with an open end wrench. This will keep the setting from changing.

4.1. Installation of The Product

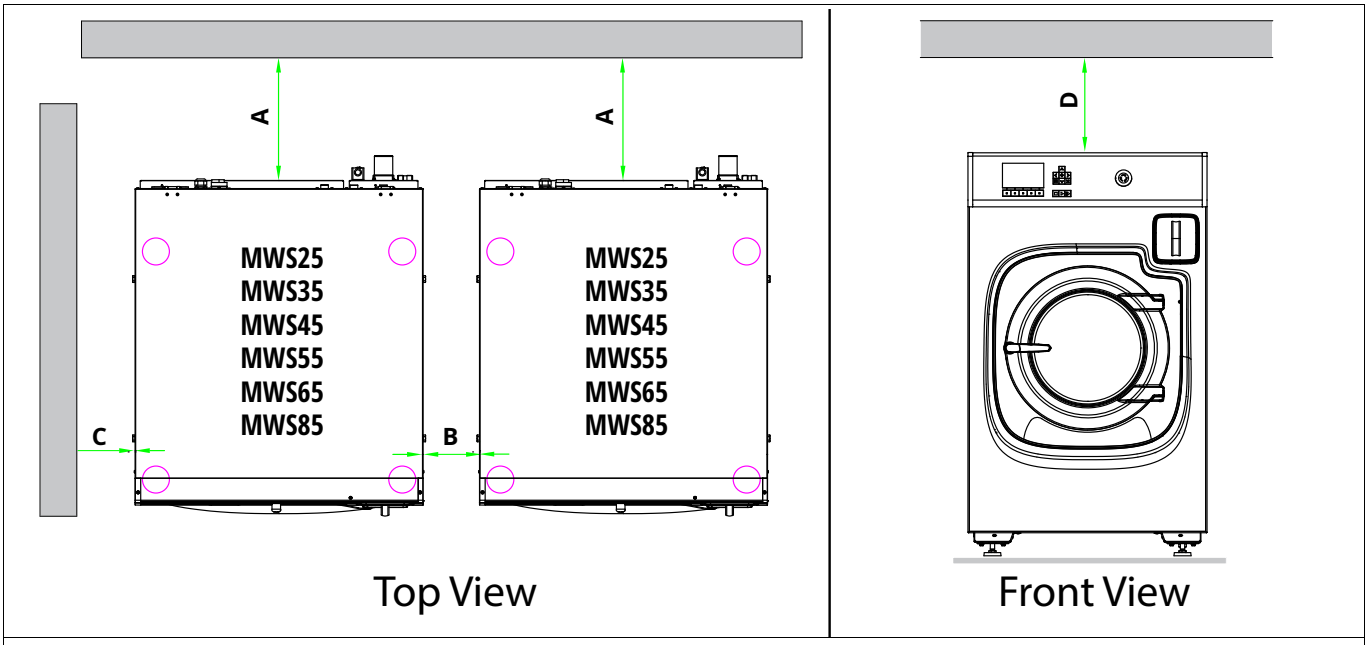


Fig. 4.1 Top View for Installation Clearances

Required Clearances Between Machines and Walls, in. (mm)

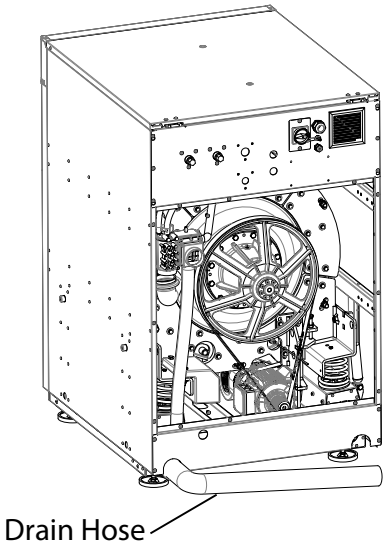
	Description	MWS25	MWS35	MWS45	MWS55	MWS65	MWS85
A	Wall to Back of Machine	19.7" (500)	19.7" (500)	19.7" (500)	19.7" (500)	19.7" (500)	19.7" (500)
B	Between Machines	0.79" (20)	0.79" (20)	0.79" (20)	0.79" (20)	0.79" (20)	0.79" (20)
C	Wall to Side of Machine	0.79" (20)	0.79" (20)	0.79" (20)	0.79" (20)	0.79" (20)	0.79" (20)
D	Wall to Top of Machine	50" (1270)	50" (1270)	50" (1270)	50" (1270)	50" (1270)	50" (1270)

Table 4.1 Required Clearances Between Machines and Walls

5. INSTALLATION INSTRUCTION

5.1. Connect the Drain Hose

1. The drain hose can be found shipped inside the drum with the installation kit. The clamp for this hose is in the installation kit. Attach the drain to the drain connection located near the bottom of the rear of the washer. This is a gravity-fed system, so you must install the drain hose with the outlet lower than the drain connection to ensure proper drainage. Do not kink the hose.



