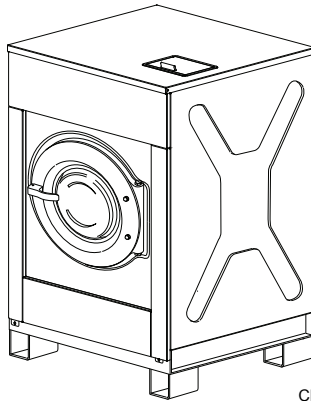


Washer-Extractors

Cabinet Freestanding

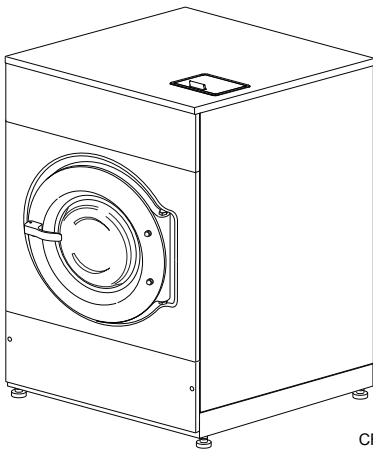
Refer to *Page 6* for Model Identification

Installation



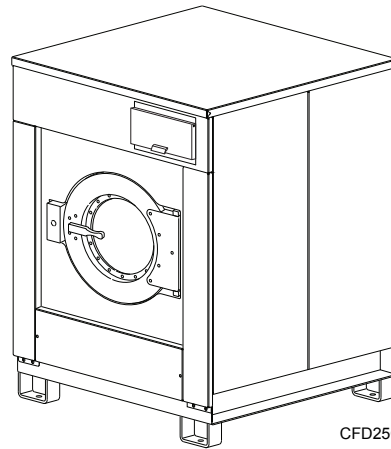
CFD23C

33, 40, 55 and 75 Models



CFD24C

18, 25, 30 and 35 Models



CFD25C

100, 135, 165 and 200 Models

Keep These Instructions for Future Reference.

(If this machine changes ownership, this manual must accompany machine.)



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Part No. 9002106R1
November 2011

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Safety Information

Explanation of Safety Messages

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

| | |
|--|---------------|
|  | DANGER |
| 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: | |
| W023 | |

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

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

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

Always contact your dealer, distributor, service agent or the manufacturer on any problems or conditions you do not understand.



WARNING

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

SW004

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



WARNING

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

SW014

Safety Decals

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

Use manufacturer-authorized spare parts to avoid safety hazards.

Introduction

Model Identification

Information in this manual is applicable to these models:

