Washer-Extractors

Cabinet Hardmount Design 4, 6, and 7 Machines Refer to Page 9 for Machine Identification





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.)



Part No. F8619501ENR11 September 2022

Regulatory Statements

PRODUCT COMPLIANCE

Users of this product are cautioned not to make modifications or changes that are not approved by Alliance Laundry Systems, LLC. Doing so may void the compliance of this product with applicable laws and regulatory requirements and may result in the loss of the user's authority to operate the equipment.

UNITED STATES

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions; (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the radio or television receiving antenna.
- Increase the separation between the computer equipment or receiver
- Connect the equipment into an outlet on a circuit different from that to which the radio or television receiver is connected.
- Consult the dealer or experienced radio television technician for help.



CAUTION

To comply with the limits of the Class B device, pursuant to Part 15 of the FCC Rules, this device is to comply with Class B limits. All peripherals must be shielded and grounded. Operation with non-certified peripherals or non-shielded cables is likely to result in interference and reception of the device.

W1004

Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The radio installed in this equipment and is intended to operate with minimum distance 20cm between the radiator and your body.

Limited Channels Fixed For Use In USA: IEEE 802.11b or 802.11g or 802.11n(HT20) operation of this product in the U.S. is firmware-limited to Channel 1 through 11.

CANADA - CAN ICES-3(B)/NMB-3(B)

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s) standards. Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

Radiation Exposure Statement: This equipment complies with Innovation, Science and Economic Development Canada's radiation exposure limits set forth for in RSS-102. The radio installed in this equipment is installed and is intended to operate with minimum distance 20cm between the radiator and your body.

EUROPE

Products bearing the CE mark comply with the following EU directives:

- EMC Directive 2014/30/EU
- Machinery Directive 2006/42/EC
- Gas Appliance Directive 2016/426/EU
- RoHS Directive 2011/65/EU and its amendment directives; Commission Delegated Directive 2015/863 to restrict four phthalates

If the product has telecommunications functionality, it also complies with the requirements of the following EU directive:

Radio Equipment Directive 2014/53/EU

Compliance with these Directives implies conformity to harmonized European standards that are noted in the EU Declaration of Conformity which is available upon request.

Alliance Laundry Systems products comply with the requirement of Article 12 as it can be operated in at least one Member State as examined and the product is compliant with Article 11 as it has no restrictions on putting into service in all EU member states.

This device contains a 2.4GHz transceiver, intended for indoor use only in all EU member states, EFTA states, and Switzerland. Attention has been given to allowed operational frequencies. For detailed information concerning installations in France, the user should contact the national spectrum authority in France (http://www.arcep.fr/)

Be aware that outdoor installations require special attention and will only be handled by trained and qualified installation personnel. No one from the general-public is permitted to install wireless products outdoors when external antennas, power and grounding must be installed for use.

AUSTRALIA/NEW ZEALAND

The radio in this equipment complies with and is certified to the Australian and New Zealand regulatory requirements.

BRAZIL ANATEL

This device is not entitled to protection against harmful interference and may not interfere with duly authorized systems.

CHINA SRRC

The radio device has recieved certification of conformance in accordance with the People's Republic of China State Radio Regulation Committee (SRRC) certification scheme. Integrations of this radio into a final product does not require additional radio certification provided installation instructions are followed. No changes are authorized to the radio or the antenna of the approved device.

JAPAN

This product is equipped with a certified wireless device pursuant to Article 2-1-19 of the Certification Ordinance. No changes are authorized to the radio or the antenna of the approved device.

MEXICO IFETEL

"The operation of this equipment is subject to the following two conditions: (1) it is possible that this equipment or device does not cause harmful interference and (2) this equipment or device must accept any interference, including that which may cause its unwanted operation."

SOUTH KOREA (KC)

The radio device has received certification of conformance in accordance with the Radio Waves Act. Integration of this radio into a final product does not require additional radio certification provided installation instructions are followed. No changes are authorized to the radio or the antenna of the approved device.

TAIWAN

The information in this section applies to products bearing the Taiwan National Communications Commission mark:

This telecom equipment has complied with NCC regulations.

According to "Administrative Regulations of Low Power Radio Waves Radiated Devices:

Article 12 The low-power radio-frequency devices must not be altered by changing the frequency, enhancing emission power, adding external antenna, and modification of original design characteristic as well as function.

Article 14 The operation of the low-power radio-frequency devices is subject to the conditions that no harmful interference is caused. The user must stop operating the device immediately should harmful interference is caused and shall not resume until the condition causing the harmful interference has been corrected

Moreover, the interference must be accepted that may be caused by the operation of an authorized communications, or ISM equipment. (1) Precautions (marked in the product manual and on outer packaging)

THAILAND

The information in this section applies to products approved by the Thailand National Communications Commission:

These telecommunication and device are compliance with the requirements of National Broadcasting and Telecommunication Commission.

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.

Singapore Recommended Program For Nominal Load

The ECO Cycle at 27 minutes with 1 wash and 1 rinse is the program recommended for a nominal load at rated load capacity.

For the below model certification:

SCT020, SCT030, SCT040, SCT060

HCT020, HCT030, HCT040, HCT060

PCT020, PCT030, PCT040, PCT060

BCT020, BCT030, BCT040, BCT060

Refer to programming manual for details of this wash program.

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])	Polybromi- nated biphen- yls (PBB)	Polybromi- nated diphen- yl ethers (PBDE)		
PCBs	X	О	0	0	0	О		
Electromechanical Parts	О	О	0	0	0	О		
Cables and Wires	О	О	0	0	0	О		
Metal Parts	О	О	0	0	О	О		
Plastic Parts	О	О	0	0	О	О		
Batteries	О	О	0	0	О	О		
Hoses and Tubing	О	О	0	0	О	О		
Timing Belts	О	О	0	О	О	О		
Insulation	О	О	0	0	О	О		
Glass	О	О	0	О	О	О		
Display	О	0	О	О	0	0		

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.

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

6

- Read all instructions before using the washer.
- Install the washer according the INSTALLATION instructions. Refer to the EARTH/GROUND instructions in the IN-

- STALLATION 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 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 IN-STRUCTIONS 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



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:
 - 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

Machine Identification

Information in this manual is applicable to these machines:

Information in th	nformation in this manual is applicable to these machines:							
	20 Machines							
DCG020ND DCJ020NC DCJ020ND DCJ020NE	DCJ020NF DCJ020NH DCJ020NL DCJ020NQ	DCJ020NT DCJ020NV DCJ020NX DCJ020NY	DCJ020WC DCJ020WD DCJ020WE DCJ020WF	DCJ020WH DCJ020WL DCJ020WQ DCJ020WT	DCJ020WV DCJ020WX	DCJ020WY		
BCA020NC BCA020NH BCA020NL BCA020NX BCA020NY BCA020QN BCA020WC BCA020WH	BCA020WL BCA020WX BCA020WY BCG020NC BCG020ND BCG020NE BCG020NF BCG020NH	BCG020NL BCG020NQ BCG020NY BCG020QN BCK020NC BCK020NH BCK020NL BCK020NL	BCK020NY BCK020QN BCK020WC BCK020WH BCK020WL BCK020WX BCK020WY BCL020NC	BCL020NH BCL020NL BCL020NX BCL020NY BCL020QN BCL020WC BCL020WH BCL020WL	BCL020WX BCL020WY BCT020NC BCT020NH BCT020NL BCT020NX BCT020NY BCT020QN	BCT020WC BCT020WH BCT020WL BCT020WX BCT020WY		
HCA020FN HCA020NC HCA020ND HCA020NE HCA020NF HCA020NH HCA020NL HCA020NV HCA020NV HCA020NV HCA020NV HCA020NV HCA020WC HCA020WC HCA020WC HCA020WE HCA020WF HCA020WF HCA020WF HCA020WF HCA020WT HCA020WT HCA020WT HCA020WT HCA020WV	HCD020NQ HCD020NT HCD020NV HCD020NX HCD020NY HCD020QN HCD020WC HCD020WD HCD020WF HCD020WF HCD020WH HCD020WL HCD020WV HCD020WV HCD020WV HCD020WV HCD020WV HCD020WV HCD020WV HCD020FN HCE020NC HCE020ND HCE020NE HCE020NF HCE020NI HCE020NU	HCE020WD HCE020WE HCE020WF HCE020WH HCE020WL HCE020WV HCE020WV HCE020WV HCE020WY HCG020FN HCG020NC HCG020ND HCG020NE HCG020NF HCG020NI HCG020NI HCG020NI HCG020NV	HCG020WV HCG020WX HCG020WY HCH020FN HCH020NC HCH020ND HCH020NE HCH020NF HCH020NL HCH020NU HCH020NV HCH020NV HCH020NV HCH020NV HCH020WV HCH020WC HCH020WC HCH020WD HCH020WE HCH020WF HCH020WF HCH020WF HCH020WI HCH020WI HCH020WV HCH020WV HCH020WV HCH020WV HCH020WV	HCJ020NE HCJ020NF HCJ020NF HCJ020NH HCJ020NL HCJ020NQ HCJ020NT HCJ020NV HCJ020NY HCJ020NY HCJ020WC HCJ020WC HCJ020WD HCJ020WE HCJ020WF HCJ020WF HCJ020WF HCJ020WV HCJ020WV HCJ020WV HCJ020WV HCJ020WV HCJ020WV HCJ020WV HCJ020WY HCL020WY HCK020NH HCL020FN HCL020WX	HCT020NH HCT020NL HCT020NQ HCT020NT HCT020NV HCT020NX HCT020NY HCT020QC HCT020QC HCT020QF HCT020QH HCT020QL HCT020QV HCT020QV HCT020QV HCT020QV HCT020QV HCT020QX HCT020QX HCT020WC HCT020WC HCT020WC HCT020WF HCT020WF HCT020WF HCT020WF HCT020WH HCT020WL	HCU020FN HCU020NC HCU020NE HCU020NF HCU020NF HCU020NH HCU020NU HCU020NV HCU020NV HCU020NY HCU020NY HCU020WC HCU020WC HCU020WC HCU020WE HCU020WF HCU020WF HCU020WF HCU020WI HCU020WI HCU020WI HCU020WI HCU020WV		
HCD020ND HCD020NE HCD020NF HCD020NH HCD020NL	HCE020NT HCE020NV HCE020NX HCE020NY HCE020WC	HCG020WE HCG020WF HCG020WH HCG020WL HCG020WT	HCH020WX HCH020WY HCJ020FN HCJ020NC HCJ020ND	HCT020FN HCT020NC HCT020ND HCT020NE HCT020NF	HCT020WQ HCT020WT HCT020WV HCT020WX HCT020WY			

20 Machines							
PCA020NC	PCA020WL	PCG020NL	PCK020NY	PCL020NH	PCL020WX	PCT020WC	
PCA020NH	PCA020WX	PCG020NQ	PCK020QN	PCL020NL	PCL020WY	PCT020WH	
PCA020NL	PCA020WY	PCG020NY	PCK020WC	PCL020NX	PCT020NC	PCT020WL	
PCA020NX	PCG020NC	PCG020QN	PCK020WH	PCL020NY	PCT020NH	PCT020WX	
PCA020NY	PCG020ND	PCK020NC	PCK020WL	PCL020QN	PCT020NL	PCT020WY	
PCA020QN	PCG020NE	PCK020NH	PCK020WX	PCL020WC	PCT020NX		
PCA020WC	PCG020NF	PCK020NL	PCK020WY	PCL020WH	PCT020NY		
PCA020WH	PCG020NH	PCK020NX	PCL020NC	PCL020WL	PCT020QN		
SCA020FN	SCD020NX	SCE020WX	SCH020NT	SCK020NN	SCL020WL	SCT020WH	
SCA020NC	SCD020NY	SCE020WY	SCH020NV	SCK020NQ	SCL020WQ	SCT020WL	
SCA020ND	SCD020WC	SCG020FN	SCH020NX	SCK020NT	SCL020WT	SCT020WT	
SCA020NE	SCD020WD	SCG020NC	SCH020NY	SCK020NV	SCL020WV	SCT020WQ	
SCA020NF	SCD020WE	SCG020ND	SCH020WC	SCK020NX	SCL020WX	SCT020WV	
SCA020NH	SCD020WF	SCG020NE	SCH020WD	SCK020NY	SCL020WY	SCT020WX	
SCA020NL	SCD020WH	SCG020NF	SCH020WE	SCK020WC	SCT020FN	SCT020WY	
SCA020NN	SCD020WL	SCG020NH	SCH020WF	SCK020WD	SCT020NC	SCU020FN	
SCA020NT	SCD020WT	SCG020NL	SCH020WH	SCK020WE	SCT020ND	SCU020NC	
SCA020NQ	SCD020WQ	SCG020NN	SCH020WL	SCK020WF	SCT020NE	SCU020ND	
SCA020NV	SCD020WV	SCG020NT	SCH020WQ	SCK020WH	SCT020NF	SCU020NE	
SCA020NX	SCD020WX	SCG020NQ	SCH020WT	SCK020WL	SCT020NH	SCU020NF	
SCA020NY	SCD020WY	SCG020NV	SCH020WV	SCK020WQ	SCT020NL	SCU020NH	
SCA020QN	SCE020FN	SCG020NX	SCH020WX	SCK020WT	SCT020NN	SCU020NL	
SCA020WC	SCE020NC	SCG020NY	SCH020WY	SCK020WV	SCT020NT	SCU020NN	
SCA020WD	SCE020ND	SCG020QN	SCJ020FN	SCK020WX	SCT020NQ	SCU020NT	
SCA020WE	SCE020NE	SCG020WC	SCJ020NN	SCK020WY	SCT020NV	SCU020NQ	
SCA020WF	SCE020NF	SCG020WD	SCJ020WC	SCL020FN	SCT020NX	SCU020NV	
SCA020WH	SCE020NH	SCG020WE	SCJ020WD	SCL020NC	SCT020NY	SCU020NX	
SCA020WL	SCE020NL	SCG020WF	SCJ020WE	SCL020ND	SCT020QC	SCU020NY	
SCA020WT	SCE020NN	SCG020WH	SCJ020WF	SCL020NE	SCT020QD	SCU020WC	
SCA020WQ	SCE020NT	SCG020WL	SCJ020WH	SCL020NF	SCT020QE	SCU020WD	
SCA020WV	SCE020NQ	SCG020WT SCG020WQ	SCJ020WL	SCL020NH	SCT020QF	SCU020WE	
SCA020WX	SCE020NV SCE020NX	,	SCJ020WQ	SCL020NL	SCT020QH SCT020QL	SCU020WF SCU020WH	
SCA020WY SCD020FN	SCE020NX SCE020NY	SCG020WV SCG020WX	SCJ020WT SCJ020WV	SCL020NN	SCT020QL SCT020QN	SCU020WH SCU020WL	
SCD020FN SCD020NC	SCE020WC	SCG020WY	SCJ020WX	SCL020NQ SCL020NT	SCT020QN SCT020QQ	SCU020WL SCU020WT	
SCD020NC	SCE020WC SCE020WD	SCH020FN	SCJ020WX SCJ020WY	SCL020N1 SCL020NV	SCT020QT	SCU020W1 SCU020WQ	
SCD020ND SCD020NE	SCE020WD SCE020WE	SCH020FN SCH020NC	SCK020FN	SCL020NV SCL020NX	SCT020Q1 SCT020QV	SCU020WQ SCU020WV	
SCD020NE SCD020NF	SCE020WE SCE020WF	SCH020NC SCH020ND	SCK020FN SCK020NC	SCL020NX SCL020NY	SCT020QX	SCU020WV SCU020WX	
SCD020NH	SCE020WH	SCH020ND SCH020NE	SCK020NC SCK020ND	SCL020WC	SCT020QX SCT020QY	SCU020WX SCU020WY	
SCD020NH SCD020NL	SCE020WH SCE020WL	SCH020NE SCH020NF	SCK020ND SCK020NE	SCL020WC SCL020WD	SCT020Q1 SCT020WC	SCOUZOW I	
SCD020NL SCD020NN	SCE020WE SCE020WT	SCH020NH	SCK020NE SCK020NF	SCL020WD SCL020WE	SCT020WC		
SCD020NT	SCE020WQ	SCH020NL	SCK020NF SCK020NH	SCL020WE SCL020WF	SCT020WE		
SCD020NQ	SCE020WV	SCH020NE SCH020NN	SCK020NL	SCL020WH	SCT020WE		
SCD020NV	302077	SCH020NQ	501020111	50200011	301020 111		
UCA020FN	UCD020NN	UCG020QN	UCE020FN	UCK020NN	UCT020QN	UCU020NN	
UCA020NN	UCD020QN	UCH020FN	UCJ020FN	UCK020QN	UCU020FN		
UCA020QN	UCG020FN	UCH020NN	UCJ020NN	UCT020FN	UCU020QN		
UCD020FN	UCG020NN	UCH020QN	UCJ020QN	UCT020NN	22332341		
CH020E-A	CH020F-A	CH020M-A	CH020N-A	CH020S-A	CH020T-A		

