Washer-Extractors
Cabinet Freestanding

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

Alliance
Laundry Systems

www.comlaundry.com

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### Model Identification

Information in this manual is applicable to these models:

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<th>Model</th>
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<th>Model</th>
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<tr>
<td>HX18PV</td>
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<td>SX35PV</td>
<td>SX165PV</td>
<td>UX35PV</td>
<td>UX135PV</td>
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<tr>
<td>HX35PV</td>
<td>HX165PV</td>
<td>SX55PV</td>
<td>SX200PV</td>
<td>UX40PV</td>
<td>UX165PV</td>
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<td>HX55PV</td>
<td>HX200PV</td>
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<td>UX18PV</td>
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<td>SX100PV</td>
<td>UX25PV</td>
<td>UX75PV</td>
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</table>
Safety Information

Explanation of Safety Messages

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

**DANGER**

DANGER indicates the presence of a hazard that will cause severe personal injury, death, or substantial property damage if the danger is ignored.

**WARNING**

WARNING indicates the presence of a hazard that can cause severe personal injury, death, or substantial property damage if the warning is ignored.

**CAUTION**

CAUTION indicates the presence of a hazard that will or can cause minor personal injury or property damage if the caution is ignored.

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:

1. Read all instructions before using the washer.
2. Refer to the GROUNDING INSTRUCTIONS in the INSTALLATION manual for the proper grounding of the washer.
3. Do not wash textiles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, kerosene, waxes, cooking oils, dry-cleaning solvents, or other flammable or explosive substances as they give off vapors that could ignite or explode.
4. Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
5. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable, do not smoke or use an open flame during this time.
6. 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 is a safety rule for all appliances.
7. Before the washer is removed from service or discarded, remove the door to the washing compartment.
8. Do not reach into the washer if the wash drum is moving.
9. Do not install or store the washer where it will be exposed to water and/or weather.
10. Do not tamper with the controls.
11. 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.
12. 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.
13. Use washer only for its intended purpose, washing textiles.
14. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket.
15. ALWAYS disconnect the washer from electrical supply before attempting any service. Disconnect the power cord by grasping the plug, not the cord.
16. Install the washer according to the INSTALLATION INSTRUCTIONS. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required.
17. To reduce the risk of fire, textiles which have traces of any flammable substances such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc., or anything containing wax or chemicals such as in mops and cleaning cloths, must not be put into the washer. These flammable substances may cause the fabric to catch on fire by itself.
18. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
19. Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
20. If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
21. 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.
22. 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.
23. 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).
25. Never operate the washer with any guards and/or panels removed.
26. DO NOT operate the washer with missing or broken parts.
27. DO NOT bypass any safety devices.
28. Failure to install, maintain, and/or operate this washer according to the manufacturer’s instructions may result in conditions which can produce bodily injury and/or property damage.

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

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.
IMPORTANT: Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

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

**WARNING**
Install the machine on a level floor of sufficient strength. Failure to do so may result in conditions which can produce serious injury, death and/or property damage.

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

**CAUTION**
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.

**WARNING**

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.

To provide personal safety and keep the machine in proper working order, follow all maintenance and safety procedures presented in this manual. If questions regarding safety arise, contact the manufacturer immediately.

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.

To ensure the safety of machine operators, the following maintenance checks must be performed daily:

1. Prior to operating the machine, verify that all warning signs are present and legible. Missing or illegible signs must be replaced immediately. Make certain that spares are available.

2. Check door interlock before starting operation of the machine:
   a. Attempt to start the machine with the door open. The machine should not start with the door open.
   b. Close the door without locking it and attempt to start the machine. The machine should not start with the door unlocked.
   c. Close and lock the door and start a cycle. 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, 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

Never operate the machine with a bypassed or disconnected balance system. Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.
# Specifications and Dimensions

