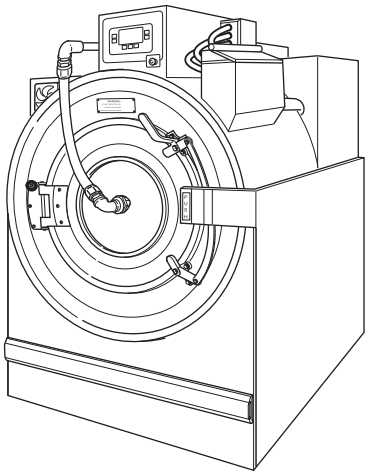
Washer-Extractors

Pocket Hardmount

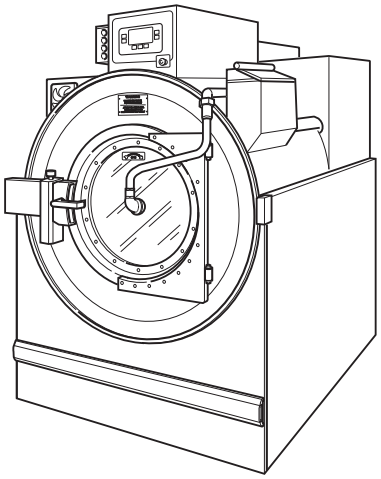
UniLinc

Refer to Page 5 for Model Numbers



PHM1400C

35 – 125 Models



PHM1402C

150 Model

Keep These Instructions for Future Reference.
(If this machine changes ownership, this manual must accompany machine.)

Alliance Laundry Systems

www.alliancelaundry.com

Part No. F8138601R12
October 2012

Installation

Table of Contents

Safety Information

Explanation of Safety Messages

Precautionary statements ("DANGER," "WARNING," and "CAUTION"), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

DANGER

DANGER indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.

WARNING

WARNING indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.

CAUTION

CAUTION indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

Additional precautionary statements ("IMPORTANT" and "NOTE") are followed by specific instructions.

IMPORTANT: The word "IMPORTANT" is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word "NOTE" is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions

WARNING

To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:

W023

1. Read all instructions before using the washer.
2. Install the washer according the INSTALLATION instructions. Refer to the GROUNDING instructions in the INSTALLATION manual for the proper grounding of the washer. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required. It is recommended that the machine be installed by qualified technicians.
3. Do not install or store the washer where it will be exposed to water and/or weather.
4. To prevent fire and explosion, keep the area around machine free from flammable and combustible products. Do not add the following substances or textiles containing traces of the following substances to the wash water: gasoline, kerosene, waxes, cooking oils, vegetable oils, machine oils, dry-cleaning solvents, flammable chemicals, thinners, or other flammable or explosive substances. These substances give off vapors that could ignite, explode or cause the fabric to catch fire by itself.
5. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable, do not smoke or use an open flame during this time.
6. To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.

7. Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance. This is a safety rule for all appliances.
8. DO NOT reach and/or climb into the tub or onto the washer, ESPECIALLY if the wash drum is moving. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
9. Never operate the washer with any guards, panels and/or parts removed or broken. DO NOT bypass any safety devices or tamper with the controls.
10. Use washer only for its intended purpose, washing textiles. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket or tub.
11. Use only low-sudsing, no-foaming types of commercial detergent. Be aware that hazardous chemicals may be present. Wear hand and eye protection when adding detergents and chemicals. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
12. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
13. Always follow the fabric care instructions supplied by the textile manufacturer.
14. Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open. Do not attempt to open the door until the washer has drained and all moving parts have stopped.
15. Be aware that hot water is used to flush the supply dispenser. Avoid opening the dispenser lid while the machine is running.
16. Do not attach anything to the supply dispenser's nozzles, if applicable. The air gap must be maintained.
17. Do not operate the machine without the water reuse plug or water reuse system in place, if applicable.
18. Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.
19. Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
20. DANGER: Before inspecting or servicing machine, power supply must be turned OFF. The servicer needs to wait for at least 3 minutes after turning the power OFF and needs to check for residual voltage with a voltage meter. The inverter capacitor or EMC filter remains charged with high voltage for some time after powering OFF. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
21. Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out. ALWAYS disconnect the washer from electrical, power and water supplies before attempting any service.
22. Disconnect the power cord by grasping the plug, not the cord. Replace worn power cords and/or loose plugs. If the supply cord is damaged, it must be replaced by a special cord or assembly available from the service agent.
23. Before the washer is removed from service or discarded, remove the door to the washing compartment.
24. Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining, or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

WARNING

This machine must be installed, adjusted, and serviced by qualified electrical maintenance personnel familiar with the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury and/or equipment damage, and may void the warranty.

SW004

IMPORTANT: Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

WARNING

Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.

SW014

Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

Use manufacturer-authorized spare parts to avoid safety hazards.

Operator Safety

WARNING

NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.

SW012

The following maintenance checks must be performed daily:

1. Verify that all warning labels are present and legible, replace as necessary.
2. Check door interlock before starting operation of the machine:
   a. Attempt to start the machine with the door open. The machine should not start.
   b. Close the door without locking it and start the machine. The machine should not start.
   c. Attempt to open the door while a cycle is in progress. The door should not open.

   If the door lock and interlock are not functioning properly, disconnect power and call a service technician.
3. Do not attempt to operate the machine if any of the following conditions are present:
   a. The door does not remain securely locked during the entire cycle.
   b. Excessively high water level is evident.
   c. Machine is not connected to a properly grounded circuit.

WARNING

Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.

W728

Introduction

Model Identification

Information in this manual is applicable to these models:

UW35TV
UW60TV
UW80TV
UW100TV
UW125TV
UW150TV

This manual is designed as a guide to the installation of the Pocket Hardmount washer-extractor.

NOTE: All information, illustrations, and specifications contained in this manual are based on the latest product information available at the time of printing. We reserve the right to make changes at any time without notice.

IMPORTANT: Warranty is void unless washer-extractor is installed according to instructions in this manual. Installation should comply with minimum specifications and requirements, and with applicable municipal building codes, water supply regulations, electrical wiring regulations and any other relevant statuary regulations. Due to varied requirements, applicable local codes should be thoroughly understood and all pre-installation work arranged for accordingly.

Delivery Inspection

Upon delivery, visually inspect crate, protective cover, and unit for any visible shipping damage. If the crate, protective cover, or unit is damaged or signs of possible damage are evident, have the carrier note the condition on the shipping papers before the shipping receipt is signed, or advise the carrier of the condition as soon as it is discovered.

Remove the crate and protective cover as soon after delivery as possible. If any damage is discovered upon removal of the crate and/or protective cover, advise the carrier and file a written claim immediately.

Name plate Location

The nameplate is located on the back of the machine. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 1* and *Figure 2*.

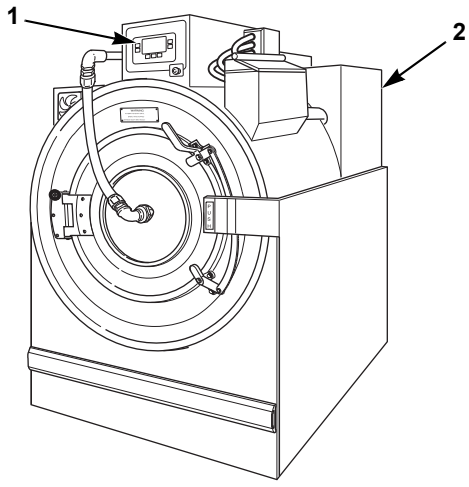
Nameplate Location - UniLinc Models

On UniLinc models, nameplate information is also programmed into the control. To access machine ID through the control:

1. Press and hold STOP ON/OFF, then BACK, then LCD keypads at the same time.
2. Press the → keypad until Diagnostic is highlighted.
3. Press the START ENTER keypad.
4. Press the → keypad until machine ID is highlighted.
5. Press the START ENTER keypad.

Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 1*.

MODEL EXAMPLE OF NAMEPLATE LOCATION



PHM1400C

1	In Control (UniLinc Models)
2	At Back of Machine

Figure 1

Replacement Parts

If literature or replacement parts are required, contact the source from which the washer-extractor was purchased or contact Alliance Laundry Systems LLC at (920) 748-3950 for the name of the nearest authorized parts distributor. A parts manual may be ordered by returning the reply card provided with each washer-extractor.

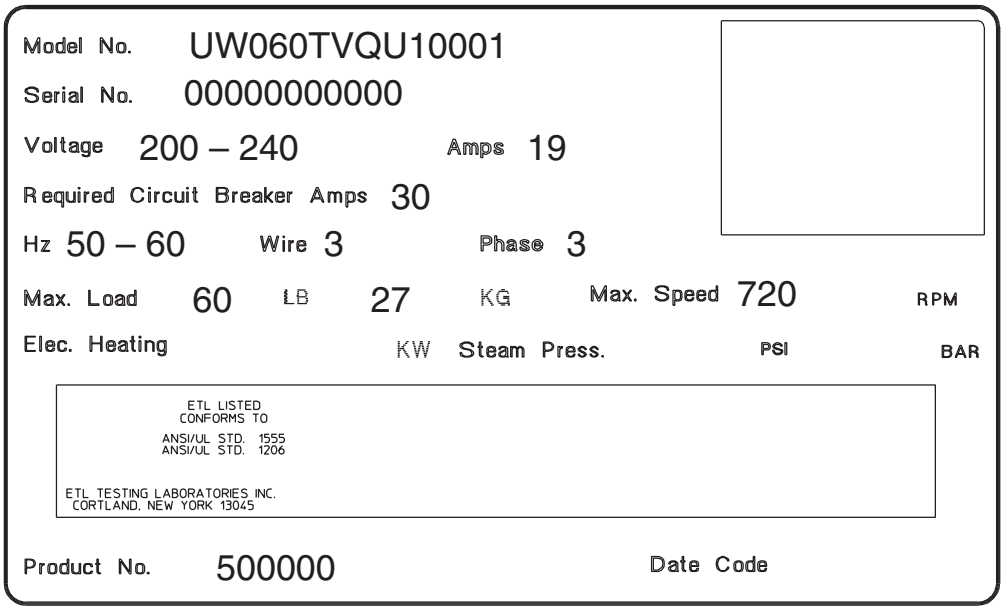
Customer Service

For technical assistance, contact your local distributor or call:

(920) 748-3121
Ripon, Wisconsin

A record of each washer-extractor is on file with the manufacturer. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 1* and *Figure 2*.

Model Number Familiarization Guide		
Sample Model Number: **UW60TVQU10001**		
UW	Model Number Prefix	
60	Washer-Extractor Capacity (60 pounds dry weight of laundry)	
T	Type of Electrical Control	T = UniLinc Control
V	Washer-Extractor Speed Capabilities	V = 8 Speeds
Q	Electrical Characteristics	Refer to *Table 7*.
U1	Design Series	
0001	Option Identification (varies from machine to machine)	



EXAMPLE OF SERIAL PLATE

PHM697N

Figure 2

Specifications and Dimensions

Specifications	35	60	80	100	125	150
Overall Dimensions						
Overall width, in (mm)	32.5 (826)	36.625 (930)	41.5 (1054)	41.5 (1054)	48 (1219)	50.25 (1277)
Overall height, in (mm)	55.5 (1410)	64.5 (1638)	68.5 (1740)	68.5 (1740)	72 (1829)	79 (2007)
Overall depth, in (mm)	43.625 (1108)	45 (1143)	51.5 (1308)	54.5 (1384)	58 (1473)	63 (1600)
Weight And Shipping Information						
Net weight, lb (kg)	1030 (468)	1300 (590)	1730 (785)	1770 (805)	2420 (1100)	2970 (1347)
Basket Weight, lb (kg)	150 (68)	200 (92)	330 (150)	360 (163)	550 (250)	572 (260)*
Domestic shipping weight, lb (kg)	1085 (493)	1340 (608)	1795 (814)	1835 (832)	2525 (1148)	3022 (1371)
Domestic shipping volume, ft^3 (m^3)	66 (1.9)	84 (2.4)	119 (3.4)	119 (3.4)	166 (4.7)	172 (4.87)
Domestic shipping dimensions, WxDxH, in (mm)	38x47x64 (970x1200x 1630)	40x49x74.5 (1016x1245x 1892)	44x60.5 x77.25 (1118x1537x 1962)	44x60.5x77.25 (1118x1537x 1962)	61.5x60x77.75 (1560x1520x 1980)	54.5x69x79 (139x176x 201)
Export shipping weight, lb (kg)	1150 (522)	1464 (664)	1990 (903)	2030 (921)	2800 (1270)	3350 (1520)
Export shipping volume, ft^3 (m^3)	78 (2.2)	96 (2.7)	134 (3.8)	134 (3.8)	184 (5.3)	220 (6.3)
Export shipping dimensions, WxDxH, in (mm)	41x50x65.5 (1050x1280x 1670)	43x52.125x74.5 (1092x1324x 1892)	47x63.5x77.25 (1194x1613x 1962)	47x63.5x77.25 (1194x1613x 1962)	63.5x63x80 (1620x1610x 2030)	61.5x71x87 (1562x1804x 2210)
Wash Cylinder Information						
Cylinder diameter, in (mm)	26.25 (667)	32 (813)	36 (914)	36 (914)	42 (1067)	43 (1093)
Cylinder depth, in (mm)	18.375 (467)	20 (508)	21 (533)	27 (686)	24 (610)	27.8125 (706)
Cylinder volume, ft^3 (l)	5.76 (163)	9.31 (264)	12.4 (350)	15.9 (450)	19.2 (544)	23.4 (662)
Perforation size, in (mm)	0.1875 (4.8)	0.1875 (4.8)	0.1875 (4.8)	0.1875 (4.8)	0.1875 (4.8)	0.1875 (4.8)
Perforation open area, %	18	22	23	23	24	21.5
Door Opening Information						
Door opening size, in (mm)	14.375 (365)	17.5 (445)	17.5 (445)	17.5 (445)	20 (508)	24.75 (629)
Height of door bottom above floor, in (mm)	23.75 (603)	28.25 (718)	29 (737)	29 (737)	29 (737)	32 (813)
Drive Train Information						
Number of motors in drive train	1	1	1	1	1	1
Drive motor power, hp (kW)	5.0 (3.7)	5.0 (3.7)	7.5 (5.6)	7.5 (5.6)	10 (7.5)	10 (7.5)

* Basket Only

(Continued)

(Continued)