30 Machines							
	T	T	T	Τ	T	T	
DCG030ND	DCJ030NF	DCJ030NT	DCJ030WC	DCJ030WH	DCJ030WV	DCJ030WY	
DCJ030NC	DCJ030NH	DCJ030NV	DCJ030WD	DCJ030WL	DCJ030WX		
DCJ030ND	DCJ030NL	DCJ030NX	DCJ030WE	DCJ030WQ			
DCJ030NE	DCJ030NQ	DCJ030NY	DCJ030WF	DCJ030WT			
BCA030NC	BCA030WL	BCG030NL	BCK030NY	BCL030NH	BCL030WX	BCT030WC	
BCA030NH	BCA030WX	BCG030NQ	BCK030QN	BCL030NL	BCL030WY	BCT030WH	
BCA030NL	BCA030WY	BCG030NY	BCK030WC	BCL030NX	BCT030NC	BCT030WL	
BCA030NX	BCG030NC	BCG030QN	BCK030WH	BCL030NY	BCT030NH	BCT030WX	
BCA030NY	BCG030ND	BCK030NC	BCK030WL	BCL030QN	BCT030NL	BCT030WY	
BCA030QN	BCG030NE	BCK030NH	BCK030WX	BCL030WC	BCT030NX		
BCA030WC	BCG030NF	BCK030NL	BCK030WY	BCL030WH	BCT030NY		
BCA030WH	BCG030NH	BCK030NX	BCL030NC	BCL030WL	BCT030QN		
HCA030FN	HCD030NQ	HCE030WD	HCG030WV	HCJ030NE	HCT030NH	HCU030FN	
HCA030NC	HCD030NT	HCE030WE	HCG030WX	HCJ030NF	HCT030NL	HCU030NC	
HCA030ND	HCD030NV	HCE030WF	HCG030WY	HCJ030NH	HCT030NQ	HCU030ND	
HCA030NE	HCD030NX	HCE030WH	HCH030FN	HCJ030NL	HCT030NT	HCU030NE	
HCA030NF	HCD030NY	HCE030WL	HCH030NC	HCJ030NQ	HCT030NV	HCU030NF	
HCA030NH	HCD030QN	HCE030WQ	HCH030ND	HCJ030NT	HCT030NX	HCU030NH	
HCA030NL	HCD030WC	HCE030WT	HCH030NE	HCJ030NV	HCT030NY	HCU030NL	
HCA030NQ	HCD030WD	HCE030WV	HCH030NF	HCJ030NX	HCT030QC	HCU030NQ	
HCA030NT	HCD030WE	HCE030WX	HCH030NH	HCJ030NY	HCT030QD	HCU030NT	
HCA030NV	HCD030WF	HCE030WY	HCH030NL	HCJ030QN	HCT030QE	HCU030NV	
HCA030NX	HCD030WH	HCG030FN	HCH030NQ	HCJ030WC	HCT030QF	HCU030NX	
HCA030NY	HCD030WL	HCG030NC	HCH030NT	HCJ030WD	HCT030QH	HCU030NY	
HCA030QN	HCD030WQ	HCG030ND	HCH030NV	HCJ030WE	HCT030QL	HCU030QN	
HCA030WC	HCD030WT	HCG030NE	HCH030NX	HCJ030WF	HCT030QN	HCU030WC	
HCA030WD	HCD030WV	HCG030NF	HCH030NY	HCJ030WH	HCT030QQ	HCU030WD	
HCA030WE	HCD030WX	HCG030NH	HCH030QN	HCJ030WL	HCT030QT	HCU030WE	
HCA030WF	HCD030WY	HCG030NL	HCH030WC	HCJ030WQ	HCT030QV	HCU030WF	
HCA030WH	HCE030FN	HCG030NQ	HCH030WD	HCJ030WT	HCT030QX	HCU030WH	
HCA030WL	HCE030NC	HCG030NT	HCH030WE	HCJ030WV	HCT030QY	HCU030WL	
HCA030WT	HCE030ND	HCG030NV	HCH030WF	HCJ030WX	HCT030WC	HCU030WQ	
HCA030WV	HCE030NE	HCG030NX	HCH030WH	HCJ030WY	HCT030WD	HCU030WT	
HCA030WX	HCE030NF	HCG030NY	HCH030WL	HCK030NH	HCT030WE	HCU030WV	
HCA030WY	HCE030NH	HCG030QN	HCH030WQ	HCL030FN	HCT030WF	HCU030WX	
HCD030FN	HCE030NL	HCG030WC	HCH030WT	HCL030WH	HCT030WH	HCU030WY	
HCD030NC	HCE030NQ	HCG030WD	HCH030WV	HCL030WX	HCT030WL		
HCD030ND	HCE030NT	HCG030WE	HCH030WX	HCT030FN	HCT030WQ		
HCD030NE	HCE030NV	HCG030WF	HCH030WY	HCT030NC	HCT030WT		
HCD030NF	HCE030NX	HCG030WH	HCJ030FN	HCT030ND	HCT030WV		
HCD030NH	HCE030NY	HCG030WL	HCJ030NC	HCT030NE	HCT030WX		
HCD030NL	HCE030WC	HCG030WT	HCJ030ND	HCT030NF	HCT030WY		

PCA030NH PCA030WX PCG030NQ PCK030QN PCL030NL PCI PCA030NL PCA030WY PCG030NY PCK030WC PCL030NX PCT PCA030NX PCG030NC PCG030QN PCK030WH PCL030NY PCT PCA030NY PCG030ND PCK030NC PCK030WL PCL030QN PCT PCA030QN PCG030NE PCK030NH PCK030WX PCL030WC PCT PCA030WC PCG030NF PCK030NL PCK030WY PCL030WH PCT PCA030WH PCG030NH PCK030NX PCL030NC PCL030WL PCT SCA030FN SCD030NX SCE030WX SCH030NT SCK030NN SCI	L030WX PCT030WC PCT030WI PCT03
PCA030NL PCA030WY PCG030NY PCK030WC PCL030NX PCT PCA030NX PCG030NC PCG030QN PCK030WH PCL030NY PCT PCA030NY PCG030ND PCK030NC PCK030WL PCL030QN PCT PCA030QN PCG030NE PCK030NH PCK030WX PCL030WC PCT PCA030WC PCG030NF PCK030NL PCK030WY PCL030WH PCT PCA030WH PCG030NH PCK030NX PCL030NC PCL030WL PCT SCA030FN SCD030NX SCE030WX SCH030NT SCK030NN SCI	F030NC PCT030WI PCT03
PCA030NX PCG030NC PCG030QN PCK030WH PCL030NY PCT PCA030NY PCG030ND PCK030NC PCK030WL PCL030QN PCT PCA030QN PCG030NE PCK030NH PCK030WX PCL030WC PCT PCA030WC PCG030NF PCK030NL PCK030WY PCL030WH PCT PCA030WH PCG030NH PCK030NX PCL030NC PCL030WL PCT SCA030FN SCD030NX SCE030WX SCH030NT SCK030NN SCI	F030NH PCT030WY F030NL PCT030WY F030NX F030NY
PCA030NY PCG030ND PCK030NC PCK030WL PCL030QN PCT PCA030QN PCG030NE PCK030NH PCK030WX PCL030WC PCT PCA030WC PCG030NF PCK030NL PCK030WY PCL030WH PCT PCA030WH PCG030NH PCK030NX PCL030NC PCL030WL PCT SCA030FN SCD030NX SCE030WX SCH030NT SCK030NN SCI	F030NL PCT030WY F030NX F030NY
PCA030QN PCG030NE PCK030NH PCK030WX PCL030WC PCT PCA030WC PCG030NF PCK030NL PCK030WY PCL030WH PCT PCA030WH PCG030NH PCK030NX PCL030NC PCL030WL PCT SCA030FN SCD030NX SCE030WX SCH030NT SCK030NN SCI	Γ030NX Γ030NY
PCA030WC PCG030NF PCK030NL PCK030WY PCL030WH PCT PCA030WH PCG030NH PCK030NX PCL030NC PCL030WL PCT SCA030FN SCD030NX SCE030WX SCH030NT SCK030NN SCI	Γ030NY
PCA030WH PCG030NH PCK030NX PCL030NC PCL030WL PCT SCA030FN SCD030NX SCE030WX SCH030NT SCK030NN SCI	
SCA030FN SCD030NX SCE030WX SCH030NT SCK030NN SCI	Γ030QN
SCANZONC ISCDOZONY ISCENZOWY ISCHOZONY ISCKOZONO ISCE	L030WL SCT030WF
SCUSSURE ISCRISSIVE ISCRISSIVE ISCRISSIVE ISCRISSIVE ISCR	L030WQ SCT030WI
SCA030ND SCD030WC SCG030FN SCH030NX SCK030NT SCI	L030WT SCT030WT
SCA030NE SCD030WD SCG030NC SCH030NY SCK030NV SCI	L030WV SCT030WO
SCA030NF SCD030WE SCG030ND SCH030WC SCK030NX SCI	L030WX SCT030WV
SCA030NH SCD030WF SCG030NE SCH030WD SCK030NY SCI	L030WY SCT030WX
SCA030NL SCD030WH SCG030NF SCH030WE SCK030WC SCT	T030FN SCT030WY
SCA030NN SCD030WL SCG030NH SCH030WF SCK030WD SCT	T030NC SCU030FN
	TO30ND SCU030NC
SCA030NQ SCD030WQ SCG030NN SCH030WL SCK030WF SCT	FO30NE SCU030NE
SCA030NV SCD030WV SCG030NT SCH030WQ SCK030WH SCT	TO30NF SCU030NE
SCA030NX SCD030WX SCG030NQ SCH030WT SCK030WL SCT	гозоnн SCU030NF
SCA030NY SCD030WY SCG030NV SCH030WV SCK030WQ SCT	FO30NL SCU030NE
SCA030QN SCE030FN SCG030NX SCH030WX SCK030WT SCT	FO30NN SCU030NL
· ·	FO30NT SCU030NN
	F030NQ SCU030NT
	TO30NV SCU030NQ
	TO30NX SCU030NV
	F030NY SCU030NX
	F030QC SCU030NY
	T030QD SCU030W0
	F030QE SCU030WI
`	F030QF SCU030WI
`	F030QH SCU030WI
	F030QL SCU030WI
	T030QN SCU030WI
	F030QQ SCU030WT
	F030QT SCU030W0
	F030QV SCU030WV
	T030QX SCU030W2
	T030QY SCU030WY
	T030WC
	T030WD
	T030WE
· · · · · · · · · · · · · · · · · · ·	T030WF
SCD030NV SCH030NQ SCE030WI SCE030WI SCE030WI SCE030WI	
UCA030FN UCD030NN UCG030NN UCH030QN UCK030NN UC	T030QN UCU030QN
	U030FN
	U030NN
UCD030FN UCG030FN UCH030NN UCJ030QN UCT030NN	
CH030E-A CH030F-A CH030M-A CH030N-A CH030S-A CH0	030T-A

40 Machines							
DCG040ND DCJ040NC DCJ040ND DCJ040NE	DCJ040NF DCJ040NH DCJ040NL DCJ040NQ	DCJ040NT DCJ040NV DCJ040NX DCJ040NY	DCJ040WC DCJ040WD DCJ040WE DCJ040WF	DCJ040WH DCJ040WL DCJ040WQ DCJ040WT	DCJ040WV DCJ040WX	DCJ040WY	
BCA040NC BCA040NH BCA040NL BCA040NX BCA040NY BCA040QN BCA040WC BCA040WH	BCA040WL BCA040WX BCA040WY BCG040NC BCG040ND BCG040NE BCG040NF BCG040NH	BCG040NL BCG040NQ BCG040NY BCG040QN BCK040NC BCK040NH BCK040NL BCK040NX	BCK040NY BCK040QN BCK040WC BCK040WH BCK040WL BCK040WX BCK040WY BCL040NC	BCL040NH BCL040NL BCL040NX BCL040NY BCL040QN BCL040WC BCL040WH BCL040WL	BCL040WX BCL040WY BCT040NC BCT040NH BCT040NL BCT040NX BCT040NY BCT040QN	BCT040WC BCT040WH BCT040WL BCT040WX BCT040WY	
HCA040FN HCA040NC HCA040ND HCA040NE HCA040NF HCA040NH HCA040NL HCA040NV HCA040NV HCA040NV HCA040NV HCA040WC HCA040WC HCA040WB HCA040WF HCA040WF HCA040WF HCA040WT HCA040WT HCA040WT HCA040WT HCA040WT HCA040WV HCA040WV HCA040WV HCA040WV HCA040WV HCA040WV HCA040WV HCA040WV HCA040WV HCA040WN HCA040WN HCA040WN HCA040WN HCA040WN HCA040WN HCA040WN HCE040ND	HCE040NE HCE040NF HCE040NH HCE040NL HCE040NV HCE040NV HCE040NV HCE040NV HCE040WC HCE040WD HCE040WE HCE040WH HCE040WH HCE040WL HCE040WV HCE040WN HCE040WN HCE040WN HCE040WN HCE040WN HCE040WN HCE040WN HCE040NF HCG040ND HCG040NF HCG040NF	HCG040NL HCG040NQ HCG040NT HCG040NV HCG040NX HCG040NY HCG040QN HCG040WC HCG040WD HCG040WF HCG040WF HCG040WT HCH040NC HCH040ND HCH040ND HCH040NI HCH040NL HCH040NI HCH040NI	HCH040NV HCH040NX HCH040NY HCH040QN HCH040WC HCH040WD HCH040WF HCH040WF HCH040WH HCH040WU HCH040WV HCH040WV HCH040WV HCH040WV HCH040WV HCH040WN HCJ040FN HCJ040NC HCJ040NF HCJ040NF HCJ040NI HCJ040NI HCJ040NV HCJ040NV	HCJ040NY HCJ040QN HCJ040WC HCJ040WD HCJ040WE HCJ040WF HCJ040WH HCJ040WL HCJ040WV HCJ040WV HCJ040WV HCJ040WV HCJ040WY HCK040NH HCL040FN HCL040WH HCL040WX HCT040ND HCT040ND HCT040NE HCT040NH	HCT040NT HCT040NV HCT040NX HCT040NY HCT040QC HCT040QD HCT040QE HCT040QF HCT040QH HCT040QL HCT040QV HCT040QV HCT040QV HCT040QV HCT040QV HCT040WC HCT040WC HCT040WE HCT040WF HCT040WF HCT040WH HCT040WL HCT040WU HCT040WU HCT040WU HCT040WV	HCT040WY HCU040FN HCU040NC HCU040ND HCU040NE HCU040NF HCU040NH HCU040NL HCU040NV HCU040NV HCU040NV HCU040NV HCU040WV HCU040WC HCU040WD HCU040WE HCU040WF HCU040WF HCU040WF HCU040WH HCU040WC HCU040WV	
PCA040ND PCA040NC PCA040NH PCA040NL PCA040NX PCA040NY PCA040QN PCA040WC PCA040WH	PCA040WL PCA040WX PCA040WY PCG040NC PCG040ND PCG040NE PCG040NF PCG040NH	PCG040NL PCG040NQ PCG040NY PCG040QN PCK040NC PCK040NH PCK040NL PCK040NX	PCK040NX PCK040QN PCK040WC PCK040WH PCK040WL PCK040WX PCK040WX PCK040WY	PCL040NQ PCL040NH PCL040NX PCL040NY PCL040QN PCL040WC PCL040WH PCL040WL	PCL040WX PCL040WY PCT040NC PCT040NH PCT040NL PCT040NX PCT040NY PCT040QN	PCT040WC PCT040WH PCT040WL PCT040WX PCT040WY	

