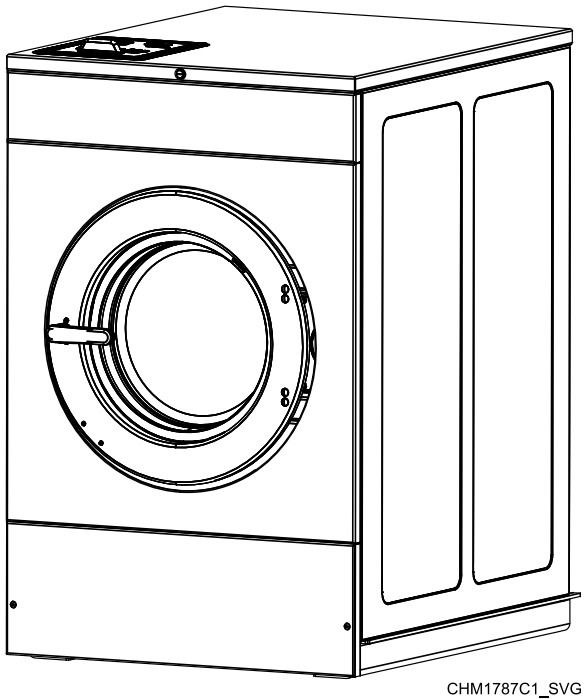
Washer-Extractors

Cabinet Hardmount
Design 4 Models
Refer to Page 8 for Model Identification

Installation/Operation/Maintenance



CHM1787C1_SVG

Original Instructions
Keep These Instructions for Future Reference.
CAUTION: Read the instructions before using the machine.
(If this machine changes ownership, this manual must accompany machine.)

Alliance™ Laundry Systems

www.alliancelaundry.com

Part No. F8619501ENR4
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Models with Wireless Board Installed

This device is granted for use in Mobile only configurations in which the antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all person and not be co-located with any other transmitters except in accordance with FCC and Industry Canada multi-transmitter product procedures.

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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

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

WARNING

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

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

- Read all instructions before using the washer.
- Install the washer according the INSTALLATION instructions. Refer to the EARTH/GROUND instructions in the INSTALLATION manual for the proper earth/ground connection of the washer. All connections for water, drain, electrical power and earth/ground must comply with local codes and be made by licensed personnel when required. It is recommended that the machine be installed by qualified technicians.
- Do not install or store the washer where it will be exposed to water and/or weather.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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

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chemical burns, keep them out of the reach of children at all times [preferably in a locked cabinet].

- Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
- Always follow the fabric care instructions supplied by the textile manufacturer.
- 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.
- Be aware that hot water is used to flush the supply dispenser. Avoid opening the dispenser lid while the machine is running.
- Do not attach anything to the supply dispenser's nozzles, if applicable. The air gap must be maintained.
- Do not operate the machine without the water reuse plug or water reuse system in place, if applicable.
- 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.
- 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.
- DANGER: Before inspecting or servicing machine, power supply must be turned OFF. The servicer needs to wait for at least 5 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.
- 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.
- Disconnect the power by turning off the circuit breaker or by unplugging the machine. Replace worn power cords.
- Before the washer is removed from service or discarded, remove the door to the washing compartment.
- 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

Machine installations must comply with minimum specifications and requirements stated in the applicable Installation Manual, any applicable municipal building codes, water supply requirements, electrical wiring regulations and any other relevant statutory regulations. Due to varied requirements and applicable local codes, this machine must be installed, adjusted, and serviced by qualified maintenance personnel familiar with applicable local codes and 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, property damage, and/or equipment damage, and will void the warranty.

W820

IMPORTANT: Ensure that the machine is installed on a level floor of sufficient strength. 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

NOTE: All appliances are produced according the EMC-directive (Electro-Magnetic-Compatibility). They can be used in restricted surroundings only (comply minimally with class A requirements). For safety reasons there must be kept the necessary precaution distances with sensitive electrical or electronic device(s). These machines are not intended for domestic use by private consumers in the home environment.

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

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WARNING

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

SW012

Machines referred to by model in this manual are intended to be used by the general public in applications such as:

- staff areas in shops, offices, kitchens and other working environments
- by clients in hotels, motels and other residential type environments
- areas for communal use in blocks of flats or in launderettes
- any other similar applications

Installation of these machines must fully conform to the instructions contained in this manual.

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.

Do not bypass any safety devices in the machine.

WARNING

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

W728

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Introduction

Model Identification

Information in this manual is applicable to these models:

20 Models						
DCG020ND DCJ020NC DCJ020ND DCJ020NE	DCJ020NF DCJ020NH DCJ020NL DCJ020NQ	DCJ020NT DCJ020NV DCJ020NX DCJ020NY	DCJ020WC DCJ020WD DCJ020WE DCJ020WF	DCJ020WH DCJ020WL DCJ020WQ DCJ020WT	DCJ020WV DCJ020WX	DCJ020WY
HCA020FN HCA020NC HCA020ND HCA020NE HCA020NF HCA020NH HCA020NL HCA020NQ HCA020NT HCA020NV HCA020NX HCA020NY HCA020QN HCA020WC HCA020WD HCA020WE HCA020WF HCA020WH HCA020WL HCA020WT HCA020WV HCA020WX HCA020WY HCD020FN HCD020NC HCD020ND HCD020NE HCD020NF HCD020NH	HCD020NL HCD020NQ HCD020NT HCD020NV HCD020NX HCD020NY HCD020QN HCD020WC HCD020WD HCD020WE HCD020WF HCD020WH HCD020WL HCD020WQ HCD020WT HCD020WV HCD020WX HCD020WY HCE020FN HCE020NC HCE020ND HCE020NE HCE020NF HCE020NH HCE020NL HCE020NQ HCE020NT HCE020NV HCE020NX	HCE020NY HCE020WC HCE020WD HCE020WE HCE020WF HCE020WH HCE020WL HCE020WQ HCE020WT HCE020WV HCE020WX HCE020WY HCG020FN HCG020NC HCG020ND HCG020NE HCG020NF HCG020NH HCG020NL HCG020NQ HCG020NT HCG020NV HCG020NX HCG020NY HCG020QN HCG020WC HCG020WD HCG020WE HCG020WF	HCG020WH HCG020WL HCG020WT HCG020WV HCG020WX HCG020WY HCH020FN HCH020NC HCH020ND HCH020NE HCH020NF HCH020NH HCH020NL HCH020NQ HCH020NT HCH020NV HCH020NX HCH020NY HCH020QN HCH020WC HCH020WD HCH020WE HCH020WF HCH020WH HCH020WL HCH020WQ HCH020WT HCH020WV HCH020WX	HCH020WY HCJ020FN HCJ020NC HCJ020ND HCJ020NE HCJ020NF HCJ020NH HCJ020NL HCJ020NQ HCJ020NT HCJ020NV HCJ020NX HCJ020NY HCJ020QN HCJ020WC HCJ020WD HCJ020WE HCJ020WF HCJ020WH HCJ020WL HCJ020WQ HCJ020WT HCJ020WV HCJ020WX HCJ020WY HCK020NH HCL020WH HCL020WX HCT020FN	HCT020NC HCT020ND HCT020NE HCT020NF HCT020NH HCT020NL HCT020NQ HCT020NT HCT020NV HCT020NX HCT020NY HCT020QC HCT020QD HCT020QE HCT020QF HCT020QH HCT020QL HCT020QN HCT020QQ HCT020QT HCT020QV HCT020QX HCT020QY HCT020WC HCT020WD HCT020WE HCT020WF HCT020WH HCT020WL	HCT020WQ HCT020WT HCT020WV HCT020WX HCT020WY HCU020FN HCU020NC HCU020ND HCU020NE HCU020NF HCU020NH HCU020NL HCU020NQ HCU020NT HCU020NV HCU020NX HCU020NY HCU020QN HCU020WC HCU020WD HCU020WE HCU020WF HCU020WH HCU020WL HCU020WQ HCU020WT HCU020WV HCU020WX HCU020WY

Table continues...

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20 Models						
SCA020FN	SCD020NX	SCE020WX	SCH020NT	SCK020NN	SCL020WL	SCT020WL
SCA020NC	SCD020NY	SCE020WY	SCH020NV	SCK020NQ	SCL020WQ	SCT020WT
SCA020ND	SCD020WC	SCG020FN	SCH020NX	SCK020NT	SCL020WT	SCT020WQ
SCA020NE	SCD020WD	SCG020NC	SCH020NY	SCK020NV	SCL020WV	SCT020WV
SCA020NF	SCD020WE	SCG020ND	SCH020WC	SCK020NX	SCL020WX	SCT020WX
SCA020NH	SCD020WF	SCG020NE	SCH020WD	SCK020NY	SCL020WY	SCT020WY
SCA020NL	SCD020WH	SCG020NF	SCH020WE	SCK020WC	SCT020FN	SCU020FN
SCA020NN	SCD020WL	SCG020NH	SCH020WF	SCK020WD	SCT020NC	SCU020NC
SCA020NT	SCD020WT	SCG020NL	SCH020WH	SCK020WE	SCT020ND	SCU020ND
SCA020NQ	SCD020WQ	SCG020NN	SCH020WL	SCK020WF	SCT020NE	SCU020NE
SCA020NV	SCD020WV	SCG020NT	SCH020WQ	SCK020WH	SCT020NF	SCU020NF
SCA020NX	SCD020WX	SCG020NQ	SCH020WT	SCK020WL	SCT020NH	SCU020NH
SCA020NY	SCD020WY	SCG020NV	SCH020WV	SCK020WQ	SCT020NL	SCU020NL
SCA020WC	SCE020FN	SCG020NX	SCH020WX	SCK020WT	SCT020NN	SCU020NN
SCA020WD	SCE020NC	SCG020NY	SCH020WY	SCK020WV	SCT020NT	SCU020NT
SCA020WE	SCE020ND	SCG020WC	SCJ020FN	SCK020WX	SCT020NQ	SCU020NQ
SCA020WF	SCE020NE	SCG020WD	SCJ020NN	SCK020WY	SCT020NV	SCU020NV
SCA020WH	SCE020NF	SCG020WE	SCJ020WC	SCL020FN	SCT020NX	SCU020NX
SCA020WL	SCE020NH	SCG020WF	SCJ020WD	SCL020NC	SCT020NY	SCU020NY
SCA020WT	SCE020NL	SCG020WH	SCJ020WE	SCL020ND	SCT020QC	SCU020WC
SCA020WQ	SCE020NN	SCG020WL	SCJ020WF	SCL020NE	SCT020QD	SCU020WD
SCA020WV	SCE020NT	SCG020WT	SCJ020WH	SCL020NF	SCT020QE	SCU020WE
SCA020WX	SCE020NQ	SCG020WQ	SCJ020WL	SCL020NH	SCT020QF	SCU020WF
SCA020WY	SCE020NV	SCG020WV	SCJ020WQ	SCL020NL	SCT020QH	SCU020WH
SCD020FN	SCE020NX	SCG020WX	SCJ020WT	SCL020NN	SCT020QL	SCU020WL
SCD020NC	SCE020NY	SCG020WY	SCJ020WV	SCL020NQ	SCT020QQ	SCU020WT
SCD020ND	SCE020WC	SCH020FN	SCJ020WX	SCL020NT	SCT020QT	SCU020WQ
SCD020NE	SCE020WD	SCH020NC	SCJ020WY	SCL020NV	SCT020QV	SCU020WV
SCD020NF	SCE020WE	SCH020ND	SCK020FN	SCL020NX	SCT020QX	SCU020WX
SCD020NH	SCE020WF	SCH020NE	SCK020NC	SCL020NY	SCT020QY	SCU020WY
SCD020NL	SCE020WH	SCH020NF	SCK020ND	SCL020WC	SCT020WC	
SCD020NN	SCE020WL	SCH020NH	SCK020NE	SCL020WD	SCT020WD	
SCD020NT	SCE020WT	SCH020NL	SCK020NF	SCL020WE	SCT020WE	
SCD020NQ	SCE020WQ	SCH020NN	SCK020NH	SCL020WF	SCT020WF	
SCD020NV	SCE020WV	SCH020NQ	SCK020NL	SCL020WH	SCT020WH	
UCA020FN	UCD020NN	UCG020QN	UCE020FN	UCK020NN	UCT020QN	UCU020NN
UCA020NN	UCD020QN	UCH020FN	UCJ020FN	UCK020QN	UCU020FN	
UCA020QN	UCG020FN	UCH020NN	UCJ020NN	UCT020FN	UCU020QN	
UCD020FN	UCG020NN	UCH020QN	UCJ020QN	UCT020NN		

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30 Models						
DCG030ND DCJ030NC DCJ030ND DCJ030NE	DCJ030NF DCJ030NH DCJ030NL DCJ030NQ	DCJ030NT DCJ030NV DCJ030NX DCJ030NY	DCJ030WC DCJ030WD DCJ030WE DCJ030WF	DCJ030WH DCJ030WL DCJ030WQ DCJ030WT	DCJ030WV DCJ030WX	DCJ030WY
HCA030FN HCA030NC HCA030ND HCA030NE HCA030NF HCA030NH HCA030NL HCA030NQ HCA030NT HCA030NV HCA030NX HCA030NY HCA030QN HCA030WC HCA030WD HCA030WE HCA030WF HCA030WH HCA030WL HCA030WT HCA030WV HCA030WX HCA030WY HCD030FN HCD030NC HCD030ND HCD030NE HCD030NF HCD030NH	HCD030NL HCD030NQ HCD030NT HCD030NV HCD030NX HCD030NY HCD030QN HCD030WC HCD030WD HCD030WE HCD030WF HCD030WH HCD030WL HCD030WQ HCD030WT HCD030WV HCD030WX HCD030WY HCE030FN HCE030NC HCE030ND HCE030NE HCE030NF HCE030NH HCE030NL HCE030NQ HCE030NT HCE030NV HCE030NX	HCE030NY HCE030WC HCE030WD HCE030WE HCE030WF HCE030WH HCE030WL HCE030WQ HCE030WT HCE030WV HCE030WX HCE030WY HCG030FN HCG030NC HCG030ND HCG030NE HCG030NF HCG030NH HCG030NL HCG030NQ HCG030NT HCG030NV HCG030NX HCG030NY HCG030QN HCG030WC HCG030WD HCG030WE HCG030WF	HCG030WH HCG030WL HCG030WT HCG030WV HCG030WX HCG030WY HCH030FN HCH030NC HCH030ND HCH030NE HCH030NF HCH030NH HCH030NL HCH030NQ HCH030NT HCH030NV HCH030NX HCH030NY HCH030QN HCH030WC HCH030WD HCH030WE HCH030WF HCH030WH HCH030WL HCH030WQ HCH030WT HCH030WV HCH030WX	HCH030WY HCJ030FN HCJ030NC HCJ030ND HCJ030NE HCJ030NF HCJ030NH HCJ030NL HCJ030NQ HCJ030NT HCJ030NV HCJ030NX HCJ030NY HCJ030QN HCJ030WC HCJ030WD HCJ030WE HCJ030WF HCJ030WH HCJ030WL HCJ030WQ HCJ030WT HCJ030WV HCJ030WX HCJ030WY HCK030NH HCL030WH HCL030WX HCT030FN	HCT030NC HCT030ND HCT030NE HCT030NF HCT030NH HCT030NL HCT030NQ HCT030NT HCT030NV HCT030NX HCT030NY HCT030QC HCT030QD HCT030QE HCT030QF HCT030QH HCT030QL HCT030QN HCT030QQ HCT030QT HCT030QV HCT030QX HCT030QY HCT030WC HCT030WD HCT030WE HCT030WF HCT030WH HCT030WL	HCT030WQ HCT030WT HCT030WV HCT030WX HCT030WY HCU030FN HCU030NC HCU030ND HCU030NE HCU030NF HCU030NH HCU030NL HCU030NQ HCU030NT HCU030NV HCU030NX HCU030NY HCU030QN HCU030WC HCU030WD HCU030WE HCU030WF HCU030WH HCU030WL HCU030WQ HCU030WT HCU030WV HCU030WX HCU030WY

Table continues...

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30 Models						
SCA030FN	SCD030NX	SCE030WX	SCH030NT	SCK030NN	SCL030WL	SCT030WL
SCA030NC	SCD030NY	SCE030WY	SCH030NV	SCK030NQ	SCL030WQ	SCT030WT
SCA030ND	SCD030WC	SCG030FN	SCH030NX	SCK030NT	SCL030WT	SCT030WQ
SCA030NE	SCD030WD	SCG030NC	SCH030NY	SCK030NV	SCL030WV	SCT030WV
SCA030NF	SCD030WE	SCG030ND	SCH030WC	SCK030NX	SCL030WX	SCT030WX
SCA030NH	SCD030WF	SCG030NE	SCH030WD	SCK030NY	SCL030WY	SCT030WY
SCA030NL	SCD030WH	SCG030NF	SCH030WE	SCK030WC	SCT030FN	SCU030FN
SCA030NN	SCD030WL	SCG030NH	SCH030WF	SCK030WD	SCT030NC	SCU030NC
SCA030NT	SCD030WT	SCG030NL	SCH030WH	SCK030WE	SCT030ND	SCU030ND
SCA030NQ	SCD030WQ	SCG030NN	SCH030WL	SCK030WF	SCT030NE	SCU030NE
SCA030NV	SCD030WV	SCG030NT	SCH030WQ	SCK030WH	SCT030NF	SCU030NF
SCA030NX	SCD030WX	SCG030NQ	SCH030WT	SCK030WL	SCT030NH	SCU030NH
SCA030NY	SCD030WY	SCG030NV	SCH030WV	SCK030WQ	SCT030NL	SCU030NL
SCA030WC	SCE030FN	SCG030NX	SCH030WX	SCK030WT	SCT030NN	SCU030NN
SCA030WD	SCE030NC	SCG030NY	SCH030WY	SCK030WV	SCT030NT	SCU030NT
SCA030WE	SCE030ND	SCG030WC	SCJ030FN	SCK030WX	SCT030NQ	SCU030NQ
SCA030WF	SCE030NE	SCG030WD	SCJ030NN	SCK030WY	SCT030NV	SCU030NV
SCA030WH	SCE030NF	SCG030WE	SCJ030WC	SCL030FN	SCT030NX	SCU030NX
SCA030WL	SCE030NH	SCG030WF	SCJ030WD	SCL030NC	SCT030NY	SCU030NY
SCA030WT	SCE030NL	SCG030WH	SCJ030WE	SCL030ND	SCT030QC	SCU030WC
SCA030WQ	SCE030NN	SCG030WL	SCJ030WF	SCL030NE	SCT030QD	SCU030WD
SCA030WV	SCE030NT	SCG030WT	SCJ030WH	SCL030NF	SCT030QE	SCU030WE
SCA030WX	SCE030NQ	SCG030WQ	SCJ030WL	SCL030NH	SCT030QF	SCU030WF
SCA030WY	SCE030NV	SCG030WV	SCJ030WQ	SCL030NL	SCT030QH	SCU030WH
SCD030FN	SCE030NX	SCG030WX	SCJ030WT	SCL030NN	SCT030QL	SCU030WL
SCD030NC	SCE030NY	SCG030WY	SCJ030WV	SCL030NQ	SCT030QQ	SCU030WT
SCD030ND	SCE030WC	SCH030FN	SCJ030WX	SCL030NT	SCT030QT	SCU030WQ
SCD030NE	SCE030WD	SCH030NC	SCJ030WY	SCL030NV	SCT030QV	SCU030WV
SCD030NF	SCE030WE	SCH030ND	SCK030FN	SCL030NX	SCT030QX	SCU030WX
SCD030NH	SCE030WF	SCH030NE	SCK030NC	SCL030NY	SCT030QY	SCU030WY
SCD030NL	SCE030WH	SCH030NF	SCK030ND	SCL030WC	SCT030WC	
SCD030NN	SCE030WL	SCH030NH	SCK030NE	SCL030WD	SCT030WD	
SCD030NT	SCE030WT	SCH030NL	SCK030NF	SCL030WE	SCT030WE	
SCD030NQ	SCE030WQ	SCH030NN	SCK030NH	SCL030WF	SCT030WF	
SCD030NV	SCE030WV	SCH030NQ	SCK030NL	SCL030WH	SCT030WH	
UCA030FN	UCD030NN	UCG030NN	UCH030QN	UCK030NN	UCT030QN	UCU030QN
UCA030NN	UCD030QN	UCG030QN	UCJ030FN	UCK030QN	UCU030FN	
UCA030QN	UCE030FN	UCH030FN	UCJ030NN	UCT030FN	UCU030NN	
UCD030FN	UCG030FN	UCH030NN	UCJ030QN	UCT030NN		

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40 Models						
DCG040ND DCJ040NC DCJ040ND DCJ040NE	DCJ040NF DCJ040NH DCJ040NL DCJ040NQ	DCJ040NT DCJ040NV DCJ040NX DCJ040NY	DCJ040WC DCJ040WD DCJ040WE DCJ040WF	DCJ040WH DCJ040WL DCJ040WQ DCJ040WT	DCJ040WV DCJ040WX	DCJ040WY
HCA040FN HCA040NC HCA040ND HCA040NE HCA040NF HCA040NH HCA040NL HCA040NQ HCA040NT HCA040NV HCA040NX HCA040NY HCA040QN HCA040WC HCA040WD HCA040WE HCA040WF HCA040WH HCA040WL HCA040WT HCA040WV HCA040WX HCA040WY HCE040FN HCE040NC HCE040ND	HCE040NE HCE040NF HCE040NH HCE040NL HCE040NQ HCE040NT HCE040NV HCE040NX HCE040NY HCE040WC HCE040WD HCE040WE HCE040WF HCE040WH HCE040WL HCE040WQ HCE040WT HCE040WV HCE040WX HCE040WY HCG040FN HCG040NC HCG040ND HCG040NE HCG040NF HCG040NH	HCG040NL HCG040NQ HCG040NT HCG040NV HCG040NX HCG040NY HCG040QN HCG040WC HCG040WD HCG040WE HCG040WF HCG040WH HCG040WL HCG040WT HCG040WV HCG040WX HCG040WY HCH040FN HCH040NC HCH040ND HCH040NE HCH040NF HCH040NH HCH040NL HCH040NQ HCH040NT	HCH040NV HCH040NX HCH040NY HCH040QN HCH040WC HCH040WD HCH040WE HCH040WF HCH040WH HCH040WL HCH040WQ HCH040WT HCH040WV HCH040WX HCH040WY HCJ040FN HCJ040NC HCJ040ND HCJ040NE HCJ040NF HCJ040NH HCJ040NL HCJ040NQ HCJ040NT HCJ040NV HCJ040NX	HCJ040NY HCJ040QN HCJ040WC HCJ040WD HCJ040WE HCJ040WF HCJ040WH HCJ040WL HCJ040WQ HCJ040WT HCJ040WV HCJ040WX HCJ040WY HCK040NH HCL040WH HCL040WX HCT040FN HCT040NC HCT040ND HCT040NE HCT040NF HCT040NH HCT040NL HCT040NQ HCT040NT HCT040NV	HCT040NX HCT040NY HCT040QC HCT040QD HCT040QE HCT040QF HCT040QH HCT040QL HCT040WX HCT040QN HCT040QQ HCT040QT HCT040QV HCT040QX HCT040QY HCT040WC HCT040WD HCT040WE HCT040WF HCT040WH HCT040WL HCT040WQ HCT040WT HCT040WV HCT040WY HCU040FN	HCU040NC HCU040ND HCU040NE HCU040NF HCU040NH HCU040NL HCU040NQ HCU040NT HCU040NV HCU040NX HCU040NY HCU040QN HCU040WC HCU040WD HCU040WE HCU040WF HCU040WH HCU040WL HCU040WQ HCU040WT HCU040WV HCU040WX HCU040WY

Table continues...

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40 Models						
SCA040FN	SCE040NN	SCG040WD	SCH040WV	SCK040WE	SCL040WX	SCT040WL
SCA040NC	SCE040NT	SCG040WE	SCH040WX	SCK040WF	SCL040WY	SCT040WT
SCA040ND	SCE040NQ	SCG040WF	SCH040WY	SCK040WH	SCT040FN	SCT040WQ
SCA040NE	SCE040NV	SCG040WH	SCJ040FN	SCK040WL	SCT040NC	SCT040WV
SCA040NF	SCE040NX	SCG040WL	SCJ040NN	SCK040WQ	SCT040ND	SCT040WX
SCA040NH	SCE040NY	SCG040WT	SCJ040WC	SCK040WT	SCT040NE	SCT040WY
SCA040NL	SCE040WC	SCG040WQ	SCJ040WD	SCK040WV	SCT040NF	SCU040FN
SCA040NN	SCE040WD	SCG040WV	SCJ040WE	SCK040WX	SCT040NH	SCU040NC
SCA040NT	SCE040WE	SCG040WX	SCJ040WF	SCK040WY	SCT040NL	SCU040ND
SCA040NQ	SCE040WF	SCG040WY	SCJ040WH	SCL040FN	SCT040NN	SCU040NE
SCA040NV	SCE040WH	SCH040FN	SCJ040WL	SCL040NC	SCT040NT	SCU040NF
SCA040NX	SCE040WL	SCH040NC	SCJ040WQ	SCL040ND	SCT040NQ	SCU040NH
SCA040NY	SCE040WT	SCH040ND	SCJ040WT	SCL040NE	SCT040NV	SCU040NL
SCA040WC	SCE040WQ	SCH040NE	SCJ040WV	SCL040NF	SCT040NX	SCU040NN
SCA040WD	SCE040WV	SCH040NF	SCJ040WX	SCL040NH	SCT040NY	SCU040NT
SCA040WE	SCE040WX	SCH040NH	SCJ040WY	SCL040NL	SCT040QC	SCU040NQ
SCA040WF	SCE040WY	SCH040NL	SCK040FN	SCL040NN	SCT040QD	SCU040NV
SCA040WH	SCG040FN	SCH040NN	SCK040NC	SCL040NQ	SCT040QE	SCU040NX
SCA040WL	SCG040NC	SCH040NQ	SCK040ND	SCL040NT	SCT040QF	SCU040NY
SCA040WT	SCG040ND	SCH040NT	SCK040NE	SCL040NV	SCT040QH	SCU040WC
SCA040WQ	SCG040NE	SCH040NV	SCK040NF	SCL040NX	SCT040QL	SCU040WD
SCA040WV	SCG040NF	SCH040NX	SCK040NH	SCL040NY	SCT040QQ	SCU040WE
SCA040WX	SCG040NH	SCH040NY	SCK040NL	SCL040WC	SCT040QT	SCU040WF
SCA040WY	SCG040NL	SCH040WC	SCK040NN	SCL040WD	SCT040QV	SCU040WH
SCE040FN	SCG040NN	SCH040WD	SCK040NQ	SCL040WE	SCT040QX	SCU040WL
SCE040NC	SCG040NT	SCH040WE	SCK040NT	SCL040WF	SCT040QY	SCU040WT
SCE040ND	SCG040NQ	SCH040WF	SCK040NV	SCL040WH	SCT040WC	SCU040WQ
SCE040NE	SCG040NV	SCH040WH	SCK040NX	SCL040WL	SCT040WD	SCU040WV
SCE040NF	SCG040NX	SCH040WL	SCK040NY	SCL040WQ	SCT040WE	SCU040WX
SCE040NH	SCG040NY	SCH040WQ	SCK040WC	SCL040WT	SCT040WF	SCU040WY
SCE040NL	SCG040WC	SCH040WT	SCK040WD	SCL040WV	SCT040WH	
UCA040FN	UCE040FN	UCG040QN	UCH040QN	UCJ040QN	UCT040FN	UCU040FN
UCA040NN	UCG040FN	UCH040FN	UCJ040FN	UCK040NN	UCT040NN	UCU040NN
UCA040QN	UCG040NN	UCH040NN	UCJ040NN	UCK040QN	UCT040QN	UCU040QN

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60 Models						
DCG060ND DCJ060NC DCJ060ND DCJ060NE	DCJ060NF DCJ060NH DCJ060NL DCJ060NQ	DCJ060NT DCJ060NV DCJ060NX DCJ060NY	DCJ060WC DCJ060WD DCJ060WE DCJ060WF	DCJ060WH DCJ060WL DCJ060WQ DCJ060WT	DCJ060WV DCJ060WX	DCJ060WY
HCA060FN HCA060NC HCA060ND HCA060NE HCA060NF HCA060NH HCA060NL HCA060NQ HCA060NT HCA060NV HCA060NX HCA060NY HCA060QN HCA060WC HCA060WD HCA060WE HCA060WF HCA060WH HCA060WL HCA060WT HCA060WV HCA060WX HCA060WY HCE060FN HCE060NC HCE060ND	HCE060NE HCE060NF HCE060NH HCE060NL HCE060NQ HCE060NT HCE060NV HCE060NX HCE060NY HCE060WC HCE060WD HCE060WE HCE060WF HCE060WH HCE060WL HCE060WQ HCE060WT HCE060WV HCE060WX HCE060WY HCG060FN HCG060NC HCG060ND HCG060NE HCG060NF HCG060NH	HCG060NL HCG060NQ HCG060NT HCG060NV HCG060NX HCG060NY HCG060QN HCG060WC HCG060WD HCG060WE HCG060WF HCG060WH HCG060WL HCG060WT HCG060WV HCG060WX HCG060WY HCH060FN HCH060NC HCH060ND HCH060NE HCH060NF HCH060NH HCH060NL HCH060NQ HCH060NT	HCH060NV HCH060NX HCH060NY HCH060QN HCH060WC HCH060WD HCH060WE HCH060WF HCH060WH HCH060WL HCH060WQ HCH060WT HCH060WV HCH060WX HCH060WY HCJ060FN HCJ060NC HCJ060ND HCJ060NE HCJ060NF HCJ060NH HCJ060NL HCJ060NQ HCJ060NT HCJ060NV HCJ060NX	HCJ060NY HCJ060QN HCJ060WC HCJ060WD HCJ060WE HCJ060WF HCJ060WH HCJ060WL HCJ060WQ HCJ060WT HCJ060WV HCJ060WX HCJ060WY HCK060NH HCL060WH HCL060WX HCT060FN HCT060NC HCT060ND HCT060NE HCT060NF HCT060NH HCT060NL HCT060NQ HCT060NT HCT060NV	HCT060NX HCT060NY HCT060QC HCT060QD HCT060QE HCT060QF HCT060QH HCT060QL HCT060QN HCT060QQ HCT060QT HCT060QV HCT060QX HCT060QY HCT060WC HCT060WD HCT060WE HCT060WF HCT060WH HCT060WL HCT060WQ HCT060WT HCT060WV HCT060WX HCT060WY HCU060FN	HCU060NC HCU060ND HCU060NE HCU060NF HCU060NH HCU060NL HCU060NQ HCU060NT HCU060NV HCU060NX HCU060NY HCU060QN HCU060WC HCU060WD HCU060WE HCU060WF HCU060WH HCU060WL HCU060WQ HCU060WT HCU060WV HCU060WX HCU060WY

Table continues...