Specifications		35	60	80	100	125	150
Cylinder Speeds / Centrifugal Force Data							
1/2 Wash/reverse, rpm (g)		26 (.25)	26 (.31)	26 (.35)	26 (.35)	26 (.40)	23 (.31)
Wash/reverse, rpm (g)		42 (.66)	40 (.73)	40 (.82)	40 (.82)	37 (.82)	36 (0.8)
Distribution, rpm (g)		83 (2.57)	71 (2.29)	73 (2.57)	70 (2.50)	62 (2.29)	61 (2.29)
Very Low extract, rpm (g)		401 (60)	364 (60)	343 (60)	343 (60)	317 (60)	314 (60)
Low extract rpm (g)		568 (120)	514 (120)	485 (120)	485 (120)	449 (120)	444 (120)
Medium extract, rpm (g)		695 (180)	630 (180)	594 (180)	594 (180)	550 (180)	543 (180)
High extract, rpm (g)		803 (240)	727 (240)	686 (240)	686 (240)	565 (190)	627 (240)
Very High extract, rpm (g)		898 (300)	813 (300)	766 (300)	766 (300)	579 (200)	701 (300)
Balance Detection							
Vibration switch installed		STD	STD	STD	STD	STD	STD
Direct Steam Heating (Optional)							
Steam inlet connection size, in (mm)		0.5 (13)	0.5 (13)	0.5 (13)	0.5 (13)	0.75 (19)	0.75 (19)
Number of steam inlets		1	1	1	1	1	1
Steam required to raise bath temperature 10°F, lb (10°C, kg)	LOW	2.1 (1.5)	3.3 (2.4)	4.6 (3.3)	5.7 (4.1)	6.7 (4.9)	8.3 (6.0)
	MED	2.3 (1.7)	3.7 (2.6)	5.2 (3.8)	6.5 (4.7)	7.8 (5.6)	9.5 (6.9)
	HIGH	2.7 (1.9)	4.1 (2.9)	6.1 (4.4)	7.6 (5.5)	9.1 (6.6)	11.1 (8.0)
Average consumption per cycle, BHP (kg)		1.4 (21.4)	2.1 (33.4)	3.1 (48.4)	3.8 (60.4)	4.6 (72.0)	5.8 (91.0)
Electrical Heating (Optional)							
Total electrical heating capacity, kW		15.6	27.4	41.2 (Q-Volt) 27.4 (N-Volt)	41.2 (Q-Volt) 27.4 (N-Volt)	N/A	N/A
Number of electrical heating elements		6	6	9	9	N/A	N/A
Electrical heating element size, kW		2.6	4.2	4.2	4.2	N/A	N/A
Time required to raise bath temperature 10°F, min (5°C, min)	LOW	2.4 (3.6)	2.4 (3.7)	2.2 (3.4)	2.8 (4.2)	N/A	N/A
	MED	2.7 (4.1)	2.7 (4.1)	2.5 (3.9)	3.2 (4.8)	N/A	N/A
	HIGH	3.1 (4.7)	3.0 (4.6)	3.0 (4.5)	3.7 (5.6)	N/A	N/A

Machine Dimensions

Dimensional Clearances

Allow a minimum of 24 inches (60 cm) at the rear and 6 inches (15.24 cm) at the sides for maintenance, inspection, and adjustment. Allow at least 6 inches (15.24 cm) between machines in multiple installations.

NOTE: The dimensions shown here are for planning purposes only. They are approximate and subject to normal manufacturing tolerances. If exact dimensions are required for construction purposes, contact the distributor or the manufacturer. We reserve the right to make changes at any time without notice.

WARNING

Crush hazard.

To avoid personal injury and/or property damage, do not tip the UW150 machine more than 25 degrees in any direction.

W642

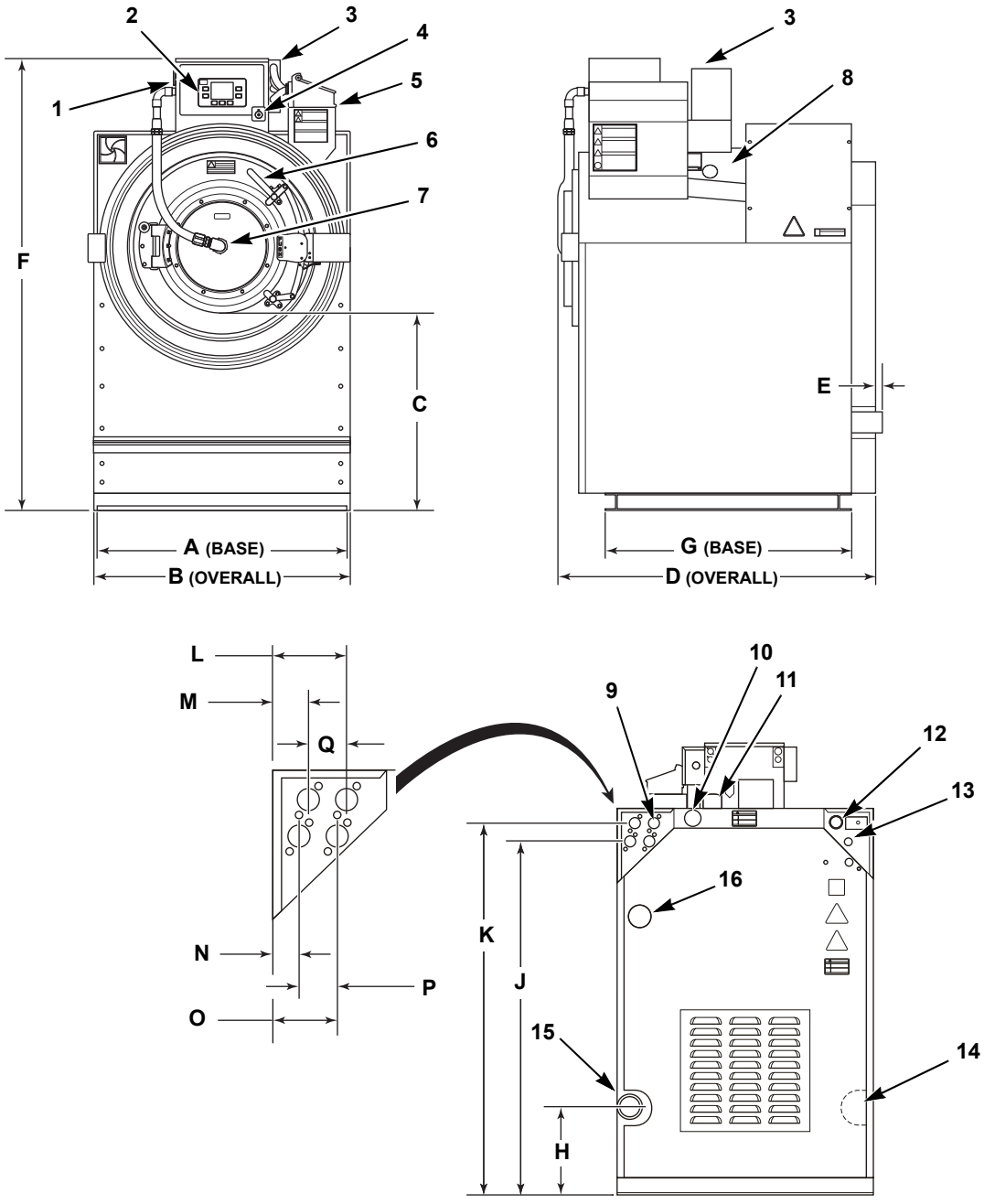
UWTV Models

(Refer to *Figure 3* and *Figure 4*)												
Dimension	35		60		80		100		125		150	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	30.125	765	35.625	905	41.125	1045	41.125	1045	48	1219	50.25	1277
B[1]	33.375	848	36.625	930	41.5	1054	41.5	1054	48	1219	50.25	1277
C	23.75	603	28.25	718	29	737	29	737	29	737	32	813
D	43.625	1108	45	1143	51.5	1308	54.5	1384	58	1473	63	1600
E[2]	.5	13	1	25	3	76	3	76	1.5	38	2.9	73
F	55.5	1410	64.5	1638	68.5	1740	68.5	1740	72	1829	79	2007
G[2]	36	914	36	914	43.75	1111	43.75	1111	48	1219	56	1422
H	8	203	15.5	394	16.875	429	16.875	429	11.375	289	15.75	400
J	43.14	1096	49.8	1265	53.54	1360	53.54	1360	56.4	1433	62.85	1596
K	46.64	1185	53.3	1354	57.04	1449	57.04	1449	59.9	1521	66.35	1685
L	5.12	130	5.12	130.05	7.12	181	7.12	181	7.12	181	7.12	181
M	2.62	66	2.62	66	3.62	92	3.62	92	3.62	92	3.62	92
N	1.37	35	1.37	35	2.25	57	2.25	57	2.25	57	2.25	57
O	3.87	98	3.87	98	5	127	5	127	5	127	5	127
P	2.5	64	2.5	64	2.75	70	2.75	70	2.75	70	2.75	70
Q	2.5	64	2.5	64	3.5	89	3.5	89	3.5	89	3.5	89

[1] Overhang dimensions for the optional starch dispenser are as follows:UW35TV, 3.88 inches (9.86 cm); UW60TV, 1.75 inches (4.45 cm); UW80TV and UW100TV, 0.33 inch (0.83 cm). (The starch dispenser does not overhang the UW125TV.) (No longer available.)

[2] The overhang dimension for the premium wet clean module option (compatible with wet-clean-capable washer-extractors only) adds 24 inches (60.96 cm) to combined machine dimensions E and G.

Table 1

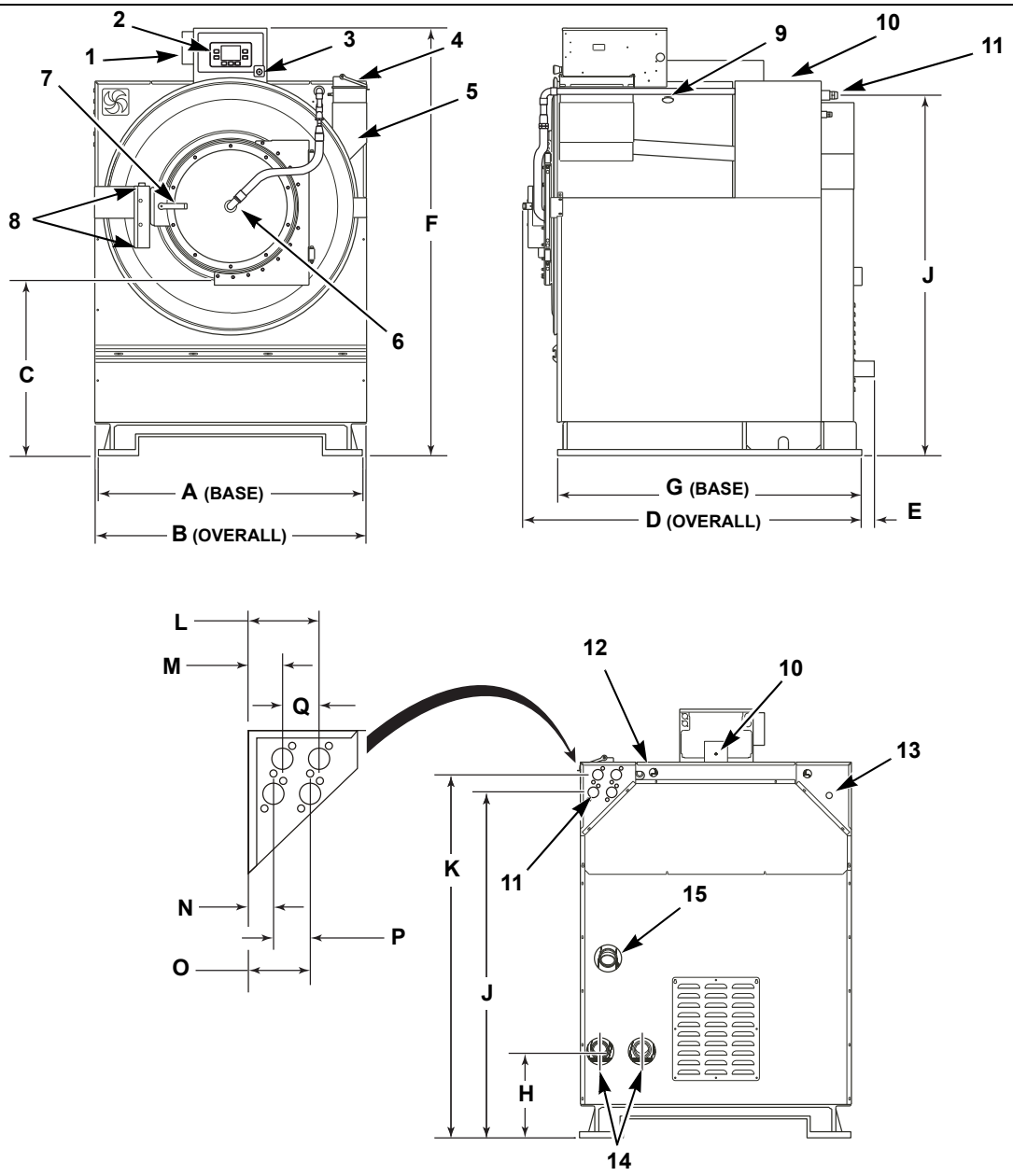


UW35TV - UW125TV MODELS

PHM735N

1	External Supply Control Mounting Bracket (Models Through 6/30/08)	**9**	Water Inlet Valves
2	Door Unlock Button	**10**	Steam Connection (Optional)
3	Supply Valve Box	**11**	Shell Vent
4	Emergency Stop Button	**12**	Power Input (Electric Heat Models)
5	Supply Dispenser	**13**	Power Input (Non-Electric Heat Models)
6	Door Handle	**14**	Drain (UW80TV, UW100TV and UW125TV models only)
7	Spray Rinse Nozzle	**15**	Drain
8	Recirculation Inlet	**16**	Overflow Vent

Figure 3



UW150TV MODELS

PHM736N

1	External Supply Control Mounting Bracket (Models Through 6/30/08)	**8**	Basket Jog Buttons
		9	Recirculation Inlet
2	Door Unlock Button	**10**	Shell Vent
3	Emergency Stop Button	**11**	Water Inlet Valves
4	Supply Valve Box	**12**	Steam Connection (Optional)
5	Supply Dispenser	**13**	Power Input
6	Spray Rinse Nozzle	**14**	Drain
7	Door Handle	**15**	Overflow Vent

Figure 4

Machine Foundation Requirements

A 6 inch (153 mm) (for 35 and 60 2-speed, L-speed and M-speed models) or a 12 inch (305 mm) (for all other models) thickness of 3500 psi reinforced concrete foundation is absolutely necessary because of the high extract speed and the G-forces exerted.