## General Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>18</th>
<th>25</th>
<th>33</th>
<th>35</th>
<th>40</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Overall Dimensions</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall width</td>
<td>660 mm (26 in.)</td>
<td>660 mm (26 in.)</td>
<td>780 mm (30.71 in.)</td>
<td>783 mm (30.8 in.)</td>
<td>780 mm (30.71 in.)</td>
</tr>
<tr>
<td>Overall height</td>
<td>1031 mm (40.6 in.)</td>
<td>1031 mm (40.6 in.)</td>
<td>1376 mm (54.15 in.)</td>
<td>1194 mm (47 in.)</td>
<td>1376 mm (54.15 in.)</td>
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<tr>
<td>Overall depth</td>
<td>780 mm (30.7 in.)</td>
<td>870 mm (34.3 in.)</td>
<td>840 mm (33.07 in.)</td>
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## Weight and Shipping Information

<table>
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<th>25</th>
<th>33</th>
<th>35</th>
<th>40</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Net weight †</strong></td>
<td>211 kg (465 lb.)</td>
<td>236 kg (520 lb.)</td>
<td>368 kg (811.30 lb.)</td>
<td>358 kg (789 lb.)</td>
<td>391 kg (862.01 lb.)</td>
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<tr>
<td><strong>Net weight ††</strong></td>
<td>236 kg (520 lb.)</td>
<td>241 kg (531 lb.)</td>
<td>N/A</td>
<td>347 kg (765 lb.)</td>
<td>N/A</td>
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<tr>
<td><strong>Shipping weight †</strong></td>
<td>233 kg (514 lb.)</td>
<td>258 kg (569 lb.)</td>
<td>383 kg (844.37 lb.)</td>
<td>388 kg (855 lb.)</td>
<td>418 kg (921.53 lb.)</td>
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<tr>
<td><strong>Shipping weight ††</strong></td>
<td>283 kg (624 lb.)</td>
<td>290 kg (639.5 lb.)</td>
<td>N/A</td>
<td>467 kg (1030 lb.)</td>
<td>N/A</td>
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<td><strong>Shipping volume</strong></td>
<td>0.8 m³ (22.5 ft.³)</td>
<td>0.9 m³ (24.5 ft.³)</td>
<td>1.21 m³ (42.83 ft.³)</td>
<td>1.3 m³ (34.7 ft.³)</td>
<td>1.3 m³ (45.98 ft.³)</td>
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## Wash Cylinder Information

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<tr>
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<tbody>
<tr>
<td><strong>Cylinder diameter</strong></td>
<td>530 mm (20.9 in.)</td>
<td>530 mm (20.9 in.)</td>
<td>680 mm (26.77 in.)</td>
<td>650 mm (25.6 in.)</td>
<td>680 mm (26.77 in.)</td>
</tr>
<tr>
<td><strong>Cylinder depth</strong></td>
<td>345 mm (13.6 in.)</td>
<td>440 mm (17.3 in.)</td>
<td>400 mm (15.75 in.)</td>
<td>500 mm (19.7 in.)</td>
<td>500 mm (19.69 in.)</td>
</tr>
<tr>
<td><strong>Cylinder volume</strong></td>
<td>76 l (2.7 ft.³)</td>
<td>97 l (3.43 ft.³)</td>
<td>145 l (5.12 ft.³)</td>
<td>167 l (5.9 ft.³)</td>
<td>181 l (6.39 ft.³)</td>
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<tr>
<td><strong>Perforation size</strong></td>
<td>3 mm (0.1 in.)</td>
<td>3 mm (0.1 in.)</td>
<td>3 mm (0.1 in.)</td>
<td>3 mm (0.1 in.)</td>
<td>3 mm (0.1 in.)</td>
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</table>

## Door Opening Information

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<th>40</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Door opening size</strong></td>
<td>300 mm (11.8 in.)</td>
<td>300 mm (11.8 in.)</td>
<td>400 mm (15.75 in.)</td>
<td>300 mm (11.8 in.)</td>
<td>400 mm (15.75 in.)</td>
</tr>
<tr>
<td><strong>Height of door bottom above floor</strong></td>
<td>279 mm (11 in.)</td>
<td>279 mm (11 in.)</td>
<td>472 mm (18.58 in.)</td>
<td>395 mm (15.6 in.)</td>
<td>472 mm (18.58 in.)</td>
</tr>
</tbody>
</table>