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60 Models						
SCA060FN	SCE060NN	SCG060WD	SCH060WV	SCK060WE	SCL060WX	SCT060WL
SCA060NC	SCE060NT	SCG060WE	SCH060WX	SCK060WF	SCL060WY	SCT060WT
SCA060ND	SCE060NQ	SCG060WF	SCH060WY	SCK060WH	SCT060FN	SCT060WQ
SCA060NE	SCE060NV	SCG060WH	SCJ060FN	SCK060WL	SCT060NC	SCT060WV
SCA060NF	SCE060NX	SCG060WL	SCJ060NN	SCK060WQ	SCT060ND	SCT060WX
SCA060NH	SCE060NY	SCG060WT	SCJ060WC	SCK060WT	SCT060NE	SCT060WY
SCA060NL	SCE060WC	SCG060WQ	SCJ060WD	SCK060WV	SCT060NF	SCU060FN
SCA060NN	SCE060WD	SCG060WV	SCJ060WE	SCK060WX	SCT060NH	SCU060NC
SCA060NT	SCE060WE	SCG060WX	SCJ060WF	SCK060WY	SCT060NL	SCU060ND
SCA060NQ	SCE060WF	SCG060WY	SCJ060WH	SCL060FN	SCT060NN	SCU060NE
SCA060NV	SCE060WH	SCH060FN	SCJ060WL	SCL060NC	SCT060NT	SCU060NF
SCA060NX	SCE060WL	SCH060NC	SCJ060WQ	SCL060ND	SCT060NQ	SCU060NH
SCA060NY	SCE060WT	SCH060ND	SCJ060WT	SCL060NE	SCT060NV	SCU060NL
SCA060WC	SCE060WQ	SCH060NE	SCJ060WV	SCL060NF	SCT060NX	SCU060NN
SCA060WD	SCE060WV	SCH060NF	SCJ060WX	SCL060NH	SCT060NY	SCU060NT
SCA060WE	SCE060WX	SCH060NH	SCJ060WY	SCL060NL	SCT060QC	SCU060NQ
SCA060WF	SCE060WY	SCH060NL	SCK060FN	SCL060NN	SCT060QD	SCU060NV
SCA060WH	SCG060FN	SCH060NN	SCK060NC	SCL060NQ	SCT060QE	SCU060NX
SCA060WL	SCG060NC	SCH060NQ	SCK060ND	SCL060NT	SCT060QF	SCU060NY
SCA060WT	SCG060NX	SCH060NT	SCK060NE	SCL060NV	SCT060QH	SCU060WC
SCA060WQ	SCG060ND	SCH060NV	SCK060NF	SCL060NX	SCT060QL	SCU060WD
SCA060WV	SCG060NE	SCH060NX	SCK060NH	SCL060NY	SCT060QQ	SCU060WE
SCA060WX	SCG060NF	SCH060NY	SCK060NL	SCL060WC	SCT060QT	SCU060WF
SCA060WY	SCG060NH	SCH060WC	SCK060NN	SCL060WD	SCT060QV	SCU060WH
SCE060FN	SCG060NL	SCH060WD	SCK060NQ	SCL060WE	SCT060QX	SCU060WL
SCE060NC	SCG060NN	SCH060WE	SCK060NT	SCL060WF	SCT060QY	SCU060WT
SCE060ND	SCG060NT	SCH060WF	SCK060NV	SCL060WH	SCT060WC	SCU060WQ
SCE060NE	SCG060NQ	SCH060WH	SCK060NX	SCL060WL	SCT060WD	SCU060WV
SCE060NF	SCG060NV	SCH060WL	SCK060NY	SCL060WQ	SCT060WE	SCU060WX
SCE060NH	SCG060NY	SCH060WQ	SCK060WC	SCL060WT	SCT060WF	SCU060WY
SCE060NL	SCG060WC	SCH060WT	SCK060WD	SCL060WV	SCT060WH	
UCA060FN	UCE060FN	UCG060QN	UCH060QN	UCJ060QN	UCT060FN	UCU060FN
UCA060NN	UCG060FN	UCH060FN	UCJ060FN	UCK060NN	UCT060NN	UCU060NN
UCA060QN	UCG060NN	UCH060NN	UCJ060NN	UCK060QN	UCT060QN	UCU060QN

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80 Models						
DCJ080NC DCJ080ND DCJ080NE DCJ080NF	DCJ080NH DCJ080NL DCJ080NQ DCJ080NT	DCJ080NV DCJ080NX DCJ080NY DCJ080WC	DCJ080WD DCJ080WE DCJ080WF DCJ080WH	DCJ080WL DCJ080WQ DCJ080WT DCJ080WV	DCJ080WX	DCJ080WY
HCA080FN HCA080NC HCA080ND HCA080NE HCA080NF HCA080NH HCA080NL HCA080NQ HCA080NT HCA080NV HCA080NX HCA080NY HCA080QN HCA080WC HCA080WD HCA080WE HCA080WF HCA080WH HCA080WL HCA080WT HCA080WV HCA080WX	HCA080WY HCG080FN HCG080NC HCG080ND HCG080NE HCG080NF HCG080NH HCG080NL HCG080NQ HCG080NT HCG080NV HCG080NX HCG080NY HCG080QN HCG080WC HCG080WD HCG080WE HCG080WF HCG080WH HCG080WL HCG080WT HCG080WV	HCG080WX HCG080WY HCH080FN HCH080NC HCH080ND HCH080NE HCH080NF HCH080NH HCH080NL HCH080NQ HCH080NT HCH080NV HCH080NX HCH080NY HCH080QN HCH080WC HCH080WD HCH080WE HCH080WF HCH080WH HCH080WL HCH080WQ	HCH080WT HCH080WV HCH080WX HCH080WY HCJ080FN HCJ080NC HCJ080ND HCJ080NE HCJ080NF HCJ080NH HCJ080NL HCJ080NQ HCJ080NT HCJ080NV HCJ080NX HCJ080NY HCJ080QN HCJ080WC HCJ080WD HCJ080WE HCJ080WF HCJ080WH	HCJ080WL HCJ080WQ HCJ080WT HCJ080WV HCJ080WX HCJ080WY HCK080NH HCT080FN HCT080NC HCT080ND HCT080NE HCT080NF HCT080NH HCT080NL HCT080NQ HCT080NT HCT080NV HCT080NX HCT080NY HCT080QC HCT080QD HCT080QE	HCT080QF HCT080QH HCT080QL HCT080QN HCT080QQ HCT080QT HCT080QV HCT080QX HCT080QY HCT080WC HCT080WD HCT080WE HCT080WF HCT080WH HCT080WL HCT080WQ HCT080WT HCT080WV HCT080WX HCT080WY HCU080FN HCU080NC	HCU080ND HCU080NE HCU080NF HCU080NH HCU080NL HCU080NQ HCU080NT HCU080NV HCU080NX HCU080NY HCU080QN HCU080WC HCU080WD HCU080WE HCU080WF HCU080WH HCU080WL HCU080WQ HCU080WT HCU080WV HCU080WX HCU080WY
SCA080FN SCA080NC SCA080ND SCA080NE SCA080NF SCA080NH SCA080NL SCA080NN SCA080NT SCA080NQ SCA080NV SCA080NX SCA080NY SCA080WC SCA080WD SCA080WE SCA080WF SCA080WH SCA080WL SCA080WT SCA080WQ SCA080WV SCA080WX SCA080WY	SCG080NH SCG080NL SCG080NN SCG080NT SCG080NQ SCG080FN SCG080NC SCG080ND SCG080NE SCG080NF SCG080NV SCG080NX SCG080NY SCG080WC SCG080WD SCG080WE SCG080WF SCG080WH SCG080WL SCG080WT SCG080WQ SCG080WV SCG080WX SCG080WY	SCH080FN SCH080NC SCH080ND SCH080NE SCH080NF SCH080NH SCH080NL SCH080NN SCH080NQ SCH080NT SCH080NV SCH080NX SCH080NY SCH080WC SCH080WD SCH080WE SCH080WF SCH080WH SCH080WL SCH080WQ SCH080WT SCH080WV SCH080WX SCH080WY	SCJ080FN SCJ080NN SCJ080WC SCJ080WD SCJ080WE SCJ080WF SCJ080WH SCJ080WL SCJ080WQ SCJ080WT SCJ080WV SCJ080WX SCJ080WY SCK080FN SCK080NC SCK080ND SCK080NE SCK080NF SCK080NH SCK080NL SCK080NN SCK080NQ SCK080NT SCK080NV	SCK080NX SCK080NY SCK080WC SCK080WD SCK080WE SCK080WF SCK080WH SCK080WL SCK080WQ SCK080WT SCK080WV SCK080WX SCK080WY SCT080FN SCT080NC SCT080ND SCT080NE SCT080NF SCT080NH SCT080NL SCT080NN SCT080NT SCT080NQ SCT080NV	SCT080NX SCT080NY SCT080QC SCT080QD SCT080QE SCT080QF SCT080QH SCT080QL SCT080QQ SCT080QT SCT080QV SCT080QX SCT080QY SCT080WC SCT080WD SCT080WE SCT080WF SCT080WH SCT080WL SCT080WT SCT080WQ SCT080WV SCT080WX SCT080WY	SCU080FN SCU080NC SCU080ND SCU080NE SCU080NF SCU080NH SCU080NL SCU080NN SCU080NT SCU080NQ SCU080NV SCU080NX SCU080NY SCU080WC SCU080WD SCU080WE SCU080WF SCU080WH SCU080WL SCU080WT SCU080WQ SCU080WV SCU080WX SCU080WY

Table continues...

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80 Models						
UCA080FN UCA080NN UCA080QN	UCG080FN UCG080NN UCG080QN	UCH080FN UCH080NN UCH080QN	UCJ080FN UCJ080NN UCJ080QN	UCK080NN UCK080QN UCT080FN	UCT080NN UCT080QN UCU080FN	UCU080NN UCU080QN

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100 Models						
DCJ100NC DCJ100ND DCJ100NE DCJ100NF	DCJ100NH DCJ100NL DCJ100NQ DCJ100NT	DCJ100NV DCJ100NX DCJ100NY DCJ100WC	DCJ100WD DCJ100WE DCJ100WF DCJ100WH	DCJ100WL DCJ100WQ DCJ100WT DCJ100WV	DCJ100WX	DCJ100WY
HCA100FN HCA100NC HCA100ND HCA100NE HCA100NF HCA100NH HCA100NL HCA100NQ HCA100NT HCA100NV HCA100NX HCA100NY HCA100QN HCA100WC HCA100WD HCA100WE HCA100WF HCA100WH HCA100WL HCA100WT HCA100WV HCA100WX	HCA100WY HCG100FN HCG100NC HCG100ND HCG100NE HCG100NF HCG100NH HCG100NL HCG100NQ HCG100NT HCG100NV HCG100NX HCG100NY HCG100QN HCG100WC HCG100WD HCG100WE HCG100WF HCG100WH HCG100WL HCG100WT HCG100WV	HCG100WX HCG100WY HCH100FN HCH100NC HCH100ND HCH100NE HCH100NF HCH100NH HCH100NL HCH100NQ HCH100NT HCH100NV HCH100NX HCH100NY HCH100QN HCH100WC HCH100WD HCH100WE HCH100WF HCH100WH HCH100WL HCH100WQ	HCH100WT HCH100WV HCH100WX HCH100WY HCJ100FN HCJ100NC HCJ100ND HCJ100NE HCJ100NF HCJ100NH HCJ100NL HCJ100NQ HCJ100NT HCJ100NV HCJ100NX HCJ100NY HCJ100QN HCJ100WC HCJ100WD HCJ100WE HCJ100WF HCJ100WH	HCJ100WL HCJ100WQ HCJ100WT HCJ100WV HCJ100WX HCJ100WY HCK100NH HCT100FN HCT100NC HCT100ND HCT100NE HCT100NF HCT100NH HCT100NL HCT100NQ HCT100NT HCT100NV HCT100NX HCT100NY HCT100QC HCT100QD HCT100QE	HCT100QF HCT100QH HCT100QL HCT100QN HCT100QQ HCT100QT HCT100QV HCT100QX HCT100QY HCT100WC HCT100WD HCT100WE HCT100WF HCT100WH HCT100WL HCT100WQ HCT100WT HCT100WV HCT100WX HCT100WY HCU100FN HCU100NC	HCU100ND HCU100NE HCU100NF HCU100NH HCU100NL HCU100NQ HCU100NT HCU100NV HCU100NX HCU100NY HCU100QN HCU100WC HCU100WD HCU100WE HCU100WF HCU100WH HCU100WL HCU100WQ HCU100WT HCU100WV HCU100WX HCU100WY
SCA100FN SCA100NC SCA100ND SCA100NE SCA100NF SCA100NH SCA100NL SCA100NN SCA100NT SCA100NQ SCA100NV SCA100NX SCA100NY SCA100WC SCA100WD SCA100WE SCA100WF SCA100WH SCA100WL SCA100WT SCA100WQ SCA100WV SCA100WX SCA100WY	SCG100FN SCG100NC SCG100ND SCG100NE SCG100NF SCG100NH SCG100NL SCG100NN SCG100NT SCG100NQ SCG100NV SCG100NX SCG100NY SCG100WC SCG100WD SCG100WE SCG100WF SCG100WH SCG100WL SCG100WT SCG100WQ SCG100WV SCG100WX SCG100WY	SCH100FN SCH100NC SCH100ND SCH100NE SCH100NF SCH100NH SCH100NL SCH100NN SCH100NQ SCH100NT SCH100NV SCH100NX SCH100NY SCH100WC SCH100WD SCH100WE SCH100WF SCH100WH SCH100WL SCH100WQ SCH100WT SCH100WV SCH100WX SCH100WY	SCJ100FN SCJ100NN SCJ100WC SCJ100WD SCJ100WE SCJ100WF SCJ100WH SCJ100WL SCJ100WQ SCJ100WT SCJ100WV SCJ100WX SCJ100WY SCK100FN SCK100NC SCK100ND SCK100NE SCK100NF SCK100NH SCK100NL SCK100NN SCK100NQ SCK100NT SCK100NV	SCK100NX SCK100NY SCK100WC SCK100WD SCK100WE SCK100WF SCK100WH SCK100WL SCK100WQ SCK100WT SCK100WV SCK100WX SCK100WY SCT100FN SCT100NC SCT100ND SCT100NE SCT100NF SCT100NH SCT100NL SCT100NN SCT100NT SCT100NQ SCT100NV	SCT100NX SCT100NY SCT100QC SCT100QD SCT100QE SCT100QF SCT100QH SCT100QL SCT100QQ SCT100QT SCT100QV SCT100QX SCT100QY SCT100WC SCT100WD SCT100WE SCT100WF SCT100WH SCT100WL SCT100WT SCT100WQ SCT100WV SCT100WX SCT100WY	SCU100FN SCU100NC SCU100ND SCU100NE SCU100NF SCU100NH SCU100NL SCU100NN SCU100NT SCU100NQ SCU100NV SCU100NX SCU100NY SCU100WC SCU100WD SCU100WE SCU100WF SCU100WH SCU100WL SCU100WT SCU100WQ SCU100WV SCU100WX SCU100WY

Table continues...

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100 Models						
UCA100FN UCA100NN UCA100QN	UCG100FN UCG100NN UCG100QN	UCH100FN UCH100NN UCH100QN	UCJ100FN UCJ100NN UCJ100QN	UCK100NN UCK100QN UCT100FN	UCT100NN UCT100QN UCU100FN	UCU100NN UCU100QN

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Delivery Inspection

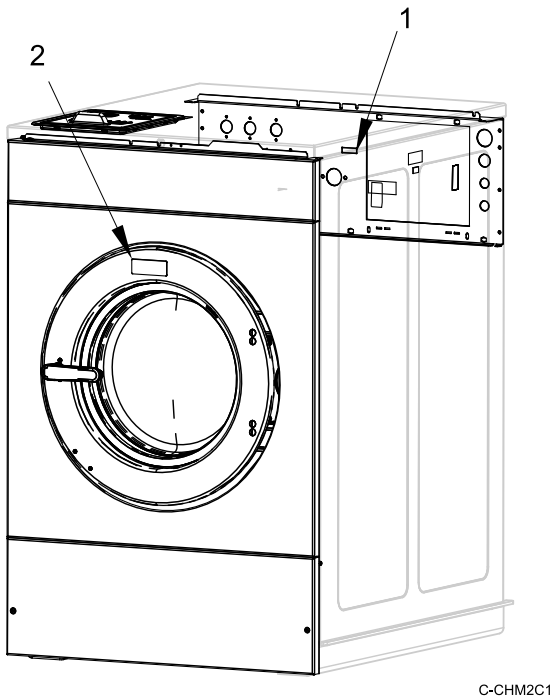
Upon delivery, visually inspect crate, protective cover, and unit for any visible shipping damage. If signs of possible damage are evident, have the carrier note the condition on the shipping papers before the shipping receipt is signed, or advise the carrier of the condition as soon as it is discovered.

Serial Plate Location

The serial plate is located on the rear panel and inside the door 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* .

Model Example of Serial Plate Location



1. Serial Plate on Panel
2. Serial Plate on Door Frame

Figure 1

Replacement Parts

If literature or replacement parts are required, contact the source from which the machine was purchased or contact Alliance Laundry Systems at +1 (920) 748-3950 for the name and address of the nearest authorized parts distributor.

Customer Service

For technical assistance, contact your local distributor or contact:

Alliance Laundry Systems
Shepard Street
P.O. Box 990
Ripon, WI 54971-0990
U.S.A.
www.alliancelaundry.com
Phone: +1 (920) 748-3121 Ripon, Wisconsin

Manufacturing Date

The manufacturing date for your unit can be found on the serial number. The first two digits indicate the year. The third and fourth digits indicate the month. For example, a unit with serial number 1505000001 was manufactured in May 2015.

EAC

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Specifications and Dimensions

Specification	20	30	40	60	80	100
Overall Dimensions						
Overall width, in. [mm]	26.0 [660]	29.0 [737]	30.6 [778]	34.1 [865]	41.5 [1054]	41.5 [1054]
Overall height, in [mm]	44.1 [1120]	46.1 [1171]	48.3 [1227]	51 [1295]	58.3 [1481]	58.3 [1481]
Overall depth, in. [mm]	30.9 [784]	35.3 [896]	42.3 [1073]	44.7 [1135]	47.1 [1196]	51.1 [1298]
Weight and Shipping Information						
Net weight, lbs. [kg]	340 [154]	440 [200]	540 [245]	680 [308]	1250 [567]	1280 [581]
Standard shipping weight, lbs. [kg]	380 [172]	480 [218]	580 [263]	720 [327]	1300 [590]	1330 [603]
Standard shipping volume, ft^3 [m^3]	27 [0.76]	36 [1.01]	44 [1.24]	57 [1.61]	83 [2.35]	89 [2.52]
Standard shipping dimensions (WxDxH), in. [mm]	28.0 x 33.8 x 49.4 [711 x 859 x 1255]	31.5 x 38.3 x 51.3 [800 x 973 x 1303]	32.5 x 43.5 x 53.6 [826 x 1105 x 1361]	37.5 x 46.9 x 56.3 [953 x 1191 x 1430]	44.0 x 54.5 x 59.6 [1118 x 1384 x 1514]	44.0 x 58.5 x 59.6 [1118 x 1486 x 1514]
Slat crate shipping weight, lbs. [kg]	460 [209]	580 [263]	680 [308]	840 [381]	1430 [649]	1460 [662]
Slat crate shipping volume, ft^3 [m^3]	38 [1.08]	47 [1.33]	54 [1.52]	78 [2.20]	105 [2.97]	112 [3.17]
Slat crate shipping dimensions (WxDxH), in. [mm]	32.5 x 36.8 x 55 [826 x 935 x 1397]	36.0 x 41.3 x 55.0 [914 x 1049 x 1397]	37.0 x 45.9 x 55.0 [940 x 1166 x 1397]	42.0 x 49.9 x 64.0 [1067 x 1267 x 1626]	48.5 x 57.5 x 65.1 [1232 x 1461 x 1654]	48.5 x 61.5 x 65.1 [1232 x 1562 x 1654]
Wash Cylinder Information						
Cylinder diameter, in. [mm]	21.0 [533]	24.0 [610]	26.3 [668]	30.0 [762]	36.0 [914]	36.0 [914]
Cylinder depth, in. [mm]	13.8 [350]	16.0 [406]	20.3 [515]	22.0 [559]	21.9 [556]	25.9 [657]
Cylinder volume, ft^3 [l]	2.8 [79.3]	4.2 [119]	6.3 [178]	9.0 [255]	12.9 [365]	15.2 [430]
Cylinder capacity, lbs. [kg]	20 [9.1]	30 [13.1]	40 [18.1]	60 [27.2]	80 [36.3]	100 [45.4]
Perforation size, in. [mm]	0.188 [4.78]	0.188 [4.78]	0.188 [4.78]	0.188 [4.78]	0.188 [4.78]	0.188 [4.78]
Perforation open area, %	17.3	18.6	18.8	18.8	19.6	20.2
Door Opening Information						
Door opening size, in. [mm]	11.6 [295]	14.3 [363]	16.3 [414]	16.3 [414]	18.5 [470]	18.5 [470]
Height of door bottom above floor, in. [mm]	14.4 [365]	14.0 [356]	14.6 [370]	14.9 [379]	17.9 [455]	17.9 [455]
Height of door opening above floor, in. [mm]	17.0 [432]	17.0 [431]	17.7 [451]	18.1 [460]	21.7 [551]	21.7 [551]

Table 1 *continues...*

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Specification		20	30	40	60	80	100
Power Consumption							
Average power used per cycle, kW-hr. (X-voltage, non-heat models)		0.09	0.12	0.16	0.21	0.27	0.30
Estimated Building Heat Load							
HVAC load		Use 5% of total energy used per cycle.					
Drive Train Information							
Number of motors in drive train		1	1	1	1	1	1
Drive motor power, hp [kW]		1 [0.75]	1 [0.75]	2 [1.5]	3 [2.25]	5 [3.75]	5 [3.75]
Cylinder Speeds							
Gentle wash/reverse, RPM [G]		37 [0.4]	34 [0.4]	33 [0.4]	31 [0.4]	28 [0.4]	28 [0.4]
Wash/reverse, RPM [G]		51 [0.8]	48 [0.8]	46 [0.8]	43 [0.8]	39 [0.8]	39 [0.8]
Distribution, RPM [G]		92 [2.5]	86 [2.5]	82 [2.5]	77 [2.5]	70 [2.5]	70 [2.5]
Very low extract, RPM [G]		301 [27]	282 [27]	269 [27]	252 [27]	230 [27]	230 [27]
Low extract, RPM [G]		518 [80]	485 [80]	464 [80]	434 [80]	396 [80]	396 [80]
Medium extract, RPM [G]		579 [100]	542 [100]	518 [100]	485 [100]	443 [100]	443 [100]
High extract, RPM [G]		648 [125]	606 [125]	579 [125]	542 [125]	495 [125]	495 [125]
Very high extract, RPM [G]		710 [150]	664 [150]	635 [150]	594 [150]	542 [150]	542 [150]
Ultra high extract, RPM [G]		819 [200]	766 [200]	733 [200]	686 [200]	626 [200]	568 [165]
Direct Steam Heating (Optional)							
Steam inlet connection size, in. (NPT)		N/A	N/A	1/2	1/2	1/2	1/2
Number of steam inlets		N/A	N/A	1	1	1	1
Maximum pressure, psi [kPa]		N/A	N/A	85 [570]	85 [570]	85 [570]	85 [570]
Required pressure, (min. - max. psi [kPa])		30-85 [200-570]	30-85 [200-570]	30-85 [200-570]	30-85 [200-570]	30-85 [200-570]	30-85 [200-570]
Steam required to raise bath water temperature 10°F/lbs. [10°C/kg]	LOW	N/A	N/A	2.09 [0.94]	3.80 [1.63]	3.80 [1.72]	3.80 [1.72]
	MED	N/A	N/A	2.40 [1.09]	4.65 [2.11]	4.65 [2.11]	5.49 [2.49]
	HIGH	N/A	N/A	2.84 [1.29]	5.79 [2.63]	5.79 [2.63]	6.84 [3.10]
Average consumption per cycle, BHP [kgf m]		N/A	N/A	0.78 [59]	0.98 [75]	1.34 [102]	1.58 [120]

Table 1 *continues...*

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Specification		20	30	40	60	80	100
Electrical Heating (Optional)							
Total electrical heating capacity, kW	200V	5.4	5.4	10.8	10.8	19.1	19.1
	240V	7.8	7.8	15.6	15.6	27.4	27.4
	380V	6.5	6.5	13.0	13.0	17.2	17.2
	415V	7.8	7.8	15.5	15.5	20.5	20.5
	480V	N/A	N/A	15.6	15.6	27.4	27.4
Number of electrical heating elements		3	3	6	6	6	6
Electrical heat element size, kW		2.6	2.6	2.6	2.6	4.2	4.2
Time required to raise bath temperature, minutes per 10°F [5.5°C]	LOW	1.690	2.545	1.792	2.648	2.101	2.436
	MED	2.048	3.119	2.187	2.902	2.268	2.843
	HIGH	2.368	3.693	2.394	3.269	2.643	3.031
Noise Emissions							
dBA	Wash	58	58	58	58	60	64
	Extract (100G)	56	56	58	60	67	69
	Extract (200G)	61	65	65	65	73	73
N/A = Not Applicable							

Table 1

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Machine Dimensions

Front View

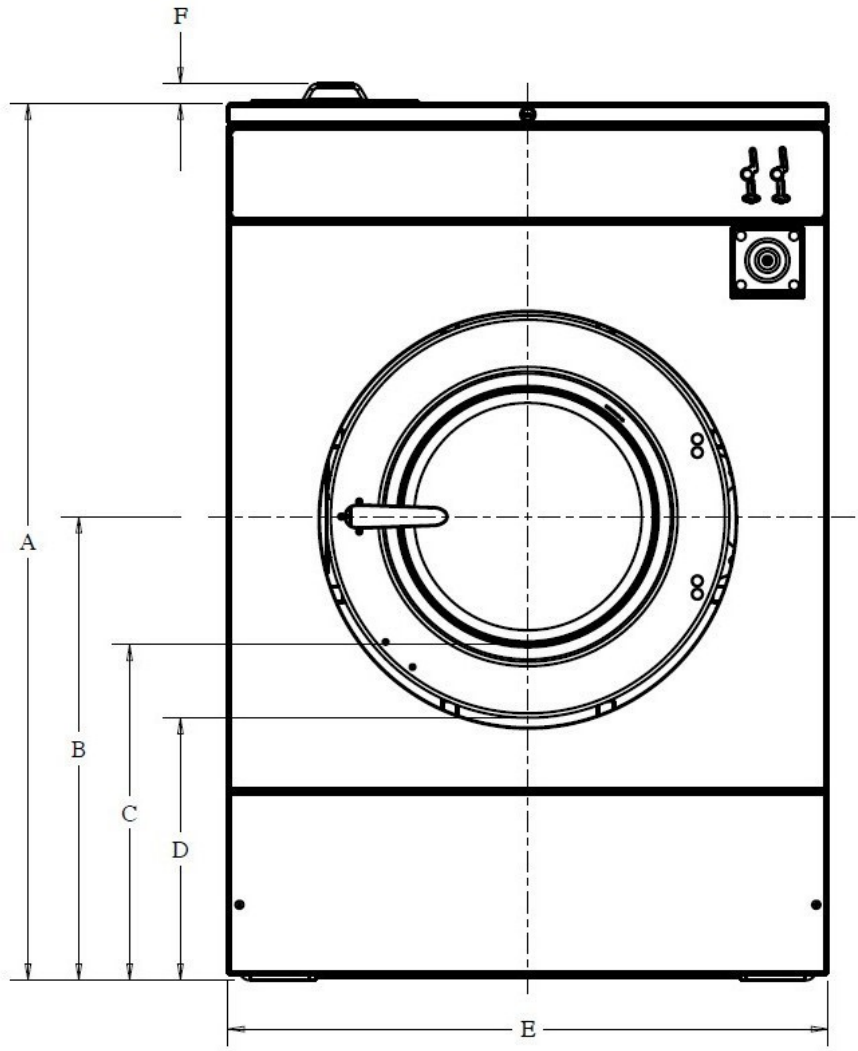

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Figure 2

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Machine Dimensions, in. [mm]						
Specification	**20**	**30**	**40**	**60**	**80**	**100**
A	43.0 [1092]	45.0 [1143]	47.2 [1199]	49.9 [1267]	57.2 [1453]	57.2 [1453]
B	23.0 [584]	24.0 [610]	26.0 [660]	26.4 [671]	30.9 [785]	30.9 [785]
C	17.0 [432]	17.0 [432]	17.7 [450]	18.1 [460]	21.7 [551]	21.7 [551]
D	14.4 [366]	14.0 [356]	14.6 [371]	14.9 [378]	17.9 [378]	17.9 [378]
E	26.0 [660]	29.0 [737]	30.6 [777]	34.1 [866]	41.5 [1054]	41.5 [1054]
F	1.1 [28]	1.1 [28]	1.1 [28]	1.1 [28]	1.1 [28]	1.1 [28]

Table 2

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Side View

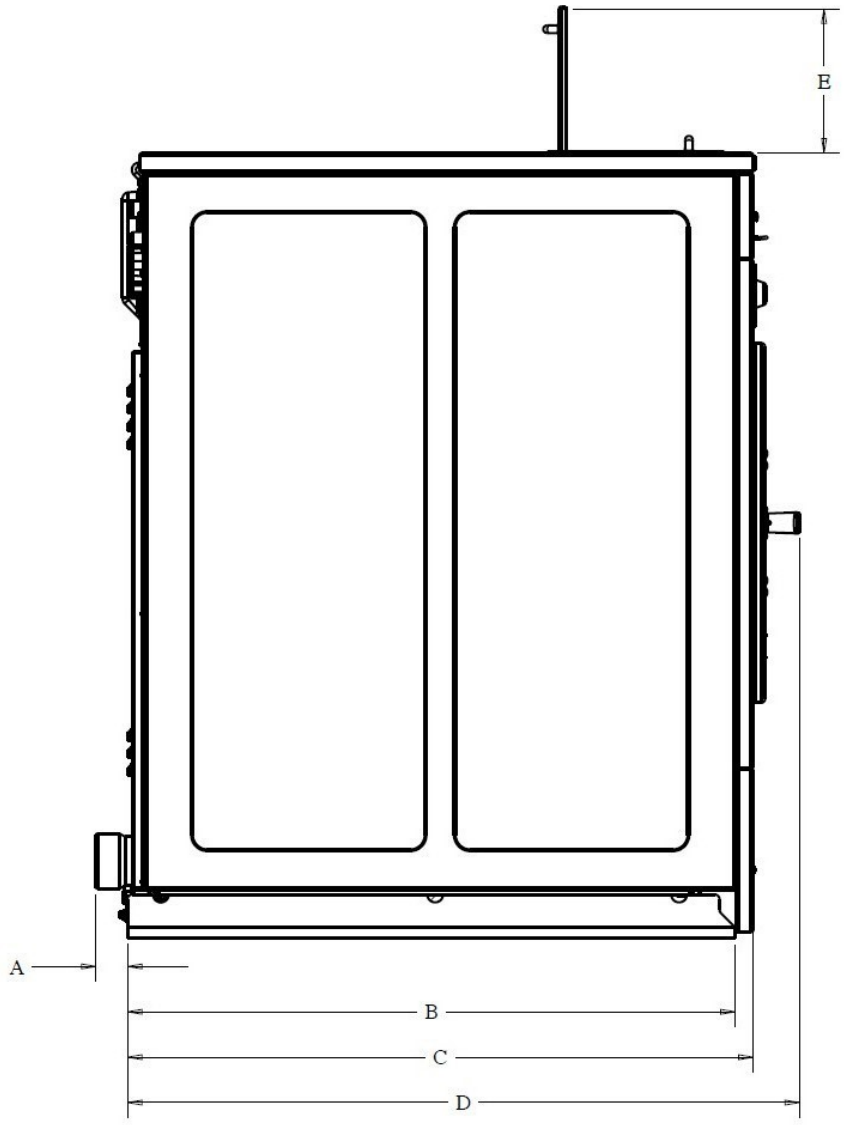

Figure 3

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Machine Dimensions, in. [mm]						
Specification	**20**	**30**	**40**	**60**	**80**	**100**
A	2.0 [51]	2.0 [51]	2.0 [51]	2.0 [51]	1.1 [28]	1.1 [28]
B	26.8 [681]	31.5 [800]	35.5 [902]	38.6 [980]	39.2 [996]	39.2 [996]
C	27.3 [693]	31.8 [808]	37.0 [940]	39.5 [1003]	44.1 [1120]	48.1 [1222]
D	30.9 [785]	35.3 [897]	42.3 [1074]	44.7 [1135]	47.1 [1196]	51.1 [1298]
E	9.3 [236]	9.3 [236]	9.3 [236]	9.3 [236]	9.3 [236]	9.3 [236]
Door width	16.75 [426]	19.38 [492]	21.75 [552]	21.75 [552]	25.25 [641]	25.25 [641]