2. The drain hose should end over, or in a floor drain or drainage canal.

3. The drainage canal or drain pipe must be sized properly to handle the total output of all washers connected to the system. Each time a washer is added to the drain pipe, the size of the pipe must increase to accommodate the additional volume. The drain pipe at the first washer must be 3" (76 mm) diameter. The pipe must increase to 4" (100 mm) diameter before the second washer and 5" (127 mm) diameter before the third washer.

Drain Connections

Use the provided drain hose to connect the washer's drain pipe to the facility drain or drain channel. Secure with the provided clamp. The capacity of discharged water for each washer model is 61 us gallon/ min (230 L/min).

Water Hardness

Determine the water hardness level in water supply. Good wash results are dependent on water hardness. In areas that have medium and very hard water levels, a water softener may be required. Contact your water or soap distributor for determining the proper soap and detergents to be used with your hardness levels for the best wash results.

Water Supply Connections

Washers have 2 water inlets. For connection dimensions, See **1.** "DIMENSIONS AND TECHNICAL SPECIFICATIONS" on page 1, 2, 3.

1. Always use the flexible hoses delivered with the washer. Do not use a fixed connection to the water supply.

2. Keep proper water pressure within range.

NAR Specific Instructions

3. The water connection to the washer requires a 3/4" British Standard Pipe Thread fitting. The British Standard Pipe Thread end is identified with a label. Threading an GHT fitting or the GHT end of the adapter hose will damage the threads of the washer.

4. Flush water lines to remove debris. Install the GHT (the end with no label) side of the inlet hoses to the hot and cold supply lines. Tighten fittings.

5. Attach the BSPP (the end with the label) end of adapter hoses to the washer. (On ALL models, there is a hose screen included in the installation kit that needs to be placed here). Tighten fittings.

6. Turn on water and check for leaks in the system.

Installations Outside of NAR

7. The supplied hoses have identical connections on both ends (BSPP)

8. Flush water lines to remove debris. Install the hose to the hot and cold supply lines. Tighten fittings.

9. Attach the opposite end of adapter hoses to the washer. (On ALL models, there is a hose screen included in the installation kit that needs to be placed here). Tighten fittings.

10. Turn on water and check for leaks in the system.

5.2. Water Connections

Refer to the **1.5.** *"Water, Drain, External Supply Connections for OPL"* chapter on page 4 for working pressure values of different models.

Appropriate valves should be used for water inlets. Hot water inlet temperature must not exceed 185°F (85°C).

Flexible hoses with junctions compatible to the operating pressure must be used to prevent the transmission of the vibrations to the system which occurs at operation.

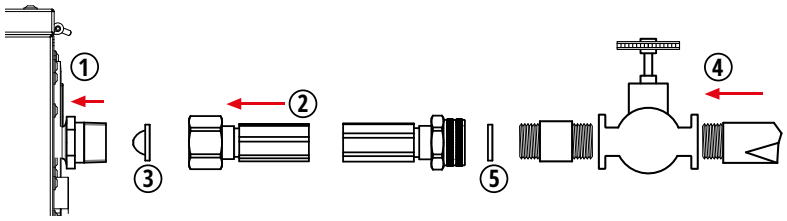


Fig. 4.2 Water Inlet Strainer and Hose Locations for NAR (North American Region) Models

No	Description
1	To the Machine (BSPP)
2	Flexible Hose (BSPP - GHT)
3	Strainer
4	From Installation
5	Inlet Hose Washer

Table 4.2 Strainer and Hose Location Diagram Components for NAR (North American Region) Models

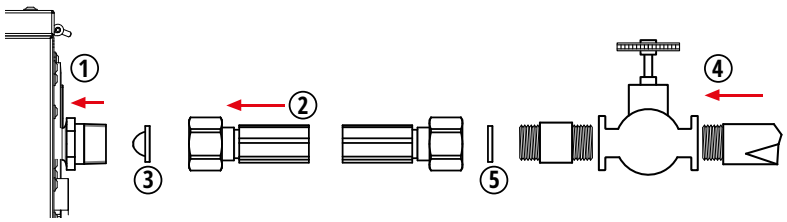


Fig. 4.3 Water Inlet Strainer and Hose Locations for International Models

No	Description
1	To the Machine (BSPP)
2	Flexible Hose (BSPP - BSPP)
3	Strainer
4	From Installation
5	Inlet Hose Washer

Table 4.3 Strainer and Hose Location Diagram Components for International Models

5.3. Drainage Connection

A drain system of adequate capacity is essential for the performance of the machine.