† For Models with A or M in the 8th position in the model number (e.g. *X18PVXA6*

†† For Models with U in the 8th position in the model number (e.g. *X18PVXU6*

(continued)
### General Specifications

<table>
<thead>
<tr>
<th></th>
<th>Model 18</th>
<th>Model 25</th>
<th>Model 33</th>
<th>Model 35</th>
<th>Model 40</th>
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<tr>
<td><strong>Drive Train Information</strong></td>
<td></td>
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<tr>
<td>Number of motors in drive train</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Drive motor power</td>
<td>0.75 kW (1 HP)</td>
<td>0.75 kW (1 HP)</td>
<td>2.2 kW (2.95 HP)</td>
<td>1.5 kW (2 HP)</td>
<td>2.2 kW (2.95 HP)</td>
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<td><strong>Cylinder Speeds</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Wash/reverse speed</td>
<td>10-50 RPM</td>
<td>10-50 RPM</td>
<td>10-50 RPM</td>
<td>10-50 RPM</td>
<td>10-50 RPM</td>
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<td>Distribution/drain speed</td>
<td>82 RPM</td>
<td>82 RPM</td>
<td>85 RPM</td>
<td>74 RPM</td>
<td>85 RPM</td>
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<td>Extract speed</td>
<td>250-1000 RPM</td>
<td>250-1000 RPM</td>
<td>250-1000 RPM</td>
<td>250-1000 RPM</td>
<td>250-1000 RPM</td>
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<td><strong>Centrifugal Force Data</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wash/reverse centrifugal force</td>
<td>0.03-0.74 Gs</td>
<td>0.03-0.74 Gs</td>
<td>0.37-0.94 Gs</td>
<td>0.04-0.91 Gs</td>
<td>0.37-0.94 Gs</td>
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<td>Extract centrifugal force</td>
<td>19-296 Gs</td>
<td>19-296 Gs</td>
<td>24-377 Gs</td>
<td>23-363 Gs</td>
<td>24-377 Gs</td>
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<tr>
<td><strong>Balance Detection</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Direct Steam Heating (Optional)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steam inlet connection size</td>
<td>10 mm (0.38 in.)</td>
<td>10 mm (0.38 in.)</td>
<td>10 mm (0.375 in.)</td>
<td>10 mm (0.38 in.)</td>
<td>10 mm (0.375 in.)</td>
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<tr>
<td>Number of steam inlets</td>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td><strong>Electrical Heating (Optional)</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Total electrical heating capacity</td>
<td>9 kW</td>
<td>9 kW</td>
<td>18 kW</td>
<td>18 kW</td>
<td>18 kW</td>
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<tr>
<td>Electrical heating elements</td>
<td>3</td>
<td>3</td>
<td>6</td>
<td>6</td>
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<tr>
<td>Electrical heat element size</td>
<td>3 kW</td>
<td>3 kW</td>
<td>3 kW</td>
<td>3 kW</td>
<td>3 kW</td>
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## General Specifications