Table 3

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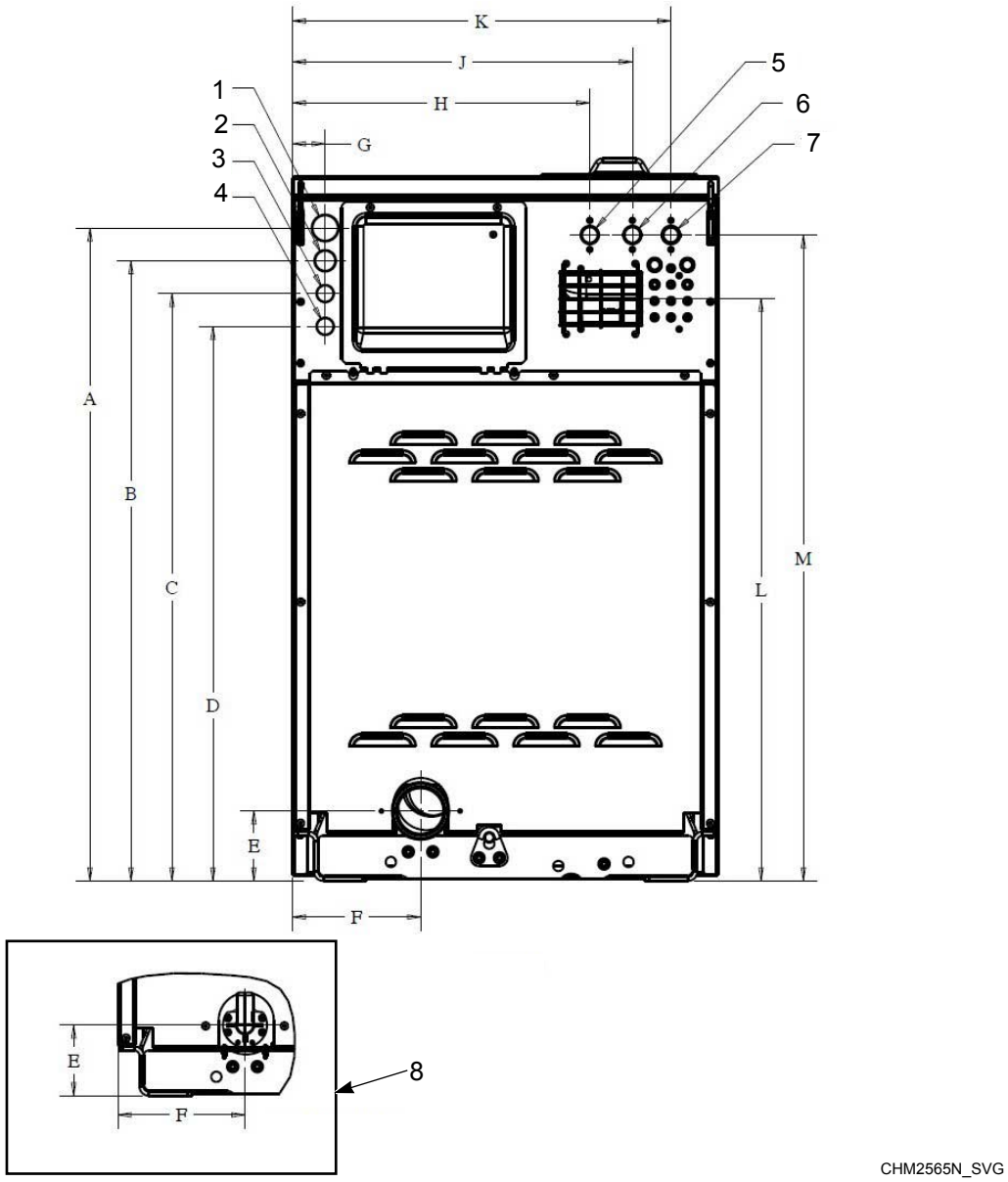
20-30 Models Rear View



1. 1 1/2" Electrical
2. 1 1/8" Electrical
3. 7/8" Electrical
4. 7/8" Electrical
5. Compartment Cold Fill Valve
6. Compartment Hot Fill Valve
7. Cold Hard Water Valve or 3rd Water Inlet
8. Pump Drain View

Figure 4

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Machine Dimensions, in. [mm]		
Specification	**20**	**30**
A	39.8 [1011]	41.8 [1062]
B	37.8 [960]	39.8 [1011]
C	35.8 [909]	37.8 [960]
D	33.8 [859]	35.8 [909]
E	3.9 [99]	4.3 [109]
F	7.8 [198]	9.3 [236]
G	2.0 [51]	2.0 [51]
H	18.1 [460]	21.1 [536]
J	20.7 [526]	23.7 [602]
K	23.1 [587]	26.1 [663]
L	39.4 [1001]	41.4 [1052]
M	35.6 [904]	37.5 [953]

Table 4

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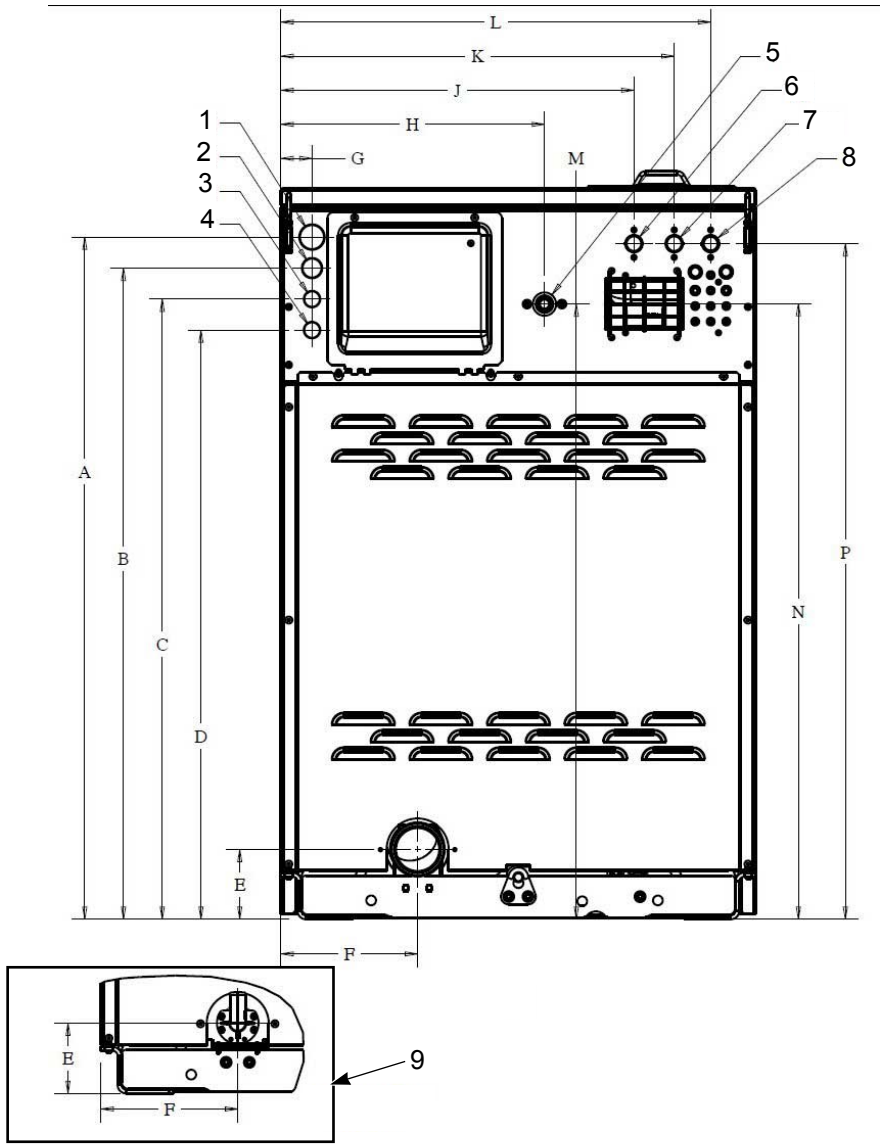
40 Models Rear View



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1. 1 1/2" Electrical
2. 1 1/8" Electrical
3. 7/8" Electrical
4. 7/8" Electrical
5. Steam Valve
6. Compartment Cold Fill Valve
7. Compartment Hot Fill Valve
8. Cold Hard Water Valve or 3rd Water Inlet
9. Pump Drain View

Figure 5

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Machine Dimensions, in. [mm]	
Specification	**40**
A	44.0 [1118]
B	42.0 [1067]
C	40.3 [1024]
D	38.0 [965]
E	4.5 [114]
F	8.8 [224]
G	17.0 [432]
H	2.0 [51]
J	22.8 [579]
K	25.4 [645]
L	27.7 [704]
M	39.7 [1008]
N	43.6 [1107]
P	39.7 [1008]

Table 5

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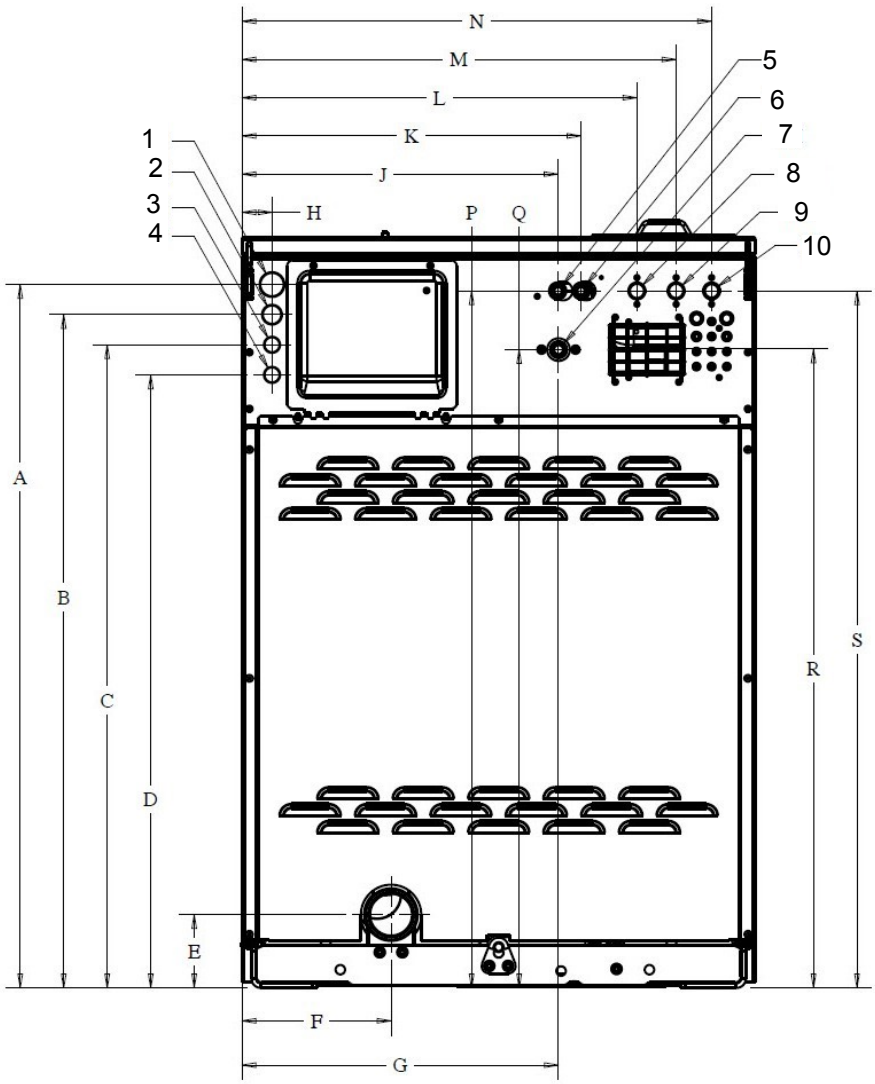
60-100 Models Rear View



CHM2567N_SVG

1. 1 1/2" Electrical
2. 1 1/8" Electrical
3. 7/8" Electrical
4. 7/8" Electrical
5. Tub Cold Fill Valve
6. Tub Hot Fill Valve
7. Steam Valve
8. Compartment Cold Fill Valve
9. Compartment Hot Fill Valve
10. Cold Hard Water Valve or 3rd Water Inlet

Figure 6

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Machine Dimensions, in. [mm]			
Specification	**60**	**80**	**100**
A	46.7 [1186]	54.0 [1372]	54.0 [1372]
B	44.7 [1135]	52.0 [1321]	52.0 [1321]
C	42.7 [1085]	50.0 [1270]	50.0 [1270]
D	40.7 [1034]	48.0 [1219]	48.0 [1219]
E	4.9 [124]	5.1 [130]	5.1 [130]
F	9.9 [251]	2.7 [69]	2.7 [69]
G	21.0 [533]	28.8 [732]	28.8 [732]
H	2.0 [51]	2.0 [51]	2.0 [51]
J	21.0 [533]	28.4 [721]	28.4 [721]
K	22.5 [572]	29.9 [759]	29.9 [759]
L	26.2 [665]	33.6 [853]	33.6 [853]
M	28.8 [732]	36.2 [919]	36.2 [919]
N	31.2 [792]	38.6 [980]	38.6 [980]
P	46.3 [1176]	52.6 [1336]	52.6 [1336]
Q	42.4 [1077]	49.7 [1262]	49.7 [1262]
R	46.3 [1176]	53.6 [1361]	53.6 [1361]
S	42.4 [1097]	49.7 [1262]	49.7 [1262]

Table 6

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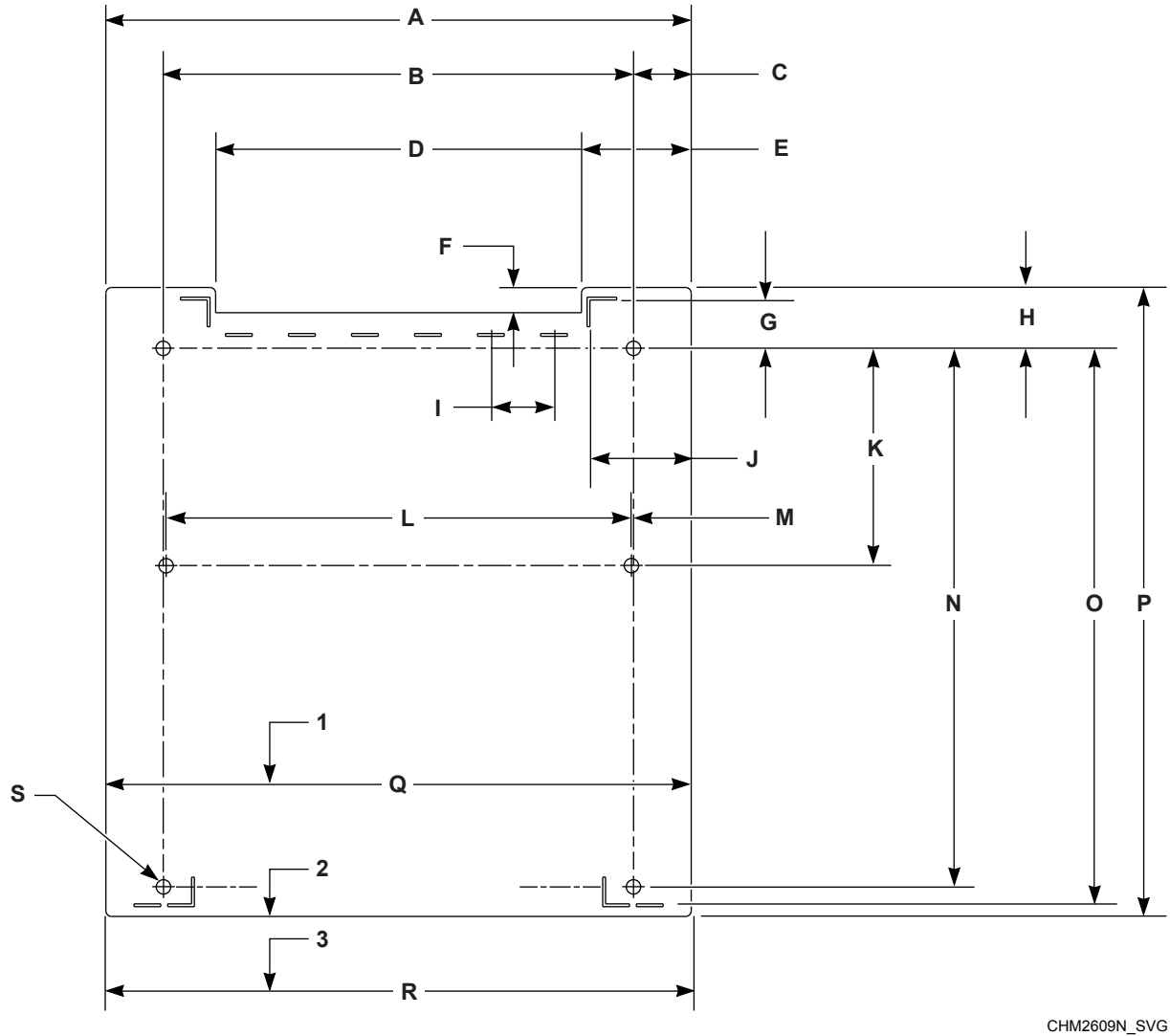
Mounting Bolt Hole Locations – 20 and 30 Models

20-30 Models (refer to *Table 7*)



1. Elevated Base Width
2. Front of Mounting Bolt Template
3. Machine Width

Figure 7

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Mounting Bolt Hole Locations – 20 and 30 Models, in. [mm]		
Specification	**20**	**30**
A	26 [660]	29 [737]
B	20.875 [530]	23.886 [607]
C	2.562 [65]	2.558 [65]
D	16.25 [413]	18.87 [479]
E	4.875 [124]	5.065 [129]
F	1.12 [28]	1.033 [26]
G	2.15 [55]	1.81 [46]
H	2.71 [69]	2.37 [60]
I	2.8 [71]	2.813 [71]
J	4.5 [114]	4.51 [114]
K	9.638 [245]	10.5 [267]
L	20.649 [525]	23.5 [597]
M	0.113 [3]	0.188 [5]
N	23.938 [608]	28.938 [735]
O	24.69 [627]	29.69 [754]
P	27.95 [710]	32.38 [597]
Q	26 [660]	29 [737]
R	0.641 [16]	0.641 [16]

Table 7

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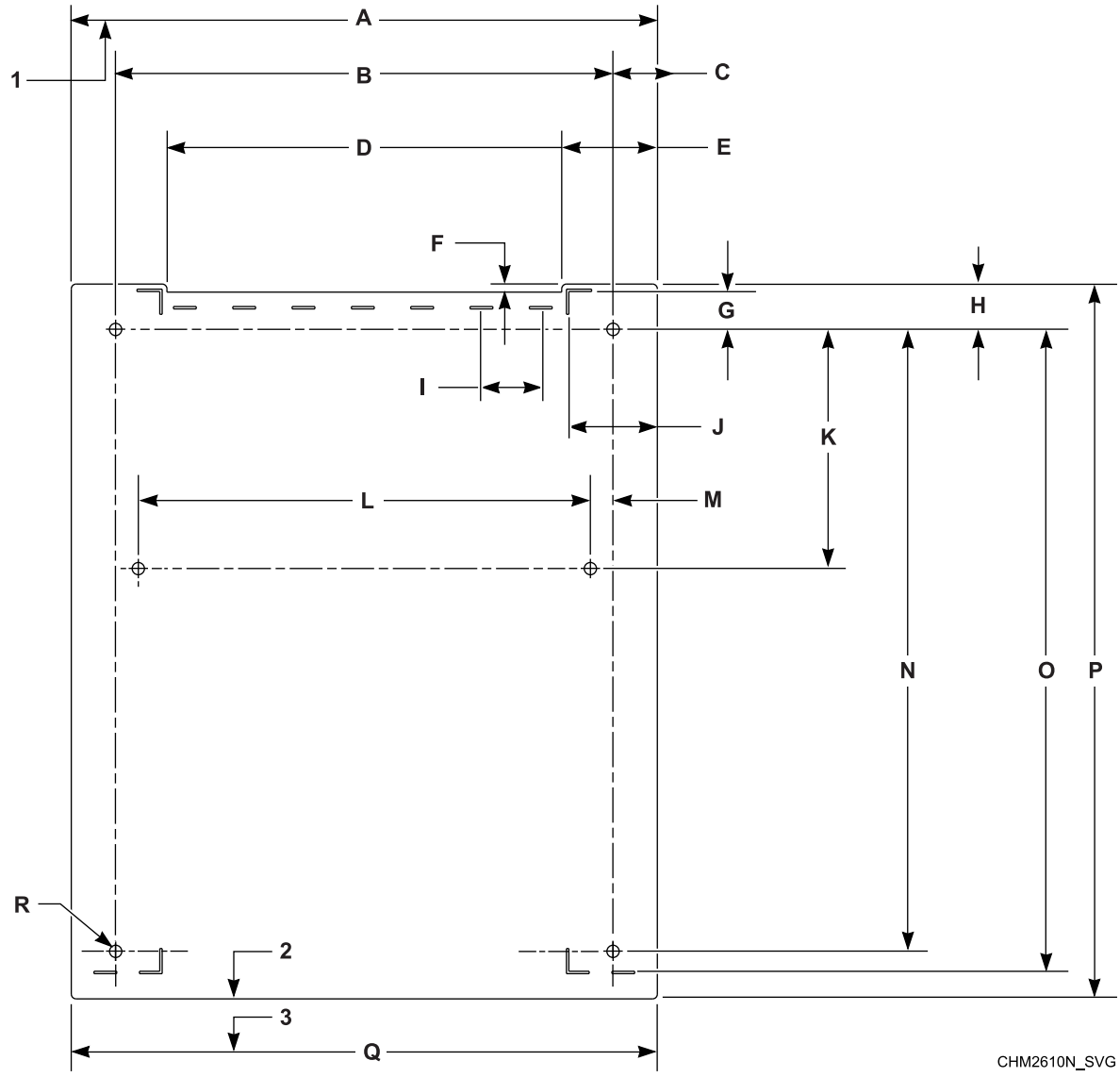
Mounting Bolt Hole Locations - 40 and 60 Models

40 and 60 Models (refer to *Table 8*)



1. Elevated Base Width
2. Front of Mounting Bolt Template
3. Machine Width

Figure 8

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Mounting Bolt Hole Locations - 40 and 60 Models, in. [mm]		
Specification	**40**	**60**
A	30.63 [778]	34.06 [865]
B	26 [660]	30 [762]
C	2.315 [59]	2.03 [52]
D	20.63 [524]	23.39 [594]
E	5 [127]	5.34 [136]
F	0.422 [11]	0.614 [16]
G	1.98 [50]	1.75 [44]
H	2.37 [60]	2.37 [60]
I	3.1 [79]	3.28 [83]
J	4.63 [118]	4.96 [126]
K	12.5 [318]	11.927 [303]
L	23.626 [600]	27.5 [699]
M	1.187 [30]	1.25 [32]
N	32.5 [826]	36 [914]
O	33.54 [852]	36.87 [699]
P	37.36 [949]	40.7 [1034]
Q	30.6 [777]	34.1 [866]
R	0.614 [16]	0.641 [16]

Table 8

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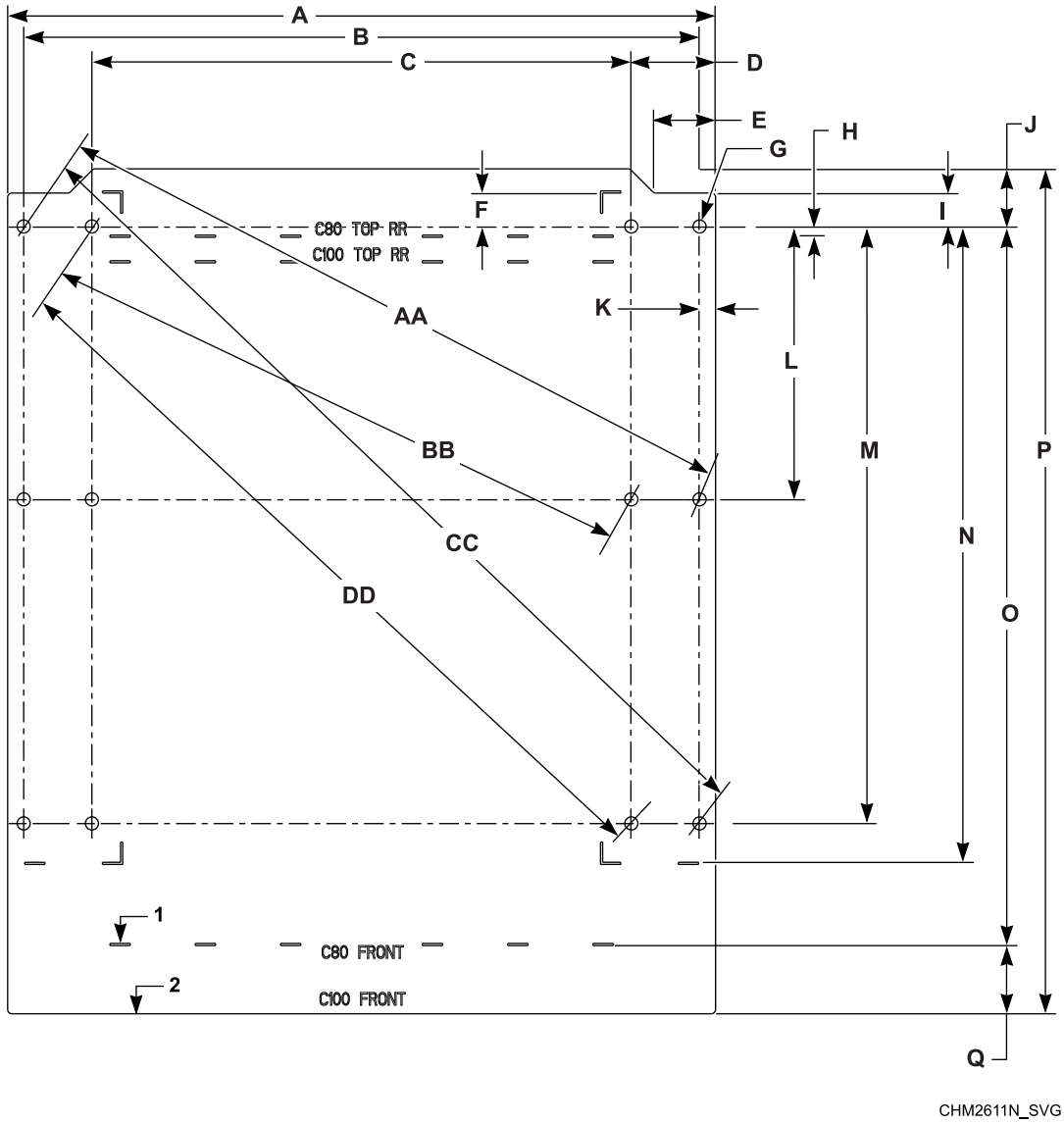
Mounting Bolt Hole Locations – 80 and 100 Models

80 and 100 Models (refer to *Table 9*)



NOTE: For single machine installations or two machines installed back to back, use the outside bolt holes marked “A”. For multiple machines installed side by side with minimum clearance, use the inside bolt holes marked “B”.

1. Front of Mounting Bolt Template

Figure 9

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Mounting Bolt Hole Locations – 80 and 100 Models, in. [mm]			
Specification		**80**	**100**
A		41.5 [1054]	41.5 [1054]
B		39.62 [1006]	39.62 [1006]
C		31.62 [803]	31.62 [803]
D		4.94 [124]	4.94 [124]
E		3.612 [92]	3.612 [92]
F		1.96 [50]	1.96 [50]
G		0.766 [19]	0.766 [19]
H		0.508 [13]	0.508 [13]
I		1.96 [50]	1.96 [50]
J		3.38 [86]	3.38 [86]
K		0.94 [24]	0.94 [24]
L		16 [406]	16 [406]
M		35 [889]	35 [889]
N		37.28 [947]	37.28 [947]
O		42.16 [1071]	42.16 [1071]
P		49.54 [1258]	49.54 [1258]
Q		4 [102]	4 [102]
AA	**Outside**	42.72 [1085]	42.72 [1085]
BB	**Inside**	35.43 [900]	35.43 [900]
CC	**Outside**	52.86 [1342]	52.86 [1342]
DD	**Inside**	47.16 [1197]	47.16 [1197]

Table 9

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Installation

Foundation Options

A minimum 3500 psi (refer to rating per supplier) reinforced concrete set on a prepared bed is required for all new machine installations.

NOTE: Do not mount on wooden floors, tile floors, elevated floor levels, stacked multiple base frames, or over basements or crawl spaces because of the high extract speed and the G-forces exerted. For 80 models and larger, do not mount on metal base frames.

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

For new foundations a mounting bolt template is available at extra cost or use machine base if available.

The machine must be anchored to a smooth level surface so that the entire base of the machine is supported and rests on the mounting surface.

IMPORTANT: Do not permanently support the machine on only four points with spacers. Grouting is required and spacers must be removed.

Machine Installation on Existing Floor

The existing floor slab must be reinforced concrete without voids under slab and meet depth requirements per *Table 19* . If the floor meets these requirements and an elevated pad is NOT desired, refer to *Figure 18* and proceed to *Machine Mounting and Grouting*.

If the floor does not meet these requirements and an elevated pad is NOT desired, refer to *Figure 21* and proceed to *Machine Mounting and Grouting*.

Elevated Pad Installation on Existing Floor

The existing floor slab must meet minimum requirements shown in *Foundation Requirements* per machine. The floor must be reinforced concrete without voids under slab. If the slab meets these requirements and an elevated pad is desired, refer to *Figure 20* and proceed to *Machine Mounting and Grouting*.

Elevated Base Frame Installation on Existing Floor

The existing floor slab must meet minimum requirements shown in *Machine Foundation and Pad Installation* per machine. The floor must be reinforced concrete without voids under slab. Refer to *Figure 18* and *Figure 19* . If the slab does not meets these requirements and an elevated base frame is desired, refer to *Figure 21* . Proceed to *Machine Mounting and Grouting*.

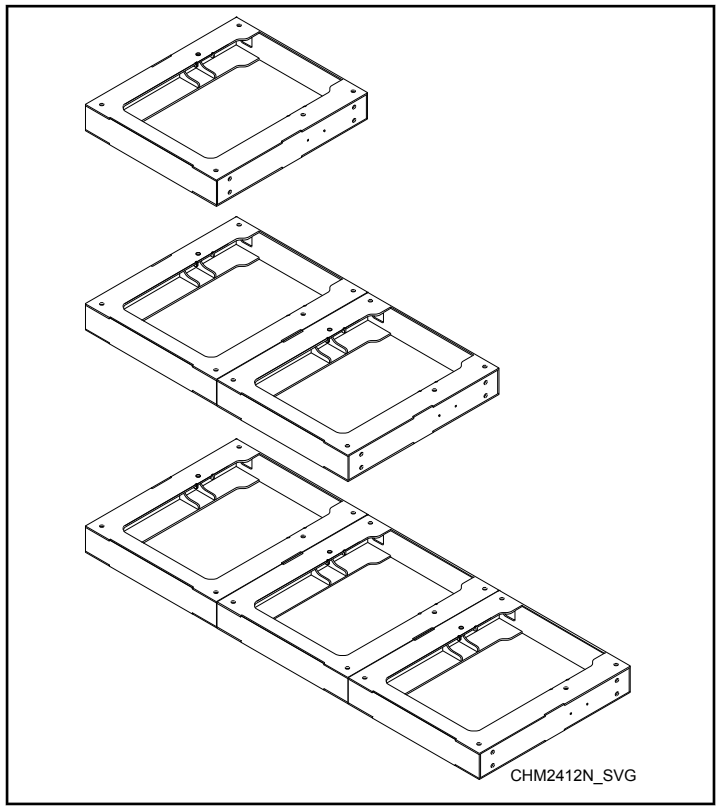

Figure 10

New Foundation

If the existing floor slab does not meet the single machine foundation requirements per model and/or a new monolithic foundation is desired, refer to *Figure 19* and proceed to *Foundation and Pad Installation*.

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Isolated Pad Installation

This type of installation is NOT recommended. Installer MUST consult a Structural Engineer for concrete specifications and requirements for installations that will not be tied into adjacent foundations.