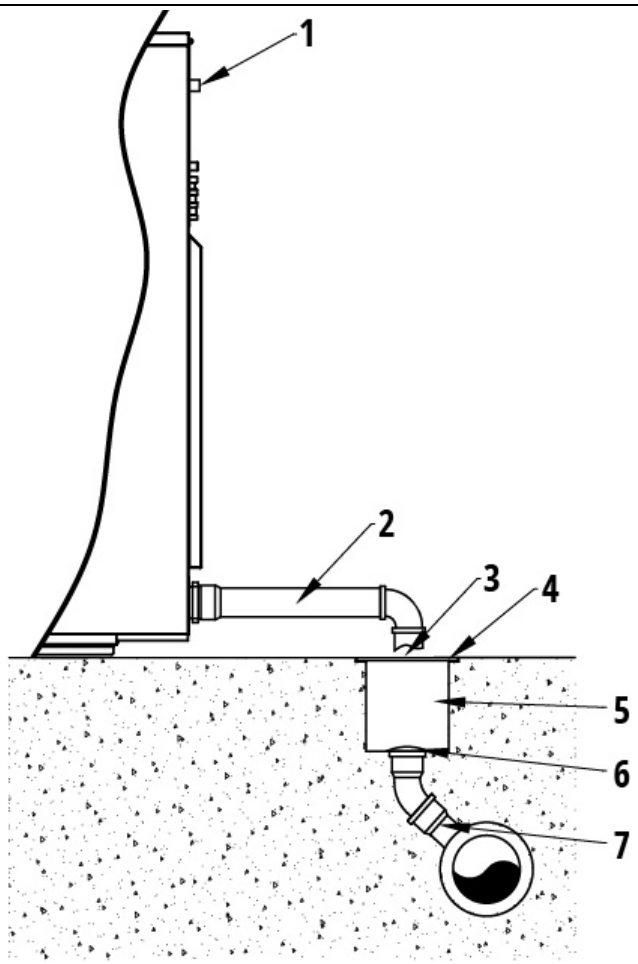


Fig. 4.4 Drainage Connection Diagram

No	Description
1	Water Inlet
2	Drain Pipe
3	1-Inch Minimum Waste Line Air Gap (*Per local code*)
4	Steel Grate
5	Drain Trough
6	Strainer
7	Waste Line

Table 4.4 Drainage Connection Diagram Components

Model	Drain Connection Size (Qty x Ø)		Drain Flow Capacity	
	in	mm	us gal/min	l/min
MWS25	1 x 3"	1 x 76	61	230
MWS35	1 x 3"	1 x 76	61	230
MWS45	1 x 3"	1 x 76	61	230
MWS55	1 x 3"	1 x 76	61	230
MWS65	1 x 3"	1 x 76	61	230
MWS85	1 x 3"	1 x 76	61	230

Table 4.5 Drain Connection Size and Flow Capacity

Model		Machine Quantity						
		1	2	3	4	5	6	7
MWS25	in	3"	4"	5"	6"	6.7"	7.3"	8"
	mm	76	102	131	152	170	186	203
MWS35	in	3"	4"	5"	6"	6.7"	7.3"	8"
	mm	76	102	131	152	170	186	203
MWS45	in	3"	4"	5"	6"	6.7"	7.3"	8"
	mm	76	102	131	152	170	186	203
MWS55	in	3"	4"	5"	6"	6.7"	7.3"	8"
	mm	76	102	131	152	170	186	203
MWS65	in	3"	4"	5"	6"	6.7"	7.3"	8"
	mm	76	102	131	152	170	186	203
MWS85	in	3"	4"	5"	6"	6.7"	7.3"	8"
	mm	76	102	131	152	170	186	203

Table 4.6 Drain Line Sizing

CAUTION

The water should drain through a vented pipe directly into a sump or floor drain.

IMPORTANT

Increasing the drain hose length, installing elbows, or causing bends will impair the performance of the machine.

5.3.1. Vent Pipe For Common Drainage

A vent pipe should be installed at the pipeline starting point which rises above the drum top level to balance back pressure in the drainage system during drainage water flow if more than one washer is connected into a common drainage.

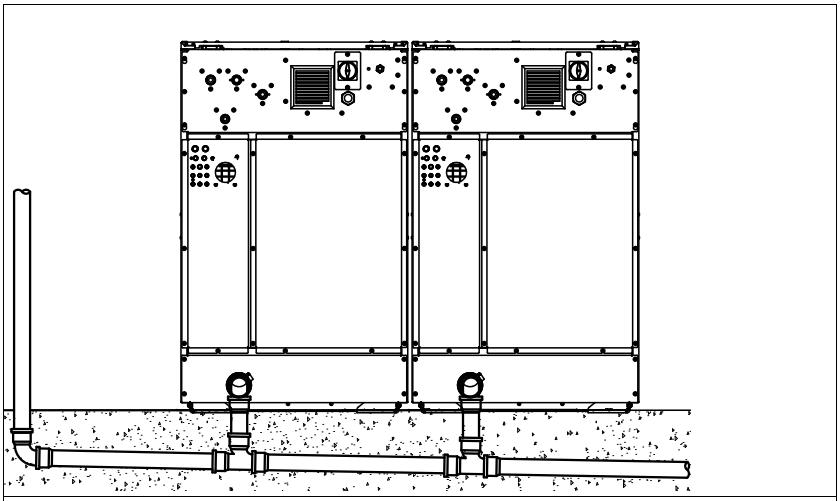
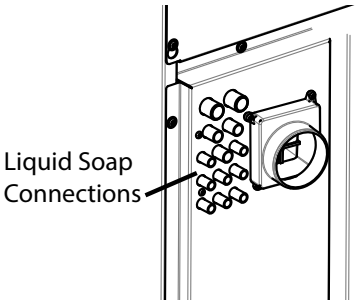


Fig. 4.5 Vent Pipe for Common Drainage

5.4. External Supply Connections

All external liquid soap hose connections must be tight. Double check that the clamps are tight after connections are made. Make sure any unused open connections are sealed with an appropriate cover.
The connections for the liquid soap are on the rear of the washer and must be drilled open in order to use them. Only drill out the connections that will be used.