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<th>100</th>
<th>135</th>
<th>165</th>
<th>200</th>
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<tr>
<td><strong>Overall Dimensions</strong></td>
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<td></td>
</tr>
<tr>
<td>Overall width</td>
<td>900 mm</td>
<td>1060 mm</td>
<td>1200 mm</td>
<td>1200 mm</td>
<td>1300 mm</td>
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<tr>
<td>(35.4 in.)</td>
<td>(41.8 in.)</td>
<td>(47.3 in.)</td>
<td>(47.3 in.)</td>
<td>(51.8 in.)</td>
<td>(51.8 in.)</td>
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</tr>
<tr>
<td>Overall height</td>
<td>1544 mm</td>
<td>1560 mm</td>
<td>1920 mm</td>
<td>1920 mm</td>
<td>2100 mm</td>
<td>2100 mm</td>
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<tr>
<td>(60.8 in.)</td>
<td>(61.4 in.)</td>
<td>(75.6 in.)</td>
<td>(75.6 in.)</td>
<td>(82.7 in.)</td>
<td>(82.68 in.)</td>
<td></td>
</tr>
<tr>
<td>Overall depth</td>
<td>1016 mm</td>
<td>1168 mm</td>
<td>1330 mm</td>
<td>1500 mm</td>
<td>1620 mm</td>
<td>1808 mm</td>
</tr>
<tr>
<td>(40 in.)</td>
<td>(46 in.)</td>
<td>(52.4 in.)</td>
<td>(59.1 in.)</td>
<td>(63.8 in.)</td>
<td>(71.18 in.)</td>
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<tr>
<td><strong>Weight and Shipping Information</strong></td>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Net weight</td>
<td>570 kg</td>
<td>865 kg</td>
<td>1520 kg</td>
<td>1645 kg</td>
<td>2100 kg</td>
<td>2900 kg</td>
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<tr>
<td>(1247 lb.)</td>
<td>(1907 lb.)</td>
<td>(3351 lb.)</td>
<td>(3626 lb.)</td>
<td>(4630 lb.)</td>
<td>(6393.41 lb.)</td>
<td></td>
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<tr>
<td>Shipping weight</td>
<td>630 kg</td>
<td>995 kg</td>
<td>1697 kg</td>
<td>1822 kg</td>
<td>2319 kg</td>
<td>3000 kg</td>
</tr>
<tr>
<td>(1380 lb.)</td>
<td>(2194 lb.)</td>
<td>(3741 lb.)</td>
<td>(4017 lb.)</td>
<td>(5113 lb.)</td>
<td>(6613.86 lb.)</td>
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<tr>
<td>Shipping volume</td>
<td>1.5 m³</td>
<td>2.1 m³</td>
<td>3.3 m³</td>
<td>3.7 m³</td>
<td>4.4 m³</td>
<td>6.17 m³</td>
</tr>
<tr>
<td>(54.9 ft.³)</td>
<td>(74 ft.³)</td>
<td>(115 ft.³)</td>
<td>(131 ft.³)</td>
<td>(162 ft.³)</td>
<td>(217.89 ft.³)</td>
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<td><strong>Wash Cylinder Information</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cylinder diameter</td>
<td>750 mm</td>
<td>850 mm</td>
<td>980 mm</td>
<td>980 mm</td>
<td>1095 mm</td>
<td>1095 mm</td>
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<tr>
<td>(29.5 in.)</td>
<td>(33.5 in.)</td>
<td>(38.6 in.)</td>
<td>(38.6 in.)</td>
<td>(43.1 in.)</td>
<td>(43.1 in.)</td>
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<tr>
<td>Cylinder depth</td>
<td>530 mm</td>
<td>537 mm</td>
<td>597 mm</td>
<td>775 mm</td>
<td>775 mm</td>
<td>957 mm</td>
</tr>
<tr>
<td>(20.9 in.)</td>
<td>(21.1 in.)</td>
<td>(23.5 in.)</td>
<td>(30.5 in.)</td>
<td>(30.5 in.)</td>
<td>(37.68 in.)</td>
<td></td>
</tr>
<tr>
<td>Cylinder volume</td>
<td>234 l</td>
<td>305 l</td>
<td>451 l</td>
<td>585 l</td>
<td>730 l</td>
<td>930 l</td>
</tr>
<tr>
<td>(8.27 ft.³)</td>
<td>(10.76 ft.³)</td>
<td>(15.92 ft.³)</td>
<td>(20.66 ft.³)</td>
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<td>(31.748 ft.³)</td>
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<td>Perforation size</td>
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<td>3 mm</td>
<td>3 mm</td>
<td>3 mm</td>
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<tr>
<td>(0.1 in.)</td>
<td>(0.1 in.)</td>
<td>(0.1 in.)</td>
<td>(0.1 in.)</td>
<td>(0.1 in.)</td>
<td>(0.1 in.)</td>
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<td><strong>Door Opening Information</strong></td>
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<td></td>
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<tr>
<td>Door opening size</td>
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<td>(15.6 in.)</td>
<td>(15.6 in.)</td>
<td>(19.7 in.)</td>
<td>(19.7 in.)</td>
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<tr>
<td>Height of door bottom above floor</td>
<td>559 mm</td>
<td>559 mm</td>
<td>648 mm</td>
<td>648 mm</td>
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<tr>
<td>(22 in.)</td>
<td>(22 in.)</td>
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(continued)
### General Specifications