| | | | | | | |
|-----------|--|--|---|--|--|--|
| 18 | HX018PVQM7 HX018PVXM7 HX18PVQM6 HX18PVQM7 HX18PVQU6 HX18PVXM6 HX18PVXM7 HX18PVXU6 NX018BVPA7 NX018BVQA7 | NX018BVXA7 NX018BVXM7 NX18BVPA6 NX18BVPA7 NX18BVQA6 NX18BVQA7 NX18BVXA6 NX18BVXA7 NX18BVXM6 NX18BVXM7 | SX018BVPA7 SX018BVQA7 SX018BVXA7 SX018BVXM7 SX018PVPA7 SX018PVQM7 SX018PVXM7 SX18BVPA7 SX18BVQA7 SX18BVXA7 | SX18BVXM7 SX18PVPA7 SX18PVQM6 SX18PVQM7 SX18PVQU6 SX18PVXM6 SX18PVXM7 SX18PVXU6 UX018PVNA7 UX018PVPA7 UX018PVPA7 | UX018PVQA7 UX018PVQM7 UX018PVXA7 UX018PVXM7 UX18PVNA6 UX18PVNA7 UX18PVNU6 UX18PVPA6 UX18PVPA7 UX18PVPU6 | UX18PVQA6 UX18PVQA7 UX18PVQM6 UX18PVQM7 UX18PVQU6 UX18PVXA6 UX18PVXA7 UX18PVXM6 UX18PVXM7 UX18PVXU6 |
| 25 | HX025PVQM7 HX025PVXM7 HX25PVQM6 HX25PVQM7 HX25PVQU6 HX25PVXM6 HX25PVXM7 | HX25PVXU6 SX025PVQM7 SX025PVXM7 SX25PVQM6 SX25PVQM7 SX25PVQU6 SX25PVXM6 | SX25PVXM7 SX25PVXU6 UX025PVNA7 UX025PVPA7 UX025PVQA7 UX025PVQM7 UX025PVXA7 | UX025PVXM7 UX25PVNA6 UX25PVNA7 UX25PVNU6 UX25PVPA6 UX25PVPA7 UX25PVPU6 | UX25PVQA6 UX25PVQA7 UX25PVQM6 UX25PVQM7 UX25PVQU6 UX25PVXA6 UX25PVXA7 | UX25PVXM6 UX25PVXM7 UX25PVXU6 |
| 30 | NX030BVPA7 NX030BVQA7 NX030BVXA7 NX030BVXM7 | NX30BVPA6 NX30BVPA7 NX30BVQA6 NX30BVQA7 | NX30BVXA6 NX30BVXA7 NX30BVXM6 NX30BVXM7 | SX030BVPA7 SX030BVQA7 SX030BVXA7 SX030BVXM7 | SX30BVPA7 SX30BVQA7 SX30BVXA7 SX30BVXM7 | |
| 33 | SX33BVPA7 SX33BVQA7 | SX33BVXA7 SX33BVXM7 | UX33PVNA7 UX33PVPA7 | UX33PVQA7 UX33PVQM7 | UX33PVXA7 UX33PVXM7 | |
| 35 | HX035PVQM7 HX035PVXM7 HX35PVQM6 HX35PVQM7 HX35PVQU6 HX35PVXM6 HX35PVXM7 | HX35PVXU6 SX035PVNM7 SX035PVQM7 SX035PVXM7 SX35PVNM7 SX35PVQM6 SX35PVQM7 | SX35PVQU6 SX35PVXM6 SX35PVXM7 SX35PVXU6 UX035PVNA7 UX035PVPA7 UX035PVQA7 | UX035PVQM7 UX035PVXA7 UX035PVXM7 UX35PVNA6 UX35PVNA7 UX35PVNU6 UX35PVPA6 | UX35PVPA7 UX35PVPU6 UX35PVQA6 UX35PVQA7 UX35PVQM6 UX35PVQM7 UX35PVQU6 | UX35PVXA6 UX35PVXA7 UX35PVXM6 UX35PVXM7 UX35PVXU6 |
| 40 | SX40BVPA7 SX40BVQA7 | SX40BVXA7 SX40BVXM7 | UX40PVNA7 UX40PVPA7 | UX40PVQA7 UX40PVQM7 | UX40PVXA7 UX40PVXM7 | |
| 55 | HX055PVNU7 HX055PVQU7 HX055PVXU7 HX55PVNU6 HX55PVNU7 HX55PVQU6 | HX55PVQU7 HX55PVXU6 HX55PVXU7 SX055PVNU7 SX055PVNU7 SX055PVPU7 SX055PVQU7 | SX055PVXU7 SX55PVNU6 SX55PVNU7 SX55PVPU6 SX55PVPU7 SX55PVQU6 | SX55PVQU7 SX55PVXU6 SX55PVXU7 UX055PVNU7 UX055PVNU7 UX055PVPU7 UX055PVQU7 | UX055PVXF7 UX055PVXU7 UX55PVNU6 UX55PVNU7 UX55PVPU6 UX55PVPU7 | UX55PVQU6 UX55PVQU7 UX55PVXF6 UX55PVXF7 UX55PVXU6 UX55PVXU7 |
| 75 | HX075PVNU7 HX075PVPU7 HX075PVQU7 HX75PVNU6 HX75PVNU7 | HX75PVPU7 HX75PVQU6 HX75PVQU7 SX075PVNU7 SX075PVPU7 | SX075PVQU7 SX75PVNU6 SX75PVNU7 SX75PVPU7 SX75PVQU6 | SX75PVQU7 UX075PVNU7 UX075PVPU7 UX075PVQU7 UX75PVNU6 | UX75PVNU7 UX75PVPU6 UX75PVPU7 UX75PVQU6 UX75PVQU7 | |