There are a total of 13 connections: 2 with a 19/32" (15 mm) diameter, 3 with a 13/32" (10 mm) diameter, and 8 with an 5/16" (8 mm) diameter. Use the appropriate drill bits—1 mm smaller than the final hole diameter—to prepare each hole as required. Refer to the **1.5.** *"Water, Drain, External Supply Connections for OPL"* on page 4 and **1.6.** *"Energy/Water Usage"* on page 4 section for detailed connection requirements.
Be sure to remove all drilling shavings completely to prevent blockage of the inlets and hoses. Connect the liquid soap pumps to the left-side openings first, and set the pump flow rate between 16–26 us gal/hr (60 and 100 L/hr).

IMPORTANT

The incoming water dilutes the liquid soap and brings it into the tub assembly.

Check with your liquid soap provider to ensure that your soap is inert to Polypropylene (PP) and Polyvinyl Chloride (PVC) materials.

Make sure the hoses and wiring for the liquid soap pumps are not damaged, pinched, rubbed or damage to the machine could occur.

The liquid soap pumps used must be capable of providing the requested quantity in less than 30 seconds.

5.4.1. PVC Elbow Installation

1. Locate the 3" (76 mm) manifold connection at the rear of the machine.

2. Slide the PVC elbow onto this connection.

3. Install the elbow so that the opening faces upward, away from the floor. **Fig. 4.6** "PVC Elbow Installation" on page 13.

4. *(Optional)* The elbow can also be installed with the opening facing downward and connected directly to the washer drain line.

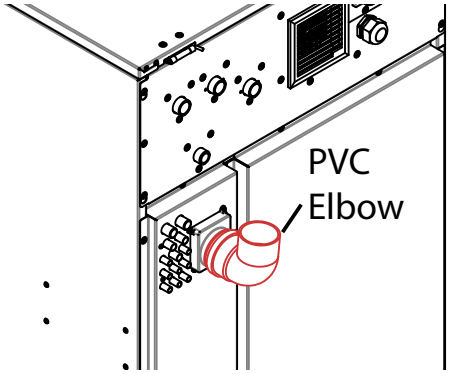


Fig. 4.6 PVC Elbow Installation

5.5. Signal Output Terminal for Third Party Chemical Supply Systems

The "Signal Output Terminal for Third Party Chemical Supply Systems" is a vital interface that ensures precise communication between chemical supply systems and control units. It enhances safety, efficiency, and reliability by providing real-time data and remote control capabilities. This integration supports quality standards and regulatory compliance, optimizing performance and reducing the risk of hazardous incidents in industrial and laboratory settings.

These models are shipped out from the factory with 24V DC common voltage provided. The signal and the detergent box water valve are used in parallel. These models don't need any 24V DC supply in the common terminal. These models do use the 6X1 electric terminal for external signals of the detergents as seen in **Fig. 4.7** *"Location and Detail of the 6X1 Detergent Signal Terminal"* on page 14.

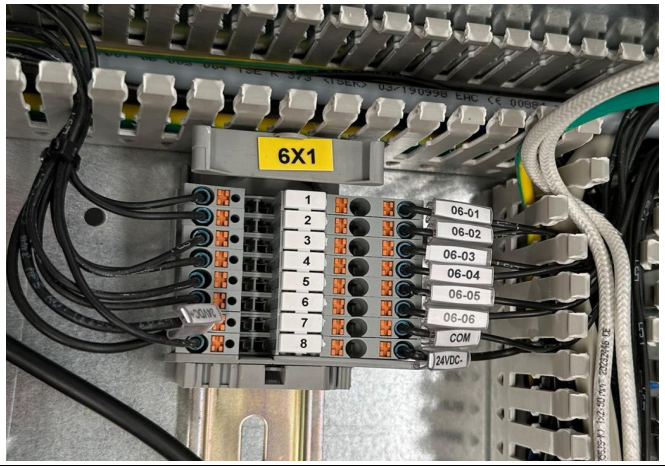


Fig. 4.7 Location and Detail of the 6X1 Detergent Signal Terminal

No	Port	Description
1	06-01	Detergent A Signal
2	06-02	Detergent B Signal
3	06-03	Detergent C Signal
4	06-04	Detergent D Signal
5	06-05	Detergent E Signal
6	06-06	Detergent F Signal
7	COM	COM
8	24VDC-	24 VDC- Signal

Table 4.7 The 6X1 Detergent Signal Terminal Components

6. ELECTRICAL CONNECTION

⚠WARNING

Dangerous Voltage

⚠WARNING

Fire Hazard

Use appropriate gauge of solid copper wire. (See chart in "Electrical Requirements" section).