IMPORTANT: The above instructions and recommendations are conservative specifications for a typical installation based on consultations with a structural engineer. Alliance Laundry Systems stands behind all installations meeting these specifications. For alternate installation specifications based on your soil type, location, building structure, unique floor geometry, machine types, and utilities, consult a structural engineer in your local area.

Foundation and Pad Installation

A concrete pad may be constructed to elevate a machine. Care must be exercised in the design of the pad due to the force exerted by the machine during extract. This concrete pad, recommended not to exceed 8 inches [203 mm] above existing floor, must be placed, reinforced with rebar and tied to the existing floor. Refer to *Floor Layout and Pad Dimensions* and *Foundation Requirements* sections for multiple machine installations.

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 12 inches [305 mm] thick, an elevated pad is desired or multiple machines are to be installed, the following steps must be performed (refer to *Foundation Requirements*):

1. Cut a hole through the existing floor that is larger on all sides than the machine base, refer to *Floor Layout and Pad Dimensions* .
2. Excavate to a depth as indicated in *Table 18* from the top of the existing floor.
3. If installing a foundation with elevated 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.
4. Backfill with clean fill dirt.
5. Compact backfill, making sure to allow for correct concrete thickness.
6. Drill holes (refer to manufacturer's requirements for drill hole size) for the perimeter reinforcing bar at a depth of 2-1/2 inches [64 mm] into the existing floor. The reinforcing should be 12 inches [305 mm] on center each way around entire perimeter.
7. Clean out debris from each reinforcing bar hole.
8. Fill half the hole depth with acrylic adhesive.

   NOTE: Procure acrylic adhesive rated for commercial-grade vibratory machine installations
9. Using #4 [60 ksi] reinforcing bar, tie new pad to existing floor making sure to tie reinforcing bars at the intersections and using proper reinforcing bar supports to hold bars at the proper depth in the pad.
10. Allow adhesive around reinforcing bar to cure properly, refer to adhesive manufacturer for recommended cure times.
11. Completely fill with 3500 psi concrete up to the existing foundation level plus any added level (maximum of 8 inch [203 mm]) for the desired elevated pad. The concrete must be poured so that the entire foundation and pad cures as one piece.
12. Allow concrete to cure, refer to manufacturer's recommended cure times.
13. Using a mounting bolt template or machine base, mark where the holes should be drilled to mount the machine.

    NOTE: As an alternate method, cast in the Grade 5 (minimum SAE rating), 5/8 inch [16 mm] for 20-60 models and 3/4 inch [19 mm] for 80 and 100 anchor bolts as the concrete is poured, refer to *Figure 2* and *Table 1* .
14. Proceed to *Machine Mounting and Grouting*.

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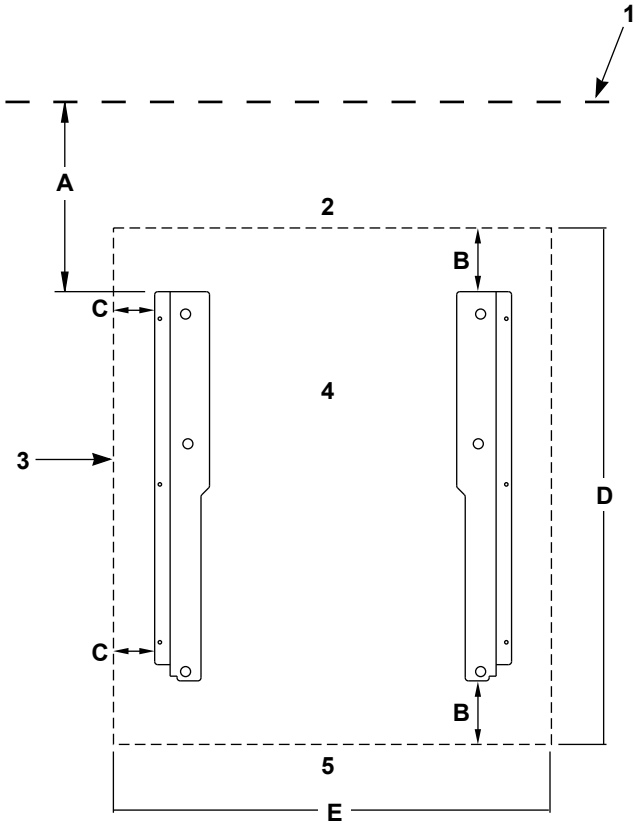
Floor Layout and Pad Dimensions

Dimensional Clearances - Single Machine Mount - 20-60 Pound [9.1-27.2 Kg] Models (refer to *Table 11*)



1. Wall
2. Rear Edge of Pad
3. Side Edge of Pad
4. Machine 1
5. Front Edge of Pad

Figure 11

Dimensional Clearances - Single Machine Mount - 20-60 Pound [9.1-27.2 Kg] Models, in. [mm]					
Description		**20**	**30**	**40**	**60**
A	Distance to wall (minimum)	24 [610]	24 [610]	24 [610]	24 [610]
B	Distance of machine base to edge of pad (minimum)	3.44 [87]	4 [102]	3.99 [101]	5.99 [152]
C	Distance of machine base to edge of pad (minimum)	2.52 [64]	2.51 [64]	2.81 [71]	5.18 [131]
D	Length of pad (minimum)	34.8 [884]	39.5 [1003]	43.5 [1105]	50.6 [1285]

Table 11 *continues...*

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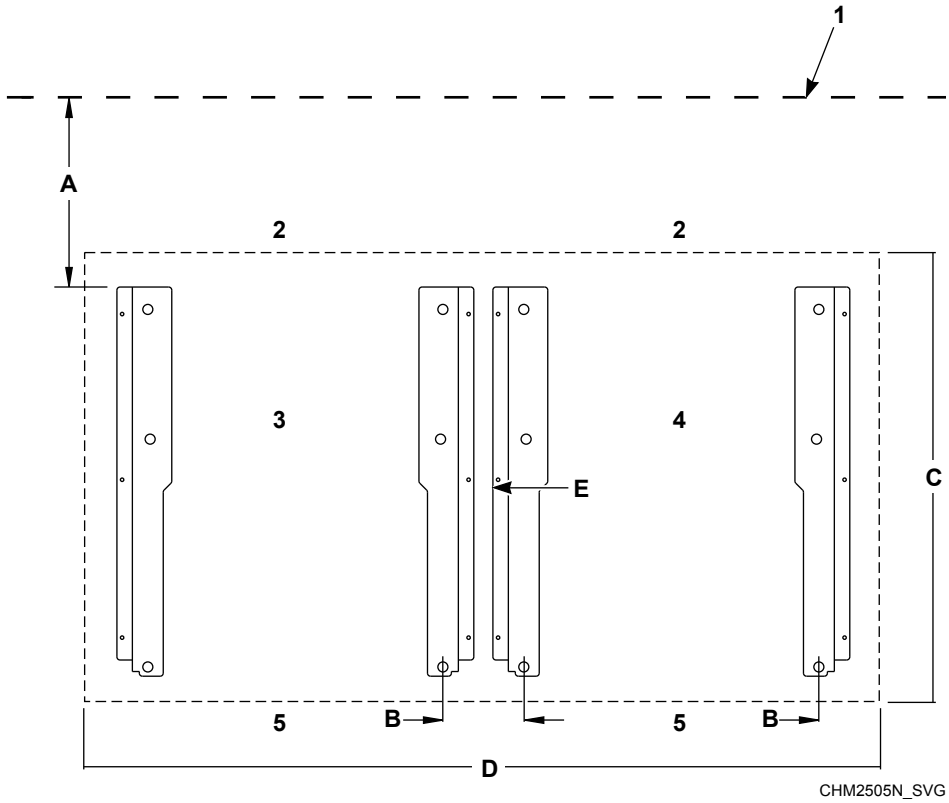
Dimensional Clearances - Single Machine Mount - 20-60 Pound [9.1-27.2 Kg] Models, in. [mm]					
Description		20	30	40	60
E	Width of pad (minimum)	31.4 [798]	34.4 [874]	36.5 [927]	44.8 [1138]

Table 11

Dimensional Clearances - Side-by-Side Mount - 20-60 Pound [9.1-27.2 Kg] Models (refer to *Table 12*)



1. Wall
2. Rear Edge of Pad
3. Machine 1
4. Machine 2
5. Front Edge of Pad

Figure 12

Dimensional Clearances - Side-by-Side Mount - 20-60 Pound [9.1-27.2 Kg] Models, in. [mm]					
Description		20	30	40	60
A	Distance to wall (minimum)	24 [610]	24 [610]	24 [610]	24 [610]

Table 12 *continues...*

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Dimensional Clearances - Side-by-Side Mount - 20-60 Pound [9.1-27.2 Kg] Models, in. [mm]					
Description		**20**	**30**	**40**	**60**
B	Mounted without bases (minimum)	5.14 [131]	5.12 [130]	4.63 [118]	4.06 [103]
	Mounted with bases (minimum)	5.5 [139]	5.5 [139]	4.88 [124]	4.44 [112]
C	Length of pad (minimum)	34.8 [884]	39.5 [1003]	43.5 [1105]	50.6 [1285]
D	Width of pad (minimum)	57.54 [1462]	63.52 [1613]	67.38 [1711]	78.98 [2006]
E	Side clearance between machines	.5 [13]	.5 [13]	.5 [13]	.5 [13]

Table 12

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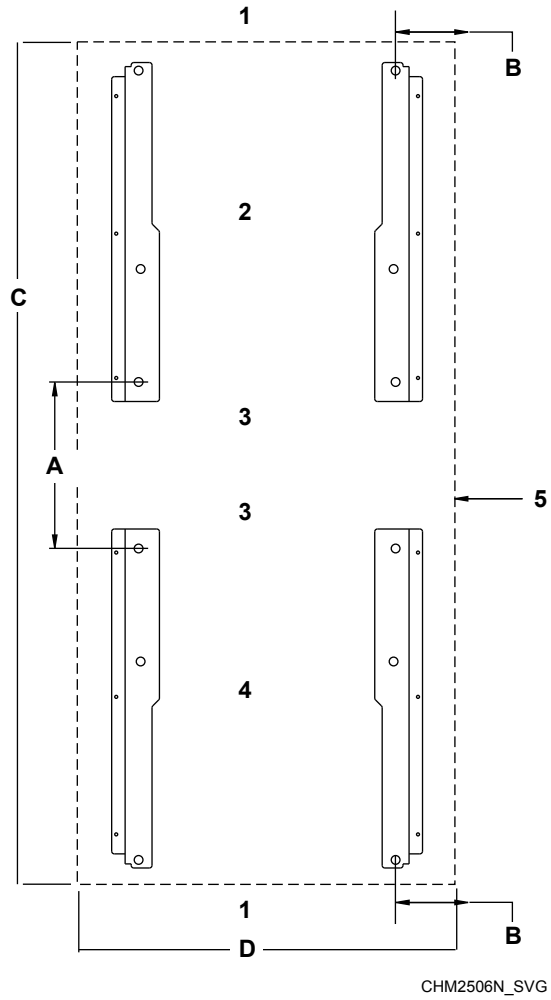
Dimensional Clearances - Back-to-Back Mount - 20-60 Pound [9.1-27.2 Kg] Models (refer to *Table 13*)



1. Front-facing Edge of Pad
2. Machine 2
3. Rear of Machine
4. Machine 1
5. Side Edge of Pad or Wall

Figure 13

Dimensional Clearances - Back-to-Back Mount - 20-60 Pound [9.1-27.2 Kg] Models, in. [mm]					
Description		**20**	**30**	**40**	**60**
A	Adjacent rear bolt spacing (minimum)	28.3 [719]	27.6 [702]	28.0 [710]	27.5 [699]
B	Distance from front bolt to edge of pad (minimum)	5.26 [134]	5.26 [134]	6.19 [157]	8.9 [226]
C	Length of pad (minimum)	88.63 [2251]	98.37 [2499]	115.23 [2927]	119.48 [3035]

Table 13 *continues...*

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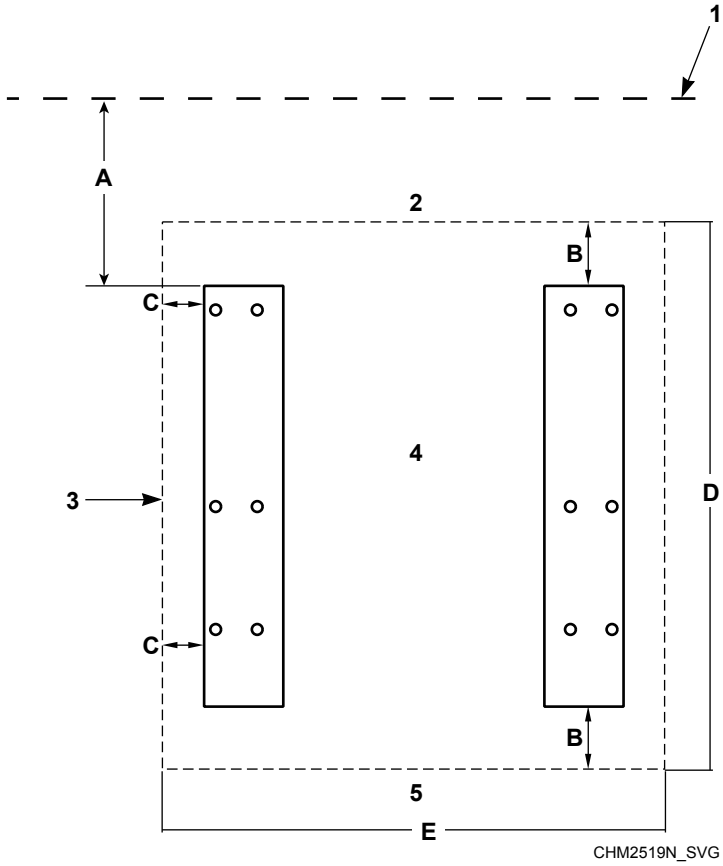
Dimensional Clearances - Back-to-Back Mount - 20-60 Pound [9.1-27.2 Kg] Models, in. [mm]					
Description		20	30	40	60
D	Width of pad (minimum)	31.4 [798]	34.4 [874]	36.5 [927]	44.8 [1138]

Table 13

Dimensional Clearances - Single Machine Mount - 80 and 100 Pound [36.3 and 45.4 Kg] Models (refer to *Table 14*)



1. Wall
2. Rear Edge of Pad
3. Side Edge of Pad
4. Machine 1
5. Front Edge of Pad

Figure 14

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Single Machine Mount - 80 and 100 Pound [36.3 and 45.4 Kg] Models, in. [mm]		
Description		**80-100**
A	Distance to wall (minimum)	24 [610]
B	Distance of machine base to edge of pad (minimum)	4.98 [126]
C	Distance of machine base to edge of pad (minimum)	8 [203]
D	Length of pad (minimum)	49.2 [1250]
E	Width of pad (minimum)	57.5 [1461]

Table 14

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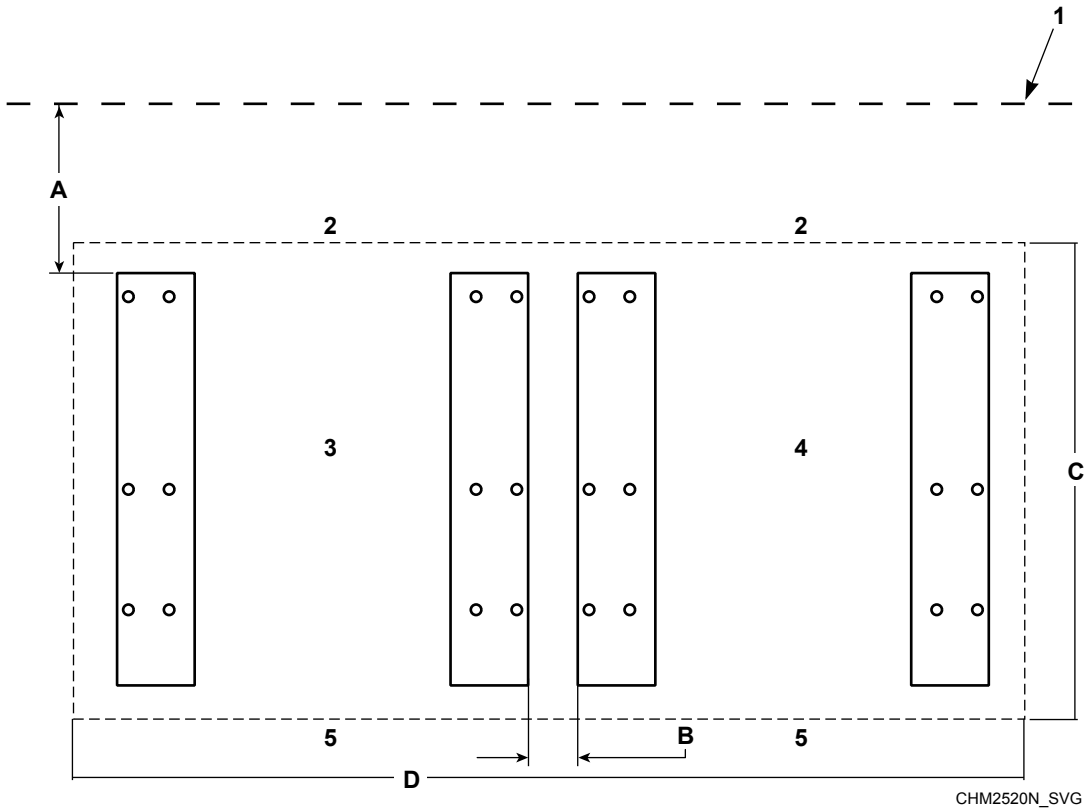
Dimensional Clearances - Side by Side Mount - 80 and 100 Pound [36.3 and 45.4 Kg] Models (refer to *Table 15*)



1. Wall
2. Rear Edge of Pad
3. Machine 1
4. Machine 2
5. Front Edge of Pad

Figure 15

Standard Mount Side-by-Side - 80 and 100 Pound [36.3 and 45.4 Kg] Models, in. [mm]		
Description		**80-100**
A	Distance to wall (minimum)	24 [610]
B	Adjacent unit spacing (minimum)	6 [152]
C	Length of pad (minimum)	49.2 [1250]
D	Width of pad (minimum)	99.5 [2527]

Table 15

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Close Mount Side-by-Side - 80 and 100 Pound [36.3 and 45.4 Kg] Models (refer to *Table 15*)

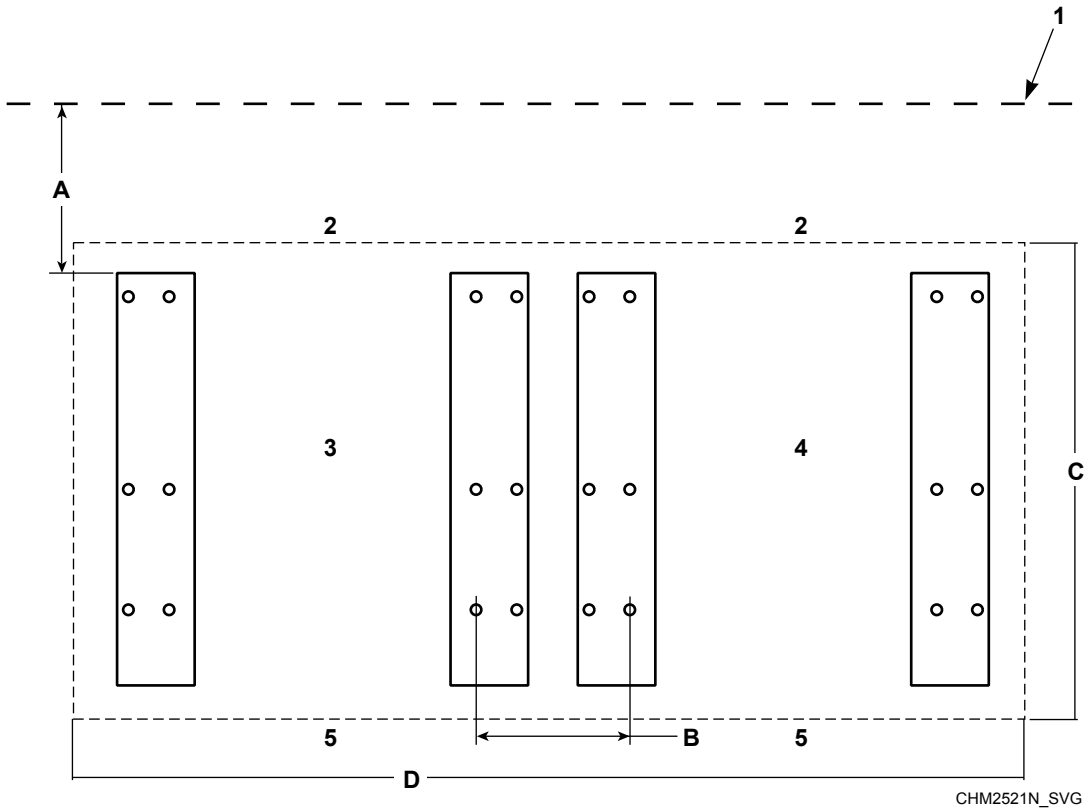

Figure 16

Close Mount Side-by-Side - 80 and 100 Pound [36.3 and 45.4 Kg] Models, in. [mm]		
Description		**80-100**
A	Distance to wall (minimum)	24 [610]
B	Adjacent unit bolt spacing (minimum)	10.38 [264]
C	Length of pad (minimum)	49.2 [1250]
D	Width of pad (minimum)	99.5 [2527]
IMPORTANT: When close mounting, bolt machine using inside bolt holes.		

Table 16

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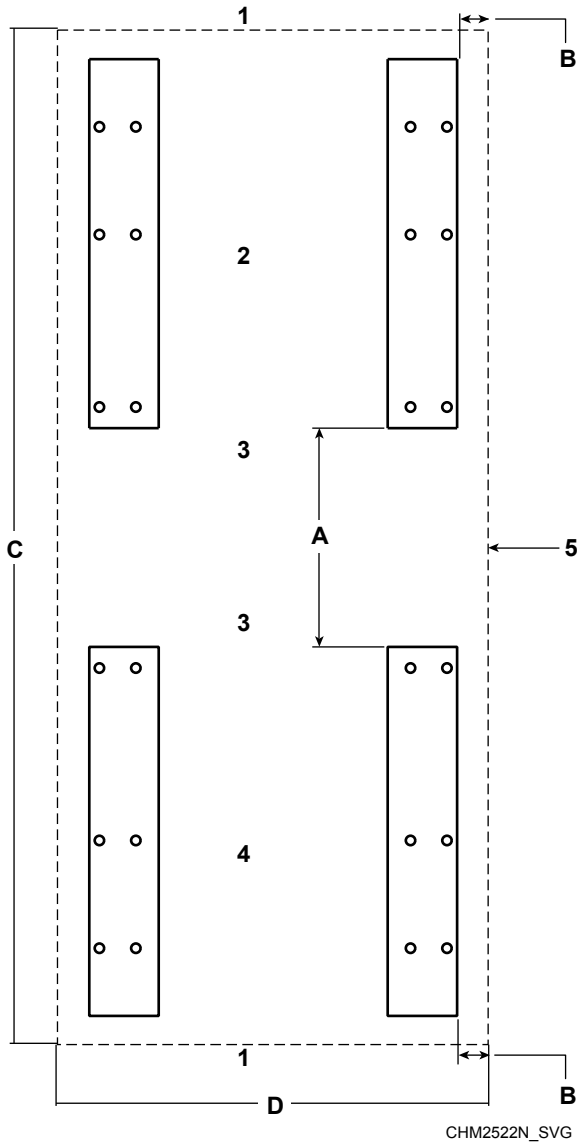
Dimensional Clearances - Back to Back Mount - 80 and 100 Pound [36.3 and 45.4 Kg] Models (refer to *Table 17*)



1. Front-facing Edge of Pad
2. Machine 2
3. Rear of Machine
4. Machine 1
5. Side Edge of Pad or Wall

Figure 17

Back-to-Back Mount - 80 and 100 Pound [36.3 and 45.4 Kg] Models, in. [mm]		
Description		**80-100**
A	Adjacent rear spacing (minimum)	33.3 [846]

Table 17 *continues...*

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Back-to-Back Mount - 80 and 100 Pound [36.3 and 45.4 Kg] Models, in. [mm]		
Description		**80-100**
B	Distance of machine base to edge of pad (minimum)	8 [203]
C	Length of pad (minimum)	130.56 [3316]
D	Width of pad (minimum)	51.5 [1308]

Table 17

Pad Thickness Requirements, in. [mm]						
Specification		**20**	**30**	**40**	**60**	**80-100**
Minimum Foundation Thickness	F-speed	4 [102]	4 [102]	4 [102]	4 [102]	6 [152]
	V-speed	4 [102]	4 [102]	6 [152]	6 [152]	9 [229]
Minimum Excavation Depth	F-speed	8 [203]	8 [203]	8 [203]	8 [203]	12 [305]
	V-speed	8 [203]	8 [203]	12 [305]	12 [305]	15 [381]

Table 18

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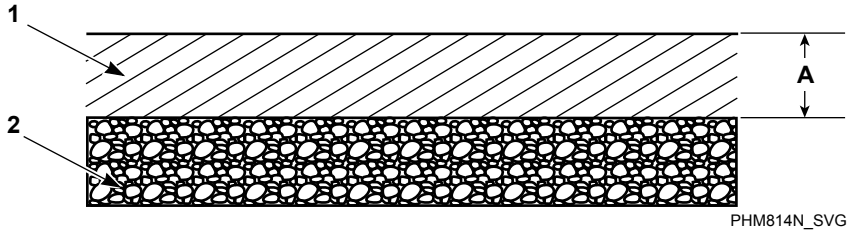
Foundation Requirements

Existing Floor (refer to *Table 19*)



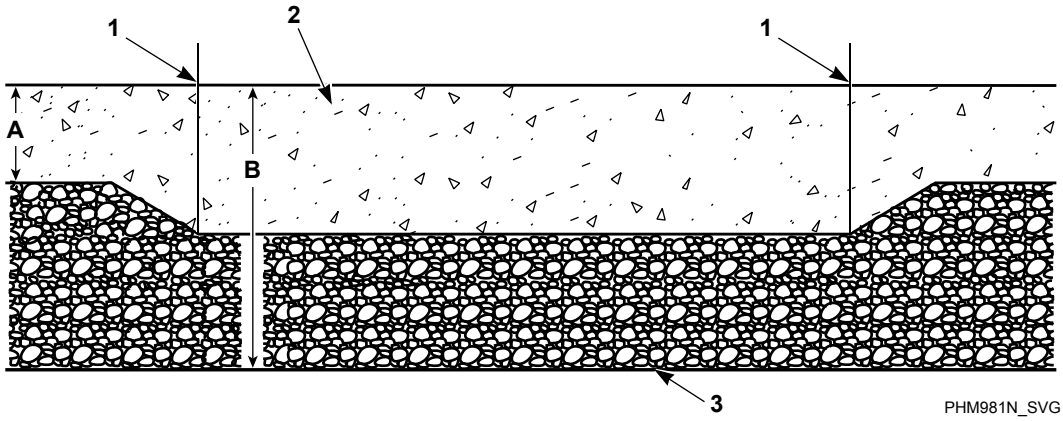
1. Existing Floor with 3500 PSI (minimum) Concrete
2. Compacted Fill (minimum 6 in. [152 mm])

Figure 18

Existing Floor, in. [mm]					
Description		20-30	40-60 (F-speed)	40-60 (V-speed) / 80-100 (F-speed)	80-100 (V-speed)
A	Required thickness of existing floor (minimum)	4 [102]	4 [102]	6 [152]	9 [229]

Table 19

New Monolithic Floor (refer to *Table 20*)



1. Edge of Pad
2. 3500 PSI (minimum) Concrete
3. Compacted Fill (minimum 6 in. [152 mm] beneath machine)

Figure 19

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New Monolithic Floor, in. [mm]					
Description		20-30	40-60 (F-speed)	40-60 (V-speed) / 80-100 (F-speed)	80-100 (V-speed)
A	**Depth of Surrounding Floor**	4 [102]	4 [102]	6 [152]	6 [152]
B	**Total depth of foundation (concrete plus 6 in. [152 mm] fill) (minimum)**	8 [203]	8 [203]	12 [305]	15 [381]

Table 20

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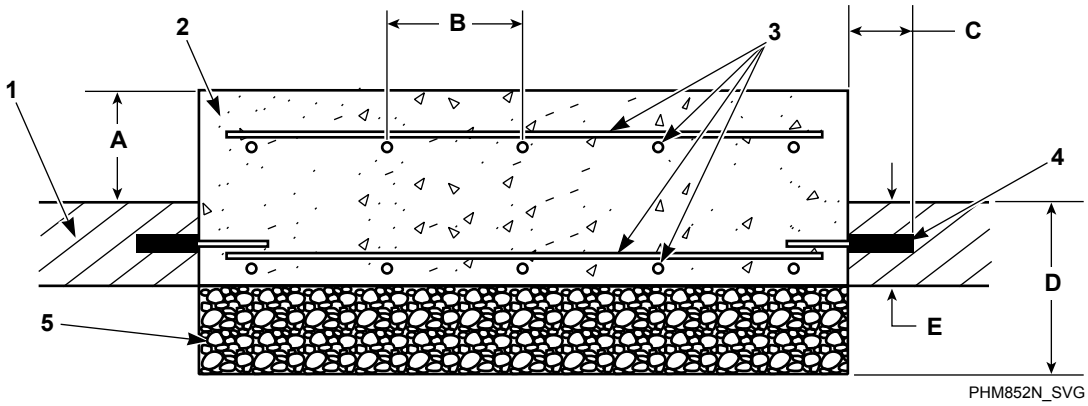
Elevated Pad (refer to *Table 21*)



1. Existing Floor
2. 3500 PSI (minimum) Concrete
3. Reinforcing Bar
4. Perimeter Reinforcing Bar
5. Compacted Fill (minimum 6 in. [152 mm])

Figure 20

Elevated Pad, in. [mm]					
	Description	**20-30**	**40-60 (F-speed)**	**40-60 (V-speed) / 80-100 (F-speed)**	**80-100 (V-speed)**
A	**Height of elevated pad above floor (maximum)**	8 [203]	8 [203]	8 [203]	8 [203]
B	**Distance between reinforcing bars (maximum)**	12 [305]	12 [305]	12 [305]	12 [305]
C	**Length of reinforcing bar extending into existing floor (minimum)**	2.5 [64]	2.5 [64]	2.5 [64]	2.5 [64]
D	**Total depth of foundation (concrete plus 6 in. [152 mm] fill) (minimum)**	8 [203]	8 [203]	12 [305]	15 [381]
E	**Required thickness of existing floor (minimum)**	4 [102]	4 [102]	6 [152]	6 [152]

Table 21

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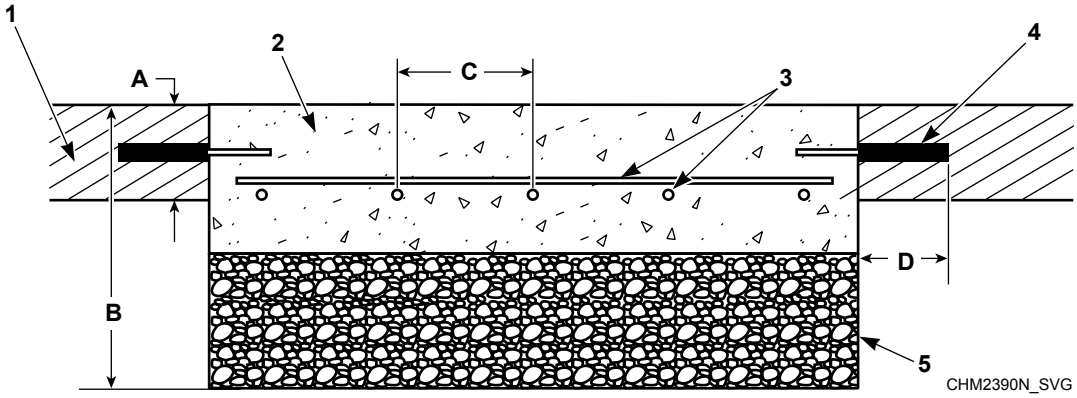
Tie-in to Existing Floor (refer to *Table 22*)



1. Existing Floor
2. 3500 PSI (minimum) Concrete
3. Reinforcing Bar
4. Perimeter Reinforcing Bar
5. Compacted Fill (minimum 6 in. [152 mm])

Figure 21

Tie-in to Existing Floor, in. [mm]					
Description		**20-30**	**40-60 (F-speed)**	**40-60 (V-speed) / 80-100 (F-speed)**	**80-100 (V-speed)**
A	**Required thickness of existing floor (minimum)**	4 [102]	4 [102]	6 [152]	6 [152]
B	**Total depth of foundation (concrete plus 6 in. [152 mm] fill) (minimum)**	8 [203]	8 [203]	12 [305]	15 [381]
C	**Distance between reinforcing bars (minimum)**	12 [305]	12 [305]	12 [305]	12 [305]
D	**Length of reinforcing bar extending into existing floor (minimum)**	2.5 [64]	2.5 [64]	2.5 [64]	2.5 [64]

Table 22

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Machine Mounting and Grouting

NOTE: After the concrete has cured completely and the cast-in-place method was used, refer to *Figure 23* and proceed to Step 7. If acrylic adhesive anchors are desired, refer to *Figure 22* and proceed with Step 1 after concrete has cured completely.