40 Machines							
SCA040FN	SCE040NN	SCG040WD	SCH040WV	SCK040WE	SCL040WX	SCT040WH	
SCA040NC	SCE040NT	SCG040WE	SCH040WX	SCK040WE	SCL040WY	SCT040WL	
SCA040ND	SCE040NQ	SCG040WE	SCH040WY	SCK040WH	SCT040FN	SCT040WE	
SCA040NE	SCE040NV	SCG040WH	SCJ040FN	SCK040WL	SCT040NC	SCT040WQ	
SCA040NF	SCE040NX	SCG040WL	SCJ040NN	SCK040WQ	SCT040ND	SCT040WV	
SCA040NH	SCE040NY	SCG040WT	SCJ040WC	SCK040WT	SCT040NE	SCT040WX	
SCA040NL	SCE040WC	SCG040WQ	SCJ040WD	SCK040WV	SCT040NF	SCT040WY	
SCA040NN	SCE040WD	SCG040WV	SCJ040WE	SCK040WX	SCT040NH	SCU040FN	
SCA040NT	SCE040WE	SCG040WX	SCJ040WF	SCK040WY	SCT040NL	SCU040NC	
SCA040NQ	SCE040WF	SCG040WY	SCJ040WH	SCL040FN	SCT040NN	SCU040ND	
SCA040NV	SCE040WH	SCH040FN	SCJ040WL	SCL040NC	SCT040NT	SCU040NE	
SCA040NX	SCE040WL	SCH040NC	SCJ040WQ	SCL040ND	SCT040NQ	SCU040NF	
SCA040NY	SCE040WT	SCH040ND	SCJ040WT	SCL040NE	SCT040NV	SCU040NH	
SCA040QN	SCE040WQ	SCH040NE	SCJ040WV	SCL040NF	SCT040NX	SCU040NL	
SCA040WC	SCE040WV	SCH040NF	SCJ040WX	SCL040NH	SCT040NY	SCU040NN	
SCA040WD	SCE040WX	SCH040NH	SCJ040WY	SCL040NL	SCT040QC	SCU040NT	
SCA040WE	SCE040WY	SCH040NL	SCK040FN	SCL040NN	SCT040QD	SCU040NQ	
SCA040WF	SCG040FN	SCH040NN	SCK040NC	SCL040NQ	SCT040QE	SCU040NV	
SCA040WH	SCG040NC	SCH040NQ	SCK040ND	SCL040NT	SCT040QF	SCU040NX	
SCA040WL	SCG040ND	SCH040NT	SCK040NE	SCL040NV	SCT040QH	SCU040NY	
SCA040WT	SCG040NE	SCH040NV	SCK040NF	SCL040NX	SCT040QL	SCU040WC	
SCA040WQ	SCG040NF	SCH040NX	SCK040NH	SCL040NY	SCT040QN	SCU040WD	
SCA040WV	SCG040NH	SCH040NY	SCK040NL	SCL040WC	SCT040QQ	SCU040WE	
SCA040WX	SCG040NL	SCH040WC	SCK040NN	SCL040WD	SCT040QT	SCU040WF	
SCA040WY	SCG040NN	SCH040WD	SCK040NQ	SCL040WE	SCT040QV	SCU040WH	
SCE040FN	SCG040NT	SCH040WE	SCK040NT	SCL040WF	SCT040QX	SCU040WL	
SCE040NC	SCG040NQ	SCH040WF	SCK040NV	SCL040WH	SCT040QY	SCU040WT	
SCE040ND	SCG040NV	SCH040WH	SCK040NX	SCL040WL	SCT040WC	SCU040WQ	
SCE040NE	SCG040NX	SCH040WL	SCK040NY	SCL040WQ	SCT040WD	SCU040WV	
SCE040NF	SCG040NY	SCH040WQ	SCK040WC	SCL040WT	SCT040WE	SCU040WX	
SCE040NH	SCG040QN	SCH040WT	SCK040WD	SCL040WV	SCT040WF	SCU040WY	
SCE040NL	SCG040WC						
UCA040FN	UCE040FN	UCG040QN	UCH040QN	UCJ040QN	UCT040FN	UCU040FN	
UCA040NN	UCG040FN	UCH040FN	UCJ040FN	UCK040NN	UCT040NN	UCU040NN	
UCA040QN	UCG040NN	UCH040NN	UCJ040NN	UCK040QN	UCT040QN	UCU040QN	
CH040E-A	CH040F-A	CH040M-A	CH040N-A	CH040S-A	СН040Т-А		

	60 Machines							
DCG060ND DCJ060NC DCJ060ND DCJ060NE	DCJ060NF DCJ060NH DCJ060NL DCJ060NQ	DCJ060NT DCJ060NV DCJ060NX DCJ060NY	DCJ060WC DCJ060WD DCJ060WE DCJ060WF	DCJ060WH DCJ060WL DCJ060WQ DCJ060WT	DCJ060WV DCJ060WX	DCJ060WY		
BCA060NC BCA060NH BCA060NL BCA060NX BCA060NY BCA060QN BCA060WC BCA060WH	BCA060WL BCA060WX BCA060WY BCG060NC BCG060ND BCG060NE BCG060NF BCG060NH	BCG060NL BCG060NQ BCG060NY BCG060QN BCK060NC BCK060NH BCK060NL BCK060NX	BCK060NY BCK060QN BCK060WC BCK060WH BCK060WL BCK060WX BCK060WY BCL060NC	BCL060NH BCL060NL BCL060NX BCL060NY BCL060QN BCL060WC BCL060WH BCL060WL	BCL060WX BCL060WY BCT060NC BCT060NH BCT060NL BCT060NX BCT060NY BCT060QN	BCT060WC BCT060WH BCT060WL BCT060WX BCT060WY		
HCA060FN HCA060NC HCA060ND HCA060NE HCA060NF HCA060NH HCA060NL HCA060NV HCA060NV HCA060NV HCA060NV HCA060NV HCA060WC HCA060WC HCA060WD HCA060WE HCA060WE HCA060WF HCA060WF HCA060WF HCA060WT HCA060WT HCA060WV HCA060NC HCE060ND	HCE060NE HCE060NF HCE060NH HCE060NL HCE060NV HCE060NV HCE060NV HCE060NV HCE060WC HCE060WD HCE060WE HCE060WF HCE060WH HCE060WH HCE060WV HCE060NF HCG060ND HCG060ND	HCG060NL HCG060NV HCG060NV HCG060NV HCG060NV HCG060NV HCG060WC HCG060WC HCG060WE HCG060WF HCG060WF HCG060WT HCG060WV HCG060WV HCG060WV HCG060WV HCG060WV HCG060WV HCG060WV HCH060NC HCH060ND HCH060NE HCH060NF HCH060NL HCH060NL	HCH060NV HCH060NX HCH060NY HCH060QN HCH060WC HCH060WE HCH060WF HCH060WF HCH060WI HCH060WI HCH060WV HCH060WV HCH060WV HCH060WV HCH060WV HCH060WN HCJ060NC HCJ060NC HCJ060NE HCJ060NE HCJ060NF HCJ060NI HCJ060NI HCJ060NI HCJ060NV	HCJ060NY HCJ060QN HCJ060WC HCJ060WD HCJ060WE HCJ060WF HCJ060WH HCJ060WL HCJ060WV HCJ060WV HCJ060WV HCJ060WV HCJ060WY HCK060NH HCL060FN HCL060FN HCL060FN HCL060WC HCT060NC HCT060ND HCT060NE HCT060NF HCT060NH	HCT060NT HCT060NV HCT060NX HCT060NY HCT060QC HCT060QD HCT060QE HCT060QF HCT060QH HCT060QL HCT060QV HCT060QV HCT060QV HCT060QV HCT060WC HCT060WC HCT060WF HCT060WF HCT060WF HCT060WF HCT060WH HCT060WL HCT060WL HCT060WV HCT060WV	HCT060WY HCU060FN HCU060NC HCU060ND HCU060NE HCU060NF HCU060NH HCU060NL HCU060NV HCU060NV HCU060NV HCU060NV HCU060WC HCU060WC HCU060WD HCU060WE HCU060WF HCU060WF HCU060WF HCU060WH HCU060WL HCU060WC		
PCA060NC PCA060NH PCA060NL PCA060NX PCA060NY PCA060QN PCA060WC PCA060WH	HCG060NH PCA060WL PCA060WX PCA060WY PCG060NC PCG060ND PCG060NE PCG060NF PCG060NH	PCG060NL PCG060NQ PCG060NY PCG060QN PCK060NC PCK060NH PCK060NL PCK060NX	PCK060NY PCK060QN PCK060WC PCK060WH PCK060WL PCK060WX PCK060WY PCK060WY	PCL060NQ PCL060NH PCL060NL PCL060NX PCL060NY PCL060QN PCL060WC PCL060WH PCL060WL	PCL060WX PCL060WY PCT060NC PCT060NH PCT060NL PCT060NX PCT060NY	PCT060WC PCT060WH PCT060WL PCT060WX PCT060WY		

	60 Machines							
SCA060FN	SCE060NN	SCG060WD	SCH060WV	SCK060WE	SCL060WX	SCT060WH		
SCA060NC	SCE060NT	SCG060WE	SCH060WX	SCK060WF	SCL060WY	SCT060WL		
SCA060ND	SCE060NQ	SCG060WF	SCH060WY	SCK060WH	SCT060FN	SCT060WT		
SCA060NE	SCE060NV	SCG060WH	SCJ060FN	SCK060WL	SCT060NC	SCT060WQ		
SCA060NF	SCE060NX	SCG060WL	SCJ060NN	SCK060WQ	SCT060ND	SCT060WV		
SCA060NH	SCE060NY	SCG060WT	SCJ060WC	SCK060WT	SCT060NE	SCT060WX		
SCA060NL	SCE060WC	SCG060WQ	SCJ060WD	SCK060WV	SCT060NF	SCT060WY		
SCA060NN	SCE060WD	SCG060WV	SCJ060WE	SCK060WX	SCT060NH	SCU060FN		
SCA060NT	SCE060WE	SCG060WX	SCJ060WF	SCK060WY	SCT060NL	SCU060NC		
SCA060NQ	SCE060WF	SCG060WY	SCJ060WH	SCL060FN	SCT060NN	SCU060ND		
SCA060NV	SCE060WH	SCH060FN	SCJ060WL	SCL060NC	SCT060NT	SCU060NE		
SCA060NX	SCE060WL	SCH060NC	SCJ060WQ	SCL060ND	SCT060NQ	SCU060NF		
SCA060NY	SCE060WT	SCH060ND	SCJ060WT	SCL060NE	SCT060NV	SCU060NH		
SCA060QN	SCE060WQ	SCH060NE	SCJ060WV	SCL060NF	SCT060NX	SCU060NL		
SCA060WC	SCE060WV	SCH060NF	SCJ060WX	SCL060NH	SCT060NY	SCU060NN		
SCA060WD	SCE060WX	SCH060NH	SCJ060WY	SCL060NL	SCT060QC	SCU060NT		
SCA060WE	SCE060WY	SCH060NL	SCK060FN	SCL060NN	SCT060QD	SCU060NQ		
SCA060WF	SCG060FN	SCH060NN	SCK060NC	SCL060NQ	SCT060QE	SCU060NV		
SCA060WH	SCG060NC	SCH060NQ	SCK060ND	SCL060NT	SCT060QF	SCU060NX		
SCA060WL	SCG060NX	SCH060NT	SCK060NE	SCL060NV	SCT060QH	SCU060NY		
SCA060WT	SCG060ND	SCH060NV	SCK060NF	SCL060NX	SCT060QL	SCU060WC		
SCA060WQ	SCG060NE	SCH060NX	SCK060NH	SCL060NY	SCT060QN	SCU060WD		
SCA060WV	SCG060NF	SCH060NY	SCK060NL	SCL060WC	SCT060QQ	SCU060WE		
SCA060WX	SCG060NH	SCH060WC	SCK060NN	SCL060WD	SCT060QT	SCU060WF		
SCA060WY	SCG060NL	SCH060WD	SCK060NQ	SCL060WE	SCT060QV	SCU060WH		
SCE060FN	SCG060NN	SCH060WE	SCK060NT	SCL060WF	SCT060QX	SCU060WL		
SCE060NC	SCG060NT	SCH060WF	SCK060NV	SCL060WH	SCT060QY	SCU060WT		
SCE060ND	SCG060NQ	SCH060WH	SCK060NX	SCL060WL	SCT060WC	SCU060WQ		
SCE060NE	SCG060NV	SCH060WL	SCK060NY	SCL060WQ	SCT060WD	SCU060WV		
SCE060NF	SCG060NY	SCH060WQ	SCK060WC	SCL060WT	SCT060WE	SCU060WX		
SCE060NH	SCG060QN	SCH060WT	SCK060WD	SCL060WV	SCT060WF	SCU060WY		
SCE060NL	SCG060WC							
UCA060FN	UCE060FN	UCG060QN	UCH060QN	UCJ060QN	UCT060FN	UCU060FN		
UCA060NN	UCG060FN	UCH060FN	UCJ060FN	UCK060NN	UCT060NN	UCU060NN		
UCA060QN	UCG060NN	UCH060NN	UCJ060NN	UCK060QN	UCT060QN	UCU060QN		
CH060E-A	CH060F-A	CH060M-A	CH060N-A	CH060S-A	СН060Т-А			

	80 Machines							
DCJ080NC DCJ080ND DCJ080NE DCJ080NF	DCJ080NH DCJ080NL DCJ080NQ DCJ080NT	DCJ080NV DCJ080NX DCJ080NY DCJ080WC	DCJ080WD DCJ080WE DCJ080WF DCJ080WH	DCJ080WL DCJ080WQ DCJ080WT DCJ080WV	DCJ080WX	DCJ080WY		
BCA080NC BCA080NH BCA080NL BCA080NX BCA080NY BCA080QN BCA080WC BCA080WH	BCA080WL BCA080WX BCA080WY BCG080NC BCG080ND BCG080NE BCG080NF BCG080NH	BCG080NL BCG080NQ BCG080NY BCG080QN BCK080NC BCK080NH BCK080NL BCK080NX	BCK080NY BCK080QN BCK080WC BCK080WH BCK080WL BCK080WX BCK080WY BCL080NC	BCL080NH BCL080NL BCL080NX BCL080NY BCL080QN BCL080WC BCL080WH BCL080WL	BCL080WX BCL080WY BCT080NC BCT080NH BCT080NL BCT080NX BCT080NY BCT080QN	BCT080WC BCT080WH BCT080WL BCT080WX BCT080WY		
HCA080FN HCA080NC HCA080ND HCA080NE HCA080NF HCA080NH HCA080NL HCA080NV HCA080NV HCA080NV HCA080NV HCA080NV HCA080WC HCA080WC HCA080WD HCA080WE HCA080WF HCA080WF HCA080WH HCA080WL HCA080WT HCA080WV HCA080WV HCA080WV HCA080WV	HCA080WY HCG080FN HCG080NC HCG080ND HCG080NE HCG080NF HCG080NH HCG080NL HCG080NV HCG080NV HCG080NV HCG080NV HCG080NV HCG080WC HCG080WD HCG080WD HCG080WE HCG080WF HCG080WH HCG080WL HCG080WT HCG080WT HCG080WV	HCG080WX HCG080WY HCH080FN HCH080NC HCH080ND HCH080NF HCH080NF HCH080NL HCH080NL HCH080NV HCH080NV HCH080NV HCH080NV HCH080WC HCH080WC HCH080WD HCH080WF HCH080WF HCH080WF HCH080WH HCH080WL HCH080WL	HCH080WT HCH080WV HCH080WX HCH080WY HCJ080FN HCJ080NC HCJ080ND HCJ080NF HCJ080NF HCJ080NL HCJ080NL HCJ080NV HCJ080NV HCJ080NV HCJ080NV HCJ080WC HCJ080WC HCJ080WD HCJ080WF HCJ080WF HCJ080WF	HCJ080WL HCJ080WQ HCJ080WT HCJ080WV HCJ080WX HCJ080WY HCK080NH HCT080FN HCT080NC HCT080NE HCT080NF HCT080NH HCT080NH HCT080NL HCT080NL HCT080NV HCT080NV HCT080NV HCT080NV HCT080NY HCT080NY HCT080QC HCT080QD HCT080QE	HCT080QF HCT080QH HCT080QL HCT080QN HCT080QQ HCT080QV HCT080QX HCT080QY HCT080WC HCT080WD HCT080WE HCT080WF HCT080WF HCT080WH HCT080WL HCT080WL HCT080WV HCT080WV HCT080WV HCT080WV HCT080WV HCT080WV HCT080WX HCT080WX HCT080WY HCU080FN HCU080NC	HCU080ND HCU080NE HCU080NF HCU080NH HCU080NL HCU080NV HCU080NV HCU080NV HCU080NY HCU080WC HCU080WD HCU080WE HCU080WF HCU080WH HCU080WH HCU080WL HCU080WL HCU080WV HCU080WV HCU080WV HCU080WV HCU080WV HCU080WV HCU080WV		
PCA080NC PCA080NH PCA080NL PCA080NX PCA080NY PCA080QN PCA080WC PCA080WH	PCA080WL PCA080WX PCA080WY PCG080NC PCG080ND PCG080NE PCG080NF PCG080NH	PCG080NL PCG080NQ PCG080NY PCG080QN PCK080NC PCK080NH PCK080NL PCK080NX	PCK080NY PCK080QN PCK080WC PCK080WH PCK080WL PCK080WX PCK080WY PCL080NC	PCL080NH PCL080NL PCL080NX PCL080NY PCL080QN PCL080WC PCL080WH PCL080WL	PCL080WX PCL080WY PCT080NC PCT080NH PCT080NL PCT080NX PCT080NY PCT080QN	PCT080WC PCT080WH PCT080WL PCT080WX PCT080WY		