(continued)

Introduction

(continued)

| | | | | | | |
|------------|--|--|--|--|--|------------|
| 100 | HX100PVNU6 HX100PVNU7 HX100PVPU7 | HX100PVQU6 HX100PVQU7 SX100PVNU6 | SX100PVNU7 SX100PVPU7 SX100PVQU6 | SX100PVQU7 UX100PVNU6 UX100PVNU7 | UX100PVPU6 UX100PVPU7 UX100PVQU6 | UX100PVQU7 |
| 135 | HX135PVNU6 HX135PVNU7 HX135PVPU7 | HX135PVQU6 HX135PVQU7 SX135PVNU6 | SX135PVNU7 SX135PVPU7 SX135PVQU6 | SX135PVQU7 UX135PVNU6 UX135PVNU7 | UX135PVPU6 UX135PVPU7 UX135PVQU6 | UX135PVQU7 |
| 165 | HX165PVNU6 HX165PVNU7 HX165PVPU7 | HX165PVQU6 HX165PVQU7 SX165PVNU6 | SX165PVNU7 SX165PVPU7 SX165PVQU6 | SX165PVQU7 UX165PVNU6 UX165PVNU7 | UX165PVPU6 UX165PVPU7 UX165PVQU6 | UX165PVQU7 |
| 200 | HX200PVNU7 HX200PVPU7 | HX200PVQU7 SX200PVNU7 | SX200PVPU7 SX200PVQU7 | UX200PVNU7 UX200PVPU7 | UX200PVQU7 | |