1. Refer to *Table 23* to set the drill depth gauge.
2. Drill the holes to the set depth.
3. Use compressed air or squeeze bulb to clean out debris from each hole.
4. Fill half the hole depth with an industry-accepted adhesive anchoring system.
5. Insert anchor bolt until it reaches the bottom. Refer to *Table 23* .
6. Ensure all air pockets are removed from adhesive surrounding the bolt.
7. Allow adhesive around bolt to cure completely.
8. Remove shipping materials and place the machine or elevated base frame carefully over the bolts.

   NOTE: Never attempt to lift the machine by the door handle or by pushing on the cover panels. Always insert a pry bar or other lifting device under the bottom frame of the machine to move it.

   IMPORTANT: DO NOT install 80 models or larger machines on an elevated metal base frame.
9. Raise and level the machine or elevated base frame 1/2 inch [1.27 cm] off the floor on four corners, using spacers such as nut fasteners.

   WARNING

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

   W793
10. Completely fill the space between the elevated base frame or machine base and the floor with a good quality **non-shrinking machinery precision grout** to ensure a stable installation. Grout completely under frame. Remove front panel and back panel to gain access to **entire perimeter of base plates**. Force grout under base until all voids are filled.

    IMPORTANT: Minimum Grade 5, SAE rating, flat washers and minimum Grade 5, SAE rating, serrated hex flange locknuts are the recommended hardware for anchoring machine or elevated base frame to anchor bolts.
11. Position the flat washers and locknuts on the anchor bolts and finger-tighten to machine base or elevated base frame.
12. Allow machine grout to set, but not cure.

    IMPORTANT: Refer to bolt manufacturer's recommended adhesive cure times.
13. Remove the spacers carefully, allowing the machine base or elevated base frame to settle into the wet grout.

    NOTE: If installing a 20-60 model directly to finished floor, wait until grout is completely cured and skip to Step 18. If installing on elevated base frame, proceed to Step 14.

20-60 Models

14. After the grout is completely cured, position the machine over the elevated base frame.
15. Align the mounting holes on the machine with the corresponding holes on the elevated base frame.
16. Install a bolt, flat washer and locknut in each mounting hole.
17. Hand tighten each nut.
    a. Tighten the two rear nuts two turns.
    b. Tighten the two front nuts two turns.
    c. Tighten the two middle nuts firmly.
18. Torque all the locknuts to 90 ± 9 ft.-lbs. – one after the other – until all are tightened evenly and the machine is fastened securely to the elevated base frame or floor.

80 Models and Larger

19. After the grout is completely cured, torque the locknuts to 150 ± 15 ft.-lbs. – one after the other – until all are tightened evenly and the machine is fastened securely to the floor.

    IMPORTANT: Refer to recommended grout cure times from manufacturer before torquing locknuts.

    IMPORTANT: All torque joints must remain dry (non-lubricated).

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

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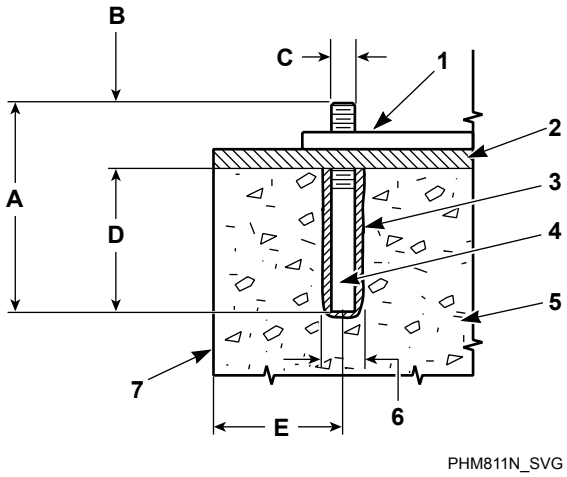
Acrylic Adhesive Anchors (refer to *Table 23*)

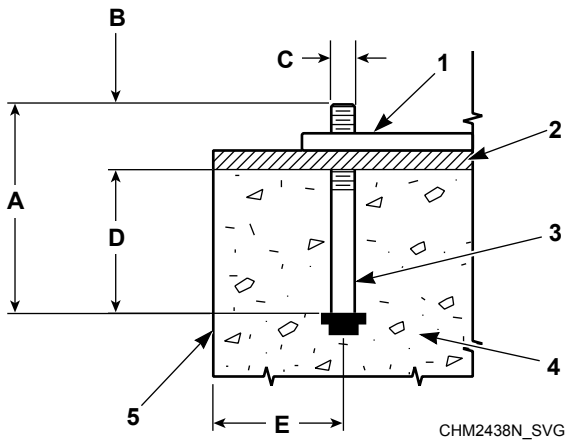


NOTE: *Available for purchase through the distributor. If not purchasing from a distributor, procure acrylic adhesive rated for commercial-grade vibratory machine installations.

1. Machine Frame Base
2. Grout 1/2 in. [13 mm]
3. Acrylic Adhesive*
4. Anchor Bolt* (minimum Grade 5 SAE rating)
5. Concrete
6. Drill Hole Size per Manufacturer Requirements
7. Edge of Pad

Figure 22

Cast-in-place Anchors (refer to *Table 23*)



1. Machine Frame Base
2. Grout
3. Anchor Bolt (minimum Grade 5 SAE rating)
4. Concrete
5. Edge of Pad

Figure 23

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Minimum Anchoring Specifications, in. [mm]				
Description		**20-40**	**60**	**80-100**
Number of Bolts		4 or 6*	6	6
A	Bolt Length	6 [152]	6 [152]	8-3/4 [216]
B	Thread Extension	2-1/2 [64]	2-1/2 [64]	2-3/4 [70]
C	Bolt Diameter	5/8 [16]	5/8 [16]	3/4 [19]
D	Embedment Depth	3-1/2 [89]	3-1/2 [89]	6 [152]
E	Distance from Bolt Center to Edge of Concrete Pad	Refer to *Table 2*	Refer to *Table 2*	Refer to *Table 2*
* On 20-40 models, the four (4) corner bolts are required and the two (2) center bolts are optional when mounting a machine or elevated base frame to floor.				

Table 23

Floor Load Data							
Specification		**20**	**30**	**40**	**60**	**80**	**100**
Static floor load, lbs. [kN]		430 [1.91]	550 [2.45]	690 [3.07]	920 [4.09]	1590 [7.07]	1690 [7.51]
Static pressure, lbs.-ft^2 [kN-m^2]		97 [4.64]	95 [4.55]	98 [4.69]	105 [5.03]	140 [6.70]	149 [7.13]
Dynamic floor load, lbs. [kN]		420 [1.86]	630 [2.80]	840 [3.74]	1260 [5.61]	1680 [7.48]	1680 [7.48]
Dynamic floor pressure, lbs.-ft2 [kN-m^2]		96 [4.60]	109 [5.22]	119 [5.70]	143 [6.85]	149 [7.13]	149 [7.13]
Dynamic load frequency, Hz	F-speed	9.7	9.0	8.6	8.1	7.4	7.4
	V-speed	13.7	12.8	12.2	11.4	10.4	9.5
Maximum moment about machine base, lbs.-ft. [kN-m]		805 [1.09]	1260 [1.71]	1820 [2.47]	2770 [3.76]	4330 [5.87]	4330 [5.87]
Maximum vertical load, lbs. [kN]		800 [3.56]	1130 [5.03]	1460 [6.49]	2060 [9.16]	3090 [13.75]	3160 [14.06]

Table 24

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Drain Connection Requirements

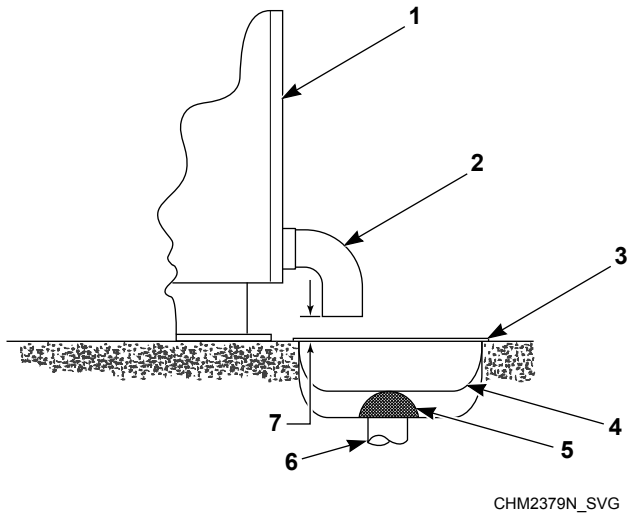
IMPORTANT: Machine must be installed in accordance with all local codes and ordinances.

All drain systems must be vented to prevent an air lock or siphoning.

Use the supplied black rubber adapter and clamps to transition from the machine drain outlet to the 3 inches [76 mm]schedule 40 PVC plumbing.

If proper drain size is not available or practical, a surge tank is required. A surge tank along with a sump pump should be used when gravity drainage is not possible.

Drain Trough System



1. Rear of Machine
2. Drain Pipe
3. Steel Grate
4. Drain Trough
5. Strainer
6. Waste Line
7. 1 in. [25 mm] minimum gap

Figure 24

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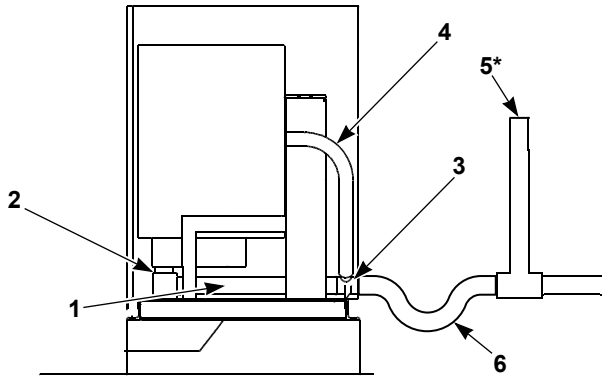
Direct Drain System



* Drain line must be vented to meet local plumbing codes.

1. Drain Hose
2. Drain Valve
3. Drain Tee
4. Overflow Hose
5. Vent Pipe*
6. Trap (as required by local codes)

Figure 25

IMPORTANT: Increasing the drain hose length, installing elbows, or causing bends will decrease drain flow rates and increase drain times, impairing machine performance.

Drain Information						
Specification	**20**	**30**	**40**	**60**	**80**	**100**
Drain connection size, in.	3*	3*	3*	3*	3*	3*
Overflow drain connection size, in.	1-1/2	2-1/4	2-1/4	2-1/4	2-1/4	2-1/4
Number of drain outlets	1	1	1	1	1	1
Drain flow capacity, gal/min [l/min]	25 [95]	30 [114]	40 [151]	50 [189]	55 [208]	55 [208]
Maximum discharge (level 30), gal [l]	11.2	23.9	27.4	30.8	43.4	53.3
Recommended drain pit size, ft^3 [l]	2.0 [57]	2.5 [71]	3.5 [128]	5.7 [161]	8.0 [221]	9.5 [269]
* Also works with 3 inch OD PVC pipe if connected to inside of drain tee connector.						

Table 25

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Water Connection Requirements

WARNING

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

W748

The maximum water inlet temperature for vended models is 125°F [51°C]and the recommended maximum water inlet temperature for on-premises models is 150°F [66°C] (standard models) or 140°F [60°C] (WRAS approved models) .

Connections should be supplied by a hot and a cold water line of at least the sizes shown in *Water Supply Line Sizing* . Installation of additional machines will require proportionately larger water lines.

Connections should be supplied by a hot and a cold water line per national and local codes and in accordance with AS/NZS 3500.I.

Water Supply Information

Specification	Model	Requirement
Water inlet connection size, in.	20-100	3/4
Thread pitch, GHT [BSPP]	20-100	3/4 x 11-1/2 [3/4 x 14]
Number of water inlets	20-40	2
	60-100 (standard models)	4
	60-100 (WRAS- approved models)	2
Recommended pressure, psi [kPa]	20-100	30-85 [200-570]
Maximum inlet flow capacity per machine, gal/min at 85 psi [l/min at 1232 Pa]	20-40	10.5 [40]
	60	18.5 [70]
	80-100	23.0 [87]
Extra water inlet flow, gal/min at 85 psi [l/min at 1232 Pa]	20-100	5.2 [20]

Table 26

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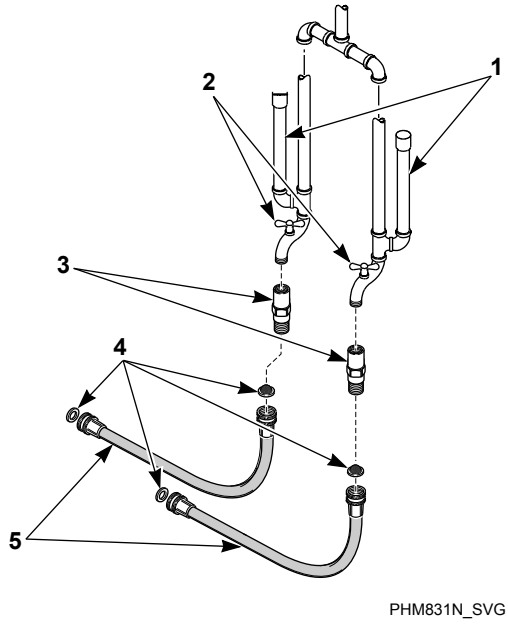
Water Supply Line Sizing, in.		
Number of Machines	Supply Line Size	
	Main	Hot/Cold
1	3/4	3/4
2	1	3/4
3	1-1/4	1
4	1-1/2	1

Table 27

Suitable air cushions (risers) should be installed in supply lines to prevent “hammering.” Refer to *Figure 26* .

Alliance Laundry Systems, LLC ranges of front loading commercial clothes washing machines have solenoid valves at the inlets. The water supply to the washing machines is supplied with an AB air gap between the soap tray and the drum. Minimum and maximum working pressure 1.4 bar and 8.3 bar. The machines are supplied with approved inlet hoses with a maximum inlet dimension of 1/2 inch (ID).

NOTE: This machine has a fluid category 5 backflow prevention device built in between the soap tray and drum.



1. Air Cushions (Risers)
2. Water Supply Faucets
3. Dual Check Valves
4. Filters
5. Hoses

Figure 26

To comply with WRAS (IRN R150) and Australian water regulations, European standard EN1717 and Australian standard ATS5200.101, an approved dual check valve backflow prevention device with the watermark is provided with the unit and must be fitted at the point of connection(s) between the supply and the fitting. Refer to *Figure 26* .

NOTE: No more than three (3) water connection hoses should be used on WRAS-approved models.

Figure 27

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Figure 28

Connect Inlet Hoses (20-40 Models)

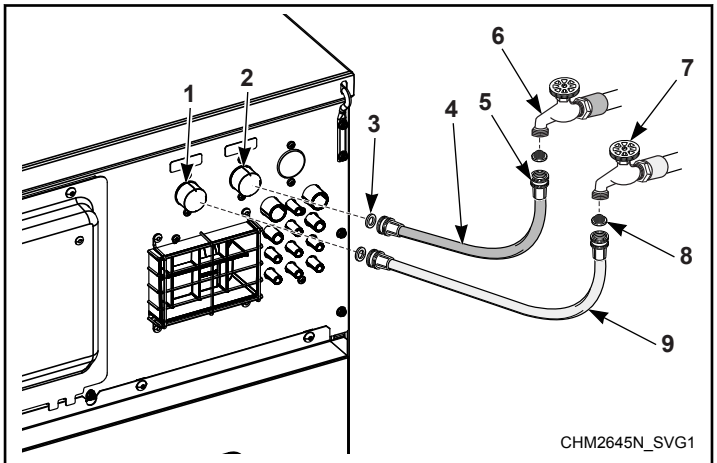
To connect water service to a machine with hoses, use the following procedure:

1. Before installing hoses, flush the building's water system at the machine connection valves for at least two (2) minutes.
2. Remove the two (2) plain rubber washers and two (2) filter screens from the accessories bag supplied with the machine.
3. Install one (1) plain rubber washer onto one end and one (1) filter screen into the other end of each fill hose. The screens must be facing outward toward the water supply. Refer to *Figure 29* .
4. Screw hose couplings with the filter screens onto the water supply faucets until they are finger-tight. Use the red color-coded hose for the hot water connection and the blue color-coded hose for the cold water connection.
5. Using pliers, screw approximately 1/4 turn.
6. Screw the coupling with the plain rubber washer of the red color-coded hose (attached to the hot water connection) onto the valve inlet marked with a red label. Screw the coupling with the plain rubber washer of the blue color-coded hose (attached to the cold water connection) to the valve inlet marked with a blue label. Tighten to finger-tight.
7. Using pliers, screw approximately 1/4 turn.

   IMPORTANT: DO NOT cross thread or overtighten couplings. This will cause them to leak.
8. Hang hoses in a large loop; do not allow them to kink.
9. Turn on water supply and check for leaks.
10. If leaks are found, turn off the water, unscrew hoses and reinstall them until there are no leaks.

    IMPORTANT: Turn off water supply whenever there will be an extended period of non-use.

If additional hose lengths are needed or using hoses other than those supplied by manufacturer, flexible hoses with screen filters are required.



1. Cold Water Valve Inlet
2. Hot Water Valve Inlet
3. Rubber Washer (plain)
4. Red Fill Hose (hot)
5. Hose Coupling
6. Hot Water Supply Faucet
7. Cold Water Supply Faucet
8. Filter Screen (screen must be facing outward, toward water supply)
9. Blue Fill Hose (cold)

Figure 29

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Connect Inlet Hoses with Y-Connectors (60-100 Models)

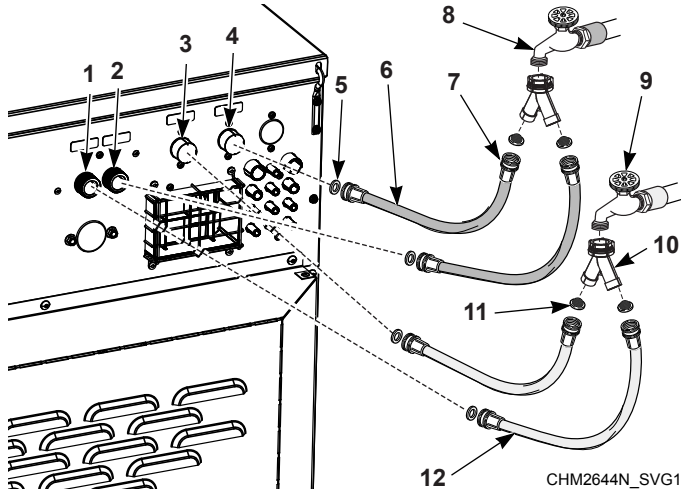
To connect water service (for laundries with two [2] supply faucets) to a machine with hoses, use the following procedure:

1. Before installing hoses, flush the building's water system at the machine connection valves for at least two (2) minutes.
2. Remove the four (4) plain rubber washers and four (4) filter screens from the accessories bag supplied with the machine.
3. Install one (1) plain rubber washer onto one end and one (1) filter screen into the other end of each fill hose. The screens must be facing outward toward the water supply. Refer to *Figure 30* .
4. Screw one (1) of the Y-connectors (supplied with the machine) into the cold water supply faucet and one (1) into the hot water supply faucet.
5. Screw hose couplings with the filter screens onto the water supply faucets until they are finger-tight. Use the two (2) red color-coded hose for the hot water connection and the two (2) blue color-coded hose for the cold water connection.
6. Using pliers, screw approximately 1/4 turn.
7. Screw the coupling with the plain rubber washer of one (1) of the red color-coded hoses (attached to the hot water connection) onto the main fill valve inlet (marked with a red label). Screw the coupling with the plain rubber washer of the other red color-coded hose onto the tub fill valve inlet (marked with a red label). Tighten to finger-tight. Refer to *Figure 30* .
8. Screw the coupling with the plain rubber washer of one (1) of the blue color-coded hoses (attached to the cold water connection) onto the main fill valve inlet (marked with a blue label). Screw the coupling with the plain rubber washer of the other blue color-coded hose onto the tub fill valve inlet (marked with a blue label). Tighten to finger-tight. Refer to *Figure 30* .
9. Using pliers, screw approximately 1/4 turn.

   IMPORTANT: DO NOT cross thread or overtighten couplings. This will cause them to leak.
10. Hang hoses in a large loop; do not allow them to kink.
11. Turn on water supply and check for leaks.
12. If leaks are found, turn off the water, unscrew hoses and reinstall them until there are no leaks.

    IMPORTANT: Turn off water supply whenever there will be an extended period of non-use.

If additional hose lengths are needed or using hoses other than those supplied by manufacturer, flexible hoses with screen filters are required.



1. Cold Tub Fill Valve Inlet
2. Hot Tub Fill Valve Inlet
3. Cold Water Main Fill
4. Hot Water Main Fill
5. Rubber Washer (plain)
6. Red Fill Hose (hot)
7. Hose Coupling
8. Hot Water Supply Faucet
9. Cold Water Supply Faucet
10. Y-connection
11. Filter Screen (screen must be facing outward, toward water supply)
12. Blue Fill Hose (cold)

Figure 30

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Plumbing Diagrams

20-60 Models - Side View (refer to *Table 28*)

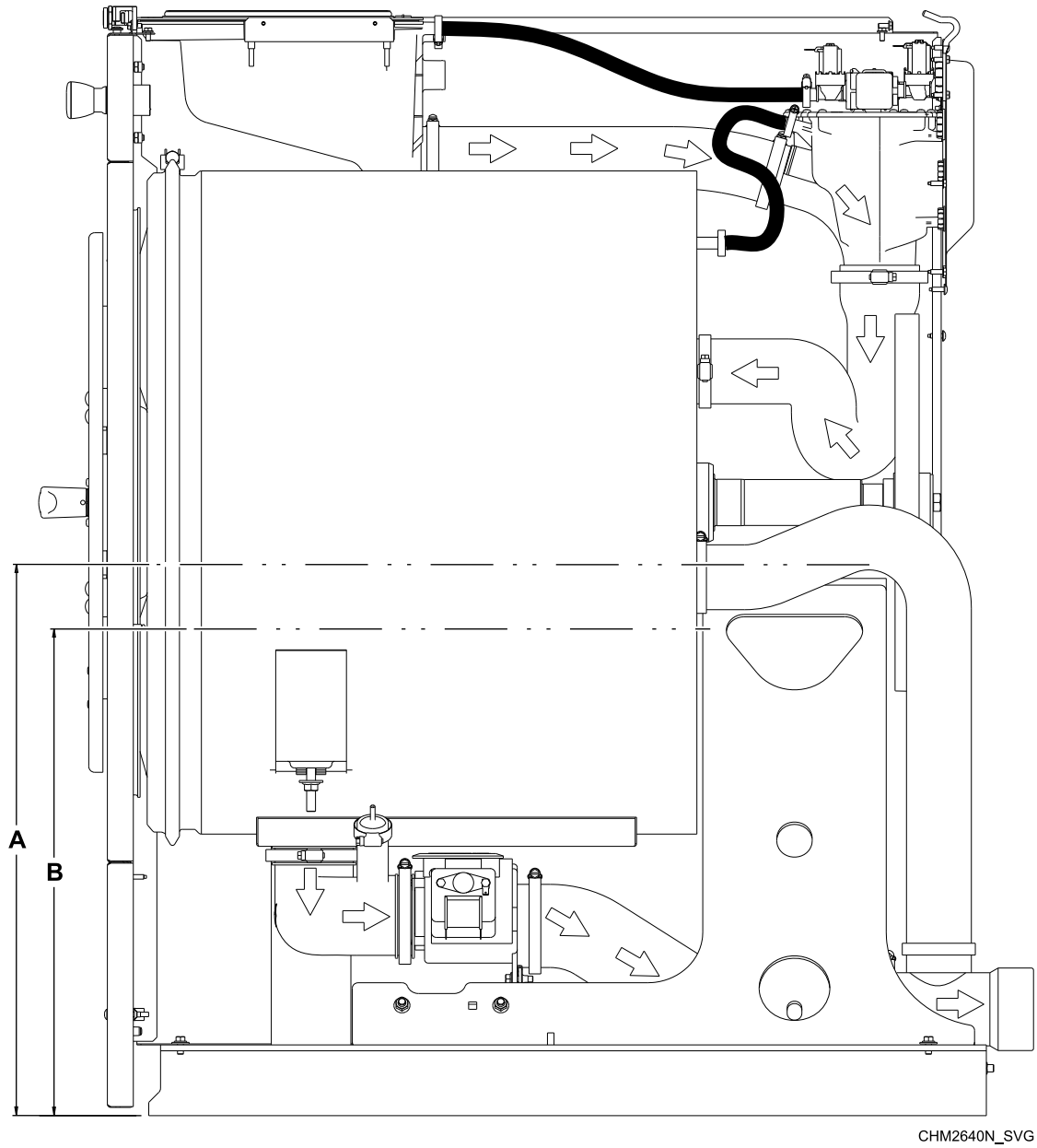

Figure 31

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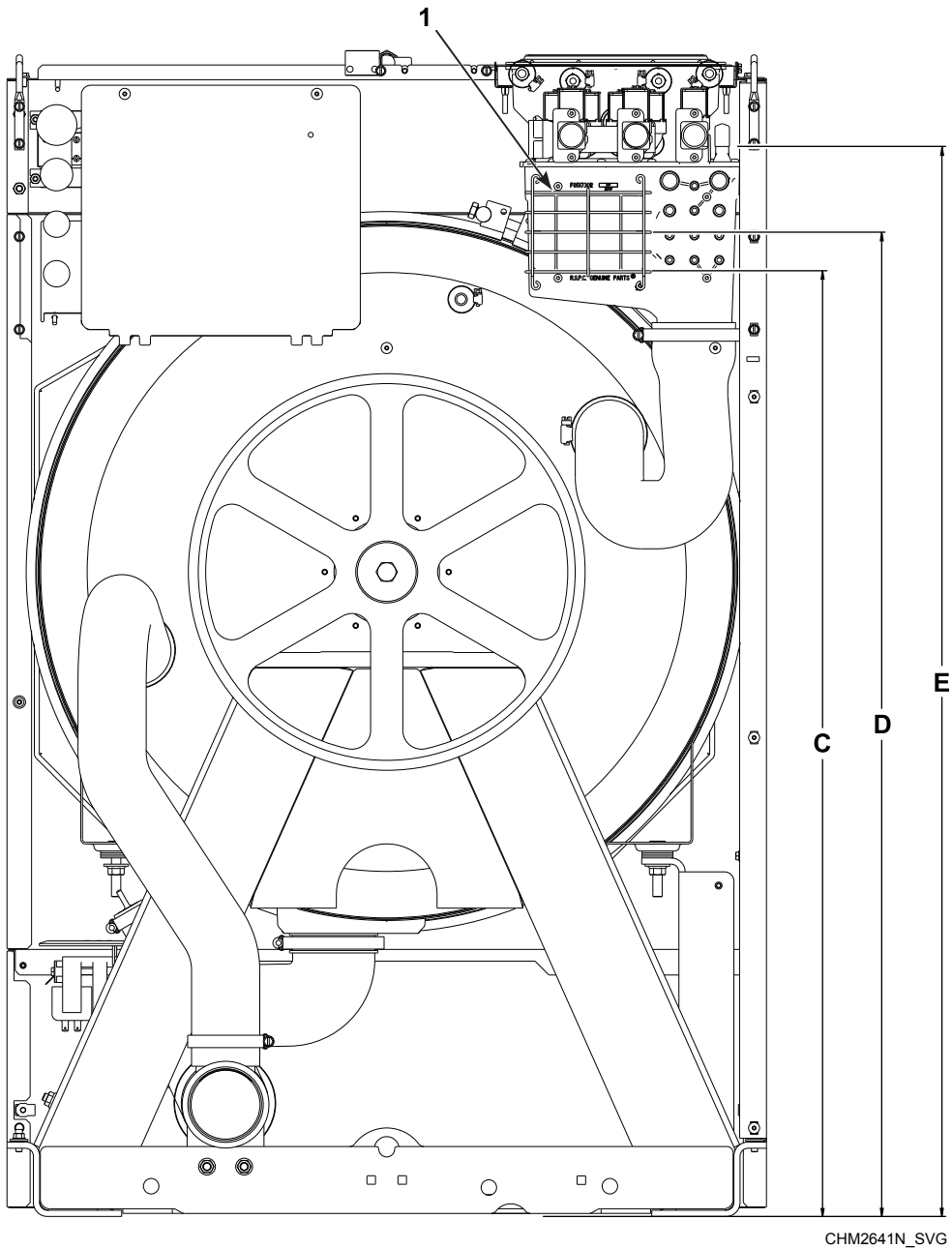
20-60 Models - Rear View (refer to *Table 28*)



1. Vacuum Breaker Overflow

Figure 32

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Plumbing Diagram - 20-60 Models, in. [mm]				
Description		**20**	**30**	**40**
A	Maximum overflow height	20.5 [521]	21.4 [544]	23.1 [587]
B	Maximum operating water level	18.5 [470]	17.0 [432]	19.9 [505]
C	Vaccum breaker overflow	33.9 [861]	35.8 [909]	38.0 [965]
D	Vaccum breaker overflow centerline	35.5 [902]	37.5 [953]	39.7 [1008]
E	Inlet Valves	38.9 [988]	41.4 [1052]	43.2 [1097]

Table 28

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60-100 Models - Side View (refer to *Table 29*)