80 Machines								
SCA080FN	SCG080NH	SCH080FN	SCJ080FN	SCK080NX	SCT080NX	SCT080WY		
SCA080NC	SCG080NL	SCH080NC	SCJ080NN	SCK080NY	SCT080NY	SCU080FN		
SCA080ND	SCG080NN	SCH080ND	SCJ080WC	SCK080WC	SCT080QC	SCU080NC		
SCA080NE	SCG080NT	SCH080NE	SCJ080WD	SCK080WD	SCT080QD	SCU080ND		
SCA080NF	SCG080NQ	SCH080NF	SCJ080WE	SCK080WE	SCT080QE	SCU080NE		
SCA080NH	SCG080FN	SCH080NH	SCJ080WF	SCK080WF	SCT080QF	SCU080NF		
SCA080NL	SCG080NC	SCH080NL	SCJ080WH	SCK080WH	SCT080QH	SCU080NH		
SCA080NN	SCG080ND	SCH080NN	SCJ080WL	SCK080WL	SCT080QL	SCU080NL		
SCA080NT	SCG080NE	SCH080NQ	SCJ080WQ	SCK080WQ	SCT080QN	SCU080NN		
SCA080NQ	SCG080NF	SCH080NT	SCJ080WT	SCK080WT	SCT080QQ	SCU080NT		
SCA080NV	SCG080NV	SCH080NV	SCJ080WV	SCK080WV	SCT080QT	SCU080NQ		
SCA080NX	SCG080NX	SCH080NX	SCJ080WX	SCK080WX	SCT080QV	SCU080NV		
SCA080NY	SCG080NY	SCH080NY	SCJ080WY	SCK080WY	SCT080QX	SCU080NX		
SCA080QN	SCG080QN	SCH080WC	SCK080FN	SCT080FN	SCT080QY	SCU080NY		
SCA080WC	SCG080WC	SCH080WD	SCK080NC	SCT080NC	SCT080WC	SCU080WC		
SCA080WD	SCG080WD	SCH080WE	SCK080ND	SCT080ND	SCT080WD	SCU080WD		
SCA080WE	SCG080WE	SCH080WF	SCK080NE	SCT080NE	SCT080WE	SCU080WE		
SCA080WF	SCG080WF	SCH080WH	SCK080NF	SCT080NF	SCT080WF	SCU080WF		
SCA080WH	SCG080WH	SCH080WL	SCK080NH	SCT080NH	SCT080WH	SCU080WH		
SCA080WL	SCG080WL	SCH080WQ	SCK080NL	SCT080NL	SCT080WL	SCU080WL		
SCA080WT	SCG080WT	SCH080WT	SCK080NN	SCT080NN	SCT080WT	SCU080WT		
SCA080WQ	SCG080WQ	SCH080WV	SCK080NQ	SCT080NT	SCT080WQ	SCU080WQ		
SCA080WV	SCG080WV	SCH080WX	SCK080NT	SCT080NQ	SCT080WV	SCU080WV		
SCA080WX	SCG080WX	SCH080WY	SCK080NV	SCT080NV	SCT080WX	SCU080WX		
SCA080WY	SCG080WY					SCU080WY		
UCA080FN	UCG080FN	UCH080FN	UCJ080FN	UCK080NN	UCT080NN	UCU080NN		
UCA080NN	UCG080NN	UCH080NN	UCJ080NN	UCK080QN	UCT080QN	UCU080QN		
UCA080QN	UCG080QN	UCH080QN	UCJ080QN	UCT080FN	UCU080FN			
CH080E-A	CH080F-A	CH080M-A	CH080N-A	CH080S-A	CH080T-A			

			100 Machines	3		
DCJ100NC DCJ100ND DCJ100NE DCJ100NF	DCJ100NH DCJ100NL DCJ100NQ DCJ100NT	DCJ100NV DCJ100NX DCJ100NY DCJ100WC	DCJ100WD DCJ100WE DCJ100WF DCJ100WH	DCJ100WL DCJ100WQ DCJ100WT DCJ100WV	DCJ100WX	DCJ100WY
BCA100NC BCA100NH BCA100NL BCA100NX BCA100NY BCA100QN BCA100QN BCA100WC BCA100WH	BCA100WL BCA100WX BCA100WY BCG100NC BCG100ND BCG100NE BCG100NF BCG100NH	BCG100NL BCG100NQ BCG100NY BCG100QN BCK100NC BCK100NH BCK100NL BCK100NX	BCK100NY BCK100QN BCK100WC BCK100WH BCK100WL BCK100WX BCK100WY BCK100WY	BCL100NH BCL100NL BCL100NX BCL100NY BCL100QN BCL100WC BCL100WH BCL100WL	BCL100WX BCL100WY BCT100NC BCT100NH BCT100NL BCT100NX BCT100NY BCT100NY	BCT100WC BCT100WH BCT100WL BCT100WX BCT100WY
HCA100FN HCA100NC HCA100ND HCA100NE HCA100NF HCA100NH HCA100NL HCA100NV HCA100NV HCA100NV HCA100NV HCA100WC HCA100WC HCA100WC HCA100WD HCA100WE HCA100WF HCA100WF HCA100WH HCA100WL HCA100WT HCA100WV HCA100WV HCA100WV HCA100WV	HCA100WY HCG100FN HCG100NC HCG100ND HCG100NE HCG100NF HCG100NH HCG100NL HCG100NV HCG100NV HCG100NV HCG100NV HCG100NV HCG100WC HCG100WD HCG100WD HCG100WE HCG100WF HCG100WH HCG100WL HCG100WT HCG100WT HCG100WT	HCG100WX HCG100WY HCH100FN HCH100NC HCH100ND HCH100NF HCH100NF HCH100NH HCH100NL HCH100NV HCH100NV HCH100NV HCH100NY HCH100WC HCH100WC HCH100WC HCH100WF HCH100WF HCH100WF HCH100WH HCH100WL HCH100WL	HCH100WT HCH100WV HCH100WX HCH100WY HCJ100FN HCJ100NC HCJ100ND HCJ100NF HCJ100NF HCJ100NT HCJ100NV HCJ100NV HCJ100NV HCJ100NV HCJ100NV HCJ100NY HCJ100WC HCJ100WC HCJ100WD HCJ100WE HCJ100WF HCJ100WF	HCJ100WL HCJ100WQ HCJ100WT HCJ100WV HCJ100WX HCJ100WY HCK100NH HCT100FN HCT100NC HCT100NE HCT100NF HCT100NH HCT100NH HCT100NL HCT100NL HCT100NV HCT100NV HCT100NY HCT100NY HCT100QC HCT100QD HCT100QE	HCT100QF HCT100QH HCT100QL HCT100QN HCT100QQ HCT100QY HCT100QX HCT100QY HCT100WC HCT100WD HCT100WF HCT100WF HCT100WF HCT100WH HCT100WL HCT100WU HCT100WV HCT100WV HCT100WV HCT100WV HCT100WY HCT100WY HCT100WY HCT100WY HCU100FN HCU100NC	HCU100ND HCU100NE HCU100NF HCU100NH HCU100NL HCU100NT HCU100NV HCU100NY HCU100NY HCU100WC HCU100WC HCU100WD HCU100WF HCU100WF HCU100WH HCU100WL HCU100WQ HCU100WT HCU100WV HCU100WV HCU100WV HCU100WY HCU100WY
PCA100NC PCA100NH PCA100NL PCA100NX PCA100NY PCA100QN PCA100WC PCA100WH	PCA100WL PCA100WX PCA100WY PCG100NC PCG100ND PCG100NE PCG100NF PCG100NH	PCG100NL PCG100NQ PCG100NY PCG100QN PCK100NC PCK100NH PCK100NL PCK100NX	PCK100NY PCK100QN PCK100WC PCK100WH PCK100WL PCK100WX PCK100WY PCK100NC	PCL100NH PCL100NL PCL100NX PCL100NY PCL100QN PCL100WC PCL100WH PCL100WL	PCL100WX PCL100WY PCT100NC PCT100NH PCT100NL PCT100NX PCT100NY	PCT100WC PCT100WH PCT100WL PCT100WX PCT100WY

			100 Machine	s		
SCA100FN	SCG100FN	SCH100FN	SCJ100FN	SCK100NX	SCT100NX	SCT100WY
SCA100NC	SCG100NC	SCH100NC	SCJ100NN	SCK100NY	SCT100NY	SCU100FN
SCA100ND	SCG100ND	SCH100ND	SCJ100WC	SCK100WC	SCT100QC	SCU100NC
SCA100NE	SCG100NE	SCH100NE	SCJ100WD	SCK100WD	SCT100QD	SCU100ND
SCA100NF	SCG100NF	SCH100NF	SCJ100WE	SCK100WE	SCT100QE	SCU100NE
SCA100NH	SCG100NH	SCH100NH	SCJ100WF	SCK100WF	SCT100QF	SCU100NF
SCA100NL	SCG100NL	SCH100NL	SCJ100WH	SCK100WH	SCT100QH	SCU100NH
SCA100NN	SCG100NN	SCH100NN	SCJ100WL	SCK100WL	SCT100QL	SCU100NL
SCA100NT	SCG100NT	SCH100NQ	SCJ100WQ	SCK100WQ	SCT100QN	SCU100NN
SCA100NQ	SCG100NQ	SCH100NT	SCJ100WT	SCK100WT	SCT100QQ	SCU100NT
SCA100NV	SCG100NV	SCH100NV	SCJ100WV	SCK100WV	SCT100QT	SCU100NQ
SCA100NX	SCG100NX	SCH100NX	SCJ100WX	SCK100WX	SCT100QV	SCU100NV
SCA100NY	SCG100NY	SCH100NY	SCJ100WY	SCK100WY	SCT100QX	SCU100NX
SCA100QN	SCG100QN	SCH100WC	SCK100FN	SCT100FN	SCT100QY	SCU100NY
SCA100WC	SCG100WC	SCH100WD	SCK100NC	SCT100NC	SCT100WC	SCU100WC
SCA100WD	SCG100WD	SCH100WE	SCK100ND	SCT100ND	SCT100WD	SCU100WD
SCA100WE	SCG100WE	SCH100WF	SCK100NE	SCT100NE	SCT100WE	SCU100WE
SCA100WF	SCG100WF	SCH100WH	SCK100NF	SCT100NF	SCT100WF	SCU100WF
SCA100WH	SCG100WH	SCH100WL	SCK100NH	SCT100NH	SCT100WH	SCU100WH
SCA100WL	SCG100WL	SCH100WQ	SCK100NL	SCT100NL	SCT100WL	SCU100WL
SCA100WT	SCG100WT	SCH100WT	SCK100NN	SCT100NN	SCT100WT	SCU100WT
SCA100WQ	SCG100WQ	SCH100WV	SCK100NQ	SCT100NT	SCT100WQ	SCU100WQ
SCA100WV	SCG100WV	SCH100WX	SCK100NT	SCT100NQ	SCT100WV	SCU100WV
SCA100WX	SCG100WX	SCH100WY	SCK100NV	SCT100NV	SCT100WX	SCU100WX
SCA100WY	SCG100WY					SCU100WY
UCA100FN	UCG100FN	UCH100FN	UCJ100FN	UCK100NN	UCT100NN	UCU100NN
UCA100NN	UCG100NN	UCH100NN	UCJ100NN	UCK100QN	UCT100QN	UCU100QN
UCA100QN	UCG100QN	UCH100QN	UCJ100QN	UCT100FN	UCU100FN	
CH100E-A	CH100F-A	CH100M-A	CH100N-A	CH100S-A	CH100T-A	

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 $Figure\ I$.

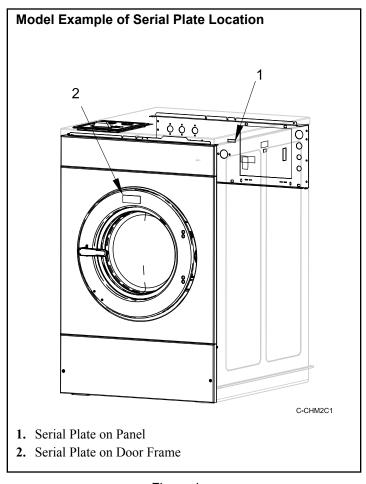


Figure 1

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

Specification	20	30	40	60	80	100
Overall Dimensions				·L	·L	· ·
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	tion	•	•	•	•	
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 [1]	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...

Specif	ication	20	30	40	60	80	100
Power Consum	nption	<u>I</u>			_1	_1	<u> </u>
Average power kW-hr. (X-volta models)		0.09	0.12	0.16	0.21	0.27	0.30
Estimated Buil	ding Heat Load		•	•	•		
HVAC load		Use 5% of to	tal energy used p	er cycle.			
Drive Train In	formation						
Number of moto train	ors in drive	1	1	1	1	1	1
Drive motor po	wer, hp [kW]	1 [0.75]	1 [0.75]	2 [1.5]	3 [2.25]	5 [3.75]	5 [3.75]
Cylinder Speed	ls						
Gentle wash/rev	verse, RPM [G]	37 [0.4]	34 [0.4]	33 [0.4]	31 [0.4]	28 [0.4]	28 [0.4]
Wash/reverse, F	RPM [G]	51 [0.8]	48 [0.8]	46 [0.8]	43 [0.8]	39 [0.8]	39 [0.8]
Distribution, RI	PM [G]	92 [2.5]	86 [2.5]	82 [2.5]	77 [2.5]	70 [2.5]	70 [2.5]
Very low extrac	t, RPM [G]	301 [27]	282 [27]	269 [27]	252 [27]	230 [27]	230 [27]
Low extract, RI	PM [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, R	PM [G]	648 [125]	606 [125]	579 [125]	542 [125]	495 [125]	495 [125]
Very high extra	ct, RPM [G]	710 [150]	664 [150]	635 [150]	594 [150]	542 [150]	542 [150]
Ultra high extra	ct, RPM [G]	819 [200]	766 [200]	733 [200]	686 [200]	626 [200]	568 [165]
Direct Steam F	Ieating (Option	al)					
Steam inlet con (NPT)	nection size, in.	N/A	N/A	1/2	1/2	1/2	1/2
Number of stea	m inlets	N/A	N/A	1	1	1	1
Maximum press	sure, psi [kPa]	N/A	N/A	85 [570]	85 [570]	85 [570]	85 [570]
Required pressu psi [kPa])	nre, (min max.	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 re-	LOW	N/A	N/A	2.09 [0.94]	3.80 [1.63]	3.80 [1.72]	3.80 [1.72]
quired to raise bath water	MED	N/A	N/A	2.40 [1.09]	4.65 [2.11]	4.65 [2.11]	5.49 [2.49]
temperature 10°F/lbs. [10°C/kg]	HIGH	N/A	N/A	2.84 [1.29]	5.79 [2.63]	5.79 [2.63]	6.84 [3.10]
Average consuncte, BHP [kgf n		N/A	N/A	0.78 [59]	0.98 [75]	1.34 [102]	1.58 [120]

Table 1 continues...