Nameplate Location

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

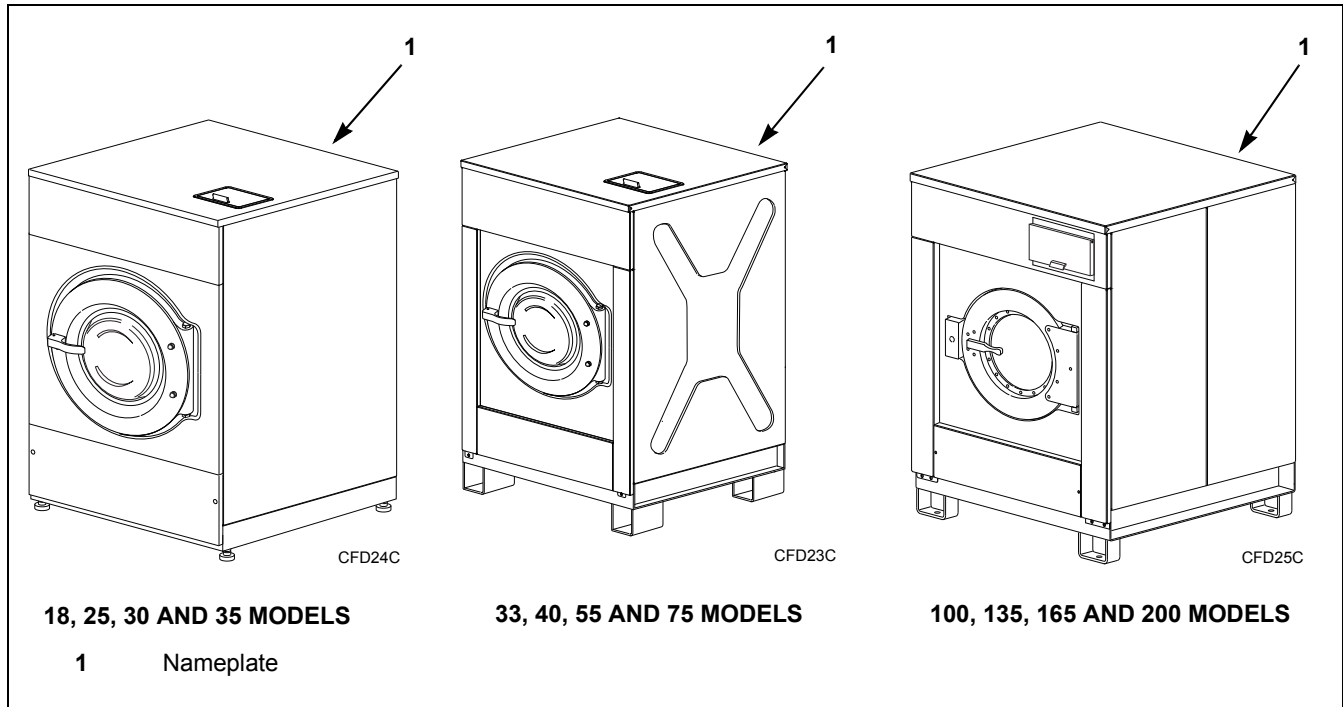


Figure 1

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, Wisconsin 54971-0990
 U.S.A.

www.coinlaundry.com
 Phone: +1 (920) 748-3121
 +32 56 41 20 54
 Wevelgem, Belgium

Specifications and Dimensions

| General Specifications | | | | | | |
|--|---|---|---|---|---|--|
| Model | 18 | 25 | 30 | 33 | 35 | 40 |
| Overall Dimensions | | | | | | |
| Overall width | 26 in. (660 mm) | 26 in. (660 mm) | 30.71 in. (780 mm) | 30.71 in. (780 mm) | 30.8 in. (783 mm) | 30.71 in. (780 mm) |
| Overall height | 40.6 in. (1031 mm) | 40.6 in. (1031 mm) | 47.3 in. (1202 mm) | 54.15 in. (1376 mm) | 47 in. (1194 mm) | 54.15 in. (1376 mm) |
| Overall depth | 30.7 in. (780 mm) | 34.3 in. (870 mm) | 33.1 in. (842 mm) | 33.07 in. (840 mm) | 37.8 in. (960 mm) | 37.01 in. (940 mm) |
| Weight and Shipping Information | | | | | | |
| Net weight † | 465 lb. (211 kg) | 520 lb. (236 kg) | 716.5 lb. (325 kg) | 811.30 lb. (368 kg) | 789 lb. (358 kg) | 862.01 lb. (391 kg) |
| Net weight †† | 520 lb. (236 kg) | 531 lb. (241 kg) | N/A | N/A | 765 lb. (347 kg) | N/A |
| Shipping weight † | 514 lb. (233 kg) | 569 lb. (258 kg) | 782.6 lb. (355 kg) | 844.37 lb. (383 kg) | 855 lb. (388 kg) | 921.53 lb. (418 kg) |
| Shipping weight †† | 624 lb. (283 kg) | 639.5 lb. (290 kg) | N/A | N/A | 1030 lb. (467 kg) | N/A |
| Shipping volume | 22.5 ft ³ (0.8 m ³) | 24.5 ft ³ (0.9 m ³) | 34.7 ft ³ (1.3 m ³) | 42.83 ft ³ (1.21 m ³) | 34.7 ft ³ (1.3 m ³) | 45.98 ft ³ (1.3 m ³) |
| Wash Cylinder Information | | | | | | |
| Cylinder diameter | 20.9 in. (530 mm) | 20.9 in. (530 mm) | 25.6 in. (650 mm) | 26.77 in. (680 mm) | 25.6 in. (650 mm) | 26.77 in. (680 mm) |
| Cylinder depth | 13.6 in. (345 mm) | 17.3 in. (440 mm) | 15.76 in. (400 mm) | 15.75 in. (400 mm) | 19.7 in. (500 mm) | 19.69 in. (500 mm) |
| Cylinder volume | 2.7 ft ³ (76 l) | 3.43 ft ³ (97 l) | 4.66 ft ³ (135 l) | 5.12 ft ³ (145 l) | 5.9 ft ³ (167 l) | 6.39 ft ³ (181 l) |
| Perforation size | 0.1 in. (3 mm) | 0.1 in. (3 mm) | 0.12 in. (3 mm) | 0.1 in. (3 mm) | 0.1 in. (3 mm) | 0.1 in. (3 mm) |
| Door Opening Information | | | | | | |
| Door opening size | 11.8 in. (300 mm) | 11.8 in. (300 mm) | 11.8 in. (300 mm) | 15.75 in. (400 mm) | 11.8 in. (300 mm) | 15.75 in. (400 mm) |
| Height of door bottom above floor | 11 in. (279 mm) | 11 in. (279 mm) | 15 in. (381 mm) | 18.58 in. (472 mm) | 15.6 in. (395 mm) | 18.58 in. (472 mm) |