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<th>200</th>
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<td>Number of motors in drive train</td>
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<td>1</td>
<td>1</td>
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<td>3 kW (4 HP)</td>
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<td>7.5 kW (10 HP)</td>
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<td><strong>Cylinder Speeds</strong></td>
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<td>Wash/reverse speed</td>
<td>10-50 RPM</td>
<td>10-50 RPM</td>
<td>10-50 RPM</td>
<td>10-50 RPM</td>
<td>10-50 RPM</td>
<td>10-50 RPM</td>
</tr>
<tr>
<td>Distribution/drain speed</td>
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<td>Extract speed</td>
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<td>250-800 RPM</td>
<td>250-800 RPM</td>
<td>250-750 RPM</td>
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<td>0.05-1.19 Gs</td>
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<td>0.06-1.52 Gs</td>
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<td>26-418 Gs</td>
<td>30-475 Gs</td>
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<td>10 mm (0.38 in.)</td>
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<td>10 mm (0.38 in.)</td>
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<td>Number of steam inlets</td>
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<td>1</td>
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<td>1</td>
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<td>1</td>
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<tr>
<td><strong>Electrical Heating (Optional)</strong></td>
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<td></td>
<td></td>
<td></td>
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<td>18 kW</td>
<td>27 kW</td>
<td>27 kW</td>
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<td>6</td>
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<td>9</td>
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<tr>
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<td>3 kW</td>
<td>3 kW</td>
<td>3 kW</td>
<td>N/A</td>
<td>4 kW</td>
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18 AND 25 POUND CAPACITY MODELS WITH U IN THE 8TH POSITION (E.G. *X18PVXU6)

1  Fill and Supply Ventilation
2  Cold Water Inlet (Required)
3  Hot Water Inlet (Required)
4  Cold Water Inlet (Required)
5  Flushing Supply Dispenser
6  External Liquid Supply Inlets
7  Electrical Power Input
8  External Supply Signal Input
9  Drain Outlet
10 Steam Connection Input (Optional)

Figure 1
Basic Installation/Operation

1 Fill and Supply Ventilation
2 Cold Water Inlet (Required)
3 External Liquid Supply Inlets
4 Hot Water Inlet (Required)
5 Ventilation Tub
6 Main Switch
7 Electrical Power Input
8 Drain Outlet
9 Steam Connection Input (Optional)
10 Cold Water Inlet (Required)
11 Flushing Supply Dispenser

18 AND 25 POUND CAPACITY MODELS WITH A OR M IN THE 8TH POSITION (E.G. *X18PVXM6)

Figure 2
1 Fill and Supply Ventilation
2 External Liquid Supply Inlets
3 Cold Water Inlet (Required)
4 Cold Water Inlet (Required)
5 Hot Water Inlet (Required)
6 Connection Clamps
7 Ventilation Tub
8 Electrical Power Inputs
9 Drain Valve
10 Steam Connection Input (Optional)

Figure 3
Basic Installation/Operation

35 POUND CAPACITY MODELS WITH U IN THE 8TH POSITION (E.G. *X35PVXU6*)

1  Fill and Supply Ventilation          6  External Liquid Supply Inlets
2  Cold Water Inlet (Required)          7  Electrical Supply Signal Input
3  Hot Water Inlet (Required)           8  External Supply Signal Input
4  Cold Water Inlet (Required)          9  Drain Outlet
5  Flushing Supply Dispenser            10 Steam Connection Input (Optional)

Figure 4
35 POUND CAPACITY MODELS WITH A OR M IN THE 8TH POSITION (E.G. *X35PVXM6)

1  Fill and Supply Ventilation
2  Hot Water Inlet (Required)
3  Cold Water Inlet (Required)
4  Main Switch
5  Ventilation Tub
6  Electrical Power Input
7  Drain Outlet
8  Steam Connection Input (Optional)
9  External Liquid Supply Inlets
10 Cold Water Inlet (Required)
11 Flushing Supply Dispenser