Specif	ication	20	30	40	60	80	100
Electrical Heat	ting (Optional)						I
Total electrical	200V	5.4	5.4	10.8	10.8	19.1	19.1
heating ca- pacity, kW	240V	7.8	7.8	15.6	15.6	27.4	27.4
r · · · · · · · · · · · · · · · · · · ·	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 6 kW	element size,	2.6	2.6	2.6	2.6	4.2	4.2
Time required	LOW	1.690	2.545	1.792	2.648	2.101	2.436
to raise bath temperature,	MED	2.048	3.119	2.187	2.902	2.268	2.843
minutes per 10°F [5.5°C]	HIGH	2.368	3.693	2.394	3.269	2.643	3.031
Noise Emission	18	•	•		•	<u> </u>	•
dBA	Wash	58	58	58	58	60	64
	Extract (100G)	56	56	58	60	67	69
	Extract (200G)	61	65	65	65	73	73

Table 1

Machine Dimensions

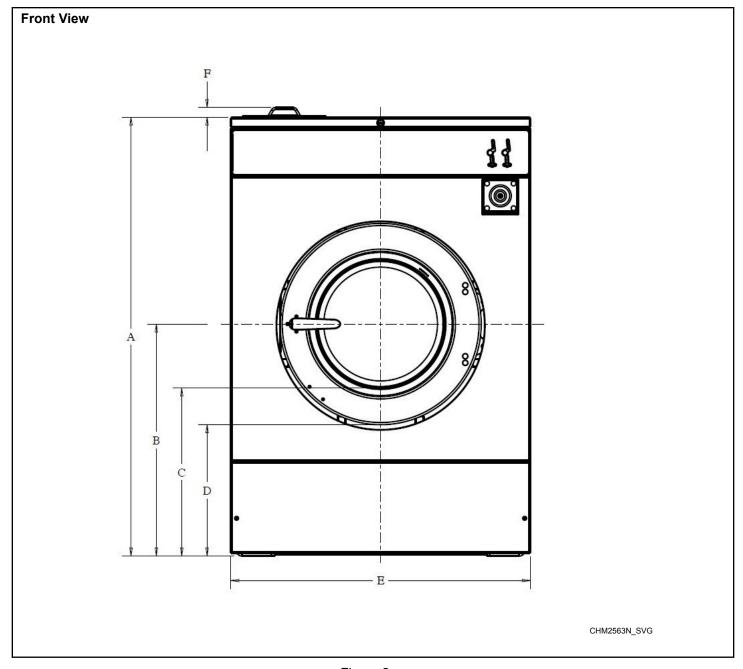


Figure 2

	Machine Dimensions, in. [mm]									
Specifica- tion	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]				
В	23.0 [584]	24.0 [610]	26.0 [660]	26.4 [671]	30.9 [785]	30.9 [785]				
С	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

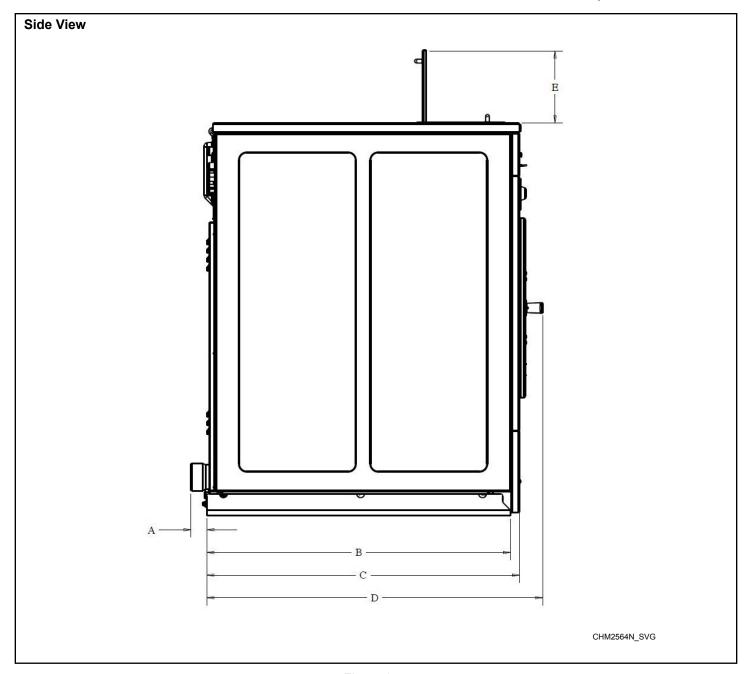


Figure 3

	Machine Dimensions, in. [mm]									
Specifica- tion	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]				
В	26.8 [681]	31.5 [800]	35.5 [902]	38.6 [980]	39.2 [996]	39.2 [996]				
С	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

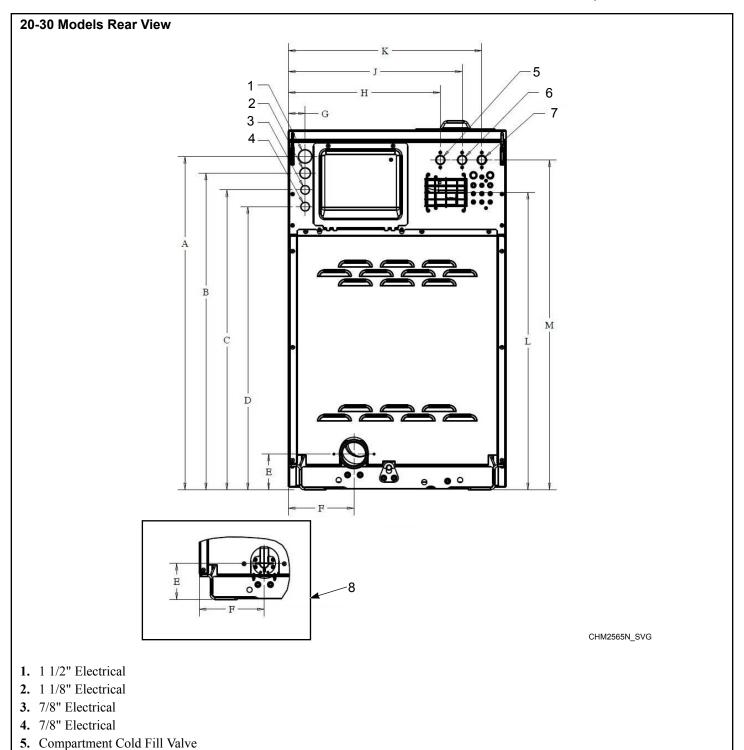


Figure 4

6. Compartment Hot Fill Valve

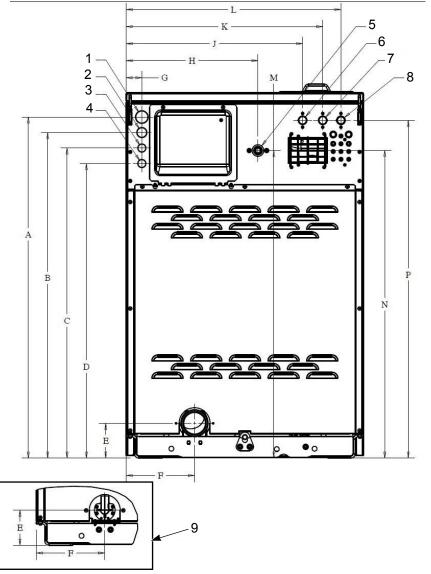
8. Pump Drain View

7. Cold Hard Water Valve or 3rd Water Inlet

	Machine Dimensions, in. [mm]							
Specification	20	30						
A	39.8 [1011]	41.8 [1062]						
В	37.8 [960]	39.8 [1011]						
С	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]						
Н	18.1 [460]	21.1 [536]						
J	20.7 [526]	23.7 [602]						
К	23.1 [587]	26.1 [663]						
L	39.4 [1001]	41.4 [1052]						
M	35.6 [904]	37.5 [953]						

Table 4

40 Models Rear View



CHM2566N_SVG

- 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

Machine Di	mensions, in. [mm]
Specification	40
A	44.0 [1118]
В	42.0 [1067]
С	40.3 [1024]
D	38.0 [965]
E	4.5 [114]
F	8.8 [224]
G	17.0 [432]
Н	2.0 [51]
J	22.8 [579]
K	25.4 [645]
L	27.7 [704]
M	39.7 [1008]
N	43.6 [1107]
P	43.5 [1105]

Table 5

60-100 Models Rear View 3 В C D

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

	Machine Dimensions, in. [mm]								
Specification	60	80	100						
A	46.7 [1186]	54.0 [1372]	54.0 [1372]						
В	44.7 [1135]	52.0 [1321]	52.0 [1321]						
С	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]						
Н	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

Mounting Bolt Hole Locations - 20 and 30 Models

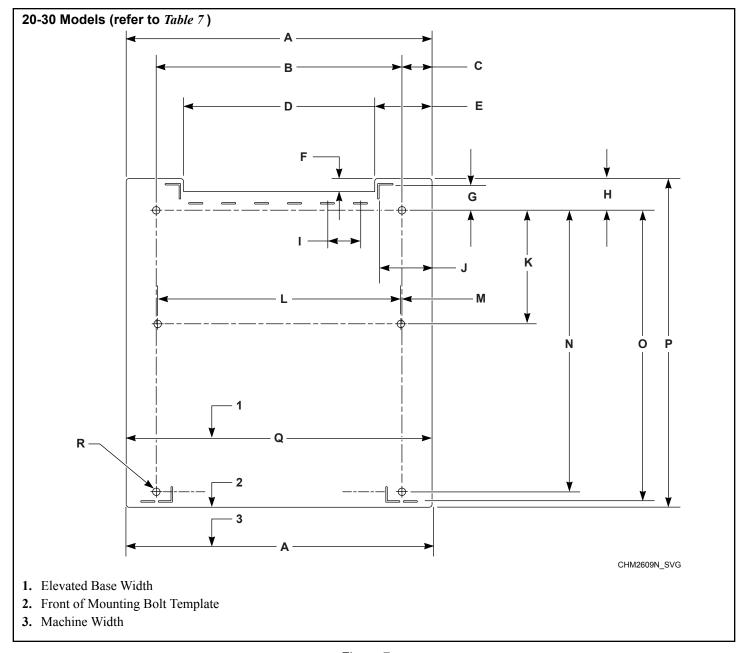


Figure 7

	Mounting Bolt Hole Locations – 20 and 30 Models, in. [mm]			
Specification	20	30		
A	26 [660]	29 [737]		
В	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]		
Н	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]		
0	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

Mounting Bolt Hole Locations - 40 and 60 Models

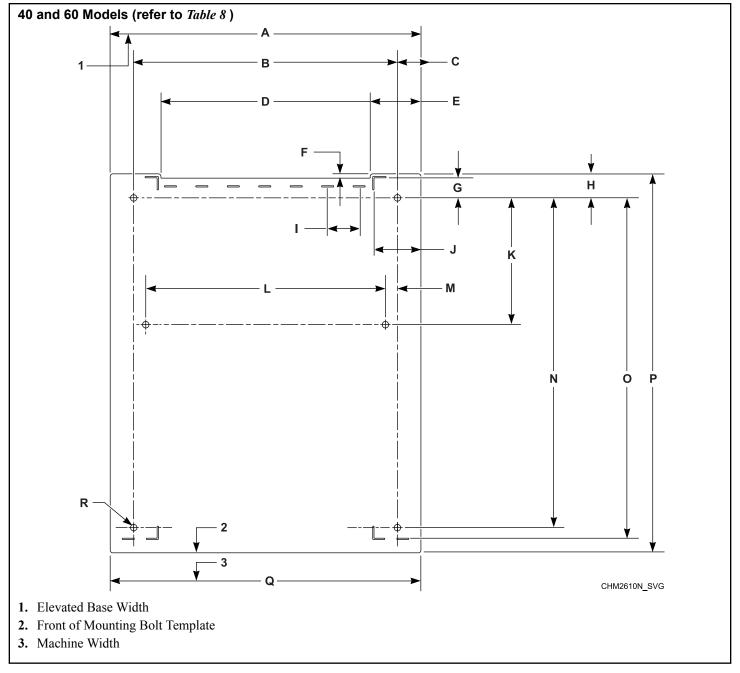
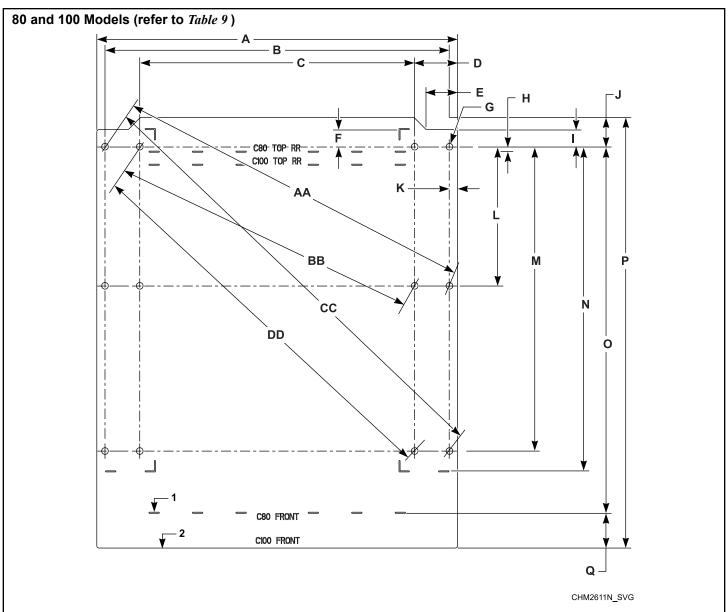


Figure 8

	Mounting Bolt Hole Locations - 40 and 60 Models, in. [mm]			
Specification	40	60		
A	30.63 [778]	34.06 [865]		
В	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]		
Н	2.37 [60]	2.37 [60]		
I	3.1 [79]	3.28 [83]		
J	4.63 [118]	4.96 [126]		
К	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]		
0	33.54 [852]	36.87 [699]		
P	37.36 [949]	40.7 [1034]		
Q	30.6 [777]	34.1 [866]		
R	0.641 [16]	0.641 [16]		

Table 8

Mounting Bolt Hole Locations - 80 and 100 Models



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

	Mounting Bolt Hole Locations – 80 and 100 Models, in. [mm]				
Specification		80	100		
A		41.5 [1054]	41.5 [1054]		
В		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]		
Н		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

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.



WARNING

To reduce the risk of fire, serious injury, property damage and/or death, install the machine on a level (within 3/8 inch), uncovered concrete floor of sufficient strength at grade.

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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 20*. 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*.

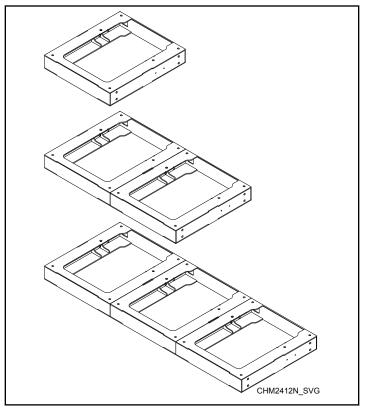


Figure 10

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*.

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.

	Elevated Pad, in. [mm]				
	Description	20-3 0	40-6 0 (F- sp ee d)	40-6 0 (V- sp ee d)	80-1 00
A	Height of elevated pad above floor (maximum)	8 [203]	8 [203]	8 [203]	8 [203]
В	Distance between reinforcing bars (maximum)	12 [305]	12 [305]	12 [305]	12 [305]
С	Length of rein- forcing bar ex- tending into exist- ing floor (mini- mum)	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]

Table 11 continues...

	Elevated Pad, in. [mm]				
	Description	20-3 0	40-6 0 (F- sp ee d)	40-6 0 (V- sp ee d)	80-1 00
E	Required thick- ness of existing floor (minimum)	4 [102]	4 [102]	6 [152]	6 [152]

Table 11

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 11* 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.
- 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

- 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 23* and *Table 24*.
- 14. Proceed to Machine Mounting and Grouting.

Floor Layout and Pad Dimensions

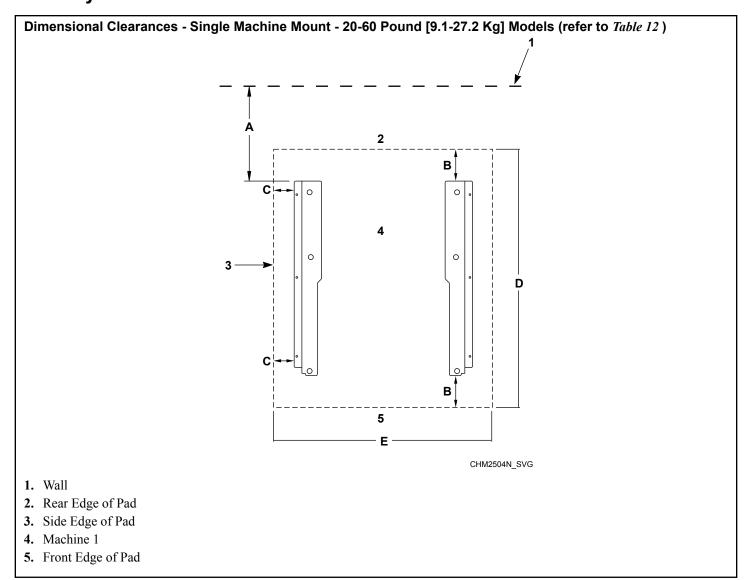


Figure 11

	Dimensional Clearances - Single Machine Mount - 20-60 Pound [9.1-27.2 Kg] Models, in. [mm]				
Description 20 30 40 6				60	
A	Distance to wall (minimum)	24 [610]	24 [610]	24 [610]	24 [610]

Table 12 continues...