Use a UL listed strain relief.

Disconnect power before making electrical connections.

Connect neutral wire (white) to terminal (N).

Ground wire (green or bare wire) must be connected to ground connector (PE).

Connect remaining 3 supply wires to remaining 3 terminals (L1, L2 and L3).

Securely tighten all electrical connections.

Failure to do so can result in death, fire, or electrical shock.

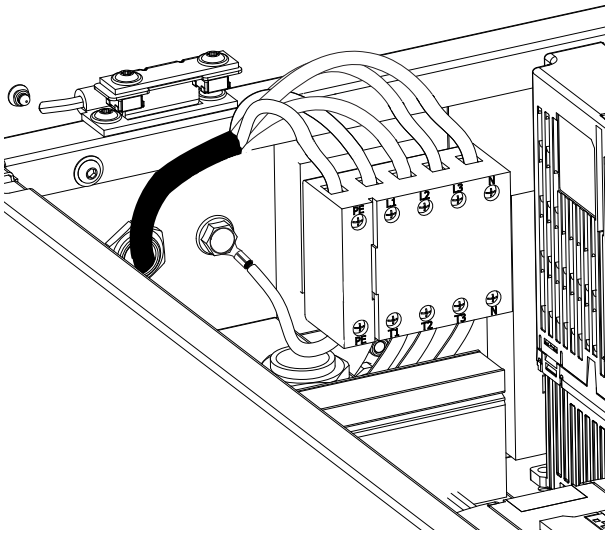
Connection to Washer:

The washer must be electrically grounded in accordance with all local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, latest edition, or Canadian Electrical Code, CSA C22.1

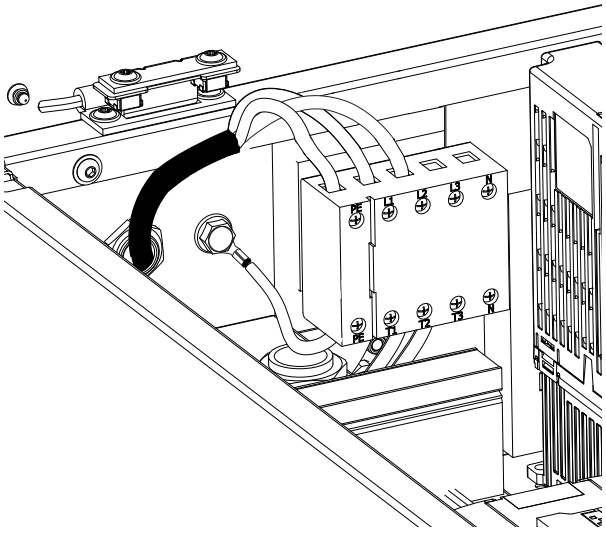
Direct Wire Installation:

Power supply cable must match power supply (3-wire) and be:

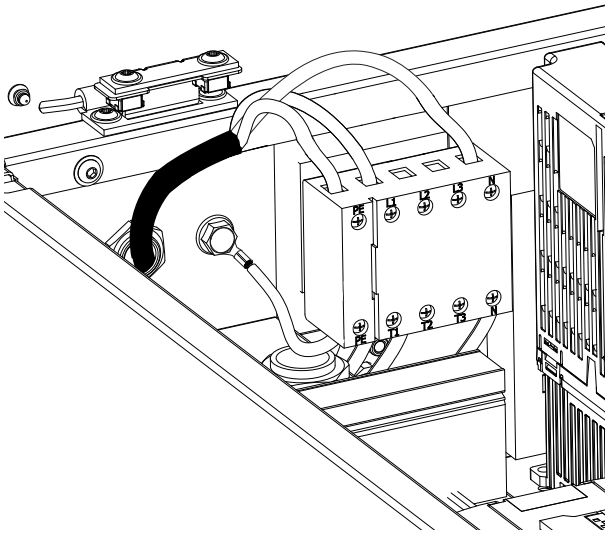
- To access the disconnect, lift the top cover and support it with the prop rod.
- Copper wire of appropriate gauge for amperage requirement (see "Manufacturer's Recommended Minimal Conductor section"). Solid wire is recommended. Do not use aluminum wire.
- Flexible armored cable or flexible conduit must be used for the supply connections. Use the hole in the rear of the washer for routing. Connection is made directly to the disconnect switch inside the back top panel of the washer. A Flat-head screwdriver can be used for the power wires to the disconnect. Incoming service wires are applied to the top of the disconnect body. If the washer is single phase, (only 2 power wires) the outside positions of the disconnect should be used (leaving the center pole empty). Tighten down all connections including the unused position in the singlephase service case. Leaving a small radius of slack for the wires inside the washer, check that the cable is well held in place.
- Check the rating plate on the washer. Make sure that the supply phase and voltage match the rating of the washer. Some locations require an autonomous power switch (I) at the current input, with a minimum of 0.12" (3 mm) between contacts. Fit a 300 mA, type A, immediate response differential protection. Check your local regulations. Insert the flexible armored cable or flexible conduit through the hole in the rear panel. Secure the armored cable or conduit to the rear panel. Connect the wiring per the correct illustration.