When designing floors or foundations, refer to *Table 2* for Floor Load Data for all model sizes. If the foundation requirements have been met, proceed to ***Mounting Bolt Installation Requirements*** section.

NOTE: Do not mount on wooden floors, above ground level, or over basements. Installation must be "slab on grade" or equal.

Thoroughness of detail must be stressed with all foundation work to ensure a stable unit installation, eliminating possibilities of excessive vibration during extract.

CAUTION

Ensure that the machine is installed on a floor that is level to within 3/8 inch when the machine is grouted. Also ensure that the floor is of sufficient strength and that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

W760

WARNING

To reduce the risk of fire, this appliance must be bolted to an uncovered concrete floor.

W743

For new foundations a bolt-locator fixture or rebar frame is available and a preferred option. This rigid welded assembly made of reinforcing rod and mounting bolts is designed to be embedded in concrete. Refer to *Figure 7*.

The washer-extractor must be anchored to a smooth level surface so that the entire base of the machine is supported and rests on the mounting surface. (Do not support the washer-extractor on only four points.) Make sure to grout machine. Refer to *Figure 6* and *Figure 7*.

Concrete Foundation Pad Installation

A concrete foundation and pad may be constructed to elevate the machines. Care must be exercised in the design of the foundation pad due to the force exerted by the machine during extract. This concrete base (recommended not to exceed 8 inches [20.32 cm]) (above existing floor) must be poured, reinforced with rebar and tied to the existing 6 inch (153 mm) (for 35 and 60 2-speed, L-speed and M-speed models) or 12 inch (305 mm) (for all other models) minimum floor. Refer to *Figure 5* and *Table 2*.

IMPORTANT: Do NOT install a pad on top of the existing floor. The foundation and pad must be constructed and tied together as one piece.

If the existing floor is not reinforced concrete at least 6 inch (153 mm) (for 35 and 60 2-speed, L-speed and M-speed models) or 12 inch (305 mm) (for all other models) thick over a solid foundation, the following steps must be performed (refer to *Figure 5*):

1. Cut a hole larger on all sides than the machine base through the existing floor. The foundation should extend a minimum of 9 inches (229 mm) for 35 models or 12 inches (305 mm) for 60 - 150 models out from the machine on all sides.
2. Excavate to a depth of 18 inches (457 mm) from the top of the existing floor.
3. Produce a **PYRAMID-SHAPED** hole by excavating the bottom of the hole to a width 6 inches wider on each side than the width of the top of the hole.
4. If installing a foundation and pad, prepare a form for the above-ground portion of the foundation. Verify that the top of the foundation is level. The height of the foundation pad must not exceed 8 inches (203 mm) above the existing floor.
5. Refill with compacted fill dirt, making sure to allow for correct concrete thickness.
6. Wet the hole around the cement foundation well and brush the exposed foundation with cement grout.
7. Completely fill with a minimum of 6 inch (153 mm) (for 35 and 60 2-speed, L-speed and M-speed models) or 12 inch (305 mm) (for all other models) of 3500 psi concrete up to the existing foundation level plus any added level for the desired elevated pad. The concrete must be poured so that the entire foundation and pad cures as one piece.
8. **For new foundations only** a bolt-locator fixture or a rebar frame is available and a preferred option. Embed the mounting bolts or rebar frame as the concrete is poured. Ensure that the bolt threads extend 2 inches (51 mm) for 35 - 125 models and 3 inches (76 mm) for 150 models above floor level.
9. Allow concrete to dry.
10. Proceed to ***Machine Mounting and Grouting*** section.

NOTE: If the washer-extractor installation will include the Premium Wet Clean Module, the elevated base must be designed to accommodate the additional depth of 24 inches (60.96 cm).

For technical assistance, contact your local distributor or call Alliance Laundry Systems at (920) 748-3121.

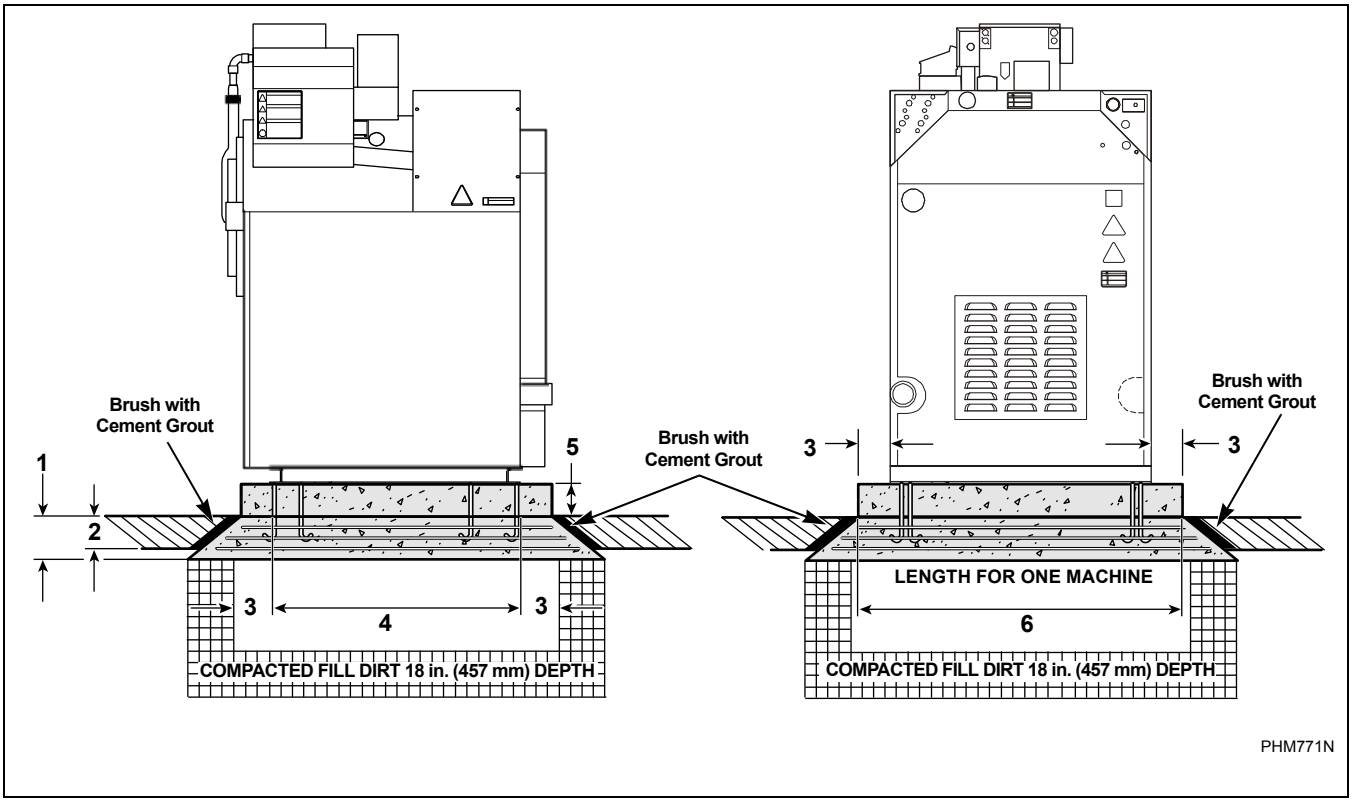


Figure 5

	35	60	80	100	125	150
1	2-Speed, L-Speed and M-Speed 6 in. (153 mm) / Variable-Speed 12 in. (305 mm)		12 in. (305 mm)	12 in. (305 mm)	12 in. (305 mm)	12 in. (305 mm)
2	6 in. (152 mm) minimum	6 in. (152 mm) minimum	6 in. (152 mm) minimum	6 in. (152 mm) minimum	6 in. (152 mm) minimum	6 in. (152 mm) minimum
3	9 in. (229 mm)	12 in. (305 mm)	12 in. (305 mm)	12 in. (305 mm)	12 in. (305 mm)	12 in. (305 mm)
4	36 in. (914 mm)	36 in. (914 mm)	43.75 in. (1111 mm)	43.75 in. (1111 mm)	48 in. (1219 mm)	56 in. (1422 mm)
5	0 - 8 in. (0 - 203 mm) max.	0 - 8 in. (0 - 203 mm) max.	0 - 8 in. (0 - 203 mm) max.	0 - 8 in. (0 - 203 mm) max.	0 - 8 in. (0 - 203 mm) max.	0 - 8 in. (0 - 203 mm) max.
6	48.125 in. (1222 mm)	59.625 in. (1514 mm)	65.125 in. (1654 mm)	65.125 in. (1654 mm)	72 in. (1829 mm)	74.25 in. (1886 mm)

Floor Load Data

Static and dynamic loads on the floor or foundation are shown in *Table 2*.

UWTV Pocket Hardmount Floor Load Data							
Specifications	**Design Series**	**35**	**60**	**80**	**100**	**125**	**150**
Static floor load, lbs (kN)	U1 and greater	1272 (5.66)	1677 (7.45)	2292 (10.2)	2490 (11.1)	3283 (14.6)	3936 (17.5)
Static pressure, lbs/ft^2	U1 and greater	169 (8.08)	187 (8.94)	184 (8.79)	199 (9.6)	205 (9.8)	202 (9.7)
Dynamic floor load, lbs (kN)	U1 and greater	1648 (7.33)	2824 (12.6)	3679 (16.36)	3690 (16.41)	5011 (22.29)	4358 (19.4)
Dynamic pressure, lbs/ft^2 (kN/m^2)	U1 and greater	219 (10.5)	317 (15.2)	295 (14.2)	295 (14.2)	312 (15)	224 (11)
Dynamic load frequency, Hz	U1 and greater	15	13.6	12.8	12.8	9.7	11.7
[1]Maximum vertical load, lbs (kN)	U1 and greater	2719 (12.1)	4168 (18.5)	5482 (24.38)	5561 (24.73)	7559 (33.62)	7508 (33.4)
[2]Minimum vertical load, lbs (kN)	U1 and greater	576 (2.56)	1450 (6.45)	1852 (8.24)	1794 (8.0)	2434 (10.8)	1208 (5.4)
Base moment, lb/ft (kN/m)	U1 and greater	4249 (5.8)	8895 (12.1)	11951 (16.2)	11984 (16.3)	16606 (22.5)	16707 (22.7)

1 Acting in the downward direction against the floor.

2 Acting in the upward direction away from the floor.

Table 2

Mounting Bolt Installation Requirements

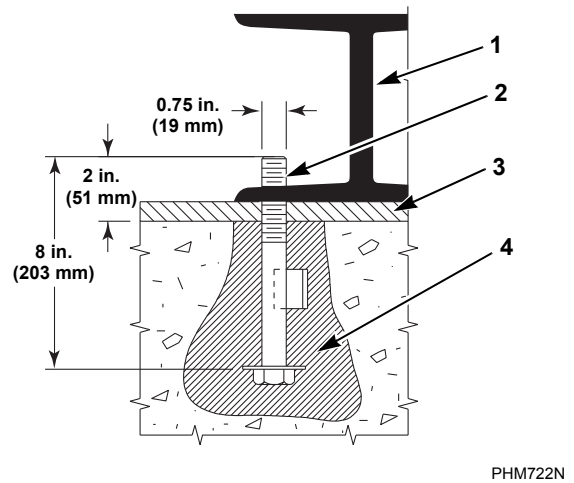
Approved Foundations Only

NOTE: If installing expansion bolts into an elevated concrete foundation pad, the concrete foundation pad should extend a minimum of 9 inches (229 mm) for 35 machines or 12 inches (305 mm) for 60 - 150 machines out from the machine base on all sides. Refer to *Figure 5*.

A bolt kit consisting of eight bolts is available as an option. 35 machines use 5/8-11 x 8 inch bolts. 60 – 125 machines use 3/4-10 x 8 inch bolts. 150 machines use 3/4-10 x 10 inch grade 5 bolts. The bolts should be embedded in a 3500 psi (241 bar) minimum reinforced concrete floor that is a minimum of 6 inches (153 mm) (for 35 and 60 2-speed, L-speed, and M-speed models) or a 12 inch (305 mm) (for all other models) thick. Use the mounting bolt layouts in ***Mounting Bolt Hole Locations*** section.

On 35 – 125 machines, the threaded end of the bolts should extend 2 inches (5.08 cm) above the mounting surface. On 150 machines, the threaded end of the bolts should extend 3 inches above the mounting surface.

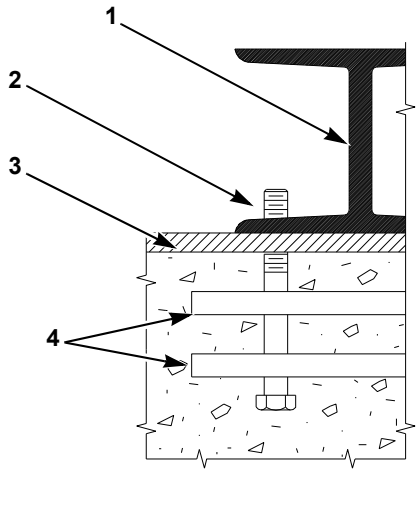
Refer to *Figure 6* for a typical installation of individual mounting bolts.



1	Machine Frame Base
2	Mounting Bolt Threads
3	Grouting
4	Cement or Structural Epoxy

Figure 6

For new foundations a bolt-locator fixture or rebar frame is available and a preferred option. This rigid welded assembly made of reinforcing rod and mounting bolts is designed to be embedded in concrete. Refer to *Figure 7*.



1	Machine Frame Base
2	Mounting Bolt Threads
3	Grouting
4	Reinforcing Rod

Figure 7

Machine Mounting and Grouting

After the concrete has cured, proceed as follows:

1. Place the washer-extractor adjacent to the foundation. Do not attempt to move the machine by pushing on the sides. Always insert a pry bar or other device under the bottom frame of the machine to move it.
2. Remove the wood skid by unscrewing the carriage bolts holding the skid to the bottom frame of the washer-extractor.
3. Place the washer-extractor carefully over the anchor bolts. Never attempt to lift the machine by the door handle or by pushing on the cover panels.
4. Raise and level the washer-extractor 0.5 inch (1.27 cm) off the floor on three points, using spacers such as nut fasteners.
5. Fill the space between the washer-extractor base and the floor with a good quality **non-shrinking machinery precision grout** to ensure a stable installation. Grout completely under all frame members. (Remove front panel and back panel to gain access to **all** frame members.) Refer to *Figure 13*. Force grout under machine base until all voids are filled.
6. **Remove the spacers carefully, allowing the machine to settle into the wet grout.**
7. Before grout sets completely, make a drain opening in the rear of the washer-extractor grouting with a stiff piece of wire; this opening should be approximately 1/2 inch (1.27 cm) wide to allow any surface water build-up under the base of the machine to drain away. **Do not omit this step.**
8. Position the mounting bolt lockwashers and locknuts on the anchor bolts and finger-tighten locknuts to machine base.
9. After the grout is completely dry, tighten the locknuts by even increments – one after the other – until all are tightened evenly and the washer-extractor is fastened securely to the floor.
10. After installing bolts using a rebar frame, torque 5/8 inch bolts (35 model) to 90 ft. lb. and torque 3/4 inch bolts (60-150 models) to 160 ft. lb. When using bolts not specified by Alliance Laundry Systems, refer to the specifications provided with the bolt.