	Dimensional Clearances - Single Machine Mount - 20-60 Pound [9.1-27.2 Kg] Models, in. [mm]				
	Description 20 30 40 60				60
В	Distance of machine base to edge of pad (minimum)	3.44 [87]	4 [102]	3.99 [101]	5.99 [152]
С	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]
E	Width of pad (minimum)	31.4 [798]	34.4 [874]	36.5 [927]	44.8 [1138]

Table 12

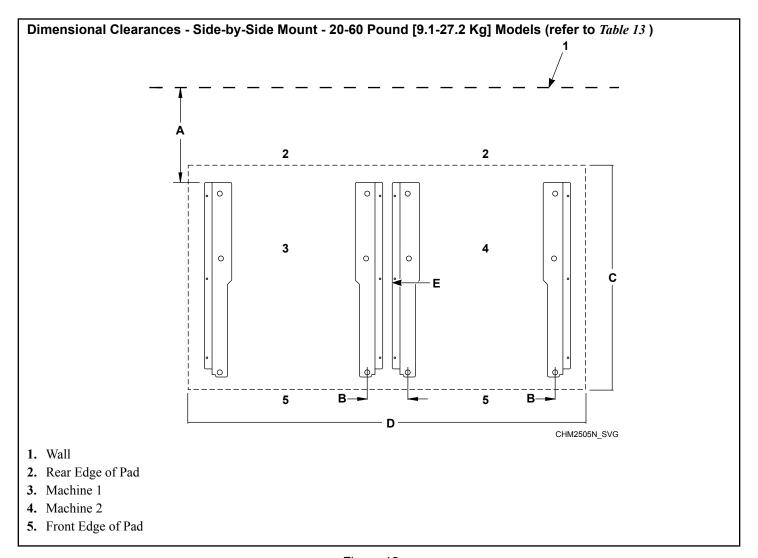
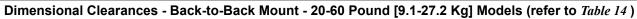
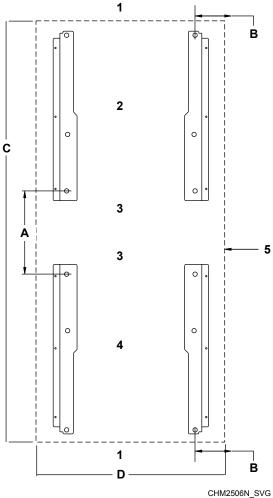


Figure 12

	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]
В	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]
С	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 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			60		
A	Adjacent rear bolt spacing (minimum)	28.3 [719]	27.6 [702]	28.0 [710]	27.5 [699]
В	Distance from front bolt to edge of pad (minimum)	5.26 [134]	5.26 [134]	6.19 [157]	8.9 [226]
С	Length of pad (minimum)	88.63 [2251]	98.37 [2499]	115.23 [2927]	119.48 [3035]

Table 14 continues...

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 14

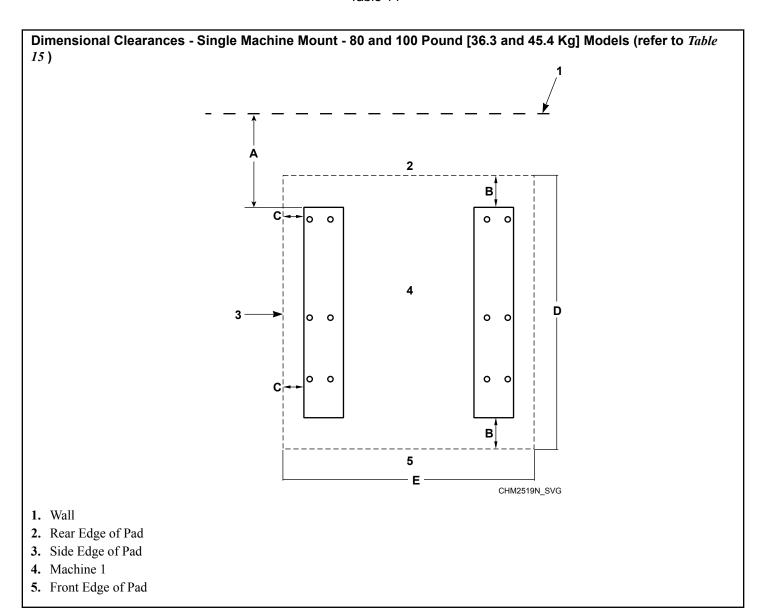


Figure 14

Installation

	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]			
В	Distance of machine base to edge of pad (minimum)	4.98 [126]			
С	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 15

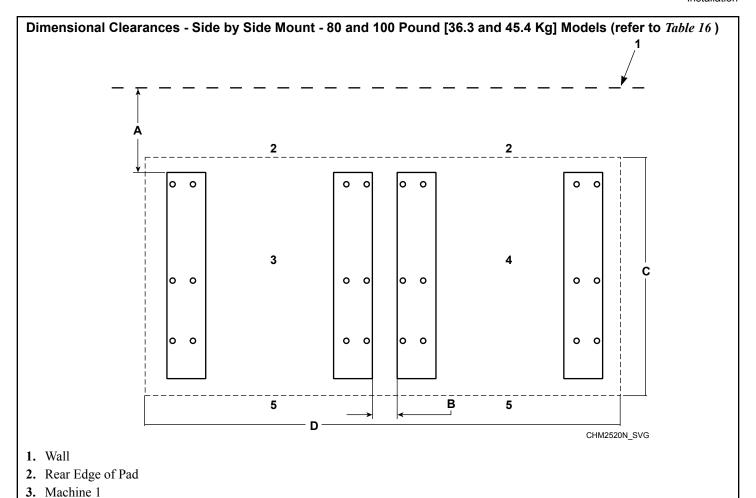


Figure 15

	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]		
В	Adjacent unit spacing (minimum)	6 [152]		
С	Length of pad (minimum)	49.2 [1250]		
D	Width of pad (minimum)	99.5 [2527]		

Table 16

4. Machine 2

5. Front Edge of Pad

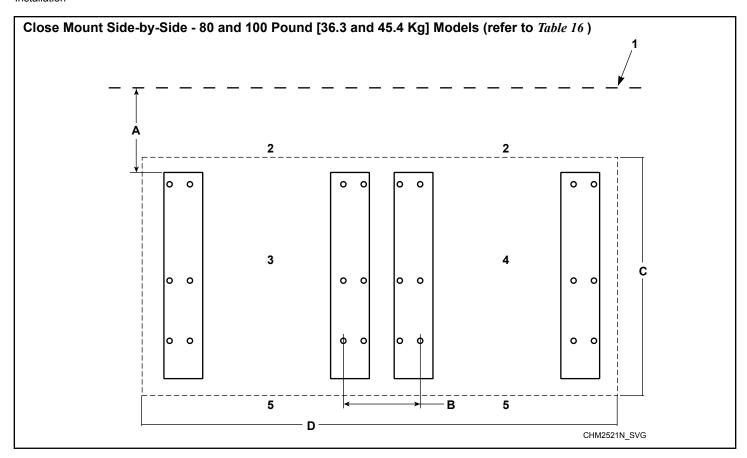
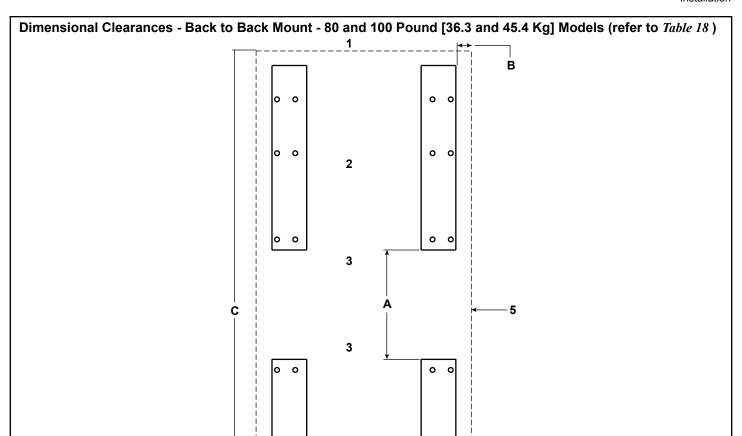


Figure 16

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]				
В	Adjacent unit bolt spacing (minimum)	10.38 [264]				
С	Length of pad (minimum)	49.2 [1250]				
D	D Width of pad (minimum) 99.5 [2527]					
IMPORTANT: When close mounting, bolt machine using inside bolt holes.						

Table 17



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- 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 18 continues...

Installation

Back-to-Back Mount - 80 and 100 Pound [36.3 and 45.4 Kg] Models, in. [mm]						
	Description	80-100				
В	Distance of machine base to edge of pad (minimum)	8 [203]				
С	Length of pad (minimum)	130.56 [3316]				
D	Width of pad (minimum)	51.5 [1308]				
E	Distance from front bolt to edge of pad (minimum)	8.94 [227]				

Table 18

Pad Thickness Requirements, in. [mm]							
Specification		20 30		40	60	80-100	
Minimum Foun-	F-speed	4 [102]	4 [102]	4 [102]	4 [102]	6 [152]	
dation Thickness	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 19

Foundation Requirements

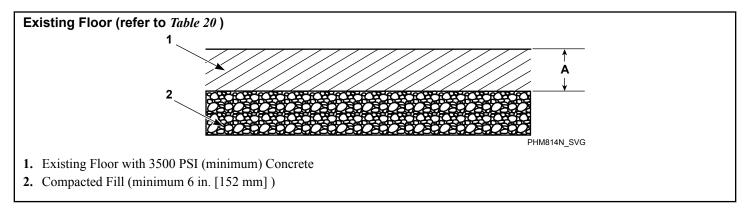


Figure 18

	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 20

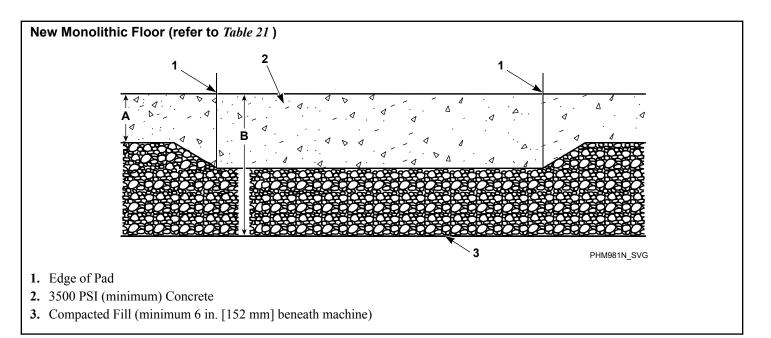
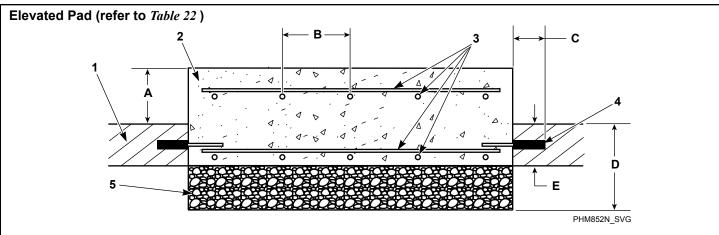


Figure 19

Installation

	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]	9 [229]		
В	Total depth of foundation (concrete plus 6 in. [152 mm] fill) (minimum)	10 [254]	10 [254]	12 [305]	15 [381]		

Table 21

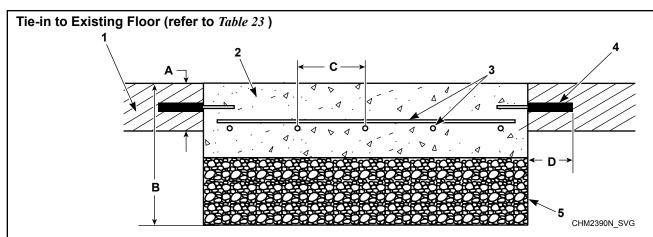


- 1. Existing Floor
- 2. 3500 PSI (minimum) Concrete
- 3. Reinforcing Bar
- 4. Perimeter Reinforcing Bar
- 5. Compacted Fill (minimum 6 in. [152 mm])

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]		
В	Distance between reinforcing bars (maximum)	12 [305]	12 [305]	12 [305]	12 [305]		
С	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)	10 [254]	10 [254]	12 [305]	15 [381]		
E	Required thickness of existing floor (minimum)	4 [102]	4 [102]	6 [152]	9 [229]		

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]	9 [229]		
В	Total depth of foundation (concrete plus 6 in. [152 mm] fill) (minimum)	10 [254]	10 [254]	12 [305]	15 [381]		
С	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 23

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 24* 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.
- Fill half the hole depth with an industry-accepted adhesive anchoring system.
- 5. Insert anchor bolt until it reaches the bottom. Refer to *Table 24*.
- 6. Ensure all air pockets are removed from adhesive surrounding the holt
- 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.

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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

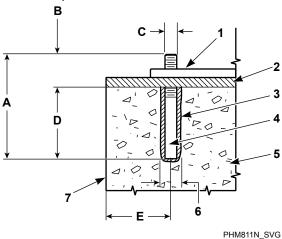
19. After the grout is completely cured, torque the locknuts to 150 ± 15 ft.-lbs. – one after the other – until all are tightened evenly and the machine is fastened securely to the floor.

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.

Acrylic Adhesive Anchors (refer to Table 24)

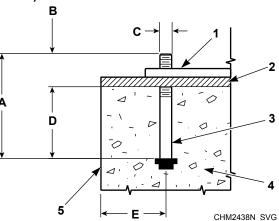


NOTE: *Available for purchase through the distributor. If not purchasing from a distributor, procure acrylic adhesive rated for commercial-grade vibratory machine installations.

- 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 24)



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

Figure 23

	Minimum Anchoring Specifications, in. [mm]							
	Description	20	30	40	60	80	100	
Numbe	er of Bolts	4 or 6*	4 or 6*	4 or 6*	6	6	6	
A	Bolt Length	6 [152]	6 [152]	6 [152]	6 [152]	8-3/4 [216]	8-3/4 [216]	
В	Thread Extension	2-1/2 [64]	2-1/2 [64]	2-1/2 [64]	2-1/2 [64]	2-3/4 [70]	2-3/4 [70]	
С	Bolt Diameter	5/8 [16]	5/8 [16]	5/8 [16]	5/8 [16]	3/4 [19]	3/4 [19]	
D	Embedment Depth	3-1/2 [89]	3-1/2 [89]	3-1/2 [89]	3-1/2 [89]	6 [152]	6 [152]	
E	Distance from Bolt Center to Edge of Concrete Pad	5.26 [134]	5.26 [134]	6.19 [157]	8.9 [226]	8.94 [227]	8.94 [227]	

^{*} 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 24

Floor Load Data							
Specif	fication	20	30	40	60	80	100
Static floor load	d, lbs. [kN]	430 [1.91]	550 [2.45]	690 [3.07]	920 [4.09]	1590 [7.07]	1690 [7.51]
Static pressure,	lbsft ² [kN-m	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 ft2 [kN-m ²]	pressure, lbs	96 [4.60]	109 [5.22]	119 [5.70]	143 [6.85]	149 [7.13]	149 [7.13]
Dynamic load	F-speed	9.7	9.0	8.6	8.1	7.4	7.4
frequency, Hz	V-speed	13.7	12.8	12.2	11.4	10.4	9.5
Maximum moment about machine base, lbsft. [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 25

5. Strainer6. Waste Line

7. 1 in. [25 mm] minimum gap

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.

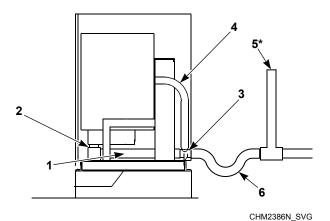
Use the supplied black rubber adapter and clamps to transition from the machine drain outlet to the 3 inches [76 mm] schedule 40 PVC plumbing.

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

Figure 24

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						
20	30	40	60	80	100	
3 *	3 *	3 *	3 *	3 *	3 *	
1-1/2	2-1/4	2-1/4	2-1/4	2-1/4	2-1/4	
1	1	1	1	1	1	
25 [95]	30 [114]	40 [151]	50 [189]	55 [208]	55 [208]	
11.2 [42]	23.9 [90]	27.4 [104]	30.8 [117]	43.4 [165]	53.3 [202]	
2.0 [57]	2.5 [71]	3.5 [128]	5.7 [161]	8.0 [221]	9.5 [269]	
	3 * 1-1/2 1 25 [95] 11.2 [42]	20 30 3 * 3 * 1-1/2 2-1/4 1 1 25 [95] 30 [114] 11.2 [42] 23.9 [90]	20 30 40 3 * 3 * 3 * 1-1/2 2-1/4 2-1/4 1 1 1 25 [95] 30 [114] 40 [151] 11.2 [42] 23.9 [90] 27.4 [104]	20 30 40 60 3 * 3 * 3 * 3 * 1-1/2 2-1/4 2-1/4 2-1/4 1 1 1 1 25 [95] 30 [114] 40 [151] 50 [189] 11.2 [42] 23.9 [90] 27.4 [104] 30.8 [117]	20 30 40 60 80 3 * 3 * 3 * 3 * 1-1/2 2-1/4 2-1/4 2-1/4 2-1/4 1 1 1 1 25 [95] 30 [114] 40 [151] 50 [189] 55 [208] 11.2 [42] 23.9 [90] 27.4 [104] 30.8 [117] 43.4 [165]	

Table 26

Drain Hose Models - Connect Drain Hose to Drain Receptacle

Remove the drain hose from its shipping position on the rear of the washer by removing the shipping tape.