Figure 5
Basic Installation/Operation

Figure 6

1. Fill and Supply Ventilation
2. External Liquid Supply Inlets
3. Cold Water Inlet (Required)
4. Cold Water Inlet (Required)
5. Hot Water Inlet (Required)
6. Connection Clamps
7. Ventilation Tub
8. Electrical Power Inputs
9. Drain Valve
10. Steam Connection Input (Optional)
Basic Installation/Operation

Figure 7

1. Fill and Supply Ventilation
2. Cold Water Inlet (Required)
3. Hot Water Inlet (Required)
4. Cold Water Inlet (Required)
5. Flushing Supply Dispenser
6. External Liquid Supply Inlets
7. Electrical Power Input
8. External Supply Signal Input
9. Drain Outlet
10. Reuse Drain Outlet (Optional)
11. Steam Connection Input (Optional)

55 MODEL

CFD509N

CFS470N

CFS471N

Dimensions:
- 1544 mm (60.8 in.)
- 859 mm (33.8 in.)
- 559 mm (22 in.)
- 740 mm (29.13 in.)
- 900 mm (35.43 in.)
- 1499 mm (59 in.)

- 1016 mm (40 in.)
- 830 mm (32.68 in.)
- 102 mm (4 in.)

- 91 mm (3.6 in.)
- 254 mm (10 in.)
- 158 mm (6.2 in.)
- 36 mm (1.4 in.)

- 1389 mm (54.7 in.)
- 1283 mm (50.5 in.)
- 721 mm (28.4 in.)

- 165 mm (6.5 in.)
- 104 mm (4.1 in.)

- 830 mm (32.68 in.)
- 36 mm (1.4 in.)
Basic Installation/Operation

Figure 8

1 Fill and Supply Ventilation
2 Cold Water Inlet (Required)
3 Hot Water Inlet (Required)
4 Cold Water Inlet (Required)
5 Flushing Supply Dispenser
6 External Liquid Supply Inlets
7 Electrical Power Input
8 External Supply Signal Input
9 Drain Outlet
10 Reuse Drain Outlet (Optional)
11 Steam Connection Input (Optional)
Basic Installation/Operation

100 AND 135 MODELS

1 Fill and Supply Ventilation
2 Cold Water Inlet (Required)
3 Hot Water Inlet (Required)
4 Cold Water Inlet (Required)
5 Cold Water Inlet (Required)
6 Flushing Supply Dispenser
7 External Liquid Supply Inlets
8 Electrical Power Input
9 External Supply Signal Input
10 Drain Outlet
11 Reuse Drain Outlet (Optional)
12 Steam Connection Input (Optional)
13 Service Power Disconnect

Figure 9
Basic Installation/Operation

Figure 10

1 Fill and Supply Ventilation
2 Cold Water Inlet (Required)
3 Hot Water Inlet (Required)
4 Cold Water Inlet (Required)
5 Cold Water Inlet (Required)
6 Flushing Supply Dispenser
7 External Liquid Supply Inlets
8 Electrical Power Input
9 External Supply Signal Input
10 Drain Outlet
11 Reuse Drain Outlet (Optional)
12 Steam Connection Input (Optional)
13 Service Power Disconnect
Basic Installation/Operation

Fill and Supply Ventilation
Cold Water Inlet (Required)
Hot Water Inlet (Required)
Cold Water Inlet (Required)
Flushing Supply Dispenser
External Liquid Supply Inlets

Electrical Power Input
External Supply Signal Input
Drain Outlet (Standard)
Dual Drain Outlet (Optional)
Steam Connection Input (Optional)
Service Power Disconnect

Figure 11
Basic Installation/Operation

Installation

Dimensional Clearances

*Table 1* shows recommended minimum clearances on all sides of the washer-extractor.