NOTE: Check and retighten the locknuts after five to ten days of operation and every month thereafter.

NOTE: Mounting holes marked "A" need to be used on all V-Speed Models only.

Mounting Bolt Hole Locations

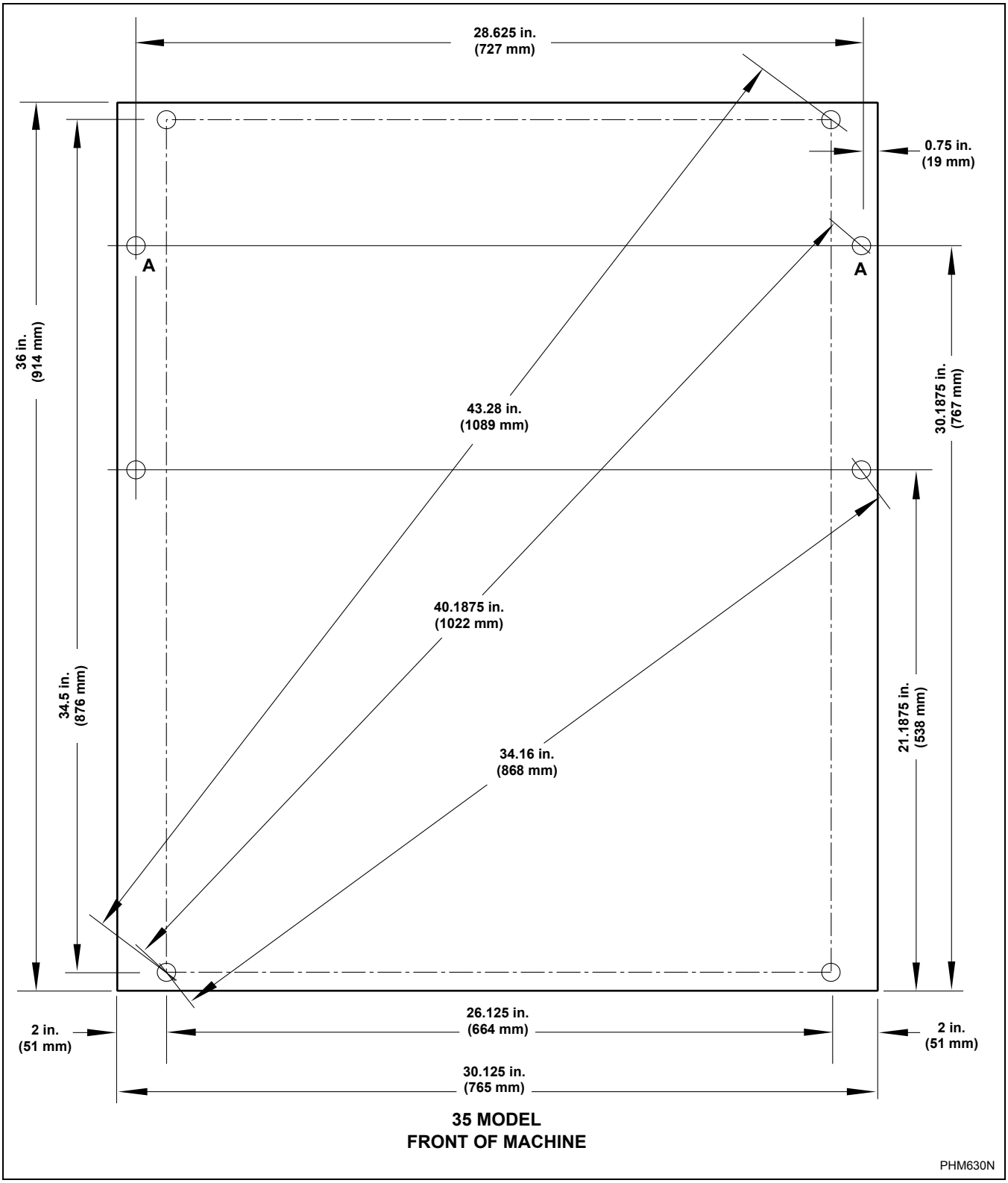


Figure 8

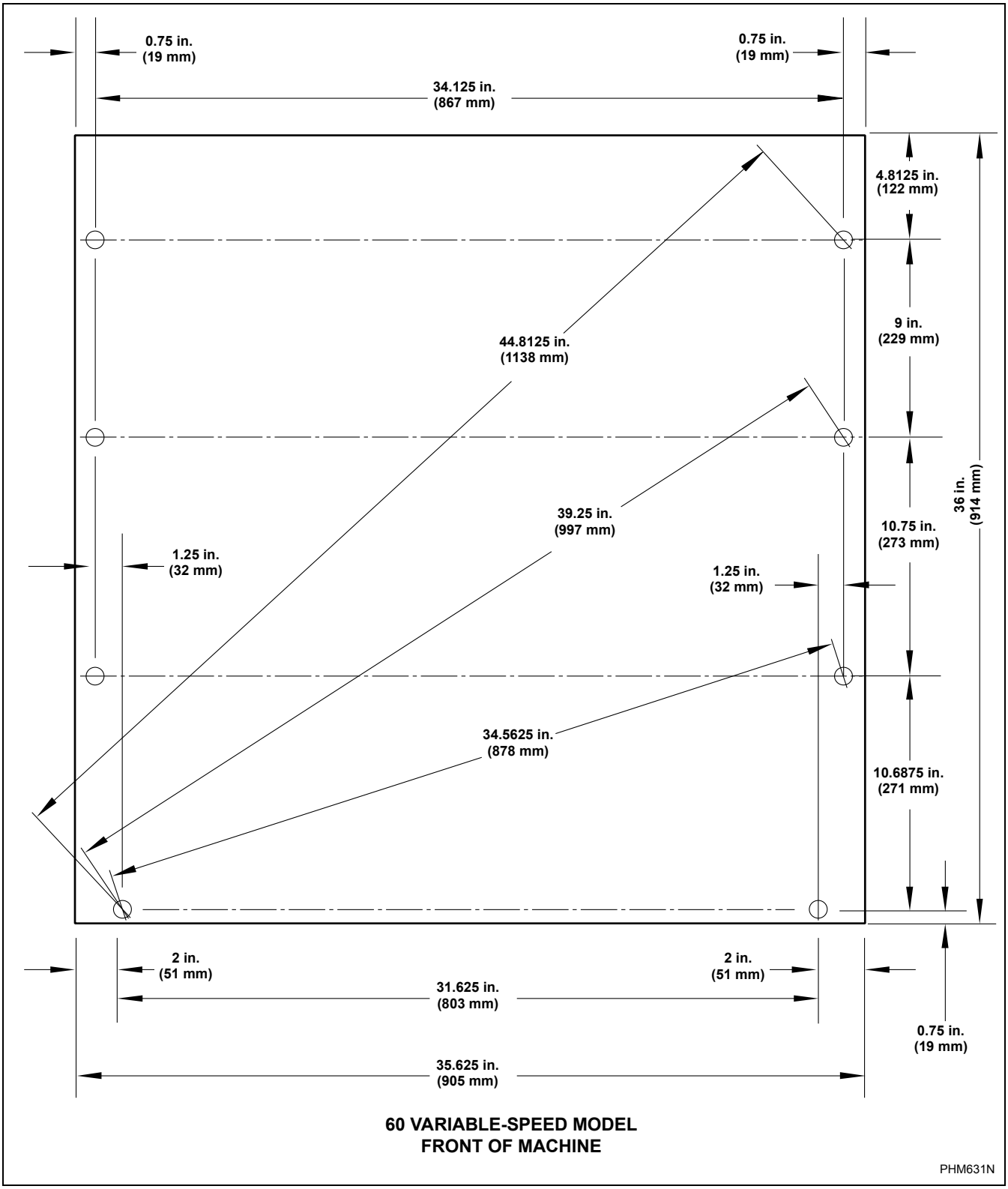


Figure 9

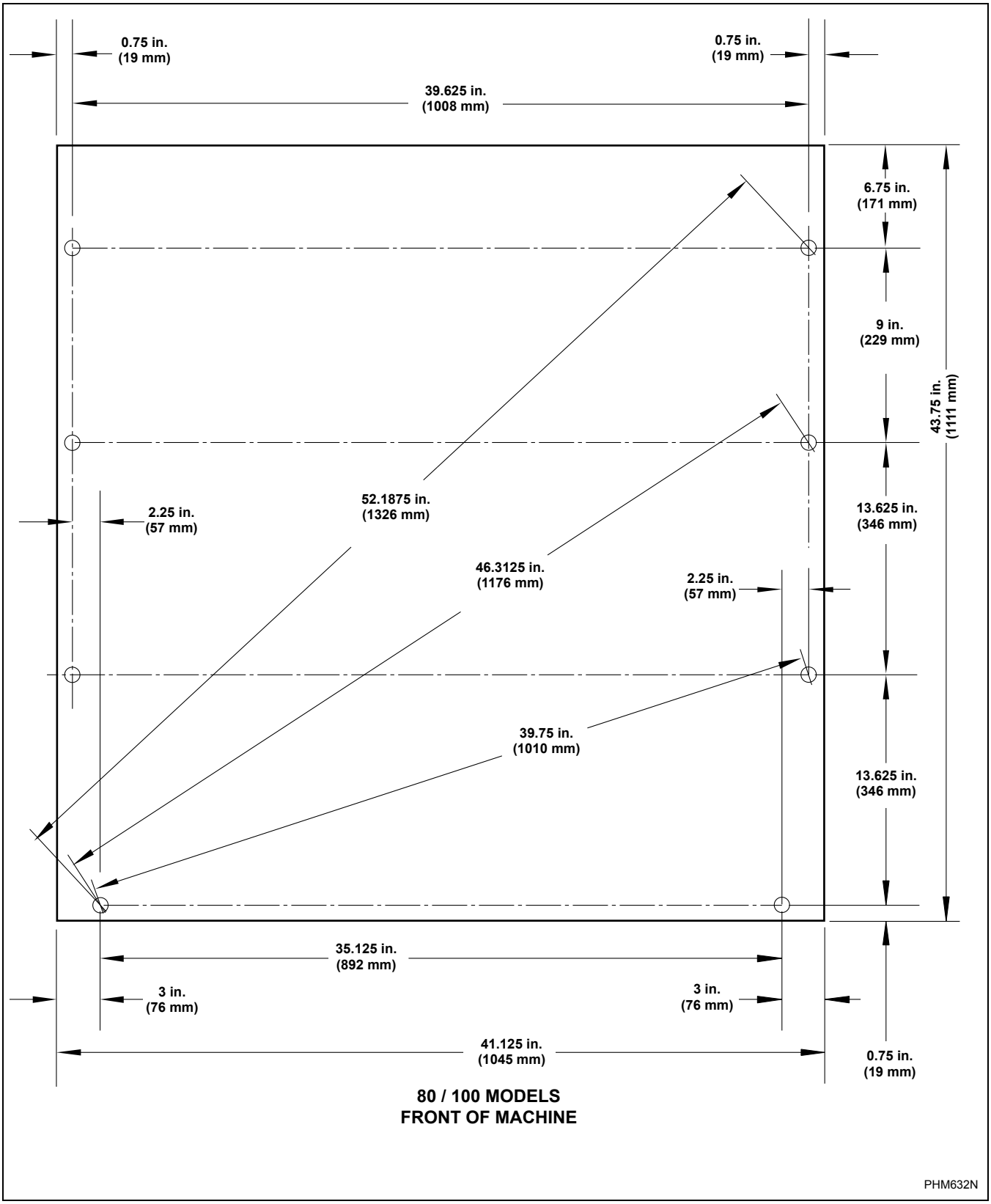


Figure 10

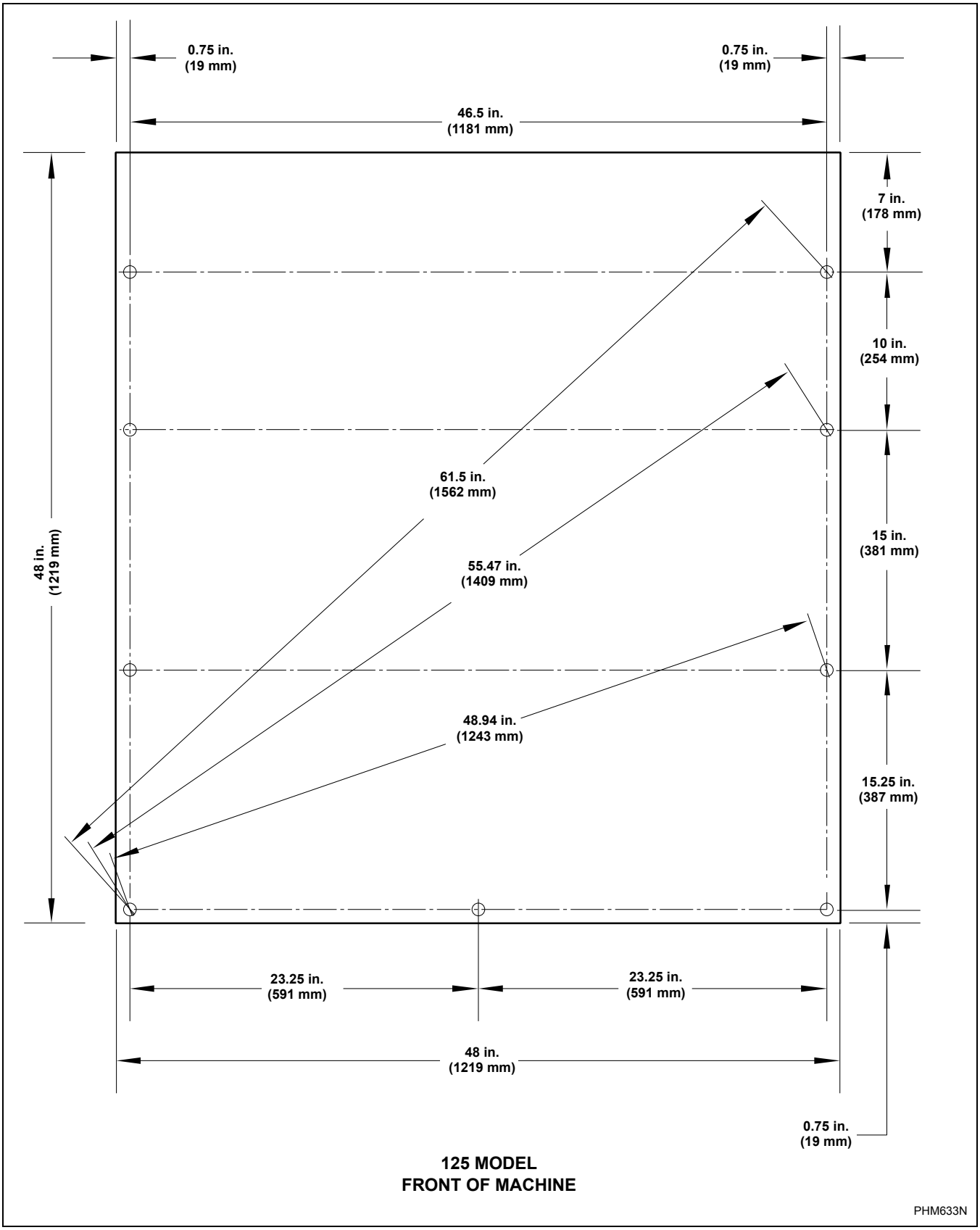


Figure 11

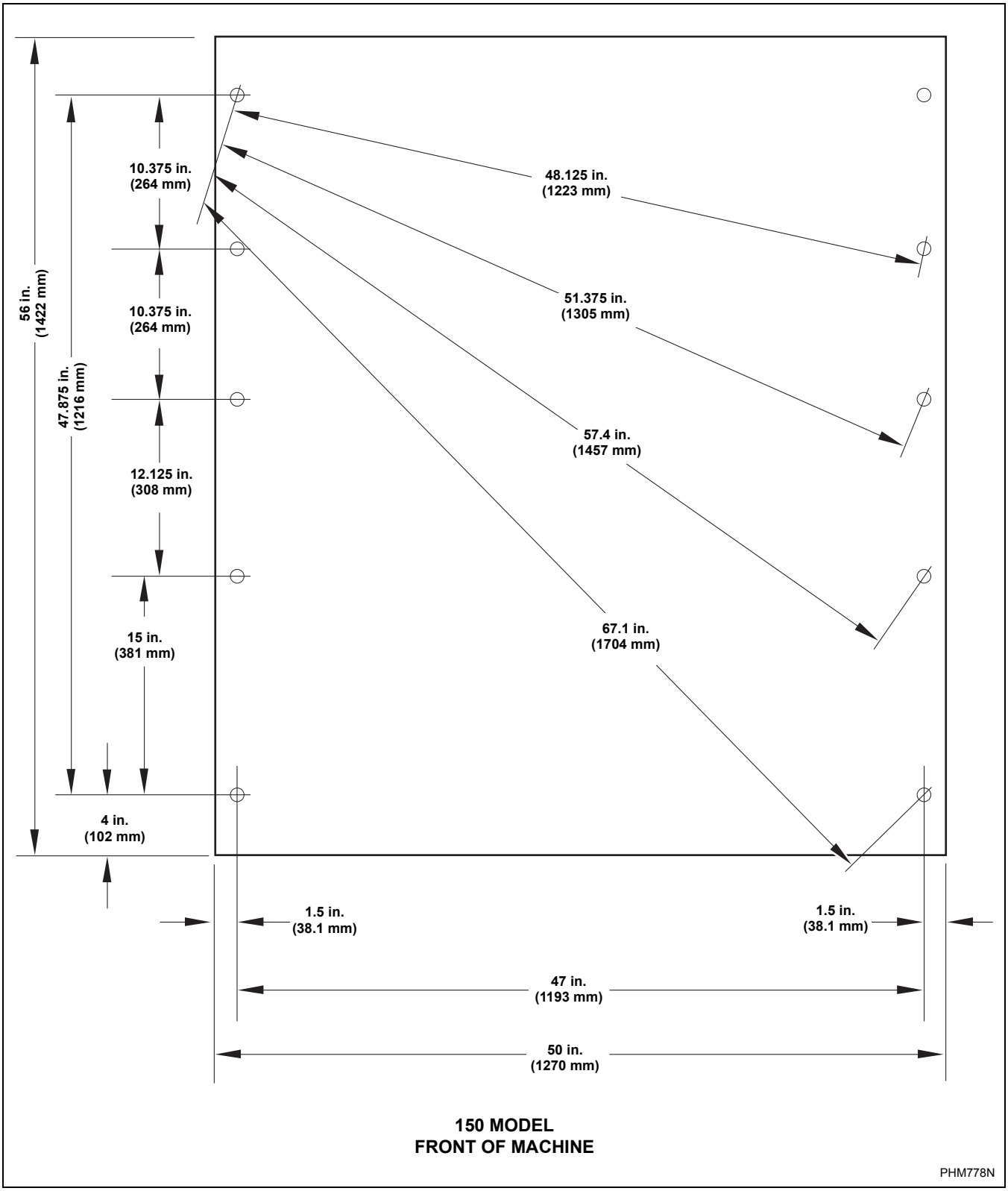


Figure 12

Grout Placement

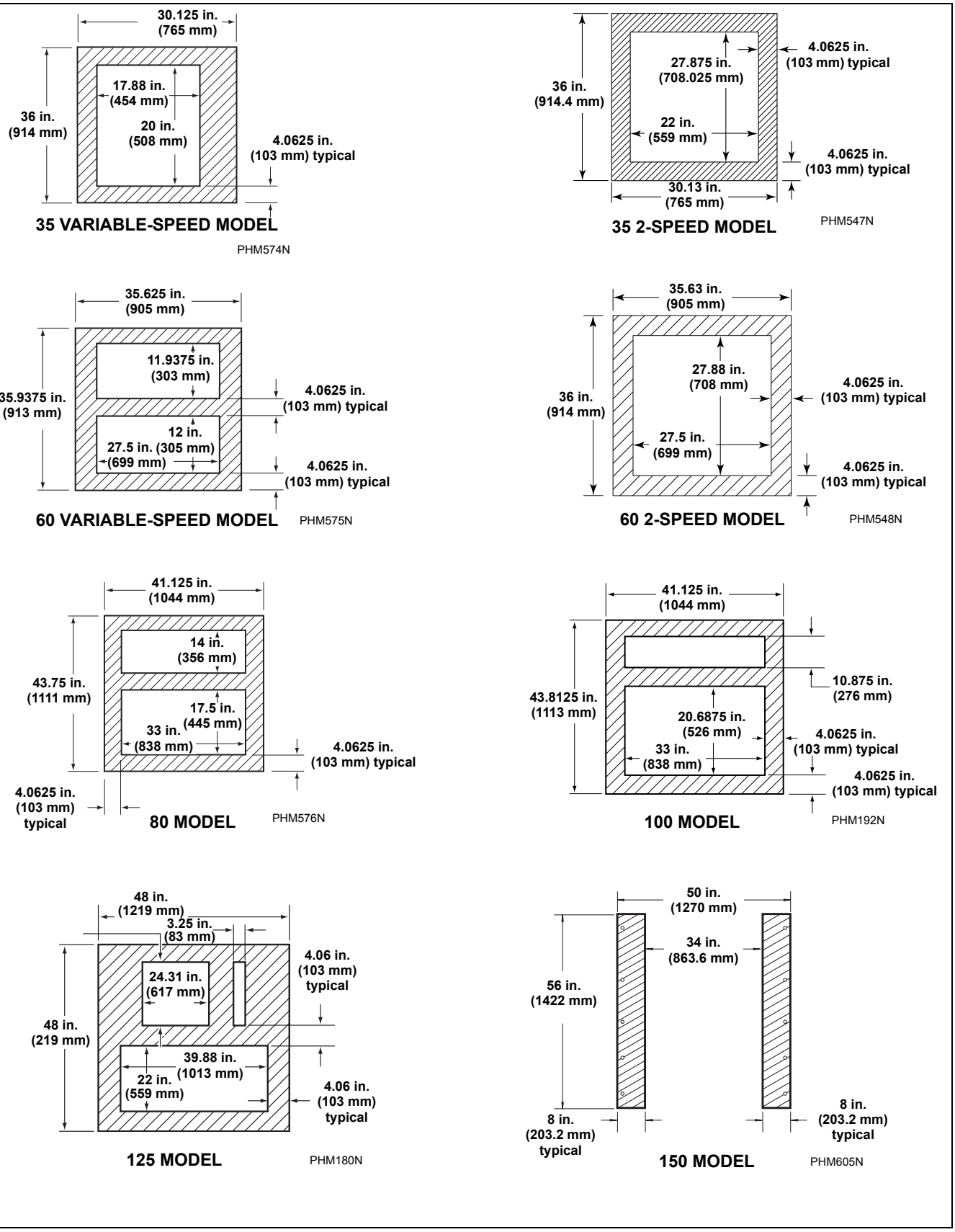


Figure 13

Gap Setting for Vibration Switch

After the machine has been properly installed, the vibration switch gap must be verified. To locate the vibration switch refer to *Figures 14*, *15* and *16*. For UniLinc models, while the control is displaying the Inputs Outputs Menu the alarm will sound when the frame switch is activated. To verify and set the vibration switch gap use the following procedures:

WARNING

Only trained personnel should perform this procedure. Use caution while servicing machines with covers removed and power applied.

W700

For UniLinc Models, Navigate to the Inputs Outputs Menu:

1. From the Cycle Menu press and hold the STOP ON/OFF, BACK, LCD keys to enter the System Menu.
2. Press the arrow keys to highlight the Diagnostic box.