3 Phase Connection (L1-L2-L3-N)



NAR Single Phase Connection (L1-L2)



International Single Phase Connection (L1-N)

6.1. Multiple Single-Phase Machines in Line

When installing multiple single-phase washers into an existing 3-phase power supply, alternating the phases used as the hot leg is recommended to evenly distribute power on the system.

See illustration.

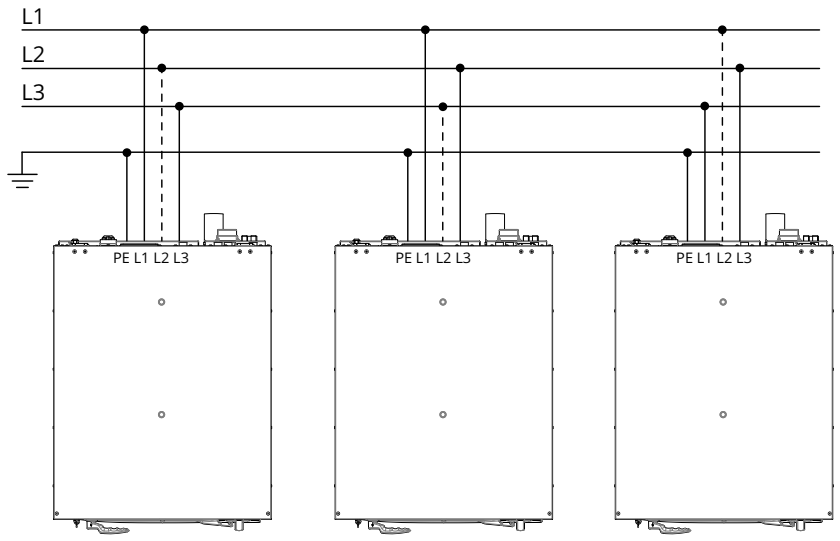


Fig. 4.8 Multiple Single-Phase Machines in Line

Instructions For Grounding

This appliance must be connected to an equipment grounding conductor that must run with the circuit conductors and connected to the aluminum ground lug inside the rear electric panel.

Connect the terminal strip and check that the connections correspond to the operating voltage. Fit a 300 mA, type A, immediate response differential protection.

The machine must be g rounded. See the illustration on the previous page.

The cross section of the cables must be determined by qualified experts by calculating the power and the capacity of the machine and the distance of the cables to the energy source.

It's recommended to use cable terminals to connect the grounding cable to the grounding connection. The grounding connection is marked with the “Earth Connection” label. The location of the grounding connection is specified in the **1.** "DIMENSIONS AND TECHNICAL SPECIFICATIONS" on page 1. for different models.

6.2. Equipotential Bonding

In addition to the equipment-grounding conductor discussed earlier that runs with the circuit conductor's and is connected to the equipment grounding terminal, all washers or appliances in the vicinity must be permanently interconnected with a equipotential bonding conductor.

The external connection points marked on the back of the washer serve for this purpose. See illustration below.

The cross-sectional area of the conductor must be at least electrically equivalent to the cross-sectional area of the copper conductor used to power the washer.

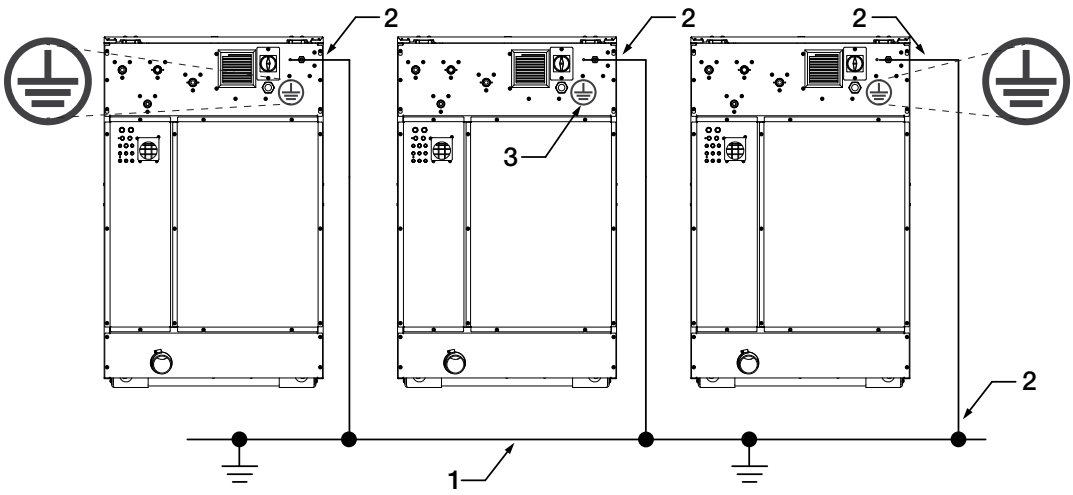


Fig. 4.9 Equipotential Bonding

1. Protective grounding structure

2. Protective conductor

3. Grounding identification

6.3. Software Service Settings Flow Overview

This section provides a clear and concise overview of the software flow for the washer. It helps service personnel and users quickly identify which settings are available under each main menu option. Users can locate specific settings efficiently without navigating through all menus. Each main selectable option is listed with its associated sub-settings, providing a quick reference for setup, troubleshooting, and program adjustments.