<table>
<thead>
<tr>
<th>Model</th>
<th>18</th>
<th>25</th>
<th>33</th>
<th>35</th>
<th>40</th>
<th>55</th>
<th>75</th>
<th>100</th>
<th>135</th>
<th>165</th>
<th>200</th>
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<tbody>
<tr>
<td></td>
<td>600 mm (24 in.)</td>
<td>600 mm (24 in.)</td>
<td>600 mm (24 in.)</td>
<td>600 mm (24 in.)</td>
<td>600 mm (24 in.)</td>
<td>600 mm (24 in.)</td>
<td>600 mm (24 in.)</td>
<td>600 mm (24 in.)</td>
<td>600 mm (24 in.)</td>
<td>600 mm (24 in.)</td>
<td>600 mm (24 in.)</td>
</tr>
<tr>
<td>Minimum rear clearance</td>
<td>150 mm (6 in.)</td>
<td>150 mm (6 in.)</td>
<td>150 mm (6 in.)</td>
<td>150 mm (6 in.)</td>
<td>150 mm (6 in.)</td>
<td>150 mm (6 in.)</td>
<td>150 mm (6 in.)</td>
<td>150 mm (6 in.)</td>
<td>150 mm (6 in.)</td>
<td>150 mm (6 in.)</td>
<td>150 mm (6 in.)</td>
</tr>
<tr>
<td>Minimum clearance between machine and wall</td>
<td>25.4 mm (1 in.)</td>
<td>25.4 mm (1 in.)</td>
<td>30 mm (1.2 in.)</td>
<td>25.4 mm (1 in.)</td>
<td>30 mm (1.2 in.)</td>
<td>30 mm (1.2 in.)</td>
<td>30 mm (1.2 in.)</td>
<td>30 mm (1.2 in.)</td>
<td>30 mm (1.2 in.)</td>
<td>30 mm (1.2 in.)</td>
<td>30 mm (1.2 in.)</td>
</tr>
<tr>
<td>Minimum clearance between machines (side)</td>
<td>419 mm (16.5 in.)</td>
<td>419 mm (16.5 in.)</td>
<td>533 mm (21 in.)</td>
<td>419 mm (16.5 in.)</td>
<td>533 mm (21 in.)</td>
<td>533 mm (21 in.)</td>
<td>533 mm (21 in.)</td>
<td>533 mm (21 in.)</td>
<td>660 mm (26 in.)</td>
<td>660 mm (26 in.)</td>
<td>660 mm (26 in.)</td>
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<tr>
<td>Minimum front clearance (door swing)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 1
Machine Foundation

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

CAUTION

Ensure that the machine is installed on a level floor of sufficient strength and that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

The washer-extractor must be placed on a smooth level surface so that the entire base of the machine is supported and rests on the mounting surface.

The standard installation does not require anchoring unless mandated by state or local codes.

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

Table 2 can be used as a reference when designing floors and foundations.

<table>
<thead>
<tr>
<th>Model</th>
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<th>25</th>
<th>33</th>
<th>35</th>
<th>40</th>
<th>55</th>
<th>75</th>
<th>100</th>
<th>135</th>
<th>165</th>
<th>200</th>
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<td>1730</td>
<td>2736</td>
<td>3240</td>
<td>4105</td>
<td>6640</td>
<td>12404</td>
<td>18361</td>
<td>23257</td>
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<td>29581</td>
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<td>Dynamic Bottom Load, (N/Hz)</td>
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<td>750/16</td>
<td>1200/16</td>
<td>1200/16</td>
<td>1700/15</td>
<td>2000/15</td>
<td>2960/13</td>
<td>3900/13</td>
<td>4960/13</td>
<td>6100/13</td>
<td></td>
</tr>
</tbody>
</table>
Basic Installation/Operation

Mechanical Installation

Frame Dimensions and Mounting Bolt Location for 18, 25, 33, 35, 40, 55, 75, 100, 135, 165 and 200 Models

Figure 12

Figure 13

Figure 14

Figure 15
Figure 16

40 MODEL

Figure 17

55 MODEL

Figure 18

75 MODEL

Figure 19

100 MODEL
Basic Installation/Operation

**135 MODEL**

- 42.5 mm (1.67 in.)
- 1200 mm (47.24 in.)
- 1185 mm (46.65 in.)
- 42.5 mm (1.67 in.)
- 1270 mm (50 in.)
- 80 mm (3.15 in.)
- 1040 mm (40.94 in.)
- 80 mm (3.15 in.)