3. Press the START ENTER key to enter the Diagnostic Menu.
4. Press the START ENTER key to enter the Test Menu.
5. Press the arrow keys to highlight the Inputs Outputs box.
6. Press the START ENTER key to enter the Inputs Outputs Menu.

Verify Vibration Switch Gap (for 35-125 Pound Models):

1. Insert 0.009 inch feeler gauge between the adjustment bolt and the vibration switch; the alarm must not activate.
2. Remove the feeler gauge.
3. Insert 0.010 inch feeler gauge (supplied with machine) between the adjustment bolt and the vibration switch; the alarm must activate.
4. Remove the feeler gauge.
5. Adjust the vibration switch adjustment bolt if necessary.

Verify Vibration Switch Gap (For 150 Pound Models):

1. Insert the 0.010 inch feeler gauge (supplied with machine) between the adjustment bolt and the vibration switch.
2. If alarm is active: Slowly loosen adjustment bolt until the alarm stops.
3. Very slowly tighten the adjustment bolt until the alarm activates. The adjustment bolt must be tightened very slowly to prevent over adjustment.
4. Remove the feeler gauge.
5. Verify the Frame Switch setting.

To adjust the vibration switch gap on the 150 models, move the vibration switch by adjusting the jam nuts on the vibration switch.

For UniLinc models, to return to the Cycle Menu press BACK key several times until Cycle Menu is displayed.