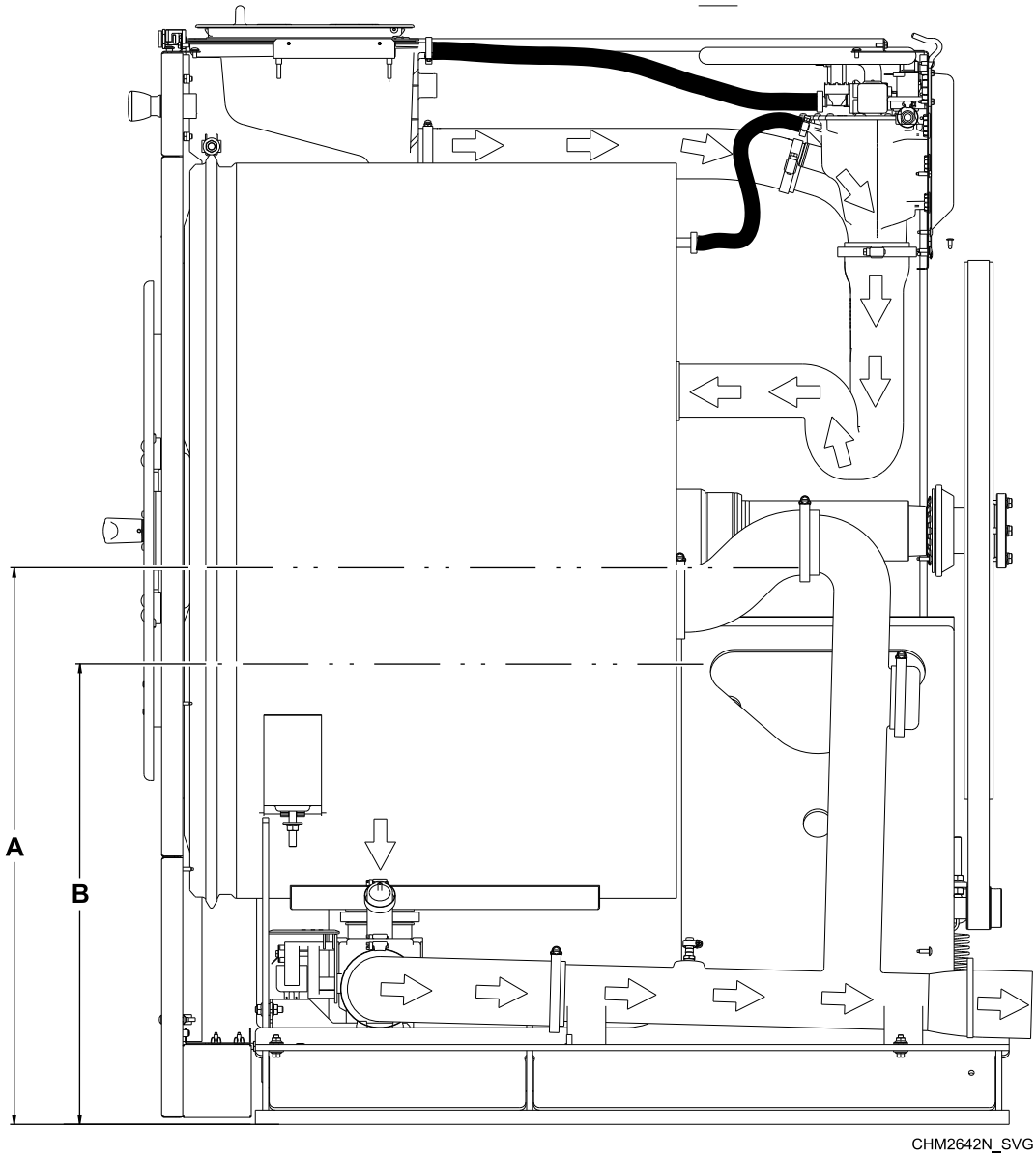

Figure 33

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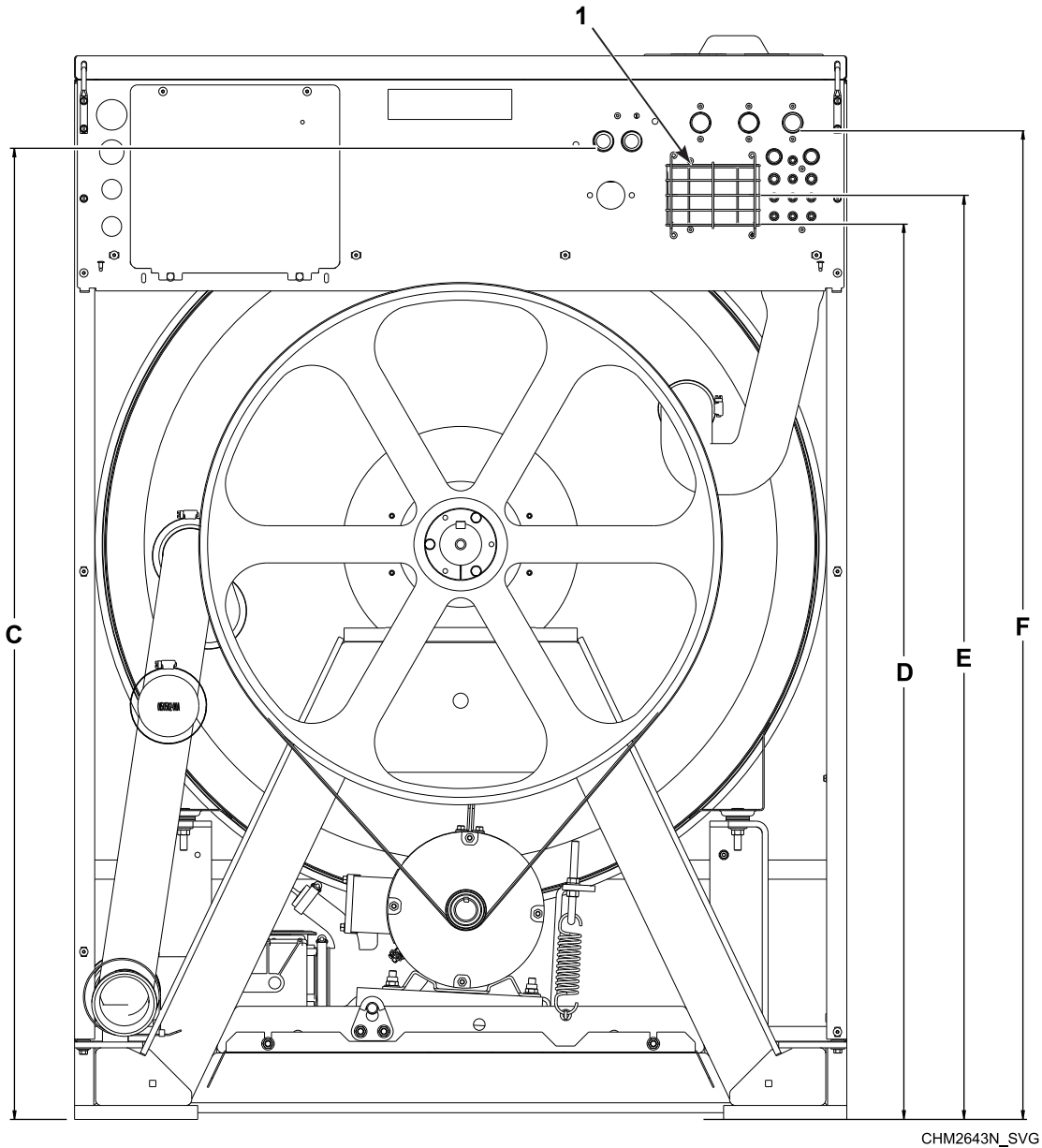
60-100 Models - Rear View (refer to *Table 29*)



1. Vacuum Breaker Overflow

Figure 34

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Plumbing Diagram - 60-100 Models, in. [mm]				
Description		60	80	100
A	Maximum overflow height	23.1 [587]	28.8 [732]	28.8 [732]
B	Maximum operating water level	20.6 [523]	24.9 [632]	24.9 [632]
C	Aux Inlet valves	45.8 [1163]	52.2 [1326]	52.2 [1326]
D	Vaccum breaker overflow	40.7 [1034]	48.0 [1219]	48.0 [1219]
E	Vaccum breaker overflow centerline	42.4 [1077]	49.7 [1262]	49.7 [1262]
F	Inlet Valves	45.9 [1166]	53.1 [1349]	53.1 [1349]

Table 29

Electrical Installation Requirements

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

DANGER

Electrical shock hazard will result in death or serious injury. Disconnect electric power and wait five (5) minutes before servicing.

W810

WARNING

Dangerous voltages are present inside the machine. Only qualified personnel should attempt adjustments and troubleshooting. Disconnect power from the machine before removing any cover and guards, and before attempting any service procedures.

W736

WARNING

Hazardous Voltage. Can cause shock, burn or death. Verify that a ground wire from a proven earth ground is connected to the lug near the input power block on this machine.

W360

WARNING

This Machine produces excessive leakage current. Do not use a grounding conductor smaller than 10mm^2.

W946

NOTE: For voltages above or below listed specification, a qualified electrical contractor must be consulted to install the appropriate transformer to meet the OEM electrical specifications. Refer to *Electrical Specifications (North American Approval)* and *Electrical Specifications (CE Approval)*.

Electrical connections are made at the rear of the machine. The machine must be connected to the proper electrical supply shown on the serial plate on 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.

Machines are equipped with an AC inverter drives requiring a clean power supply, free from voltage spikes and surges. Use voltage monitor to check incoming power.

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Input Power Conditioning

The drive is suitable for direct connection to input power within the rated voltage of the drive. Listed in *Input Power Condition* are certain input power conditions which may cause component damage or reduction in product life. If any of the conditions exist, install one of the devices listed under the Possible Corrective Action(s).

IMPORTANT: Only one device per branch circuit is required. It should be mounted closest to the branch and sized to handle the total current of the branch circuit.

Input Power Condition	Possible Corrective Action(s)
Low Line impedance (less than 1% line reactance)	• Install Line Reactor • Isolation Transformer
Greater than 120 kVA supply transformer	
Line has power factor correction capacitors	• Install Line Reactor • Isolation Transformer
Line has frequent power interruptions	
Line has intermittent noise spikes in excess of 3000V (lightning)	
Phase to ground voltage exceeds 125% of normal line to line voltage	• Remove MOV jumper to ground • Install Isolation Transformer with grounded secondary (if necessary)
Ungrounded distribution system	
240V open delta configuration (stinger leg)*	• Install Line Reactor
* For drives applied on an open delta with a middle phase grounded neutral system, the phase opposite the phase that is tapped in the middle to the neutral or earth is referred to as the “stinger leg,” “high leg,” “red leg,” etc. This leg should be identified throughout the system with red or orange tape on the wire at each connection point. The stinger leg should be connected to the center Phase B on the reactor.	

Table 30

Input Voltage Requirements

For voltages above or below listed specifications, contact your power company or local electrician.

IMPORTANT: Improper connections will result in equipment damage and will void warranty.

DANGER

Electrical shock hazard will result in death or serious injury. Disconnect electric power and wait five (5) minutes before servicing.

W810

Circuit Breakers and Quick Disconnects

Single-phase machines require a single-phase inverse-time circuit breaker. Three-phase machines require a separate, three-phase inverse-time circuit breaker to prevent damage to the motor by disconnecting all legs if one should be lost accidentally. Refer to *North American Approval* and *CE Approval* sections for model-specific circuit breaker requirements.

IMPORTANT: All quick disconnects should comply with the specifications. DO NOT use fuses instead of circuit breakers.

Connection Specifications

IMPORTANT: Connection must be made by a qualified electrician using wiring diagram provided with machine, or according to accepted European Union standards.

Connect machine to an individual branch circuit not shared with lighting or other equipment. Shield connection in a liquid-tight or approved flexible conduit. Copper conductors of correct size must be installed in accordance with National Electric Code (NEC) or other applicable codes.

Use wire sizes indicated in the Electrical Specifications chart for runs up to 50 feet [15 m]. Use next larger size for runs of 50 to 100 feet [15 to 30 m]. Use two (2) sizes larger for runs greater than 100 feet [30 m].

IMPORTANT: For X voltage - To obtain 200-240V from a 200-240V source, connect L1 and L2. To obtain 220-240V from a 380-415V source, connect L1 and N. Refer to *Figure 35* .

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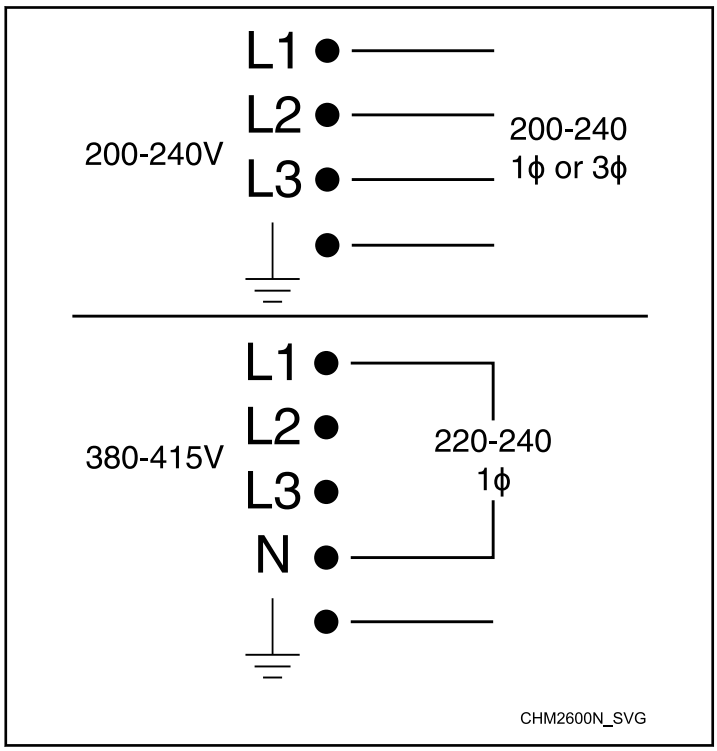


Figure 35

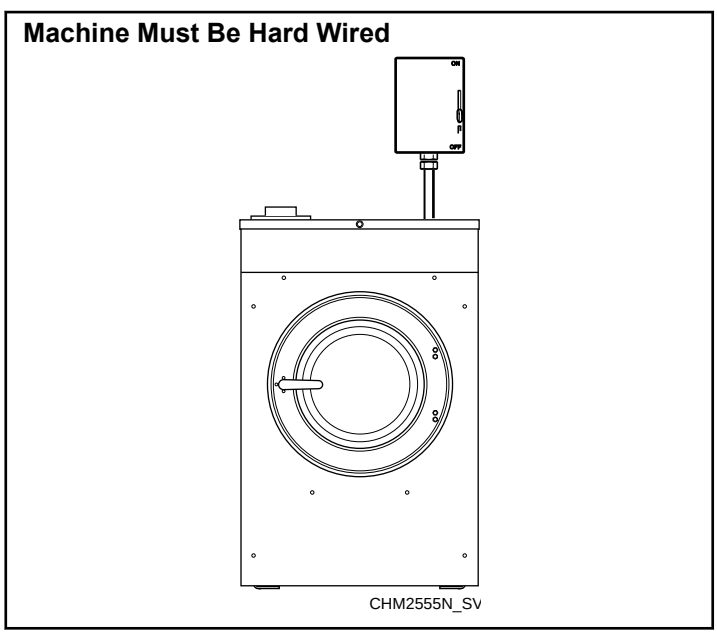
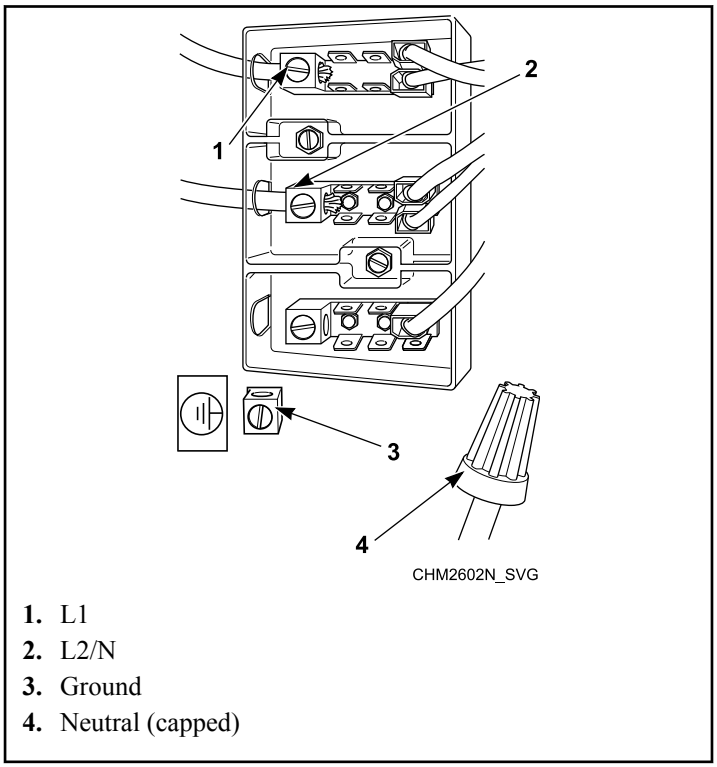


Figure 36

NOTE: Electrical receptacle must be located so that it is easily accessible with machine in place. An intermediate shut-off box with a 3 mm gap is required to meet EN 60335-1, clauses 24.3 and 22.2 or 3.5 mm gap is required to meet Standard IEC 60335-1, clauses 24.3 and 22.2. Gap is defined as the minimum contact separation of each pole in the switch between the "ON" and "OFF" positions.

Single-Phase Connections

For single-phase input, connect L1, L2 and Ground and cap neutral as shown in *Figure 37* .



1. L1
2. L2/N
3. Ground
4. Neutral (capped)

Figure 37

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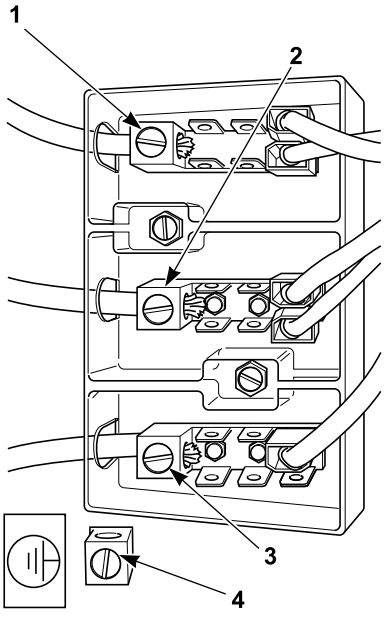
Three-Phase Connections

For three-phase input, connect L1, L2, L3 and Ground as shown in *Figure 38* .



1. L1
2. L2
3. L3
4. Ground

Figure 38

IMPORTANT: If a stinger leg is used for three-phase input, it MUST be connected to L3.

Grounding

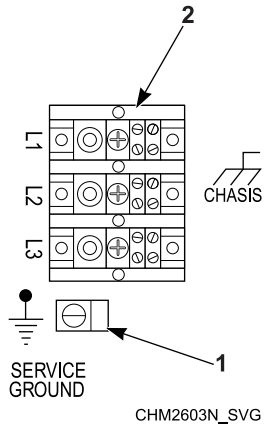
For personal safety and proper operation, the machine must be grounded in accordance with state and local codes. If such codes are not available, grounding must conform to the National Electric Code, article 250 (current edition). The ground connection must be made to a proven earth ground, not to conduit or water pipes.

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

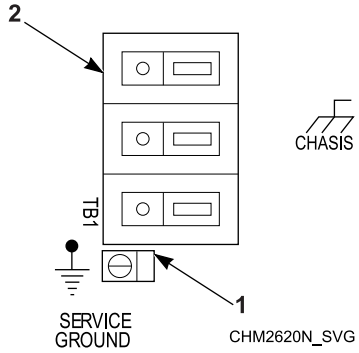
Machines with Electric Heat



1. Grounding Lug: Connect to proven earth ground
2. Customer Input Power Terminals

Figure 39

Machines without Electric Heat



1. Grounding Lug: Connect to proven earth ground
2. Customer Input Power Terminals

Figure 40

Phase Adder

IMPORTANT: Do not use a phase adder on any machine.

Thermal Overload Protector

The inverter drive provides overload protection for the drive motor.

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North American Approval

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.

20 Models - North American Approval									
Voltage Designation						Specifications			
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
F-Speed Models									
B		120	60	1	2	8	15	14	2.5
W		200-240	50	1/3	2/3	4/3	15	14	2.5
Y		200-240	60	1/3	2/3	4/3	15	14	2.5
X		200-240	50- 60	1/3	2/3	4/3	15	14	2.5
Q	Electric Heat	200-240	50- 60	3	3	22	30	10	6.0
P	Standard	380-415	50- 60	3	3	2	15	14	2.5
	Electric Heat					12	15	14	2.5
N	Standard	440-480	50- 60	3	3	2	15	14	2.5
	Electric Heat					14	15	14	2.5
V-Speed Models									
B		120	60	1	2	9	15	14	2.5
W		200-240	50	1/3	2/3	4/3	15	14	2.5
Y		200-240	60	1/3	2/3	4/3	15	14	2.5
X		200-240	50- 60	1/3	2/3	4/3	15	14	2.5
Q	Electric Heat	200-240	50- 60	3	3	22	30	10	6.0
P	Standard	380-415	50- 60	3	3	2	15	14	2.5
	Electric Heat					12	15	14	2.5

Table 31 *continues...*

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20 Models - North American Approval									
Voltage Designation						Specifications			
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
N	Standard	440-480	50- 60	3	3	2	15	14	2.5
	Electric Heat					14	15	14	2.5

Table 31

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30 Models - North American Approval									
Voltage Designation						Specifications			
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
F-Speed Models									
B		120	60	1	2	10	15	14	2.5
W		200-240	50	1/3	2/3	5/4	15	14	2.5
Y		200-240	60	1/3	2/3	5/4	15	14	2.5
X		200-240	50- 60	1/3	2/3	5/4	15	14	2.5
Q	Electric Heat	200-240	50- 60	3	3	22	30	10	6.0
P	Standard	380-415	50- 60	3	3	3	15	14	2.5
	Electric Heat					12	15	14	2.5
N		440-480	50- 60	3	3	3	15	14	2.5
						14	15	14	2.5
V-Speed Models									
B		120	60	1	2	12	15	12	4
W		200-240	50	1/3	2/3	7/4	15	14	2.5
Y		200-240	60	1/3	2/3	7/4	15	14	2.5
X		200-240	50- 60	1/3	2/3	7/4	15	14	2.5
Q	Electric Heat	200-240	50- 60	3	3	22	30	10	6.0
P	Standard	380-415	50- 60	3	3	3	15	14	2.5
	Electric Heat					12	15	14	2.5
N	Standard	440-480	50- 60	3	3	3	15	14	2.5
	Electric Heat					14	15	14	2.5

Table 32

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40 Models - North American Approval									
Voltage Designation						Specifications			
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
F-Speed Models									
B		120	60	1	2	10	15	14	2.5
W		200-240	50	1/3	2/3	6/4	15	14	2.5
Y		200-240	60	1/3	2/3	6/4	15	14	2.5
X		200-240	50- 60	1/3	2/3	6/4	15	14	2.5
Q	Electric Heat	200-240	50- 60	3	3	41	50	8	10.0
P	Standard	380-415	50- 60	3	3	3	15	14	2.5
	Electric Heat					24	30	10	6.0
N	Standard	440-480	50- 60	3	3	3	15	14	2.5
	Electric Heat					22	30	10	6.0
V-Speed Models									
B		120	60	1	2	12	15	12	2.5
W		200-240	50	1	2/3	7/4	15	14	2.5
Y		200-240	60	1/3	2/3	7/4	15	14	2.5
X		200-240	50- 60	1/3	2/3	7/4	15	14	2.5
Q	Electric Heat	200-240	50- 60	3	3	41	50	8	10.0
P	Standard	380-415	50- 60	3	3	3	15	14	2.5
	Electric Heat					24	30	10	6.0
N	Standard	440-480	50- 60	3	3	3	15	14	2.5
	Electric Heat					22	30	10	6.0

Table 33

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60 Models - North American Approval									
Voltage Designation						Specifications			
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
F-Speed Models									
X		200-240	50- 60	1/3	2/3	8/5	15	14	2.5
Q	Electric Heat	200-240	50- 60	3	3	41	50	8	10.0
P	Standard	380-415	50- 60	3	3	4	15	14	2.5
	Electric Heat					26	30	10	6.0
N	Standard	440-480	50- 60	3	3	4	15	14	2.5
	Electric Heat					22	30	10	6.0
V-Speed Models									
X		200-240	50- 60	1/3	2/3	11/7	15	14	2.5
Q	Electric Heat	200-240	50- 60	3	3	41	50	8	10.0
P	Standard	380-415	50- 60	3	3	4	15	14	2.5
	Electric Heat					26	30	10	6.0
N	Standard	440-480	50- 60	3	3	4	15	14	2.5
	Electric Heat					22	30	10	6.0

Table 34

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80 Models - North American Approval									
Voltage Designation						Specifications			
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
F-Speed Models									
X		200-240	50- 60	1/3	2/3	12/8	15	14	2.5
Q	Electric Heat	200-240	50- 60	3	3	73	80	4	25.0
P	Standard	380-415	50- 60	3	3	5	15	14	2.5
	Electric Heat					33	40	8	10.0
N	Standard	440-480	50- 60	3	3	5	15	14	2.5
	Electric Heat					36	40	8	10.0
V-Speed Models									
X		200-240	50- 60	1/3	2/3	15/9	20/15	12/14	4/2.5
Q	Electric Heat	200-240	50- 60	3	3	73	80	4	25.0
P	Standard	380-415	50- 60	3	3	6	15	14	2.5
	Electric Heat					33	40	8	10.0
N	Standard	440-480	50- 60	3	3	6	15	14	2.5
	Electric Heat					36	40	8	10.0

Table 35

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100 Models - North American Approval									
Voltage Designation						Specifications			
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm^2
F-Speed Models									
X		200-240	50- 60	1/3	2/3	12/8	15	14	2.5
Q	Electric Heat	200-240	50- 60	3	3	74	80	4	25.0
P	Standard	380-415	50- 60	3	3	5	15	14	2.5
	Electric Heat					32	40	8	10.0
N	Standard	440-480	50- 60	3	3	5	15	14	2.5
	Electric Heat					36	40	8	10.0
V-Speed Models									
X		200-240	50- 60	1/3	2/3	16/10	20/15	12/14	4/2.5
Q	Electric Heat	200-240	50- 60	3	3	74	80	4	25.0
P	Standard	380-415	50- 60	3	3	6	15	14	2.5
	Electric Heat					32	40	8	10.0
N	Standard	440-480	50- 60	3	3	6	15	14	2.5
	Electric Heat					36	40	8	10.0

Table 36

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CE Approval

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.

NOTE: N and P Voltage - Where the protective conductor has a cross-sectional area of less than 10 mm2 Cu, a second protective conductor of at least the same cross-sectional area shall be provided up to a point where the protective conductor has a cross-sectional area not less than 10 mm2 Cu.

20 Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
F-Speed Models								
B		120	60	1	2	8	10	2.5
W		200-240	50	1/3	2/3	4/3	6	2.5
Y		200-240	60	1/3	2/3	4/3	6	2.5
X		200-240	50-60	1/3	2/3	4/3	6	2.5
Q	Electric Heat	200-240	50-60	3	3	17- 20	25	2.5
P	Standard	380-415	50-60	3	3	2	6	2.5
	Electric Heat					11	16	2.5
N		440-480	50-60	3	3	2	6	2.5
V-Speed Models								
B		120	60	1	2	9	10	2.5
W		200-240	50	1/3	2/3	4	6	2.5
Y		200-240	60	1/3	2/3	4	6	2.5
X		200-240	50-60	1/3	2/3	4/3	6	2.5
Q	Electric Heat	200-240	50-60	3	3	17- 20	25	2.5
P	Standard	380-415	50-60	3	3	2	6	2.5
	Electric Heat					11	16	2.5
N		440-480	50-60	3	3	2	6	2.5

Table 37

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30 Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
F-Speed Models								
B		120	60	1	2	10	10	2.5
W		200-240	50	1/3	2/3	5/4	6	2.5
Y		200-240	60	1/3	2/3	5/4	6	2.5
X		200-240	50-60	1/3	2/3	5/4	6	2.5
Q	Electric Heat	200-240	50-60	3	3	17- 20	25	2.5
P	Standard	380-415	50-60	3	3	3	6	2.5
	Electric Heat					11	16	2.5
N		440-480	50-60	3	3	3	6	2.5
V-Speed Models								
B		120	60	1	2	12	16	2.5
W		200-240	50	1/3	2/3	7/4	10/6	2.5
Y		200-240	60	1/3	2/3	7/4	10/6	2.5
X		200-240	50-60	1/3	2/3	7/4	10/6	2.5
Q	Electric Heat	220-240	50-60	3	3	17- 20	25	2.5
P	Standard	380-415	50-60	3	3	3	6	2.5
	Electric Heat					11	16	2.5
N		440-480	50-60	3	3	3	6	2.5

Table 38

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40 Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
F-Speed Models								
B		120	60	1	2	10	10	2.5
W		200-240	50	1/3	2/3	6/4	6	2.5
Y		200-240	60	1/3	2/3	6/4	6	2.5
X		200-240	50-60	1/3	2/3	7/4	10/6	2.5
Q	Electric Heat	220-240	50-60	3	3	33- 39	50	10.0
P	Standard	380-415	50-60	3	3	3	6	2.5
	Electric Heat					23	25	2.5
N	Standard	440-480	50-60	3	3	3	6	2.5
	Electric Heat					20	25	2.5
V-Speed Models								
B		120	60	1	2	12	16	2.5
W		200-240	50	1/3	2/3	7/4	10/6	2.5
Y		200-240	60	1/3	2/3	7/4	10/6	2.5
X		200-240	50-60	1/3	2/3	7/4	10/6	2.5
Q	Electric Heat	200-240	50-60	3	3	33- 39	50	10.0
P	Standard	380-415	50-60	3	3	3	6	2.5
	Electric Heat					23	32	2.5
N	Standard	440-480	50-60	3	3	3	6	2.5
	Electric Heat					30	25	2.5

Table 39

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60 Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
F-Speed Models								
X		200-240	50-60	1/3	2/3	8/5	10/6	2.5
		220-240						
Q	Electric Heat	200-240	50-60	3	3	33- 39	50	10.0
P	Standard	380-415	50-60	3	3	4	6	2.5
	Electric Heat					23	32	2.5
N	Standard	440-480	50-60	3	3	4	6	2.5
	Electric Heat					20	25	2.5
V-Speed Models								
X		200–240	50-60	1/3	2/3	11/7	16/ 10	2.5
Q	Electric Heat	200-240	50-60	3	3	33- 39	50	10.0
P	Standard	380-415	50-60	3	3	4	6	2.5
	Electric Heat					23	32	2.5
N	Standard	440-480	50-60	3	3	4	6	2.5
	Electric Heat					20	25	2.5

Table 40

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80 Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
F-Speed Models								
X		200-240	50-60	1/3	2/3	12/8	16/ 10	2.5
Q	Electric Heat	200-240	50-60	3	3	59- 70	80	16.0
P	Standard	380-415	50-60	3	3	5	6	2.5
	Electric Heat					30	40	4.0
N	Standard	440-480	50-60	3	3	5	6	2.5
	Electric Heat					35	40	4.0
V-Speed Models								
X		200-240	50-60	1/3	2/3	17/ 11	20/ 16	2.5
Q	Electric Heat	200-240	50-60	3	3	59- 70	80	16.0
P	Standard	380-415	50-60	3	3	7	10	2.5
	Electric Heat					30	40	4.0
N	Standard	440-480	50-60	3	3	7	10	2.5
	Electric Heat					35	40	4.0

Table 41

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100 Models - CE Approval								
Voltage Designation						Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm^2
F-Speed Models								
X		200-240	50-60	1/3	2/3	12/8	10/ 16	2.5
Q	Electric Heat	220-240	50-60	3	3	59- 70	80	16.0
P	Standard	380-415	50-60	3	3	5	6	2.5
	Electric Heat					30	40	4.0
N	Standard	440-480	50-60	3	3	5	6	2.5
	Electric Heat					35	40	4.0
V-Speed Models								
X		200-240	50-60	1/3	2/3	17/ 11	20/ 16	2.5
Q	Electric Heat	220-240	50-60	3	3	59- 70	80	16.0
P	Standard	380-415	50-60	3	3	7	10	2.5
	Electric Heat					30	40	4.0
N	Standard	440-480	50-60	3	3	7	10	2.5
	Electric Heat					35	40	4.0

Table 42

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Steam Requirements (Steam Heat Option Only)

WARNING

Hot Surfaces. Will cause severe burns. Turn steam off and allow steam pipes, connections and components to cool before touching.

W505

For machines equipped with optional steam heat, install piping in accordance with approved commercial steam practices. Steam requirements are shown in *Table 1*.

Chemical Injection Supply System

WARNING

Dangerous Chemicals. May damage eyes and skin. 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.

W363

IMPORTANT: Undiluted chemical dripping can damage the machine. All chemical injection supply dispenser pumps and dispenser tubing should be mounted below the washer's injection point. Loops do not prevent drips if these instructions are not followed. *Figure 43* shows a typical Chemical Injection Supply System.

IMPORTANT: Failure to follow these instructions could damage the machine and void the warranty.

The chemical supply connector is located on the back right-hand side of the machine. There are 12 chemical ports on the connector, through each a liquid supply hose can be connected. A flush manifold system can only be connected through the top 6 ports (refer to *Figure 42*).