Main Category	Sub-category	Sub-settings	Parameter
Edit Program			
Copy Program			
Delete Program			
Export Program			
Import Program			
Service	**Parameters**		
	Diagnostics		
	I/O Links		
	Detergent Definitions		
	Statistics	Alarm Statistics	Reset Alarm
		Consumption Statistics	
	Factory		
	Trouble Shooting		
	System Settings	User Settings	
		Copy Software	
		Upgrade Software	
		Run Script	
		Datebase Operations	Create Backup
			Restore Backup
			Delete Backup
			Send to USB
			Get from USB
		Set Date/Time	
		Com Test	
Program Editor	**Delete Phase**		
	Expert/Basic Mode		
Program Execution	**Change Set**		
	Save		
General Module	**Alarm**		
	Mimic View		

Table 4.8 Software Service Settings Flow Overview

7. WASHER MAINTENANCE

7.1. Maintenance Schedule

After Each Load

- Remove debris from the wash drum including paper clips, coins, and other hard items.
- When not in use, leave the washer door open to allow the washer to air out and prolong gasket life.
- When not in use, leave detergent lids open to allow dispenser to air out.

Daily Maintenance

- Clean water, detergent, and other stains off of the washer with a soft cloth dampened with a mild detergent solution.
- Dry with a soft cloth. Do not use abrasives.
- Clean detergent residue and other contamination off the door seal with a soft cloth dampened only with a mild detergent solution. Do not use solvents or acids. Do not lubricate seal with oil or grease.
- Remove residue from the detergent hoppers with a plastic scraper. Wipe the hoppers with a soft cloth dampened with water.
- Check water inlets for leaks. Correct as necessary.
- Check drain valve for leakage during a wash cycle (the valve is in open position when there is no electricity to it).

Maintenance Every 200 Working Hours or Every Month

Make sure external liquid soap supply system is not leaking.

Check all hose joints, screw joints and all connections in the system.

Maintenance Every 500 Working Hours or 3 Months

Make sure external liquid soap supply system is not leaking.

Check all hose joints, screw joints and all connections in the system.

⚠WARNING

Electrical Shock Hazard
Disconnect power before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

- Observe the washer from the back for one wash cycle. Be sure that water does not leak out of the drain during the wash part of the cycle and that it drains freely at the beginning of extraction. Clean the drain if either of these symptoms are observed.

1. Turn off power to washer at the circuit breaker or fuse box.
2. Check the tightness of the bolts securing the rear panel of the washer.
3. Check the belt for damage and proper tightness.
4. Check the level of the adjustable feet.
5. Inspect all hoses and connections inside the washer for leaks and correct as necessary.
6. Lubricate drum drive shaft and idler shaft bearings. (Use a Shell Gadus S2 V100C 3 grease).
7. Wipe off any stains with a soft cloth dampened with water or a mild detergent solution. Be sure that control components are not exposed to dust and moisture during cleaning.
8. Turn on power at circuit breaker or fuse box.

Maintenance Every 1,000 Working Hours or 6 Months

- Turn off hot and cold water to the washer at the valves. Clean water filters.
- Clean and remove dirt and dust from:
  - the inverter cooling fin
  - the motor cooling fins
  - the inverter internal fan
  - the external fan
  - the external air relieves
- Make sure the fan in the inverter cool fins is functioning.

MAYTAG® COMMERCIAL LAUNDRY LIMITED WARRANTY FOR ON-PREMISE PRODUCT MULTI-LOAD WASHERS

MWS25, MWS35, MWS45, MWS55, MWS65, MWS85 (PN)

IF YOU NEED SERVICE:

Contact your authorized Maytag® Commercial Laundry distributor.

To locate your authorized Maytag® Commercial Laundry distributor, call 1-800-662-3587, or for web inquiries, visit www.maytagcommerciallaundry.com.

For written correspondence:

Maytag® Commercial Laundry Service Department
2000 N M 63
Benton Harbor, Michigan 49022-2632 USA

FIVE YEAR LIMITED WARRANTY

WHAT IS COVERED

THREE YEAR LIMITED WARRANTY (PARTS ONLY — LABOR NOT INCLUDED)

For the first three years from the original date of purchase, when this commercial appliance is installed, operated, and maintained according to the instructions attached to or furnished with the product, Maytag brand of Whirlpool Corporation (hereafter "Maytag") will pay for factory specified replacement parts to correct defects in materials or workmanship that existed when this commercial appliance was purchased. This limited warranty does not include labor.