IMPORTANT: Drain receptacle must be capable of handling a minimum of 1-3/8 inch [35 mm] outside diameter drain hose.

Drain Flow Rate - 100-127 Volt/60 Hertz				
Drain Height	Flow Rate gallons per minute [lit- ers per minute]			
3 ft. [0.9 m]	8.6 [32.7]			
5 ft. [1.5 m]	6.8 [25.9]			
6 ft. [1.8 m]	6.0 [22.7]			
7 ft. [2.1 m]	5.1 [19.5]			
8 ft. [2.4 m]	4.0 [15.2]			

Drain Flow Rate - 220-240 Volt/50 Hertz

Drain Height	Flow Rate gallons per minute [lit- ers per minute]	
3 ft. [0.9 m]	7.3 [27.7]	
5 ft. [1.5 m]	4.7 [17.8]	
6 ft. [1.8 m]	3.5 [13.4]	
7 ft. [2.1 m]	1.3 [4.8]	
8 ft. [2.4 m]	0 [0]	

Drain Flow Rate - 208-240 Volt/60 Hertz

Drain Height	Flow Rate gallons per minute [lit- ers per minute]	
3 ft. [0.9 m]	9.4 [35.5]	
5 ft. [1.5 m]	7.6 [28.8]	
6 ft. [1.8 m]	6.6 [25.1]	
7 ft. [2.1 m]	5.6 [21.2]	
8 ft. [2.4 m]	4.3 [16.4]	

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	Require- ment	
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 27

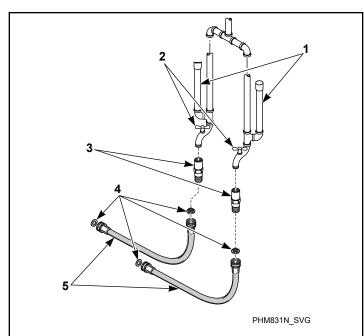
Water Supply Line Sizing, in.			
	Supply Line Size		
Number of Machines	Main	Hot/Cold	
1	3/4	3/4	
2	1	3/4	
3	1-1/4	1	
4	1-1/2	1	

Table 28

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 R160) and the Plumbing Code of Australia, European standard EN1717 and Australian standard WMTS-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



Figure 28

Connect Inlet Hoses (20-40 Models)

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

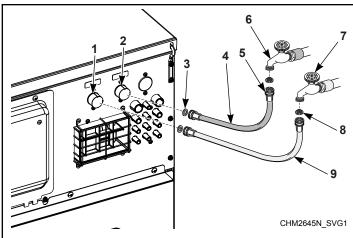
- 1. Before installing hoses, flush the building's water system at the machine connection valves for at least two (2) minutes.
- 2. Remove the two (2) plain rubber washers and two (2) filter screens from the accessories bag supplied with the machine.
- 3. Install one (1) plain rubber washer onto one 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 colorcoded hose for the hot water connection and the blue colorcoded 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.



- 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

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:

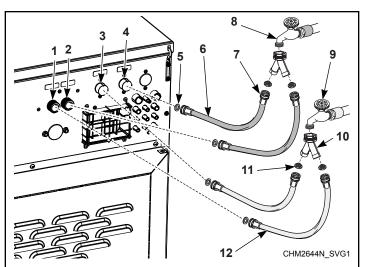
- 1. Before installing hoses, flush the building's water system at the machine connection valves for at least two (2) minutes.
- 2. Remove the four (4) plain rubber washers and four (4) filter screens from the accessories bag supplied with the machine.
- 3. Install one (1) plain rubber washer onto one 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

Plumbing Diagrams

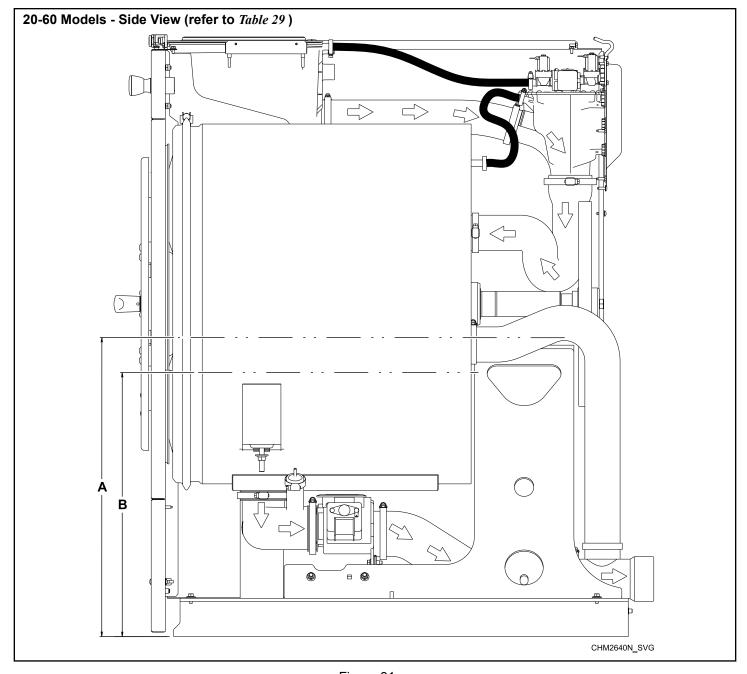


Figure 31

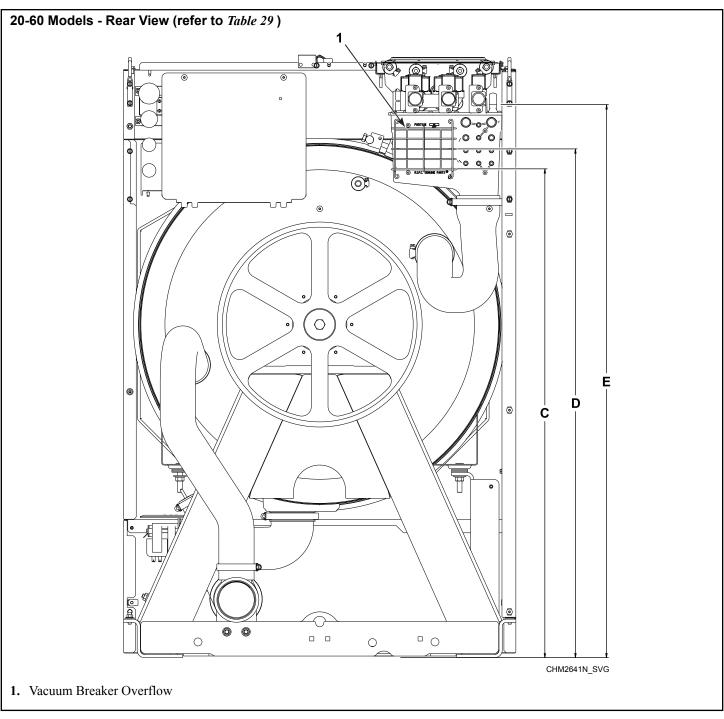


Figure 32

Plumbing Diagram - 20-60 Models, in. [mm]						
	Description	20	30	40		
A	Maximum overflow height	20.5 [521]	21.4 [544]	23.1 [587]		
В	Maximum operating water level	18.5 [470]	17.0 [432]	19.9 [505]		
С	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]		
Е	Inlet Valves	38.9 [988]	41.4 [1052]	43.2 [1097]		

Table 29

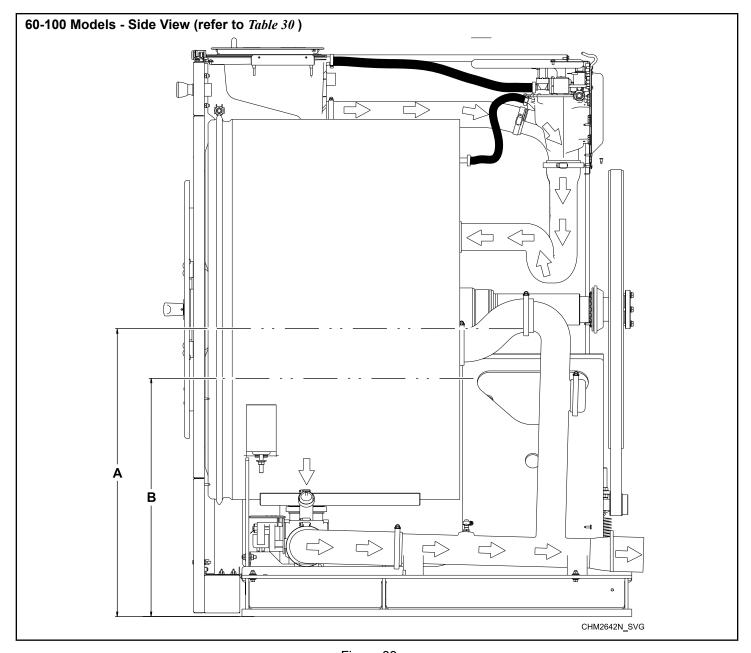


Figure 33

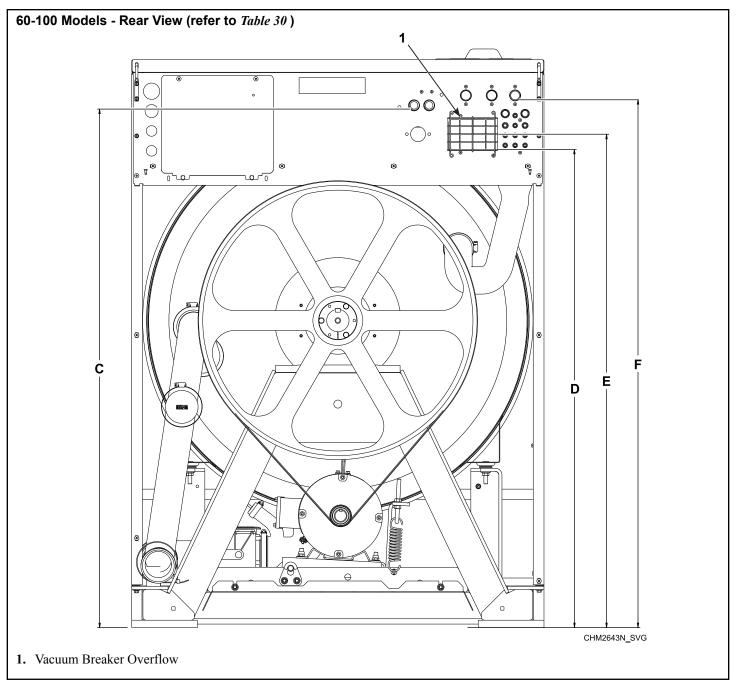


Figure 34

	Plumbing Diagram - 60-100 Models, in. [mm]										
	Description	60	80	100							
A	Maximum overflow height	23.1 [587]	28.8 [732]	28.8 [732]							
В	Maximum operating water level	20.6 [523]	24.9 [632]	24.9 [632]							
С	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]							
Е	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 30

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.

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
Greater than 120 kVA supply transformer	Isolation Transformer
Line has power factor correction capacitors	Install Line Reactor
Line has frequent power interruptions	Isolation Transformer
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 groundInstall Isolation Transformer with grounded secondary (if
Ungrounded distribution system	necessary)
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 31

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 conductors 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*.

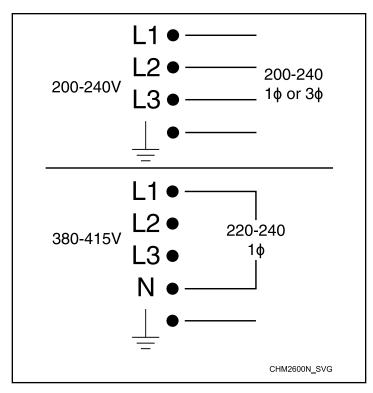


Figure 35

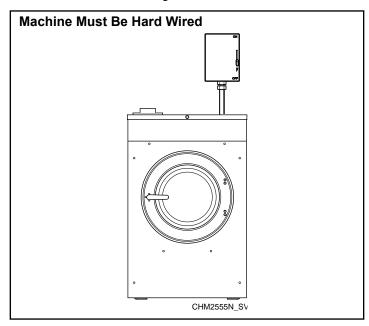


Figure 36

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.

IMPORTANT: Where an emergency stop is required by local ordinances, a disconnect must be installed that is readily accessible to all users.

NOTE: Installation of models in North America: recommended installation is hard wired without a GFCI. If a GFCI is mandatory due to local requirements, then the GFCI must be rated for 30mA or higher.

Single-Phase Connections

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

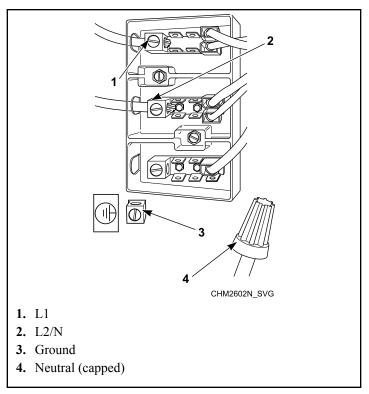


Figure 37

Three-Phase Connections

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

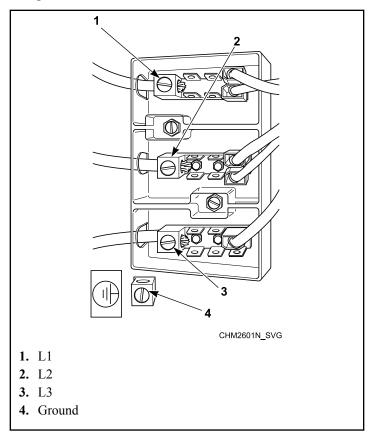


Figure 38

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

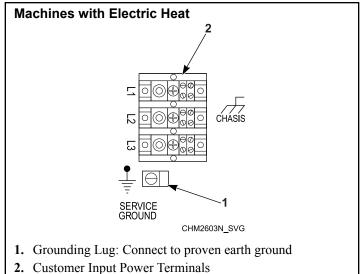


Figure 39

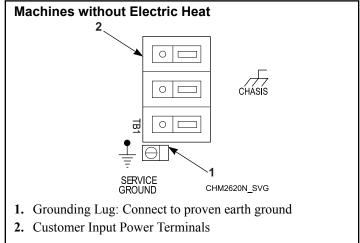


Figure 40

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.

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 194°F [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 Ame	erican App	oroval			
	Vo	Itage Desig	nation				Spec	ifications	
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm²
F-Speed	Models								
В		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		•	•	•		•	•	
В		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 32 continues...

		20	Models - N	orth Ameri	can Appro	val			
	Vol	tage Desigi	nation				Specifi	cations	
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm²
N	Standard	440-480	50- 60	3	3	2	15	14	2.5
	Electric Heat]				14	15	14	2.5

Table 32

			30 Mode	ls - North	American A	Approval			
		Voltage De	signation				Spec	ifications	
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm²
F-Speed M	Todels			ļ	!			I	
В		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 M	Models	1			I			I	
В		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 33

			40 Mode	ls - North	American <i>A</i>	Approval			
		Voltage De	signation				Spec	ifications	
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm²
F-Speed Mo	dels								
В		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 Mo	odels	•	•	•	•	•	•	•	•
В		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 34

			60 Mode	ls - North	American <i>A</i>	Approval			
		Voltage De	signation				Spec	ifications	
epoo		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm²
F-Speed Mode	els	_ _			I	!		<u> </u>	I
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	1				22	30	10	6.0
V-Speed Mode	els	•	•	•	•	•	•	•	•
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 35

			80 Mode	ls - North	American A	Approval			
		Voltage De	signation				Speci	fications	
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm²
F-Speed	Models					<u> </u>	!		
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	1				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 36

			100 Mode	els - North	American	Approval			
		Voltage De	signation				Speci	fications	
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	AWG	mm²
F-Speed Mo	odels			ļ	!			!	
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 Mo	odels	•		•	•				
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 37

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 194°F [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.

				els - CE Ap	provai			
		Voltage De	signation				Specificat	ions
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm ²
F-Speed M	odels							
В		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 M	odels		•	•	•	•	•	•
В		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 38

			30 Models	s - CE Appr	oval			
		Voltage Des	ignation			Sı	pecification	s
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm ²
F-Speed Model	ls	L				l.	L	
В		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 Mode	ls							
В		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 39

			40 Mod	lels - CE Ap	oproval			
		Voltage De	signation				Specificati	ons
E Speed Models		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm ²
F-Speed Mo	odels				<u>'</u>			
В		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 Mo	odels		•	•	•	•	•	
В		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 40

			60 Models	s - CE Appro	oval			
Voltage Designation Specifications							s	
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm ²
F-Speed M	odels							
X	X		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 M	odels			-				
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 41

			80 Mod	lels - CE Ap	pproval				
Voltage Designation							Specifications		
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm ²	
F-Speed M	Iodels				I				
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 M	Iodels				•		•	•	
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 42

			100 Mod	dels - CE A	pproval			
		Voltage De	signation				Specification	ons
Code		Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker	mm ²
F-Speed Mo	odels			ļ .				
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 Mo	odels		'	,	•	'		•
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 43

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 eyerinse 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 connec-

tor, 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 44

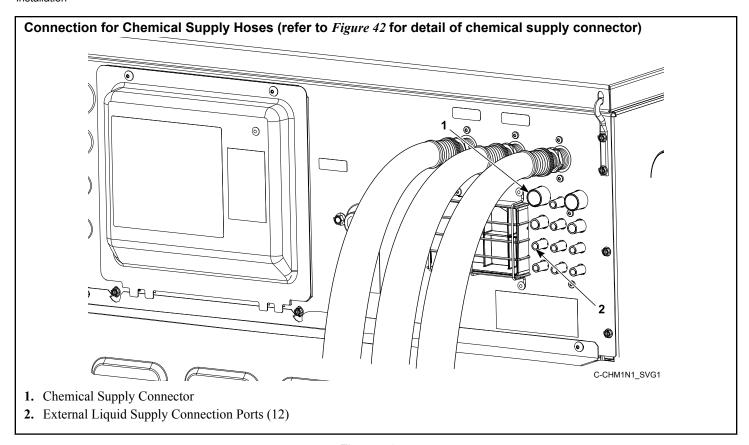
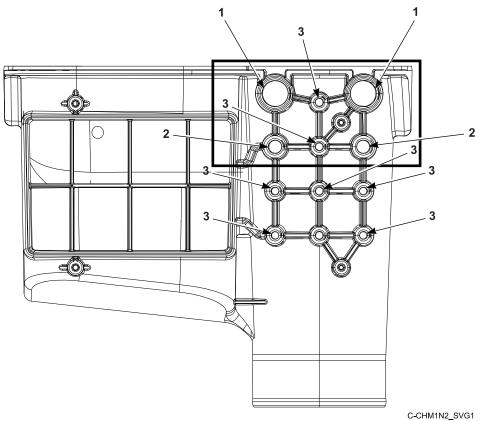


Figure 41

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

* 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 †

Figure 43

External Supplies

4. PVC Pipe

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.