35 Pound Model

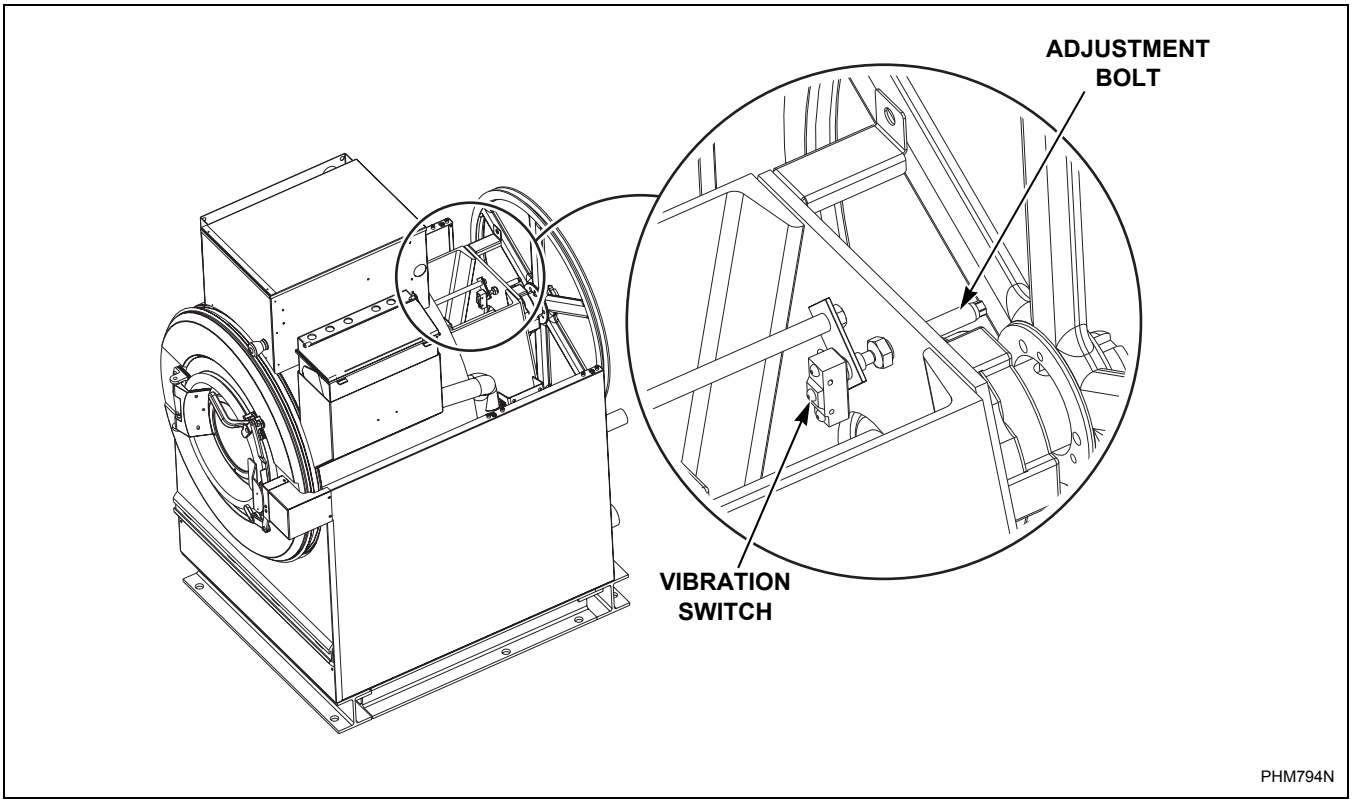


Figure 14

60, 80, 100 and 125 Pound Models

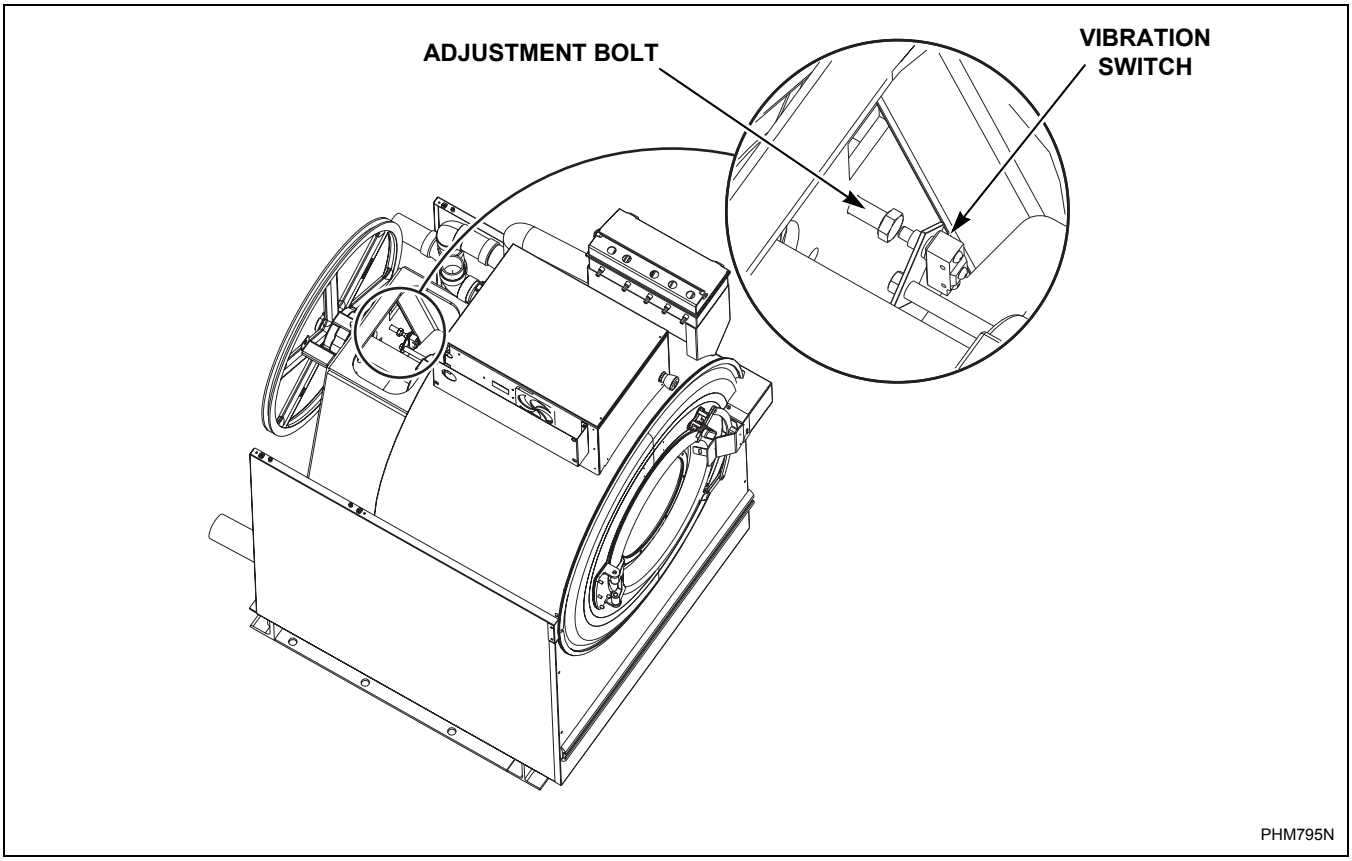


Figure 15

150 Pound Model

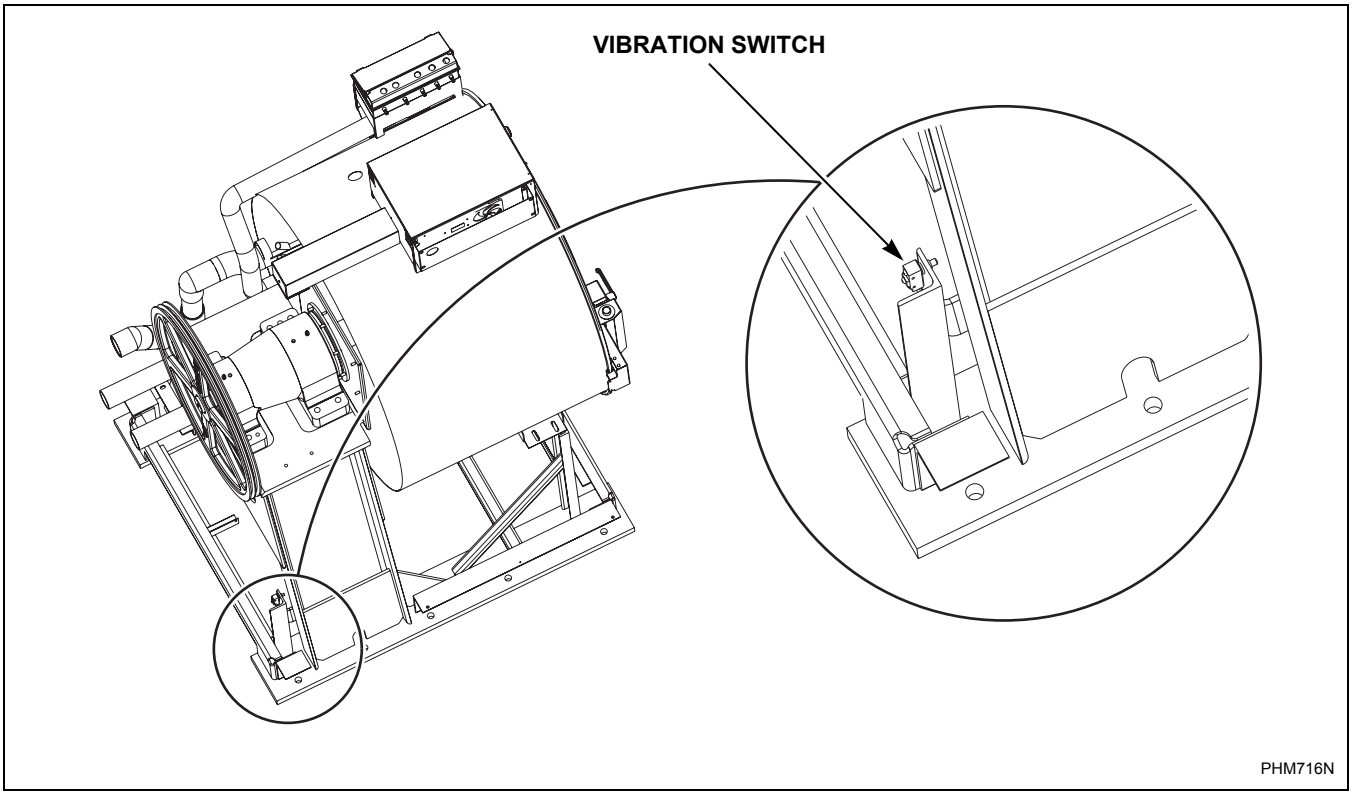
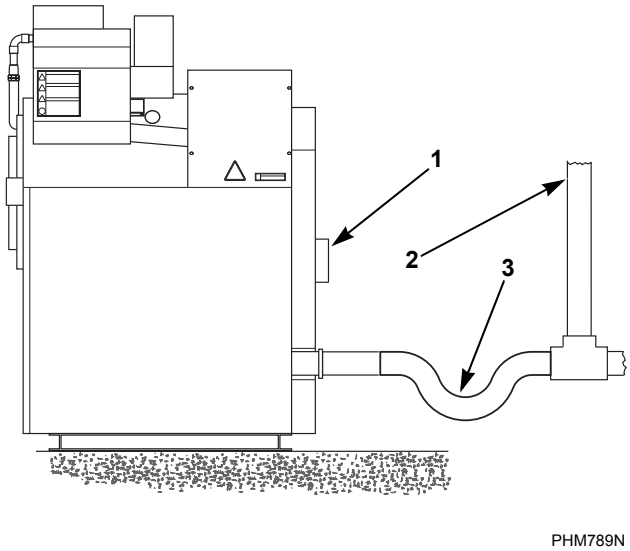


Figure 16

Drain Connection Requirements

A drain system of adequate capacity is essential to washer-extractor performance. The water can empty directly into a sump or floor drain. *Figure 17* shows the drain line configuration and *Figure 18* shows the drain trough configuration.

DRAIN LINE CONFIGURATION



1	Overflow
2	Vent
3	Trap (As required by local codes)

NOTE: If a flexible connection is made directly to a drain system, the drain system must be vented to prevent an air lock and siphoning.

Figure 17

A flexible connection must be made to a vented drain system to prevent an air lock and to prevent siphoning.

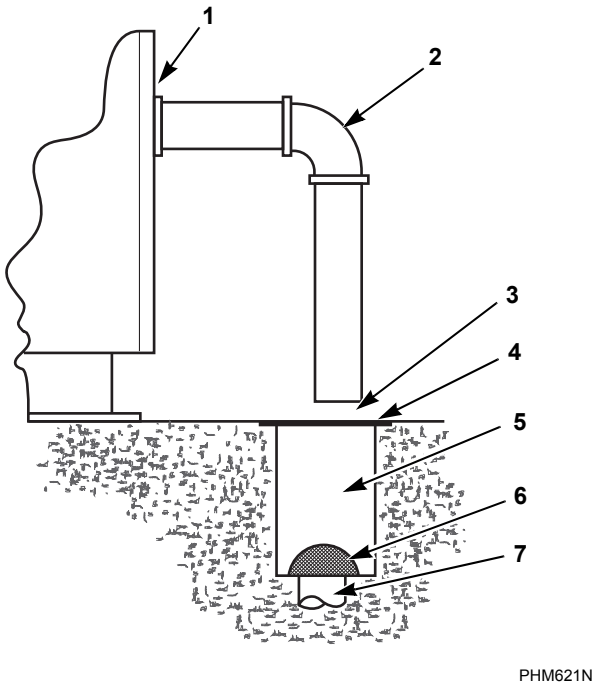
IMPORTANT: Washer-extractor must be installed in accordance with all local codes and ordinances.

If proper drain size is not available or practical, a surge tank is required. A surge tank in conjunction with a sump pump should be used when gravity drainage is not possible, such as in below-ground-level installations.

Before any deviation from specified installation procedures is attempted, the customer or installer should contact the distributor.

Increasing the drain hose length, installing elbows, or causing bends will decrease drain flow rate and increase drain times, impairing washer-extractor performance.

DRAIN TROUGH CONFIGURATION



1	Rear of Machine
2	Drain Pipe
3	1 Inch Minimum Air Gap
4	Steel Grate
5	Drain Trough
6	Strainer
7	Waste Line

Figure 18

Refer to *Table 3* for capacity-specific drain information.

Installation of additional washer-extractors will require proportionately larger drain connections. Refer to *Table 4*.

IMPORTANT: Do not block the overflow vent above the drain line.

If water or suds flow from the overflow vent and the machine has been verified to be operating properly with proper water levels and correct amount of laundry chemicals, a drain line may be added to the vent and routed to a drain trough.

1. Remove the riveted bracket on the rear panel for access to the overflow vent pipe.
2. Route a drain pipe from the vent pipe to a drain trough. Drain pipe should be routed straight across or down and be suspended above drain trough by at least 3 inches (7.62 cm).

IMPORTANT: Do not route the overflow vent pipe to a direct drain system.

Drain Information						
Specifications	**35**	**60**	**80**	**100**	**125**	**150**
Drain connection size, O.D., in. (mm) with second drain:	2.375 (60)	3 (76)	3 (76)	3 (76)	3 (76)	3 (77)
Number of drain outlets	1	1	2	2	2	2
Drain flow capacity, gal/min. (l/min.)	35 (132)	64 (242)	120 (454)	120 (454)	140 (530)	140 (530)
Recommended drain pit size, ft^3 (l) †	5 (142)	6 (170)	9 (255)	11 (311)	13 (368)	13 (368)

†Sized for one machine using overflow level.

Table 3

Drain Line Sizing Minimum Drain I.D., in. (mm)				
Model	**Number of Machines**			
	1	**2**	**3**	**4**
35	3 (76.2)	3 (76.2)	3.5 (88.9)	4 (102)
60	3 (76.2)	4 (102)	6 (152)	6 (152)
80	4 (102)	6 (152)	6 (152)	8 (203)
100	4 (102)	6 (152)	6 (152)	8 (203)
125	4 (102)	6 (152)	6 (152)	8 (203)
150	4 (102)	6 (152)	6 (152)	8 (203)

Table 4

Water Connection

WARNING

To prevent personal injury, avoid contact with inlet water temperatures higher than 125° Fahrenheit (51° Celsius) and hot surfaces.

W748

Maximum water inlet temperature is 190° Fahrenheit (88° Celsius).

Water Supply Information				
Specifications	**35**	**60**	**80/100**	**125/150**
Number of main fill water inlets	2	2	2	2
Main fill water inlet size, in. (mm)	3/4 (19)	3/4 (19)	3/4 (19)	1 (25.4)
Number of Spray Rinse water inlets	2	2	2	2
Spray rinse water inlet size, in. (mm)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)
Recommended pressure, psi (bar)	30 – 85 (2 – 5.7)			
Inlet flow capacity (80 psi), gal/min. (l/min)	31 (117)	39 (148)	41 (155)	48 (182)

Table 5

Connections should be supplied by hot and cold water lines of at least the sizes shown in the Water Supply Line Sizing table. Installation of additional machines will require proportionately larger water lines. Refer to *Table 6*. Flush the water lines before connecting them to the machine.