IMPORTANT: Water pressure must not exceed 40 psi [275 kPa].

1. Drill through the ports on the chemical supply connector as needed for the external supply hoses.

   NOTE: 3/8 inch ports must be drilled through with a 3/16 inch diameter drill bit and 1/2 inch ports must be drilled through with a 5/16 inch diameter drill bit before connecting chemical lines. Refer to *Figure 42* .

   IMPORTANT: Be careful to only drill through the first wall so as not to damage the machine.
2. Remove plastic debris.
3. Attach the external supply hoses to the ports at each of the drilled holes.
4. Secure with proper clamps.

CAUTION

Drill out plugs and nipples before making supply hose connection. Failure to do so can cause buildup of pressure and risk a tubing rupture.

W491

Supply Dispensing	
Number of liquid chemical supply signals (if equipped)	4 or 8
Number of supply compartments	4
Number of external liquid supply connections	12

Table 43

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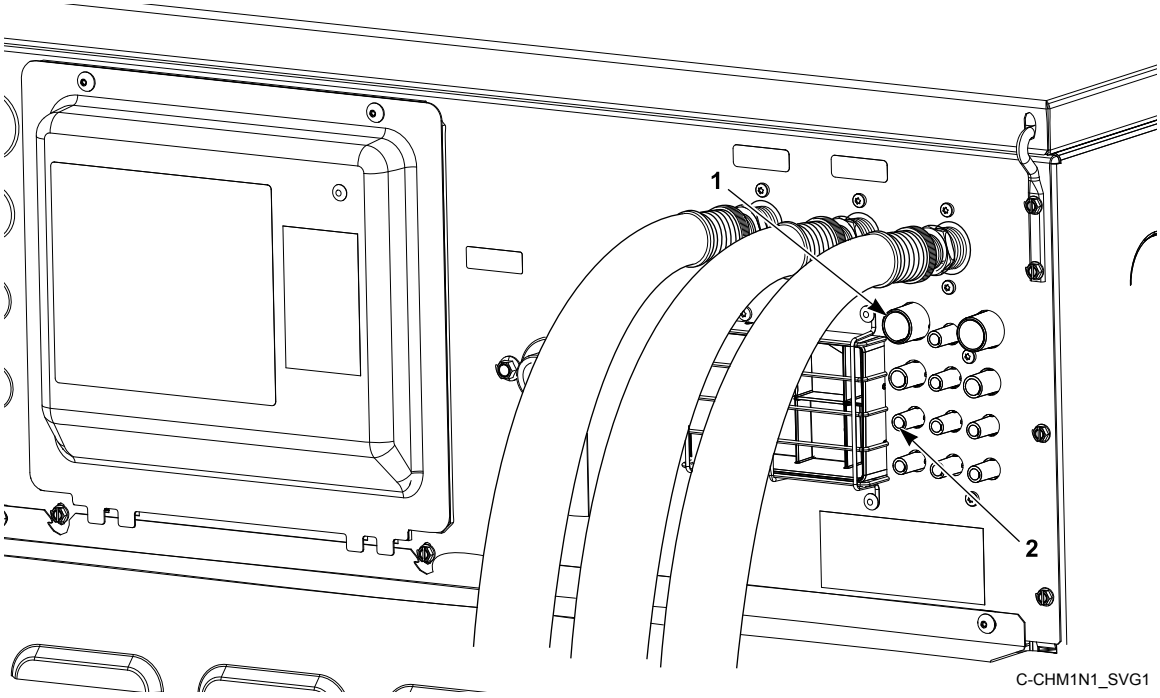
Connection for Chemical Supply Hoses (refer to *Figure 42* for detail of chemical supply connector)



1. Chemical Supply Connector
2. External Liquid Supply Connection Ports (12)

Figure 41

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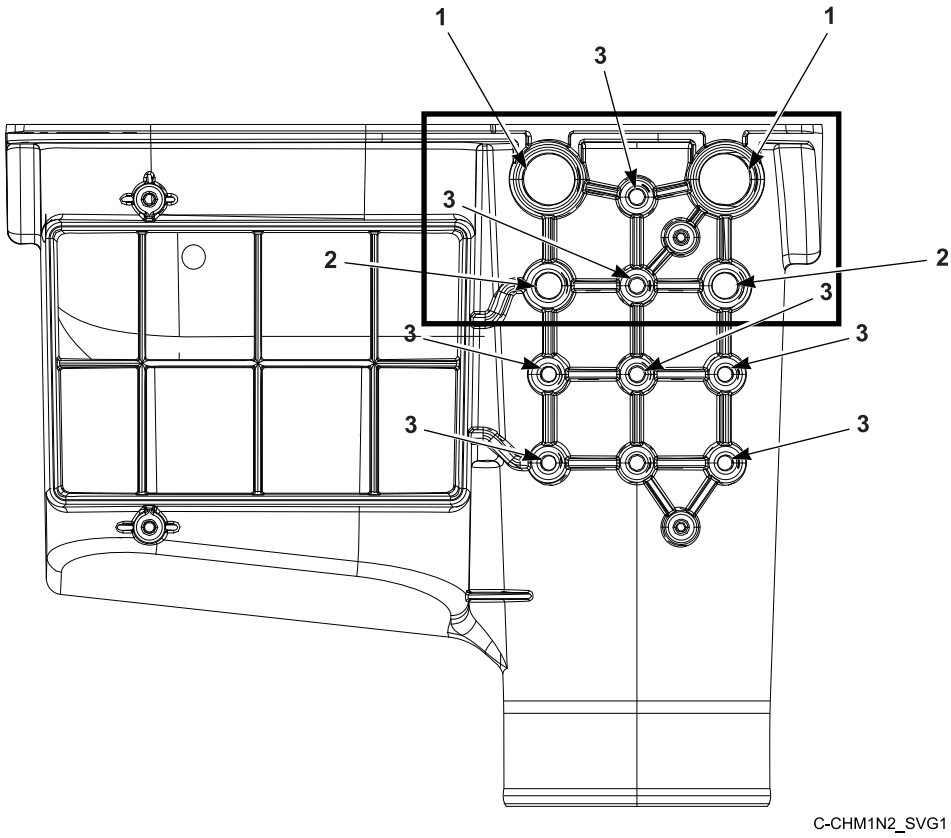
External Liquid Supply Connection Ports



NOTE: A flush manifold system can only be connected through the top 6 ports (boxed).

1. 3/4 inch port, O.D.
2. 1/2 inch port, O.D.
3. 3/8 inch port, O.D.

Figure 42

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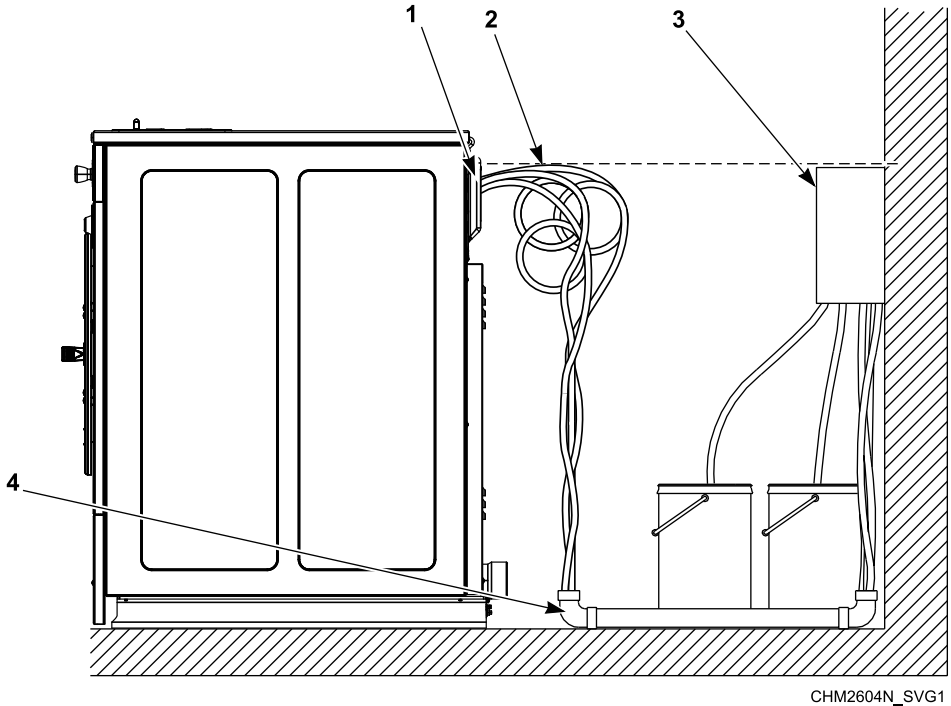
Chemical Supply Setup



* Use a check valve on the end of tubing

† Pumps must be mounted below the injection point

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

Figure 43

External Supplies

For proper communication between the machine and an external chemical supply system, it is important for the low-voltage 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 machine is to use the 300mA power of the machine's 24VAC control transformer, which is intended strictly for this purpose. Refer to *Figure 44* and *Figure 45* . 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 is H2 a single row green connector on a small output board, 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.

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

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

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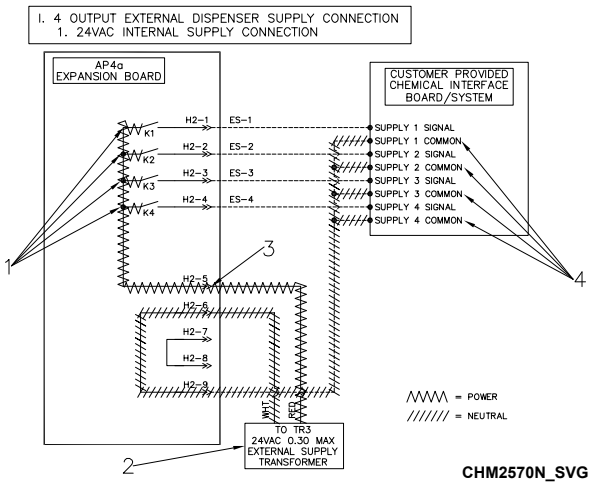
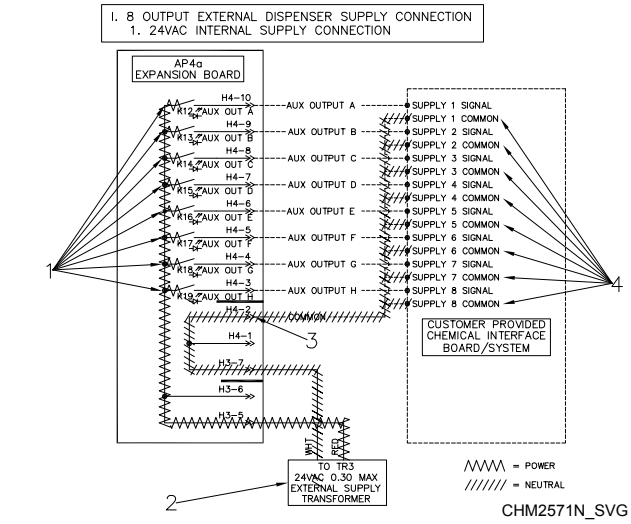


1. External Supply Power Output
2. Internal Control Transformer
3. RELAY COM Terminal
4. External Dispenser Input Signal Common

Figure 44



1. External Supply Power Output
2. Internal Control Transformer
3. RELAY COM Terminal
4. External Dispenser Input Signal Common

Figure 45

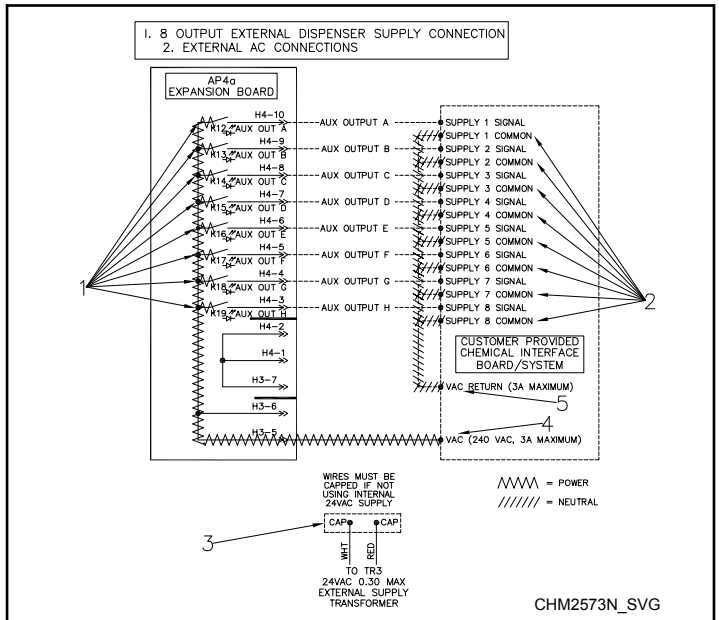
Chemical Injection Using External AC Power Source

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. Disconnect and cap off the Red and White 24VAC wires.
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 46* and *Figure 47* .



1. External Supply Power Output
2. External Dispencer Input Signal Common
3. Capped Off 24VAC Supply
4. VAC Terminal
5. VAC COM Terminal

Figure 46

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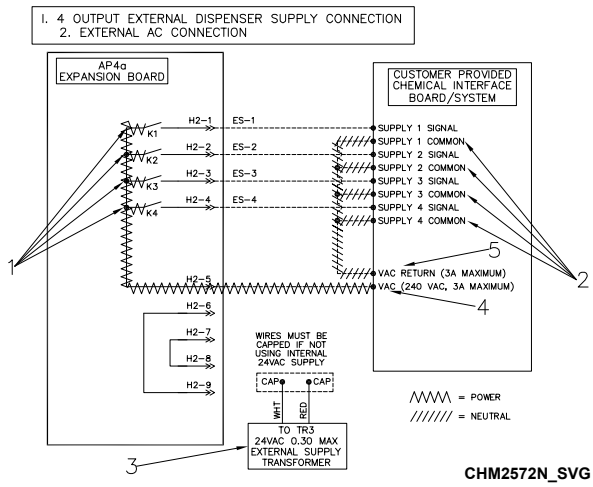
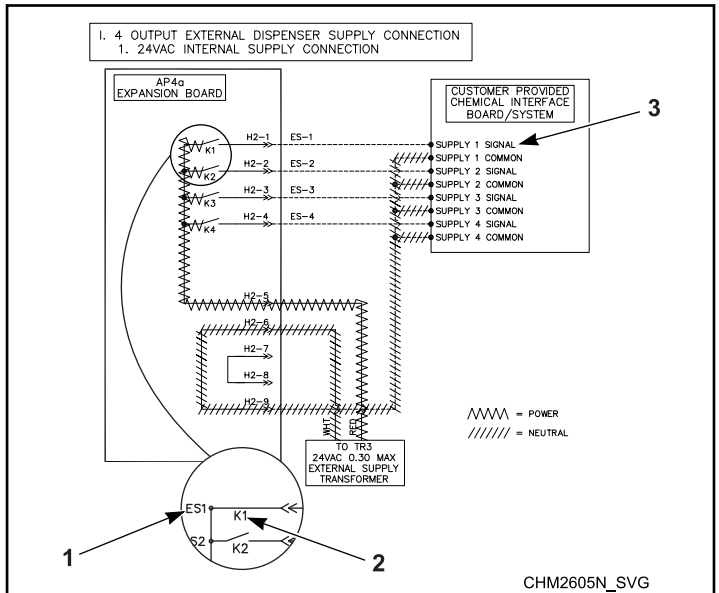


1. External Dispencer Power Output
2. External Dispencer Input Signal Common
3. Capped Off 24VAC Supply
4. VAC Terminal
5. VAC COM Terminal

Figure 47



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

Figure 48

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.

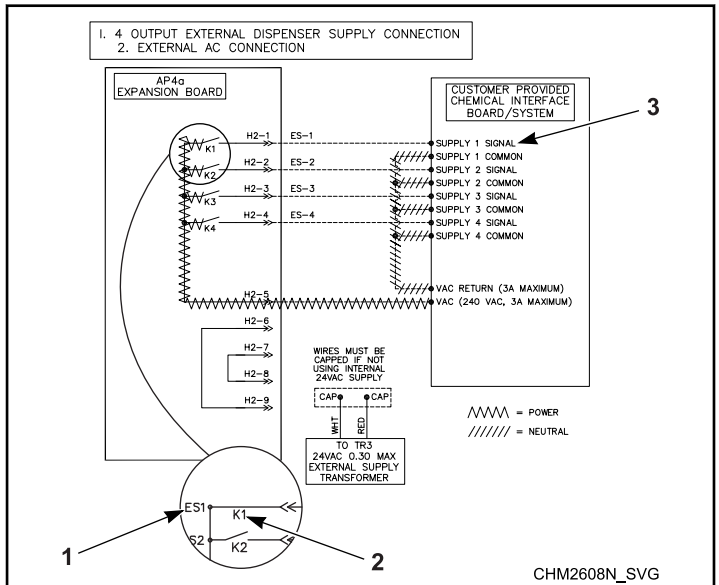
W699

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 of a 4-signal board, 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 48* for Internal Supply Connection or *Figure 50* for External AC Connection.

For example of an 8-signal board, if ES1 is selected the K12 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 49* for Internal Supply Connection or and *Figure 51* for External AC Connection.



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

Figure 49

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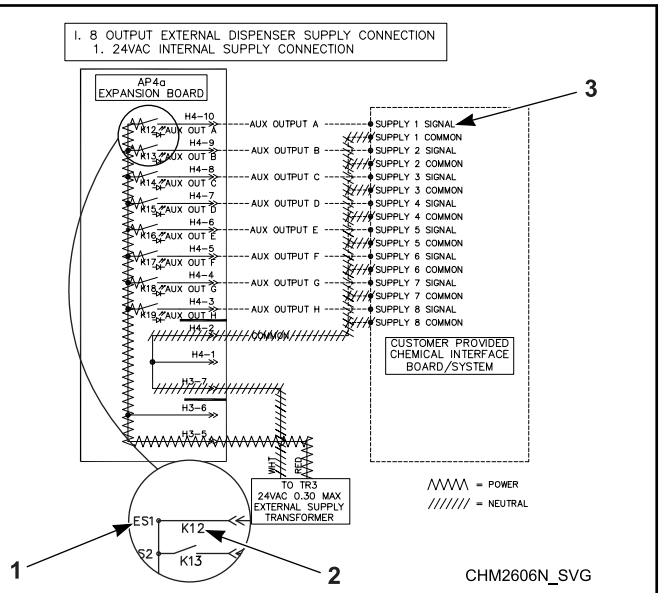
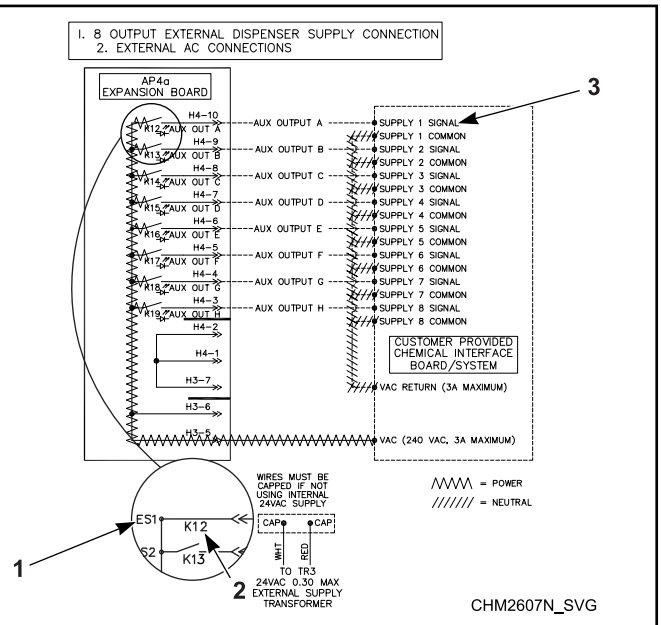


1. ES1 Power supply
2. K12 Contact
3. Supply 1 Signal

Figure 50



1. ES1 Power supply
2. K12 Contact
3. Supply 1 Signal

Figure 51

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Start Up

Basket Rotation

After installation is complete, run the machine through a test cycle and check that basket rotation is counter clockwise in the extract step.

1. If rotation is not counter clockwise, disconnect power to machine.
2. Have a qualified electrician reverse any two motor leads at the motor.

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Operation

Operating Instructions

1. Turn on main power source (circuit breaker).
2. Turn handle clockwise to open. Refer to *Figure 52* .

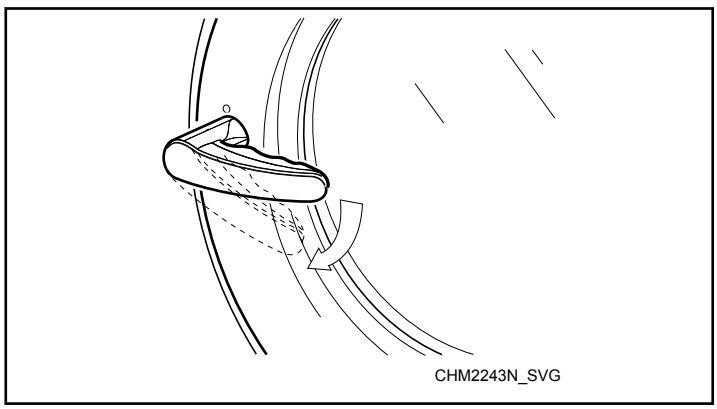

Figure 52

3. Load to capacity whenever possible. DO NOT OVERLOAD. Refer to *Figure 53* .

   NOTE: Underloading can cause out-of-balance conditions that can shorten machine life.

> **CAUTION**
>
> **Be careful around the open door, particularly when loading from a level below the door. Impact with door edges can cause personal injury.**
>
> SW025

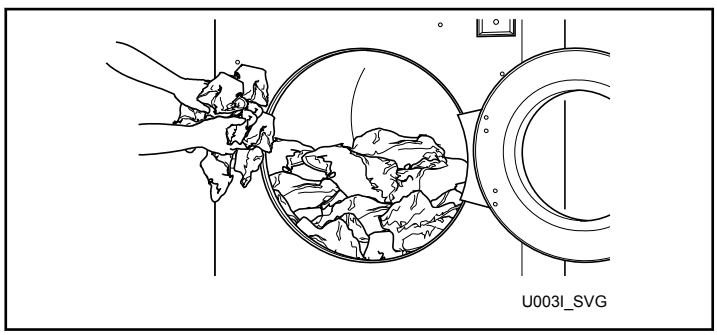

Figure 53

   NOTE: When washing items which may disintegrate or fragment, such as mop heads or sponges, use laundry nets to prevent drain blockage.

   IMPORTANT: To prevent out-of-balance conditions, premature wear or damage to machine when using laundry nets, use several small nets in a load.

4. Close the door and turn handle counter clockwise. Refer to *Figure 54* .

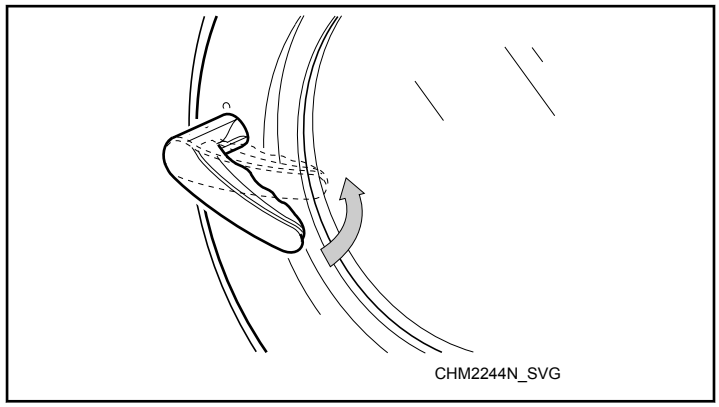

Figure 54

5. Refer to *OPL Control Instructions* to select and start a cycle.

> **CAUTION**
>
> **Water cannot be extracted from rubber backed items. To avoid damage to machine from out of balance conditions, do not use a spin (extract) step when washing rubber backed items. Warranty will be voided.**
>
> W880

> **WARNING**
>
> **To prevent personal injury, avoid contact with inlet water temperatures higher than 125° Fahrenheit [51° Celsius] and hot surfaces.**
>
> W748

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OPL Control Instructions

NOTE: The control digit is the 7th digit in the model number. Example: HCT020[Q]N0VXU400000

Models with F Control

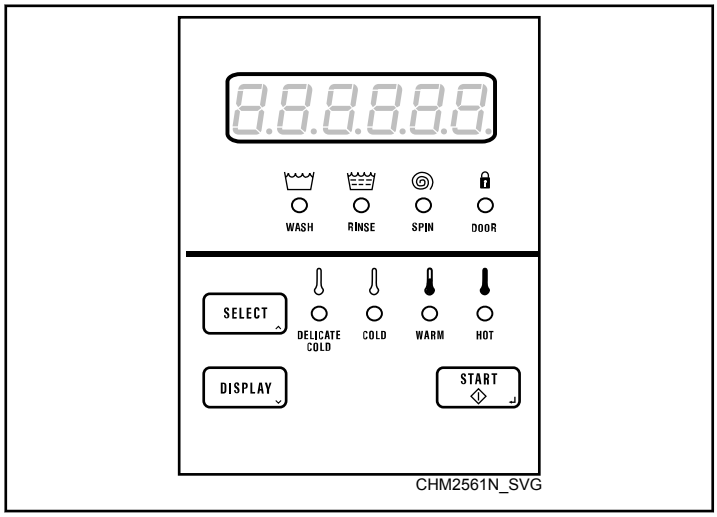

Figure 55

1. If display has gone blank due to sitting idle, press the DISPLAY keypad.
2. Press the SELECT keypad to choose Delicate Cold, Cold, Warm or Hot. The corresponding LED indicates the selection.
3. Add liquid and/or powder supplies to supply dispenser. Refer to *Table 44* .
   a. Detergent:
      - Liquid - Compartment 1 (prewash) + Compartment 3
      - Powder - Compartment 1 (prewash) + Compartment 2
   b. Bleach:
      - Liquid - Compartment 3
      - Powder - Compartment 2
   c. Softener:
      - Liquid - Compartment 4
4. Press the START (enter) keypad to select.

   NOTE: Cycles can be changed anytime during the first Fill Step. After the first Fill Step, all cycle keypad presses are ignored.
5. When a cycle is complete, the control displays 00.

SCA, SCD, SCG, SCH, SCJ, SCT, SCU, UCA, UCD, UCG, UCH, UCJ, UCT and UCU Models with N Control

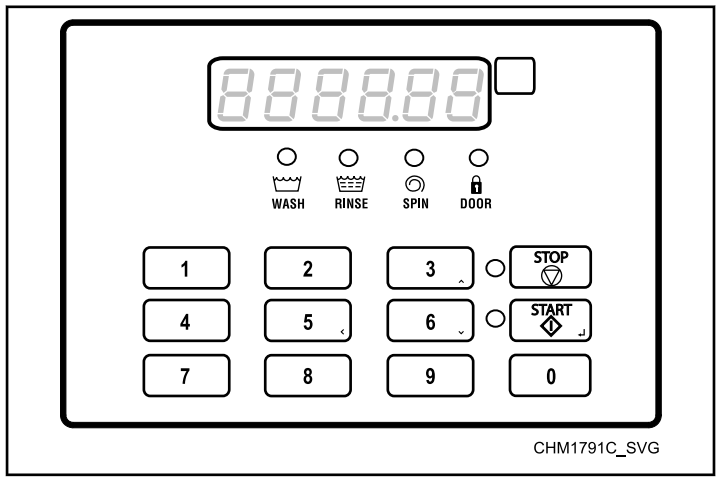

Figure 56

1. If equipped with an optional supply dispenser, add dry supplies to the compartment cups prior to the start of each cycle. Liquid supplies can be injected directly into the supply dispenser by an external chemical supply system.

   NOTE: Supply dispenser compartment cups must not be removed when an external chemical injection supply system is attached to the machine.
2. Press the 1, 2, 3, 4, 5, 6, 7, 8, 9 or 0 keypad to select the desired cycle.
3. Add liquid and/or powder supplies to supply dispenser. Refer to *Table 44* .
   a. Detergent:
      - Liquid - Compartment 1 (prewash) + Compartment 3
      - Powder - Compartment 1 (prewash) + Compartment 2
   b. Bleach:
      - Liquid - Compartment 3
      - Powder - Compartment 2
   c. Softener:
      - Liquid - Compartment 4
4. Press the START (enter) keypad to select.

   NOTE: Cycles cannot be changed anytime after the machine is started.
5. When a cycle is complete, the control displays OPEN DOOR.

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HCA, HCD, HCG, HCH, HCJ, HCT and HCU, UCA, UCD, UCG, UCH, UCJ, UCT and UCU Models with Q Control

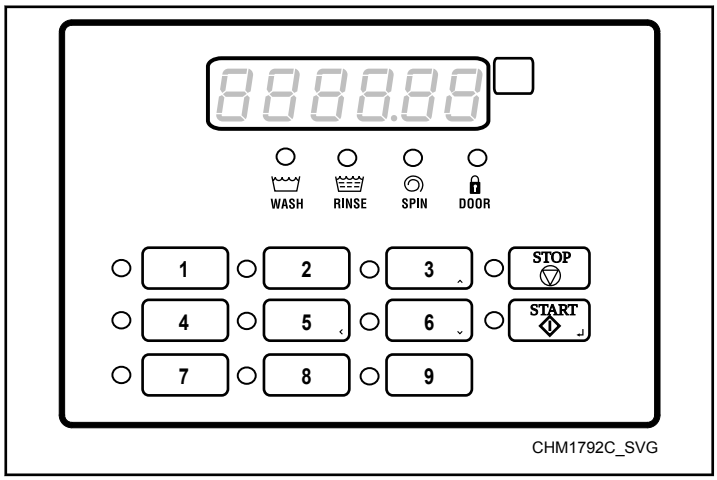

Figure 57

1. Press the 1, 2, 3, 4, 5, 6, 7, 8 or 9 keypad to select the desired cycle.
2. Add liquid and/or powder supplies to supply dispenser. Refer to *Table 44* .
   a. Detergent:
      - Liquid - Compartment 1 (prewash) + Compartment 3
      - Powder - Compartment 1 (prewash) + Compartment 2
   b. Bleach:
      - Liquid - Compartment 3
      - Powder - Compartment 2
   c. Softener:
      - Liquid - Compartment 4
3. Press the START (enter) keypad to select.

   NOTE: Cycles cannot be changed anytime after the machine is started.
4. When a cycle is complete, the control displays OPEN DOOR.

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Vend Control Instructions

NOTE: The control digit is the 7th digit in the model number. Example: HCT020[N]C1VXU400000

HCT Models with N and W Controls

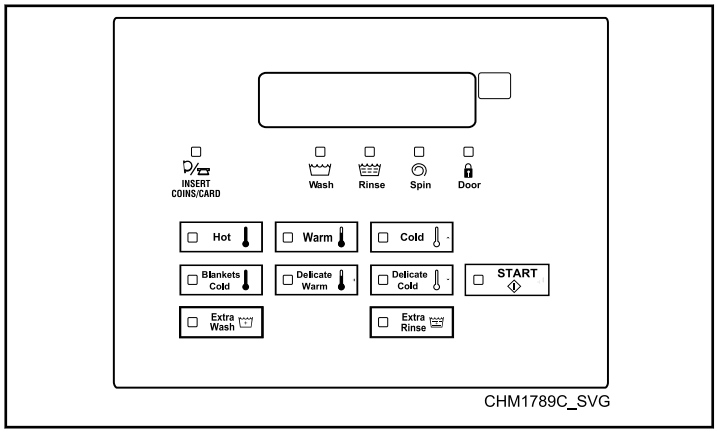

Figure 58

1. Press the Hot, Warm, Cold, Blankets Cold, Delicate Warm or Delicate Cold keypad to choose the desired cycle/temperature. The corresponding LED indicates the selection.
2. Press the Extra Wash and/or Exra Rinse keypads to add modifiers to the cycle. The corresponding LEDs indicate the added modifiers.
3. Insert coin(s) or card as necessary.
   - If the machine is a coin operated unit, add coins. As each coin is added, the vend counts down to the amount remaining.
   - If the machine is a card operated unit, insert and remove card per card system instructions.
   - If the unit is interfaced to a central/remote pay system, go to the central/remote pay console, make payment and select the machine and follow central/remote pay system instructions.
4. Add liquid and/or powder supplies to supply dispenser. Refer to *Table 44* .
   a. Detergent:
      - Liquid - Compartment 1 (prewash) + Compartment 3
      - Powder - Compartment 1 (prewash) + Compartment 2
   b. Bleach:
      - Liquid - Compartment 3
      - Powder - Compartment 2
   c. Softener:
      - Liquid - Compartment 4
5. Press the START (enter) keypad to select.