**165 MODEL**

- 33 mm (1.3 in.)
- 1300 mm (51.2 in.)
- 1185 mm (46.7 in.)
- 1251 mm (49.25 in.)
- 33 mm (1.3 in.)
- 1140 mm (44.9 in.)
- 80 mm (3.15 in.)
- 80 mm (3.15 in.)

**200 MODEL**

- 44 mm (1.73 in.)
- 1200 mm (47.24 in.)
- 1138 mm (44.8 in.)
- 44 mm (1.73 in.)
- 1185 mm (46.7 in.)
- 61 mm (3.19 in.)
- 1300 mm (51.18 in.)
- 61 mm (3.19 in.)
Mounting Bolt Installation
(If Required)

After the concrete has cured and the anchors are installed, proceed as follows:

1. Place the washer-extractor adjacent to the foundation. Do not attempt to move it by pushing on the sides. Always insert a pry bar or other device under the bottom of the frame of the washer-extractor to move it.

2. Place the washer-extractor carefully over the anchors.

3. Put bolts through the machine in the anchors and fasten them. (For the 18-25 and 35 models, the diameter of the bolt must be minimum 1/2-13 or 12 mm; for the 33-40-55-75-100-135-165 and 200 models, the diameter of the bolt must be minimum 5/8-11 or 16 mm.)

4. To level machine, fill the spaces between the machine base and floor with machinery grout. Grout completely under all frame members. Remove front and rear panels to gain access to all frame members. Force grout under the machine base until all voids are filled.

5. Remove the spacers carefully, allowing the machine to settle into the wet grout.

6. Position washers and locknuts on machinery anchor bolts and finger-tighten to machine base.

7. After the grout is completely dry, tighten the locknuts by even increments – one after the other – until all are tightened evenly and the machine is fastened securely to the floor.

8. Remove the four red transport brackets which secure the moving components of the machine during shipping. Refer to *Installation* manual for typical transport bracket locations.
## Basic Installation/Operation

### Electrical Specifications

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<th>Cycle</th>
<th>Phase</th>
<th>Wire</th>
<th>Full Load Amps</th>
<th>Circuit Breaker</th>
<th>AWG/mm²</th>
<th>Full Load Amps</th>
<th>Circuit Breaker</th>
<th>AWG/mm²</th>
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<td>1/3</td>
<td>2/3+PE</td>
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<td>15</td>
<td>14/2.5</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>N</td>
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<td>50/60</td>
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<td>3+PE</td>
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<td>15</td>
<td>14/2.5</td>
<td>21</td>
<td>25</td>
<td>10/6.0</td>
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<tr>
<td>P</td>
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<td>50/60</td>
<td>3</td>
<td>3+N+PE</td>
<td>Not available</td>
<td>18</td>
<td>20</td>
<td>12/4.0</td>
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<tr>
<td>Q</td>
<td>200-240</td>
<td>50/60</td>
<td>3</td>
<td>3+PE</td>
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<td>29</td>
<td>30</td>
<td>10/6.0</td>
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<td></td>
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<tr>
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<td>200-240</td>
<td>50/60</td>
<td>1/3</td>
<td>2/3+PE</td>
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<td>15</td>
<td>14/2.5</td>
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<td>50/60</td>
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<td>15</td>
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<td>3+PE</td>
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Table 3 (continued)
### Electrical Specifications

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Table 3
Basic Installation/Operation

Operation

Control Identification

1 Keypad
2 Display
3 Emergency Stop Button
4 Key Switch
5 Serial Port

Figure 24
Load the Machine

For models: 18PV-75PV

1. Pull the door handle towards you to open the door.

**NOTE:** Some models may have a door handle with a button that must be pressed.

2. Load the drum to the specified capacity.

3. Close the door by pushing the door handle towards the machine.

For models: 100PV-200PV

1. Push on the doorlock system to open the door.

2. Load the drum to the specified capacity.

3. Close the door by pushing the door handle towards 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 25. 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.