To connect water service to machine with rubber hoses, use the following procedure:

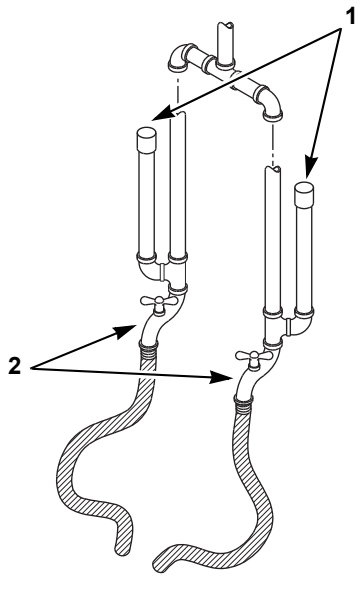
1. Before installing hoses, flush the water system for at least two minutes.
2. Check filters in the washer-extractor's inlet hoses for proper fit and cleanliness before connecting.
3. Hang the hoses in a large loop; do not allow them to kink.

If additional hose lengths are needed, use flexible hoses with screen filters. Each hose should have a screen filter installed to keep rust and other foreign particles out of the water inlet valves.

Pressure of 30 – 85 psi (2 – 5.7 bar) provides best performance. Although the washer-extractor will function properly at lower pressures, increased fill times will occur.

Suitable air cushions should be installed in supply lines to prevent "hammering." Refer to *Figure 19*.

For machines labeled with the CE mark, backsiphon protection devices must be installed previous of all machine water inlet valves in accordance with accepted European standards.



1 Air Cushions (Risers)
2 Water Supply Faucets

Figure 19

Water Supply Line Sizing			
Model	Number of Machines	Supply Line Size, in. (mm)	
		Main	Hot/Cold
35	1	1 (25)	0.75 (19)
	2	1.5 (38)	1 (25)
	3	2 (50)	1.25 (32)
	4	2 (50)	1.5 (38)
60	1	1.25 (32)	1 (25)
	2	2 (50)	1.25 (32)
	3	2 (50)	1.5 (38)
	4	2.5 (64)	2 (50)
80	1	1.25 (32)	1 (25)
	2	2 (50)	1.25 (32)
	3	2 (50)	1.5 (38)
	4	2.5 (64)	2 (50)
100	1	1.5 (38)	1 (25)
	2	2 (50)	1.5 (38)
	3	2 (50)	1.5 (38)
	4	2.5 (64)	2 (50)
125	1	2 (50)	1.25 (32)
	2	2.5 (64)	2 (50)
	3	2.5 (64)	2 (50)
	4	2.5 (64)	2.5 (64)
150	1	2 (50)	1.25 (32)
	2	2.5 (64)	2 (50)
	3	2.5 (64)	2 (50)
	4	2.5 (64)	2.5 (64)

Table 6

Electrical Installation Requirements

IMPORTANT: Electrical ratings are subject to change. Refer to serial decal for electrical ratings information specific to your machine.

WARNING

This machine must be installed, adjusted, and serviced by qualified electrical maintenance personnel familiar with the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury and/or equipment damage, and may void the warranty.

SW004

WARNING

Dangerous voltages are present in the electrical control box(es) and at the motor terminals. Only qualified personnel familiar with electrical test procedures, test equipment, and safety precautions should attempt adjustments and troubleshooting. Disconnect power from the machine and wait 3 minutes before removing the control box cover, and before attempting any service procedures.

W702

WARNING

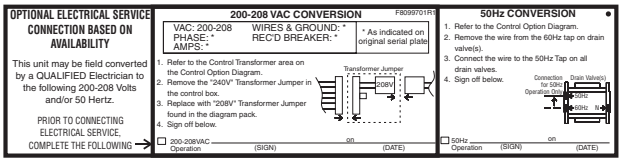
Ensure that a ground wire from a proven earth ground is connected to the ground lug near the input power block on this machine. Without proper grounding, personal injury from electric shock could occur and machine malfunctions may be evident.

SW008

Electrical connections are made at the rear of the machine. The machine must be connected to the proper electrical supply shown on the identification plate attached to the rear of the machine, using copper conductors only.

IMPORTANT: Alliance Laundry Systems warranty does not cover components that fail as a result of improper input voltage.

Make sure the correct transformer jumper (208 Volt or 240 Volt) is in place. Refer to the “optional” Electrical Service Connection label located on the back of the machine near the electrical service input for machine electrical requirements. Refer to *Figure 20*.



PHM740N

Figure 20

On variable-speed models, the AC inverter drive requires a clean power supply free from voltage spikes and surges. A voltage monitor should be used to check incoming power. The customer’s local power company may provide such a monitor.

The following conditions require corrective action, contact the local utility to adjust the voltage. If the local utility cannot adjust the input voltage, install a buckboost transformer to lower the input voltage. Input voltage is above 240V or 480V, phase to ground voltage exceeds 125% of normal line to line voltage, or 240V open delta configuration (stinger leg). Contact the distributor or the manufacturer for assistance.

On variable-speed models, the AC drive provides thermal overload protection for the drive motor. However, a separate three-phase circuit breaker must be installed for complete electrical overload protection. This prevents damage to the motor by disconnecting all legs if one should be lost accidentally. Check the serial plate on the back of the washer-extractor for recommended circuit breaker requirements size.

IMPORTANT: Do NOT use fuses in place of a circuit breaker.

CAUTION

Do not use a phase adder on any variable-speed machine.

SW037

The washer-extractor should be connected to an individual branch circuit not shared with lighting or other equipment.

The connection should be shielded in a liquid-tight or approved flexible conduit with proper conductors of correct size installed in accordance with the National Electric Code or other applicable codes. The connection must be made by a qualified electrician using the wiring diagram provided with the washer-extractor, or according to accepted European standards for equipment labeled with the CE mark.

Refer to serial plate for recommended circuit breaker size and determine wire size based on local code requirements.

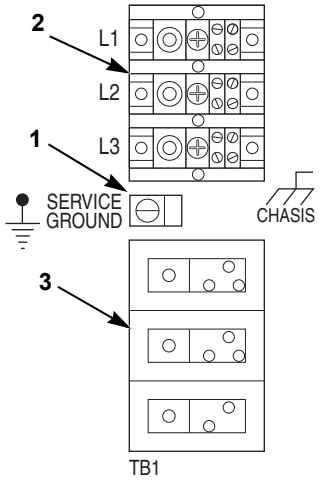
Refer to serial plate for recommended wire sizes for runs up to 50 feet (15.24 meters). Use next larger size for runs of 50 to 100 feet (15.24 to 30.48 meters). Use 2 sizes larger for runs greater than 100 feet (30.48 meters).

For personal safety and for proper operation, the washer-extractor must be grounded in accordance with state and local codes. If such codes are not available, grounding must conform with the National Electric Code, article 250 (current edition) or accepted European standards for equipment labeled with the CE mark. The ground connection must be made to a proven earth ground, not to conduit or water pipes. Refer to *Figure 21* and *22*.

WARNING

Electrically heated machines DO NOT require dual power sources. Do not connect customer power or customer load to the Internal Load Distribution terminal block. Refer to the machine electrical schematic for details.

W759



MACHINES WITH ELECTRIC HEAT

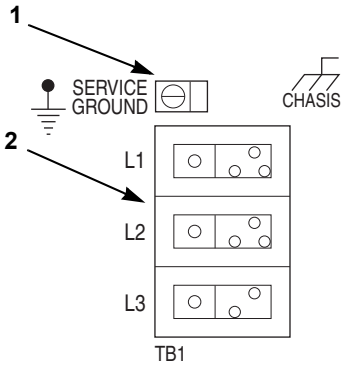
PHM700N

1 Grounding Lug: Connect to proven earth ground

2 Customer Input Power Terminals

3 Internal Load Distribution - DO NOT connect customer power source or load.

Figure 21



MACHINES WITHOUT ELECTRIC HEAT

PHM721N

1 Grounding Lug: Connect to proven earth ground

2 Customer Input Power Terminals

Figure 22

Machines can be converted for lower voltage operation and/or 50 Hz operation. Refer to conversion label by serial plate for details.

After electrical installation is complete, run the machine through a test cycle and check for a clockwise basket rotation during the extract step. If rotation is not clockwise, disconnect the power from the machine and have a qualified electrician reverse any 2 motor leads.

Voltage Designation						Non-Electric Heat Machines (Standard)				Electric Heat Machines			
Model	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Breaker	*AWG	*mm^2	Full Load Amps	Breaker	*AWG	*mm^2
35	X	200 – 240	50/60	1/3	2/3	12/8	15/15	14/14	2.5/2.5	NOT AVAILABLE			
	Q	200 – 240	50/60	3	3	8	15	14	2.5	42	50	6	16
	R	380 – 480	50/60	3	3	6	15	14	2.5	23	30	10	6
60	X	200 – 240	50/60	1/3	2/3	15/9	20/15	12/14	4/2.5	NOT AVAILABLE			
	Q	200 – 240	50/60	3	3	9	15	14	2.5	71	80	3	25
	R	380 – 480	50/60	3	3	7	15	14	2.5	37	40	8	10
80	Q	200 – 240	50/60	3	3	9	15	14	2.5	105	110	1	50
	R	380 – 480	50/60	3	3	10	15	14	2.5	39	40	8	10
100	Q	200 – 240	50/60	3	3	10	15	14	2.5	108	110	1	50
	R	380 – 480	50/60	3	3	10	15	14	2.5	40	50	6	16
125	Q	200 – 240	50/60	3	3	9	15	14	2.5	NOT AVAILABLE			
	R	380 – 480	50/60	3	3	8	15	14	2.5				
150	Q	200 – 240	50/60	3	3	16	20	12	4	NOT AVAILABLE			
	R	380 – 480	50/60	3	3	11	15	14	2.5				

*** NOTE: Wire sizing listed in this table is based on Article 310, Table 310.16 of the NEC; at 104°F (40°C) ambient temperature. Follow your local electrical codes. Use only copper conductors, rated for 194ºF (90°C) or higher, type THHN or better. No more than three current carrying conductors per raceway. Contact your local Authority having jurisdiction if you have questions. Circuit breakers should be UL 489 listed or better. Single phase circuit breakers for single phase machines only; three phase circuit breakers for all others.**

Table 7

Steam Requirements (Steam Heat Option Only)

WARNING

Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.

SW014

For washer-extractors equipped with optional steam heat, install piping in accordance with approved commercial steam practices. Steam requirements are shown in *Table 8*.

NOTE: Failure to install the supplied steam filter may void the warranty.

Steam Supply Information					
	35	**60**	**80**	**100**	**125/150**
Steam inlet connection, in. (mm)	1/2 (DN13)	1/2 (DN13)	1/2 (DN13)	1/2 (DN13)	3/4 (DN19)
Number of steam inlets	1	1	1	1	1
Recommended pressure, psi (bar)	30 – 85 (2.0 – 5.9)	30 – 85 (2.0 – 5.9)	30 – 85 (2.0 – 5.9)	30 – 85 (2.0 – 5.9)	30 – 85 (2.0 – 5.9)
Maximum pressure, psi (bar)	85 (5.9)	85 (5.9)	85 (5.9)	85 (5.9)	85 (5.9)

Table 8

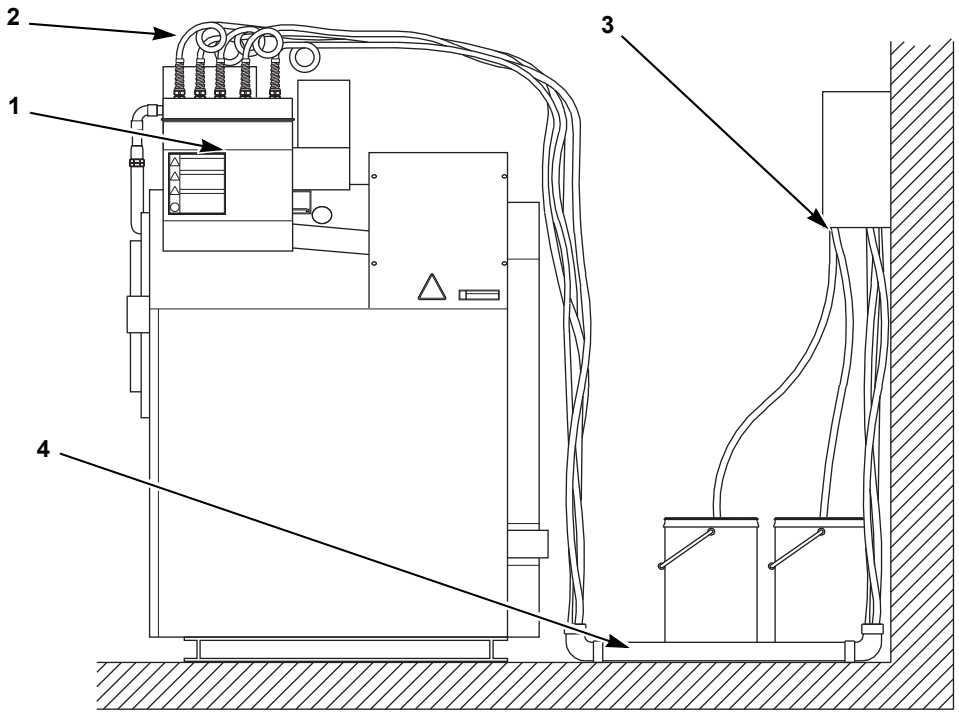
Chemical Injection Supply System

WARNING

Wear eye and hand protection when handling chemicals; always avoid direct contact with raw chemicals. Read the manufacturer's directions for accidental contact before handling chemicals. Ensure an eye-rinse facility and an emergency shower are within easy reach. Check at regular intervals for chemical leaks.

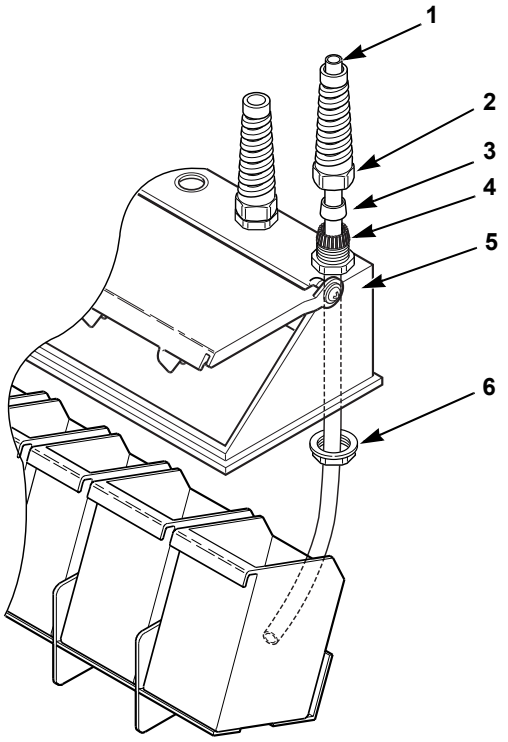
SW016

Undiluted chemical dripping can damage the washer-extractor. Therefore, all chemical supply dispenser pumps should be mounted below the washer's injection point. All dispenser tubing should also run below the injection point. Loops do not prevent drips if these instructions are not followed. Failure to follow these instructions could damage the machine and void the warranty. *Figure 23* shows a typical Chemical Injection Supply System.