   NOTE: Cycles can be changed anytime during the first Fill Step. After the first Fill Step, all cycle keypad presses are ignored.
6. When a cycle is complete, the control displays OPEN DOOR.

SCA, SCE, SCG, SCJ and SCU Models with N and W Controls

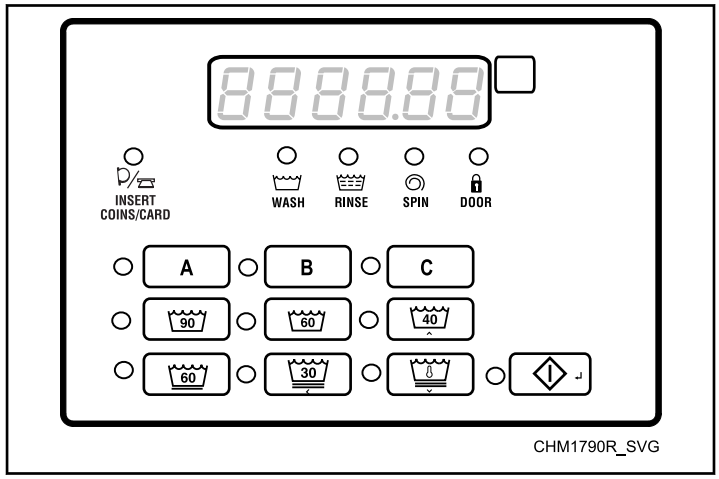

Figure 59

1. Press the Normal 90C, Normal 60C, Normal 40C, Perminant Press 60C, Delecates 30C or Delecates Cold keypad to select the desired cycle/temperature. The corresponding LED indicates the selection.
2. Press the A keypad to run the selected cycle with no modifiers. Press the B and/or C keypads to add modifiers to the selected cycle. The corresponding LEDs indicate the selected modifiers.
3. Insert coin(s) or card as necessary.
   - If the machine is a coin operated unit, add coins. As each coin is added, the vend counts down to the amount remaining.
   - If the machine is a card operated unit, insert and remove card per card system instructions.
   - If the unit is interfaced to a central/remote pay system, go to the central/remote pay console, make payment and select the machine and follow central/remote pay system instructions.
4. Add liquid and/or powder supplies to supply dispenser. Refer to *Table 44* .
   a. Detergent:
      - Liquid - Compartment 1 (prewash) + Compartment 3
      - Powder - Compartment 1 (prewash) + Compartment 2
   b. Bleach:
      - Liquid - Compartment 3
      - Powder - Compartment 2
   c. Softener:
      - Liquid - Compartment 4
5. Press the START (enter) keypad to select.

   NOTE: Cycles can be changed anytime during the first Fill Step. After the first Fill Step, all cycle keypad presses are ignored.
6. When a cycle is complete, the control displays OPEN DOOR.

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DCJ, SCH and SCT Models with N and W Controls

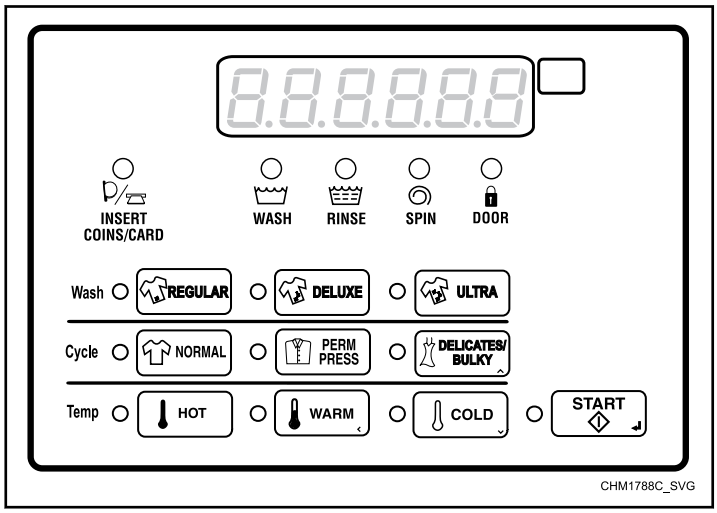

Figure 60

1. Press the Regular, Delux or Ultra keypad to choose the desired soil level. The corresponding LED indicates the selection.
2. Press the Normal, Perminant Press or Delicates/Bulky keypad to choose the desired cycle. The corresponding LED indicates the selection.
3. Press the Hot, Warm or Cold keypad to choose the desired temperature. The corresponding LED indicates the selection.
4. Insert coin(s) or card as necessary.
   - If the machine is a coin operated unit, add coins. As each coin is added, the vend counts down to the amount remaining.
   - If the machine is a card operated unit, insert and remove card per card system instructions.
   - If the unit is interfaced to a central/remote pay system, go to the central/remote pay console, make payment and select the machine and follow central/remote pay system instructions.
5. Add liquid and/or powder supplies to supply dispenser. Refer to *Table 44* .
   a. Detergent:
      - Liquid - Compartment 1 (prewash) + Compartment 3
      - Powder - Compartment 1 (prewash) + Compartment 2
   b. Bleach:
      - Liquid - Compartment 3
      - Powder - Compartment 2
   c. Softener:
      - Liquid - Compartment 4
6. Press the START (enter) keypad to select.

   NOTE: Cycles can be changed anytime during the first Fill Step. After the first Fill Step, all cycle keypad presses are ignored.
7. When a cycle is complete, the control displays OPEN DOOR.

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HCA, HCD, HCE, HCH, HCJ and HCU Models with N and W Controls

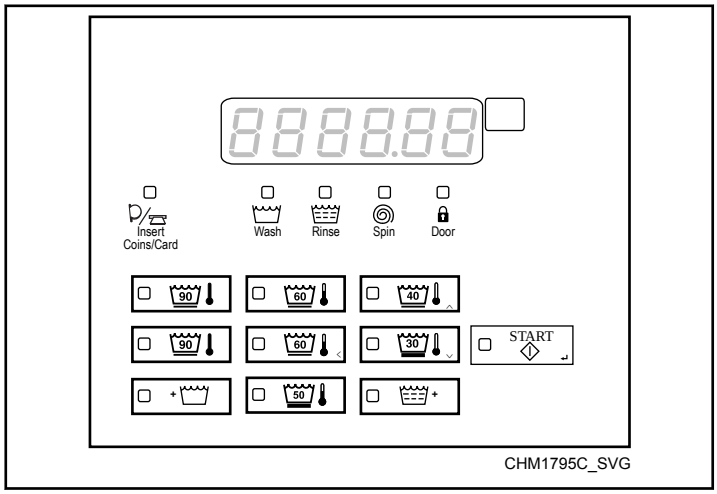

Figure 61

1. Press the Normal 90C, Normal 60C, Normal 40C, Perm Press 90C, Perm Press 60C, Gentle 30C or Perm Press 50C keypad to choose the desired cycle/temperature. The corresponding LED indicates the selection.
2. Press the Extra Wash and/or Extra Rinse keypads to add modifiers to the cycle. The corresponding LEDs indicate the added modifiers.
3. Insert coin(s) or card as necessary.
   - If the machine is a coin operated unit, add coins. As each coin is added, the vend counts down to the amount remaining.
   - If the machine is a card operated unit, insert and remove card per card system instructions.
   - If the unit is interfaced to a central/remote pay system, go to the central/remote pay console, make payment and select the machine and follow central/remote pay system instructions.
4. Add liquid and/or powder supplies to supply dispenser. Refer to *Table 44* .
   a. Detergent:
      - Liquid - Compartment 1 (prewash) + Compartment 3
      - Powder - Compartment 1 (prewash) + Compartment 2
   b. Bleach:
      - Liquid - Compartment 3
      - Powder - Compartment 2
   c. Softener:
      - Liquid - Compartment 4
5. Press the START (enter) keypad to select.

   NOTE: Cycles can be changed anytime during the first Fill Step. After the first Fill Step, all cycle keypad presses are ignored.
6. When a cycle is complete, the control displays OPEN DOOR.

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SCT Modles with Q Control

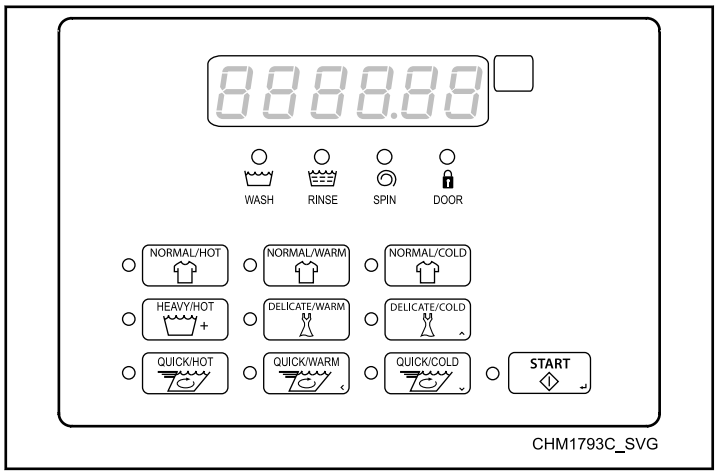

Figure 62

1. Press the Normal/Hot, Normal/Warm, Normal/Cold, Heavy/Hot, Delicate/Warm, Delicate/Cold, Quick/Hot, Quick/Warm or Quick/Cold keypad to select the desired cycle.
2. Insert coin(s) or card as necessary.
   - If the machine is a coin operated unit, add coins. As each coin is added, the vend counts down to the amount remaining.
   - If the machine is a card operated unit, insert and remove card per card system instructions.
   - If the unit is interfaced to a central/remote pay system, go to the central/remote pay console, make payment and select the machine and follow central/remote pay system instructions.
3. Add liquid and/or powder supplies to supply dispenser. Refer to *Table 44* .
   a. Detergent:
      - Liquid - Compartment 1 (prewash) + Compartment 3
      - Powder - Compartment 1 (prewash) + Compartment 2
   b. Bleach:
      - Liquid - Compartment 3
      - Powder - Compartment 2
   c. Softener:
      - Liquid - Compartment 4
4. Press the START (enter) keypad to select.

   NOTE: Cycles cannot be changed anytime after the machine is started.
5. When a cycle is complete, the control displays OPEN DOOR.

HCT Models with Q Control

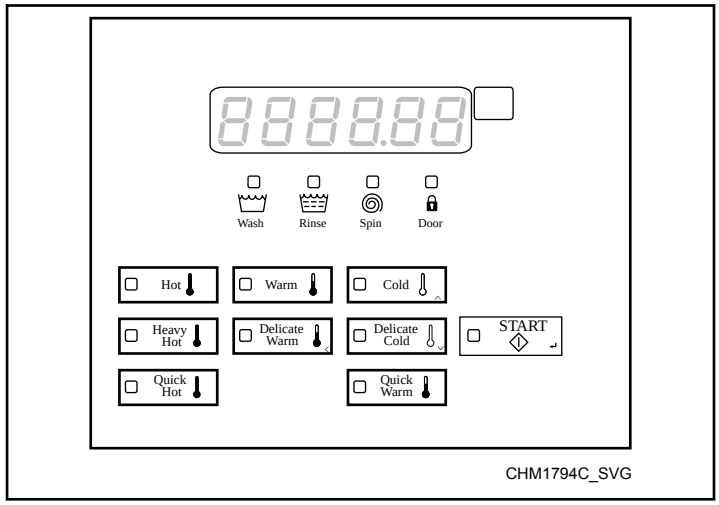

Figure 63

1. Press the Hot, Warm, Cold, Heavy/Hot, Delicate/Warm, Delicate/Cold, Quick/Hot or Quick/Warm keypad to choose the desired cycle/temperature. The corresponding LED indicates the selection.
2. Insert coin(s) or card as necessary.
   - If the machine is a coin operated unit, add coins. As each coin is added, the vend counts down to the amount remaining.
   - If the machine is a card operated unit, insert and remove card per card system instructions.
   - If the unit is interfaced to a central/remote pay system, go to the central/remote pay console, make payment and select the machine and follow central/remote pay system instructions.
3. Add liquid and/or powder supplies to supply dispenser. Refer to *Table 44* .
   a. Detergent:
      - Liquid - Compartment 1 (prewash) + Compartment 3
      - Powder - Compartment 1 (prewash) + Compartment 2
   b. Bleach:
      - Liquid - Compartment 3
      - Powder - Compartment 2
   c. Softener:
      - Liquid - Compartment 4
4. Press the START (enter) keypad to select.

   NOTE: Cycles can be changed anytime during the first Fill Step. After the first Fill Step, all cycle keypad presses are ignored.
5. When a cycle is complete, the control displays OPEN DOOR.

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Adding Supplies

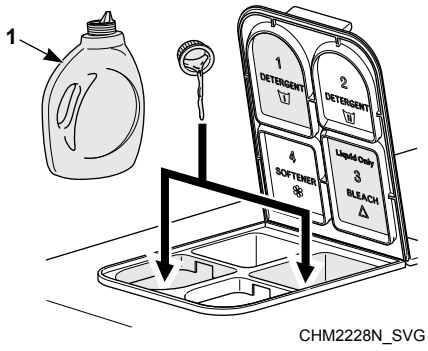
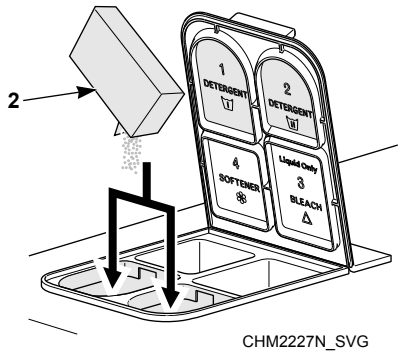
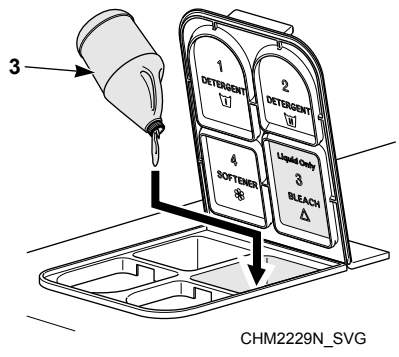
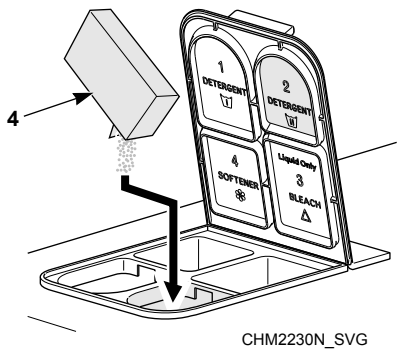
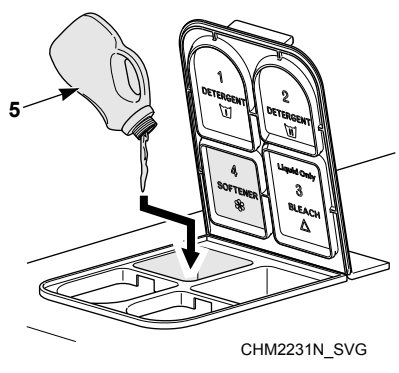
a. DETERGENT	 1. Liquid Detergent	 2. Powder Detergent
b. BLEACH	 3. Liquid Bleach	 4. Powder Bleach
c. SOFTENER	 5. Liquid Softener	

Table 44

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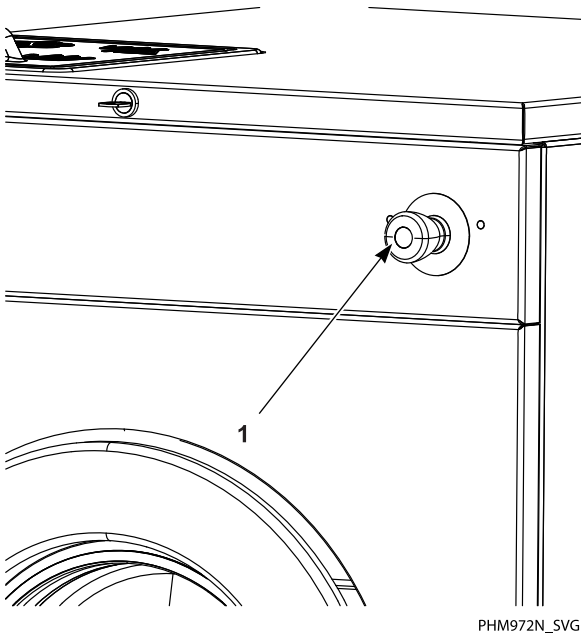
Emergency Stop Button (OPL Models Only)



1. Emergency Stop Button

Figure 64

1. Press red emergency stop button to stop all action.
2. To restart the machine, pull red emergency stop button out and press START (enter) on the control.

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Maintenance

WARNING

Sharp edges can cause personal injury. Wear safety glasses and gloves, use proper tools and provide lighting when handling sheet metal parts.

W366R1

IMPORTANT: Replace all panels that are removed to perform service and maintenance procedures. Do not operate the machine with missing guards or with broken or missing parts. Do not bypass any safety devices.

Daily

IMPORTANT: Replace all panels that are removed to perform maintenance procedures. Do not operate the machine with missing guards or with broken or missing parts. Do not bypass any safety devices.

WARNING

Do not spray the machine with water. Short circuiting and serious damage may result.

unique_73_Connect_42_note-1437506691659

IMPORTANT: Door lock should be checked daily to ensure proper operation. Also check that all safety and instruction stickers are on the machine. Any missing or illegible safety instructions stickers should be replaced immediately.

Beginning of Day

1. Check door interlock before starting operation:
   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 the 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.

2. Check the machine for leaks.
   a. Start an unloaded cycle to fill the machine.
   b. Verify that door and door gasket do not leak.
   c. Verify that the drain valve is operating and that the drain system is free from obstruction. If water does not leak out during the first wash segment, the drain valve is closed and functioning properly.
3. Inspect water inlet valve hose connections on the back of the machine for leaks.
4. Inspect steam hose connections for leaks (if applicable).
5. On machines equipped with an automatic Chemical Supply System, check all the hoses and hose connections for leaks or visible signs of deterioration. Replace immediately if either are present. Chemical leaks can cause damage to the machine's components.

WARNING

To reduce the risk of electrical shock, serious injury or death, disconnect the electrical power to washer-extractor before examining the wiring.

W636

6. Verify that insulation is intact on all external wires and that all connections are secure. If bare wire is evident, call a service technician.
7. Ensure all panels and guards are properly installed.

End of Day

1. Inspect and clean the basket and door gasket of residual detergent and all foreign matter.
2. Clean the door glass and between the door gasket and the door with a damp cloth.
3. Clean automatic supply dispenser lid and general area with mild detergent. Flush the dispenser with clean water.
4. Clean the machine's top, front and side panels with all-purpose cleaner. Rinse with clean water and dry.

   IMPORTANT: Use only isopropyl alcohol to clean graphic overlays. Never use ammonia-based, vinegar- based or acetone-based cleaners on graphic overlays.

   NOTE: Unload the machine promptly after each completed cycle to prevent moisture buildup. Leave loading door and dispenser lid open at the end of each completed cycle to allow moisture to evaporate.
5. Shut off water supply.

Monthly

NOTE: Disconnect power to the machine at its source before performing the monthly maintenance procedures.

1. Inspect the electrical connections for looseness. Tighten as required after disconnecting power.

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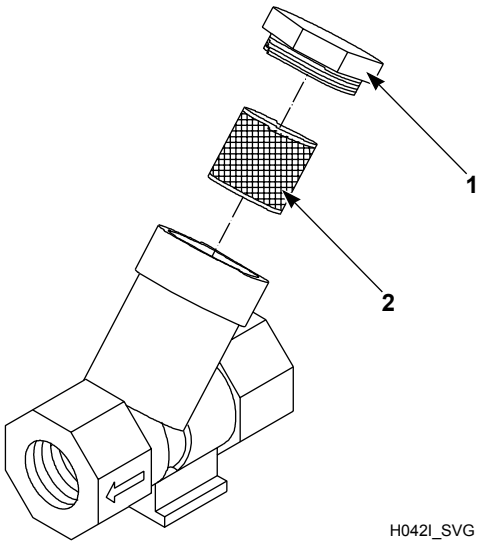
a. Verify that insulation is intact on all external wires and that all connections are secure. If bare wire is evident, call a service technician.

2. Clean inlet hose filter screens.
   a. Turn water off and allow valve and water line to cool, if necessary.
   b. Unscrew inlet hose from the faucet and remove filter screen.
   c. Clean with soapy water and reinstall. Replace if worn or damaged.
   d. Repeat procedure with the filter located inside the valve at the back of the machine.

   NOTE: All filter screens should be replaced every five years.
3. If applicable, clean the customer-supplied steam filter. Refer to *Figure 65* .
   a. Turn off steam supply and allow time for the valve to cool.
   b. Unscrew cap.
   c. Remove element and clean.
   d. Replace element and cap.



1. Cap
2. Steam Filter Element

Figure 65

4. For electric heat models only, inspect heating elements for excess debris by rotating basket to view them through its perforations. Remove drain valve hose to access and clear debris with pliers. Replace element(s) if necessary.

   NOTE: Lint buildup may take several months to occur. Inspect heating elements a minimum of every 6 months.
5. **For 80 and 100 pound [36.3 and 45.4 kg] capacity models only**: Lubricate the barings each month or after every 200 hours of operation. Visually inspect grease line for air pockets, purging air pockets as necessary.

The grease must have the following characteristics:

- NLGI Grade 2
- Lithium-based
- Water-insoluble
- Anti-rusting
- Anti-oxidizing
- Mechanically stable

The grease must have adequate base oil viscosity with one of the following ratings:

- ISO VG 150 (709–871 SUS at 100°F [135–165 cSt at 40°C])
- ISO VG 220 (1047–1283 SUS at 100°F [198–242 cSt at 40°C])
- An SAE 40 rating is also acceptable as long as the cSt or SUS values are within the specified ranges.

Pump the grease gun slowly, permitting only 2 strokes.

NOTE: Do not pump the grease gun until grease comes out of the bearing housing. This can result in over lubrication, causing damage to bearings and seals.

Yearly

NOTE: Disconnect power to the machine at its source before performing maintenance procedures.

1. Remove the front panel(s) and rear access panels and inspect all hose, drain, and overflow connections/clamps for leaks. Inspect all hoses for visible signs of deterioration. Replace as necessary.
2. Inspect the belt for unusual wear, frayed edges, and improper belt tension, replacing belts and/or adjusting tensioning elements as necessary.

   NOTE: Belts must not be twisted and must be properly seated on pulleys. Belt must be centered on basket pulley within .04 inches [1 mm].

   a. Use the following procedures to determine if belt(s) require replacement or adjustment. Call a qualified service technician in either case.

      NOTE: Basket pulley must be rotated three (3) full turns before assessing belt tension after every adjustment.

      - **Frequency Gauge.** Tighten eyebolt top nut until the correct frequency (refer to *Table 8*) is obtained midspan. Torque jam nut to spring bracket to 20.6 ± 2 ft.-lbs. Refer to *Figure 66* .

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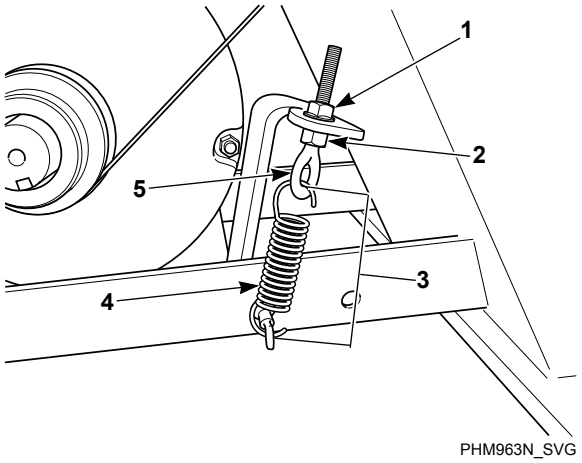

1. Top Nut
2. Jam Nut
3. Spring Length
4. Spring
5. Eyebolt

Figure 66

- **Tension Gauge.** Tighten eyebolt top nut until the proper belt gauge (refer to *Table 8*) is obtained mid-span. Torque jam nut to spring bracket to 20.6 ± 2 ft.-lbs. Refer to *Figure 66* .
- **Spring Length.** Tighten eyebolt top nut until the spring measures the correct distance between the hooks. Refer to *Table 45* . Torque jam nut to spring bracket to 20.6 ± 2 ft.-lbs. Refer to *Figure 66* .

Spring Length, in. [mm]	
Model	**Distance Between Hooks**
20 (2 HP)	4-9/16 [116]
30	4-1/2 [114]
40	4-5/8 [117]
60	5-1/4 [133]
80	4-9/16 [116]
100	4-9/10 [124]

Table 45

- **Maintain Tension During Belt Removal.** If proper tension is achieved, tape the jam nut in place and loosen eyebolt top nut to release the belt. Replace belt and retighten eyebolt top nut back to jam nut position. Refer to *Figure 66* .

IMPORTANT: All torque joints must remain dry (non-lubricated).

b. **20-60 Models:** verify the belt is centered on the basket pulley with in one (1) rib. **80-100 Models:** verify the belt is within the allowable distance of .04 inch [1 mm] between the belt and the edge of basket pulley.

Belt Tension by Frequency or Belt Tension Gauge			
Model	**Frequency (Hz)**	**Belt Tension (lbs.)**	**Tension Gauge (N)**
20	88 ± 2	60.4 ± 6.1	269 ± 27
30	84 ± 2	63.2 ± 6.3	281 ± 28
40	75 ± 2	88.6 ± 8.8	394 ± 39
60	70 ± 2	100.2 ± 5.7	446 ± 25
80	102 ± 2	135 ± 5	601 ± 23
100	110 ± 2	158 ± 5	702 ± 23

Table 46

3. Remove any accumulated debris on or near the motor and motor variable frequency drive heat sinks, if applicable.
4. If applicable, unlock or unscrew the top cover and inspect the supply dispenser hoses and hose connections for visible signs of deterioration. Replace hoses if worn or damaged.

   NOTE: Hoses and other natural rubber parts deteriorate after extended use. Hoses may develop cracks, blisters or material wear from the temperature and constant high pressure they are subjected to.
5. Remove any dust from all electrical components, including coin acceptors if applicable, with compressed air.
6. Inspect hardware for any loose nuts, bolts, screws.
   a. Check the tightness of the motor spring and motor pulley hardware. Also check that the eyebolt is tightened properly.
   b. Tighten motor mounting bolt locknuts and bearing bolt locknuts, if necessary.
   c. Check the bearing mounting bolts to make sure they are torqued properly. Refer to *Table 47* .

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Torque, ft-lbs.		
Model	**Bearing**	**Torque**
20	All	41
30-40	All	101
60	All	201
80-100	All	357

Table 47

d. Tighten door hinges and fasteners, if necessary.

7. Ensure all panels and guards are properly reinstalled.
   a. Verify that the drain motor shield is in place and secure, if so equipped.
8. Run factory test, reference programming manual for procedure details and components tested.

   NOTE: Refer to the Programming Manual for procedure details and components tested.
9. Inspect all painted surfaces for exposed metal. Replace or repaint if necessary.
   - If bare metal is showing, paint with primer or solvent-based paint.
   - If rust appears, remove it with sandpaper or by chemical means. Repaint with primer or solvent-based paint.
10. Torque anchor bolts and inspect grout for cracking.

    NOTE: Refer to the Installation Manual for anchor bolt specifications.

    IMPORTANT: All torque joints must remain dry (non-lubricated).
11. Every 5 years replace inlet hoses, hose screens, belt, and fan filter (if applicable).

Care of Stainless Steel

- Remove dirt and grease with detergent and water. Thoroughly rinse and dry after washing.
- Avoid contact with dissimilar metals to prevent galvanic corrosion when salty or acidic solutions are present.
- Do not allow salty or acidic solutions to evaporate and dry on stainless steel. Wipe clean of any residues.
- Rub in the direction of the polish lines or “grain” of the stainless steel to avoid scratch marks when using abrasive cleaners. Use stainless steel wool or soft, non-metal bristle brushes. Do not use ordinary steel wool or steel brushes.
- If the stainless steel appears to be rusting, the source of the rust may be an iron or steel part not made of stainless steel, such as a nail or screw.
- Remove discoloration or heat tint from overheating by scouring with a powder or by employing special chemical solutions.
- Do not leave sterilizing solutions on stainless steel equipment for prolonged periods of time.
- When an external chemical supply is used, ensure no siphoning of chemicals occurs when the machine is not in use. Highly concentrated chemicals can cause severe damage to stainless steel and other components within the machine. Damage of this kind is not covered by the manufacturer’s warranty. Locate the pump and tubing below the machine’s injection point to prevent siphoning of chemicals into the machine.

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Disposal of Unit

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

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Refer to *Figure 67* . Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. Ensuring this product is disposed of correctly will help prevent potential negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact the local city office, household waste disposal service, or the source from which the product was purchased.

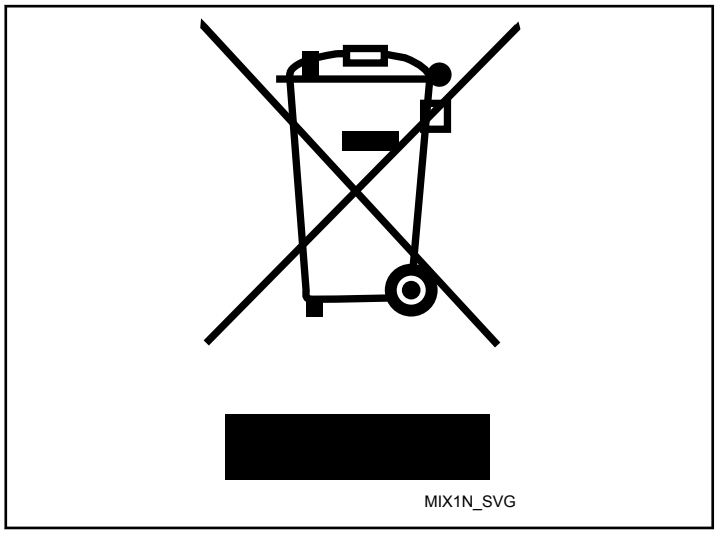

Figure 67

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China Restriction of hazardous substances (RoHS)

The Table of Hazardous Substances/Elements and their Content As required by China's Management Methods for Restricted Use of Hazardous Substances in Electrical and Electronic Products

Hazardous substances						
Part Name	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (CR[VI])	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
PCBs	X	O	O	O	O	O
Electromechanical Parts	O	O	O	O	O	O
Cables and Wires	O	O	O	O	O	O
Metal Parts	O	O	O	O	O	O
Plastic Parts	O	O	O	O	O	O
Batteries	O	O	O	O	O	O
Hoses and Tubing	O	O	O	O	O	O
Timing Belts	O	O	O	O	O	O
Insulation	O	O	O	O	O	O
Glass	O	O	O	O	O	O
Display	O	O	O	O	O	O

This table is prepared in accordance with the provisions of SJ/T-11364.

O: Indicates that the content of said hazardous substance in all of the homogenous materials in the component is within the limits required by GB/T 26572.

X: Indicates that the content of said hazardous substance exceeds the limits required by GB/T 26572 in at least one homogenous material in the component.

All parts named in this table with an "X" are in compliance with the European Union's RoHS Legislation.

NOTE: The referenced Environmental Protection Use Period Marking was determined according to normal operating use conditions of the product such as temperature and humidity.

This product under normal use, durable years of environmental protection is 15 years.

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