FOURTH AND FIFTH YEAR LIMITED WARRANTY (CERTAIN COMPONENT PARTS ONLY – LABOR NOT INCLUDED)

In the Fourth and Fifth years from the date of original purchase, when this commercial appliance is installed, operated, and maintained according to instructions attached to or furnished with the product, Maytag will pay for factory specified replacement parts for the following components to correct non-cosmetic defects in materials or workmanship in the part that prevent function of the product and that existed when this commercial appliance was purchased. This is a limited 5-year warranty on the bellow named parts only and does not include labor.

- Wash Tub
- Drum and shaft assembly
- Inner welded frame
- Drum bearings and drum seals

YOUR SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PART REPLACEMENT AS PROVIDED HEREIN. Maytag recommends that you use an "authorized" service provider to diagnose and repair your Commercial Laundry product. Maytag will not be responsible under this warranty to provide additional replacement parts as a result of incorrect diagnosis or repair by an "unauthorized" service company. Except in the European Union, this limited warranty is valid only when the commercial appliance is used in the country in which it was purchased. This limited warranty is effective from the date of the original consumer purchase. Proof of original purchase date is required to obtain service under this limited warranty.

WHAT IS NOT COVERED

1. All other costs including labor, transportation, shipping, or custom duties for covered parts.
2. Factory specified replacement parts if this commercial appliance is used for other than normal, commercial use or when it is used in a manner that is inconsistent to published user or operator instructions and/or installation instructions.
3. Service calls to correct the installation of your commercial appliance, to instruct you on how to use your commercial appliance, to replace or repair house fuses, or to correct external wiring or plumbing.
4. Service calls to repair or replace appliance light bulbs, air filters, or water filters. Consumable parts are excluded from warranty coverage.
5. Damage resulting from improper handling of product during delivery, theft, accident, alteration, misuse, abuse, fire, flood, actsof God, improper installation, installation not in accordance with local electrical or plumbing codes, or use of products not approved by Maytag.
6. Pick up and delivery. This commercial appliance is designed to be repaired on location.
7. Repairs to parts or systems resulting from unauthorized modifications made to the commercial appliance.
8. The removal and reinstallation of your commercial appliance if it is installed in an inaccessible location or is not installed in accordance with published installation instructions.
9. Damage resulting from exposure to chemicals.
10. Changes to the building, room, or location needed in order to make the commercial appliance operate correctly.
11. Factory specified replacement parts on commercial appliances with original model/serial numbers that have been removed, altered, or cannot be easily determined.
12. Discoloration, rust, or oxidation of stainless steel surfaces.
13. Factory specified replacement parts as a result of incorrect diagnosis or repair by an "unauthorized" service company.
14. Replacement parts during the Forth and Fifth years from the date of original purchase where the commercial appliance is installed, operated and maintained in a setting other than a vended and/or multi-housing environment.
15. Replacement parts during the Forth and Fifth years from the date of original purchase where the defective part is not preventing the functioning of the product.

The cost of repair or replacement under these excluded circumstances shall be borne by the customer.

DISCLAIMER OF IMPLIED WARRANTIES

IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO TEN YEARS OR THE SHORTEST PERIOD ALLOWED BY LAW. Some locations do not allow limitations on the duration of implied warranties of merchantability or fitness, so this limitation may not apply to you. THE BENEFITS GIVEN TO YOU BY THIS WARRANTY ARE IN ADDITION TO OTHER RIGHTS AND REMEDIES AVAILABLE TO YOU UNDER LAW IN RELATION TO THE GOODS OR SERVICES TO WHICH THIS WARRANTY RELATES. PLEASE CONTACT MAYTAG FOR FURTHER INFORMATION ON WARRANTY TERMS.

DISCLAIMER OF REPRESENTATIONS OUTSIDE OF WARRANTY

Maytag makes no representations about the quality, durability, or need for service or repair of this commercial appliance other than the representations contained in this warranty. If you want a longer or more comprehensive warranty than the limited warranty that comes with this commercial appliance, you should ask your retailer about buying an extended service plan. The benefits to you given by this warranty are in addition to other rights and remedies available to you under law in relation to the goods or services to which this warranty relates. Please contact Maytag for further information on warranty terms.

LIMITATION OF REMEDIES; EXCLUSION OF INCIDENTAL AND CONSEQUENTIAL DAMAGES

YOUR SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PART REPLACEMENT AS PROVIDED HEREIN. MAYTAG SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some locations do not allow the exclusion or limitation of incidental or consequential damages, so these limitations and exclusions may not apply to you. THE BENEFITS GIVEN TO YOU BY THIS WARRANTY ARE IN ADDITION TO OTHER RIGHTS AND REMEDIES AVAILABLE TO YOU UNDER LAW IN RELATION TO THE GOODS OR SERVICES TO WHICH THIS WARRANTY RELATES. PLEASE CONTACT MAYTAG FOR FURTHER INFORMATION ON WARRANTY TERMS.

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LIST OF FIGURES

LIST OF TABLES