1	Injection Point	**3**	Chemical Dispenser Pump Outlet
2	Loops	**4**	PVC Pipe

Figure 23



1	Tubing from Pump
2	Seal Nut
3	Tubing Ring
4	Base
5	Lid
6	Nut

Figure 24

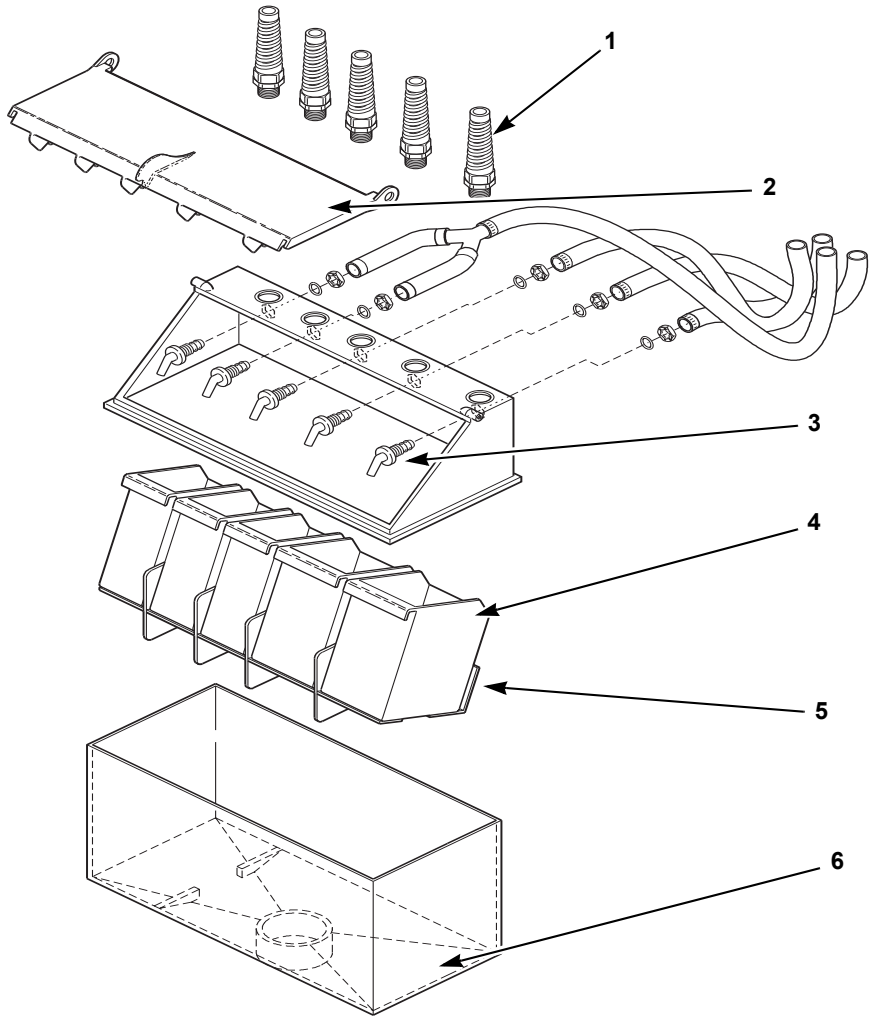
Connecting External Liquid Supplies to the Washer-Extractor

1. Remove knockout from supply dispenser. Refer to *Figure 24*. Plugs are assembled inside the tubing ring.
2. Install PG connector in hole with strain reliefs, included in the seal nut.
3. Insert tubes through PG base. Do not remove cups. Tube should extend into the plastic cup, with the exception of the softener tube, which should be routed to the outside of the cup.
4. Tighten the seal nut to prevent tubing from escaping the assembly.
5. Before operating machine, confirm lid is completely closed.

Do not attempt to make chemical injection electrical connections to points other than those provided specifically for that purpose by the factory.

Chemical Injection Supply System	
Number of dry supply compartments	5
Number of external liquid supply connections	8
Liquid supply connection size, in. (mm)	0.625 (15.9)

A bracket, which is located on the left side of the control module, has been provided for mounting the external supply controls. This bracket is present only on models made through 6/30/08. Refer to *Figures 3* and *4*.



1	Strain Relief for Liquid Chemical Supply Lines	**4**	Dry Supply Cups
2	Supply Dispenser Lid	**5**	Dry Supply Insert
3	Nozzles	**6**	Polypropylene Supply Dispenser

IMPORTANT: Do not attach anything to nozzles. Air gap must be maintained.

Figure 25

External Supplies

For proper communication between the washer-extractor and an external chemical supply system, it is important for the signal power to be connected properly. The included wiring diagram shows several different options for safe and correct wiring of this interface.

The preferred method for connecting the wiring from the external chemical supply system to the washer-extractor is to use the 300mA power of the washer-extractor's 24VAC control transformer, which is intended strictly for this purpose. Other voltage and current options are available, but require some wiring changes and must be provided with an external power source. Under no circumstances should the high-voltage machine supply connections or source be used for the communication wiring.

Communication wiring connections, which include a single row of identified terminal blocks, can be found under a service panel at the upper back of the machine.

Chemical Injection Using Internal 24VAC Control Transformer

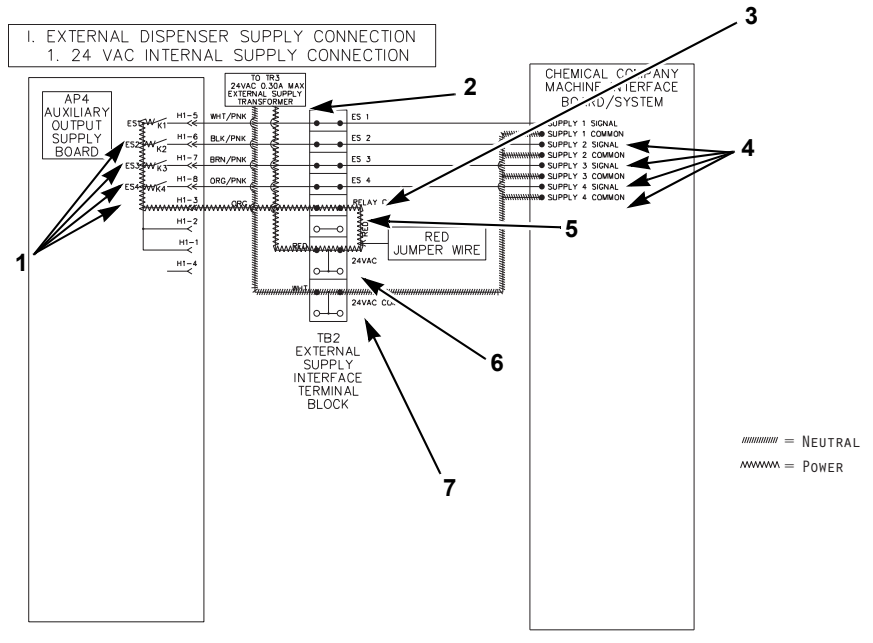
NOTE: Using the Internal 24VAC 300 Milliamp Control Transformer is recommended by Alliance Laundry Systems.

IMPORTANT: DO NOT remove the red jumper wire from the terminal strip.

There are 3 terminals necessary for this connection option.

- Terminal "24VAC COM" is used to connect one side of the internal control transformer to the external dispenser input signals common.
- The second terminal is used to connect the other side of the control transformer to the washer-extractor output signals common through a red jumper wire between "24VAC" and "RELAY COM". Refer to *Figure 26.*

IMPORTANT: Do not use the transformer terminals if an external power supply is used.



PHM821N

1	External Supply Power	**5**	Red Jumper Wire
2	Internal Control Transformer	**6**	24VAC Terminal
3	RELAY COM Terminal	**7**	24VAC COM Terminal
4	External Supply Common		

Figure 26

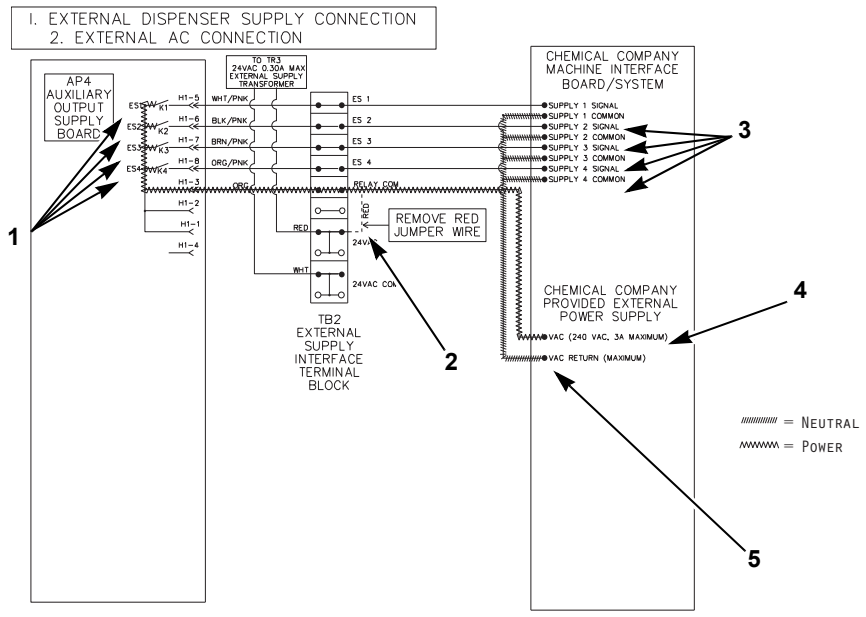
Chemical injection Using External AC Power Source

NOTE: An External AC Power Source is NOT provided by Alliance Laundry Systems.

NOTE: Power for external supplies must not be derived from the high-voltage main power connection point.

IMPORTANT: The external power must supply power of 240VAC or less and be protected at 3 Amps or less.

1. Remove the red jumper wire installed by the factory between “24VAC”: and “RELAY COM”.
2. Connect one side of the external power to the “RELAY COM” and the other to the external dispenser input signals common. Refer to *Figure 27*.



PHM823N

1	External Supply Power	**4**	VAC Power Terminal
2	Red Jumper Wire	**5**	VAC RETURN Terminal
3	External Supply Common		

Figure 27

CAUTION

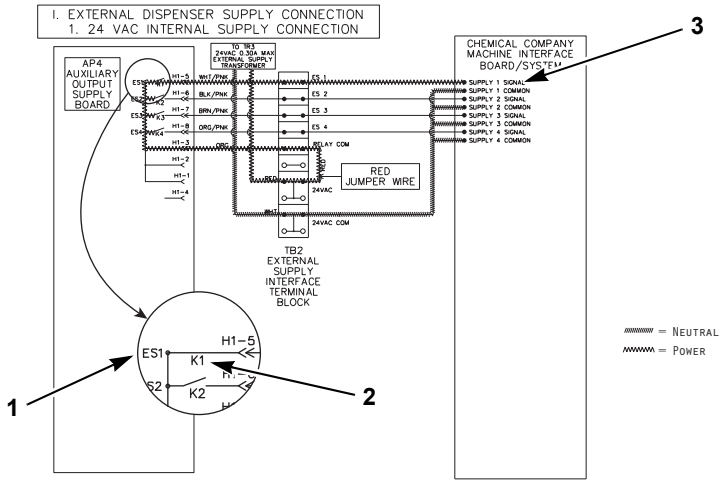
Do not attempt to increase fuse rating or alter wiring of external chemical supply terminal strip in such as way that may conflict with the suggested methods provided on the Optional External Supply Wiring Diagram.

W699

External Supply Signals

Wash-cycle signals are provided to the external chemical supply equipment and a “wait for the next step” signal can be received from the supply equipment.

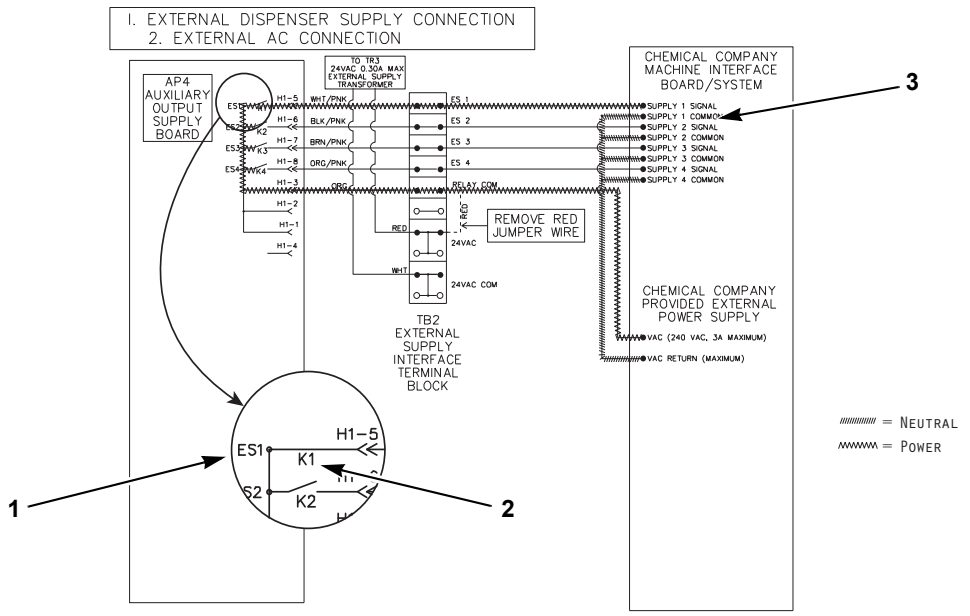
For example, if ES1 is selected the K1 contact will close and power will be supplied to Supply 1 Signal. The contact will remain closed for the amount of time programmed in control. Refer to *Figure 28* for Internal Supply Connection or *Figure 29* for External AC Connection.



PHM822N

1	ES1 Power supply	**3**	Supply 1 Signal
2	K1 Contact		

Figure 28



PHM824N

1	ES1 Power supply	**3**	Supply 1 Signal
2	K1 Contact		

Figure 29