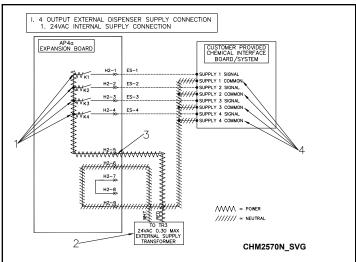


CAUTION

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.

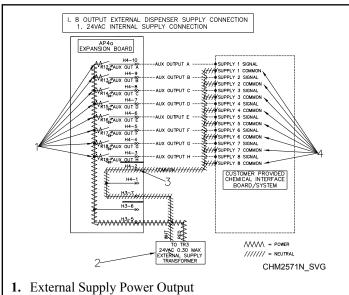
W699

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



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

Figure 44



- 2. I Supply Tower output
- 2. Internal Control Transformer
- 3. RELAY COM Terminal
- 4. External Dispenser Input Signal Common

Figure 45

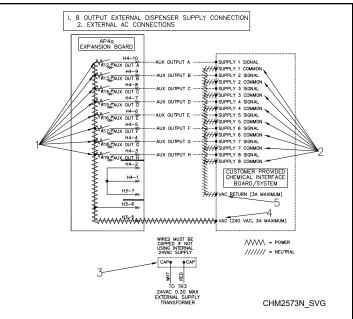
Chemical Injection Using External AC Power Source

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.

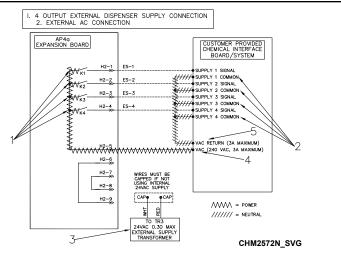
IMPORTANT: The external power must supply power of 240VAC or less and be protected at 3 Amps or less.

- 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



- 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



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.

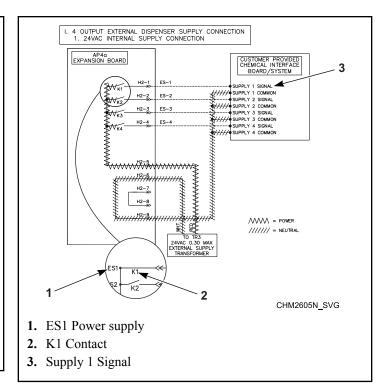


Figure 48

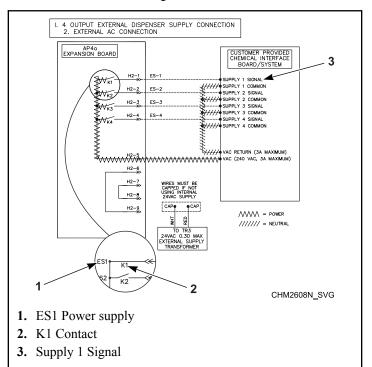


Figure 49

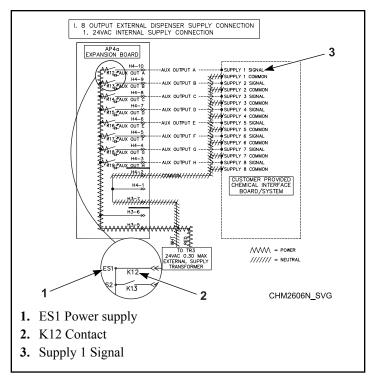


Figure 50

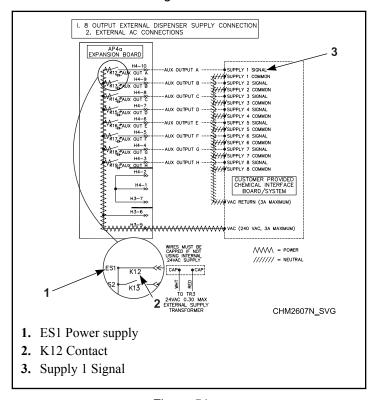


Figure 51

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.

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

Operation

Operating Instructions

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

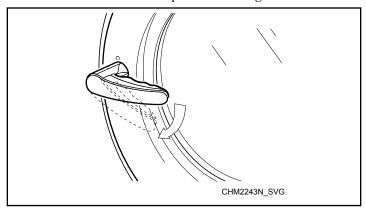


Figure 52

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

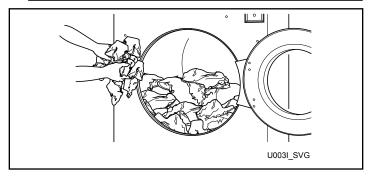


Figure 53

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*.

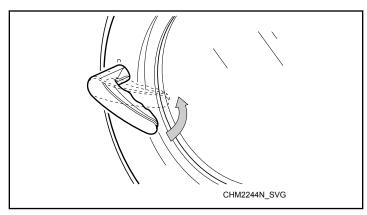


Figure 54

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

OPL Control Instructions

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

Models with F Control

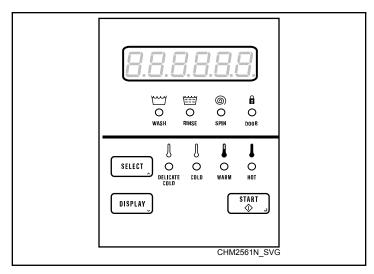


Figure 55

- If display has gone blank due to sitting idle, press the DIS-PLAY 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 45*.
 - 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 **DD**.

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

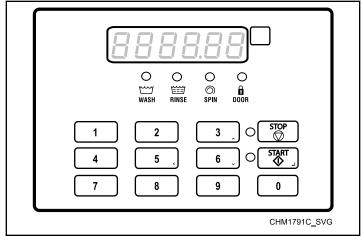


Figure 56

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 45* .
 - 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**.

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

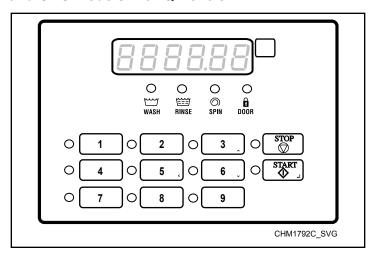


Figure 57

- 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 45*.
 - 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**.

Vend Control Instructions

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

BCG, HCT and PCG Models with N and W Controls

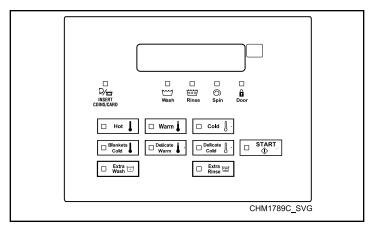


Figure 58

- 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.
- 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 45*.
 - 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

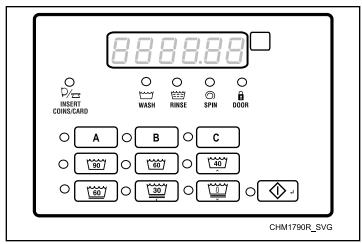


Figure 59

- 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.
- 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 45*.
 - 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**.

DCJ, HCT, SCH and SCT Models with N and W Controls

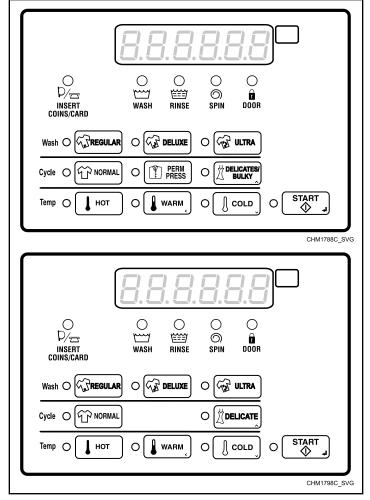


Figure 60

- Press the Regular, Deluxe or Ultra keypad to choose the desired soil level. The corresponding LED indicates the selection.
- 2. Press the Normal, Perm Press (if available) 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 45*.
 - 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**.

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

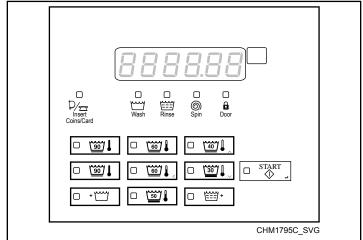


Figure 61

- 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.
- 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.

- Add liquid and/or powder supplies to supply dispenser. Refer to *Table 45*.
 - 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**.

SCT Modles with Q Control

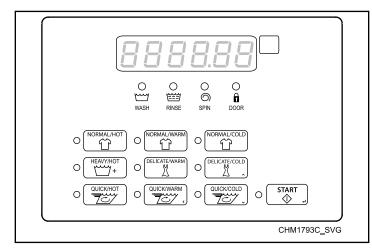


Figure 62

- 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 45* .
 - 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

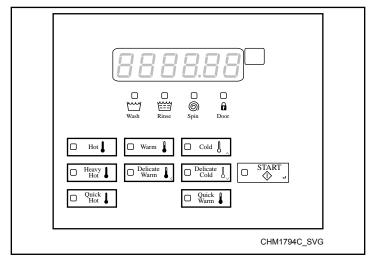


Figure 63

- 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 45* .
 - 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**.

Adding Supplies

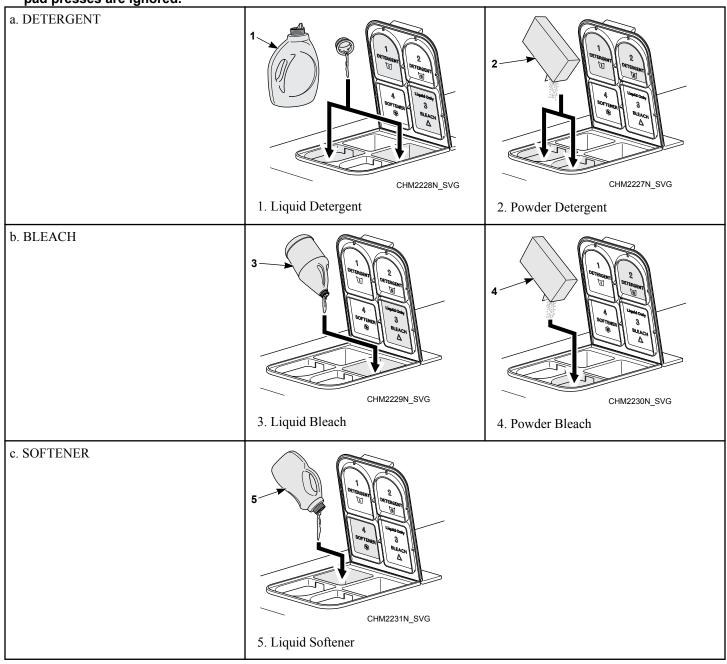


Table 45

Emergency Stop Button (OPL Models Only)

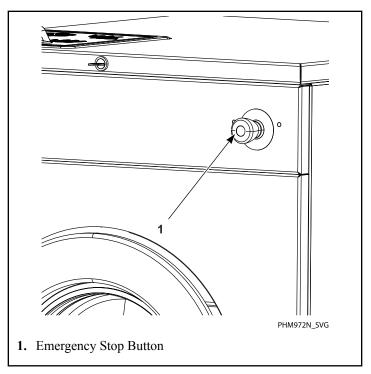


Figure 64

- 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.

Maintenance

Routine maintenance maximizes operating efficiency and minimizes downtime. The maintenance procedures described below will prolong the life of the machine and help prevent accidents.



WARNING

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

W366R1



CAUTION

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.

SW019

Follow local codes for proper advise on laundering infected garments.

The following maintenance procedures must be performed regularly at the required intervals.

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.

W782

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. Inspect the 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 the water inlet valve hose connections on the back of the machine for leaks.
- 4. Inspect the chemical connections for machines equipped with an automatic chemical supply system by inspecting all connections and chemical hoses for leaks or cracks.



WARNING

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

W636

- 5. If applicable, inspect the steam hose connections for leaks.
- 6. Ensure all panels and guards are properly installed.

End of Day

- 1. Clean the wash drum, door glass, and door gasket of residual detergent and all foreign matter.
- 2. Clean the chemical dispenser, flushing with clean water.
- Clean the machine's exposed surfaces with all-purpose cleaner.

IMPORTANT: Use only isopropyl alcohol to clean graphic overlays. DO NOT use ammonia based or vinegar-based cleans on 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.

4. Leave the loading door and dispenser lid open to allow moisture to evaporate.

NOTE: Unload the machine promptly after each completed cycle to prevent moisture buildup.

5. Shut off water supply.

Monthly



WARNING

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

W636

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

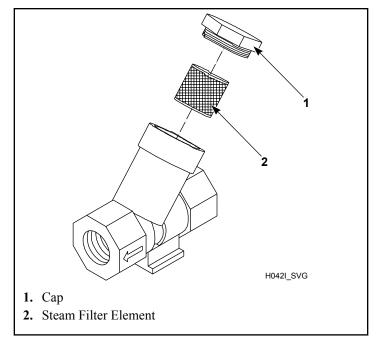


Figure 65

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.

- 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.
- 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 47*) is obtained midspan. Torque jam nut to spring bracket to 20.6 ± 2 ft.-lbs. Refer to *Figure 66*.

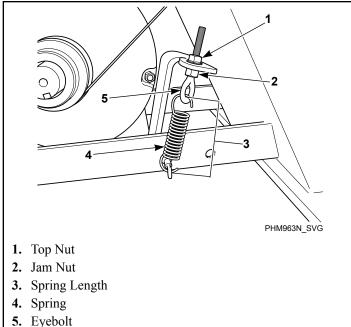


Figure 66

Tension Gauge. Tighten eyebolt top nut until the proper belt gauge (refer to *Table 47*) 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 46*. 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 46

 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	Frequen- cy (Hz)	Belt Ten- sion (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 47

3. Remove any accumulated debris on or near the motor and motor variable frequency drive heat sinks, if applicable.

Maintenance

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 48*.

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

Table 48

- d. Tighten door hinges and fasteners, if necessary.
- 7. Place a large magnet over the normally-closed ball switch to verify the stability switch operation.
- 8. Ensure all panels and guards are properly reinstalled.
 - a. Verify that the drain motor shield is in place and secure, if so equipped.
- 9. Run factory test, reference programming manual for procedure details and components tested.

NOTE: Refer to the Programming Manual for procedure details and components tested.

- 10. 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.
- 11. 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).

12. 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.

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.

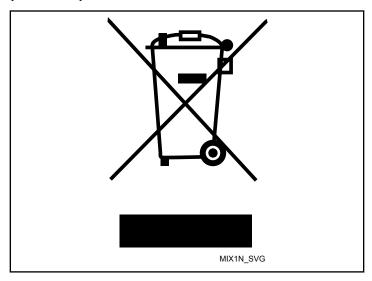


Figure 67