† For Models with A or M in the 8th Position (e.g. *X18PVXA6) or 9th Position (e.g. *X018PVXA7) of the model number

†† For Models with U in the 8th Position (e.g. *X18PVXU6) or 9th Position (e.g. *X018PVXU7) of the model number

Specifications and Dimensions

| General Specifications | | | | | | |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Model | 18 | 25 | 30 | 33 | 35 | 40 |
| Drive Train Information | | | | | | |
| Number of motors in drive train | 1 | 1 | 1 | 1 | 1 | 1 |
| Drive motor power | 1 HP (0.75 kW) | 1 HP (0.75 kW) | 2 HP (1.5 kW) | 2.95 HP (2.2 kW) | 2 HP (1.5 kW) | 2.95 HP (2.2 kW) |
| Cylinder Speeds | | | | | | |
| Wash/reverse speed | 10-50 RPM | 10-50 RPM | 10-50 RPM | 10-50 RPM | 10-50 RPM | 10-50 RPM |
| Distribution/drain speed | 85 RPM | 82 RPM | 85 RPM | 85 RPM | 74 RPM | 85 RPM |
| Extract speed | 250-1000 RPM | 250-1000 RPM | 250-1000 RPM | 250-1000 RPM | 250-1000 RPM | 250-1000 RPM |
| Centrifugal Force Data | | | | | | |
| Wash/reverse centrifugal force | 0.03-0.74 Gs | 0.03-0.74 Gs | 0.4-0.91 Gs | 0.37-0.94 Gs | 0.04-0.91 Gs | 0.37-0.94 Gs |
| Extract centrifugal force | 19-296 Gs | 19-296 Gs | 23-363 Gs | 24-377 Gs | 23-363 Gs | 24-377 Gs |
| Balance Detection | | | | | | |
| Vibration safety switch installed | Standard | Standard | Standard | Standard | Standard | Standard |
| Direct Steam Heating (Optional) | | | | | | |
| Steam inlet connection size | 0.38 in. (10 mm) | 0.38 in. (10 mm) | .375 in. (10 mm) | .375 in. (10 mm) | 0.38 in. (10 mm) | .375 in. (10 mm) |
| Number of steam inlets | 1 | 1 | 1 | 1 | 1 | 1 |
| Electrical Heating (Optional) | | | | | | |
| Total electrical heating capacity | 9 kW | 9 kW | 18 kW | 18 kW | 18 kW | 18 kW |
| Electrical heating elements | 3 | 3 | 6 | 6 | 6 | 6 |
| Electrical heat element size | 3 kW | 3 kW | 3 kW | 3 kW | 3 kW | 3kW |

Specifications and Dimensions

| General Specifications | | | | | | |
|--|---|---|--|--|--|--|
| Model | 55 | 75 | 100 | 135 | 165 | 200 |
| Overall Dimensions | | | | | | |
| Overall width | 35.4 in. (900 mm) | 41.8 in. (1060 mm) | 47.3 in. (1200 mm) | 47.3 in. (1200 mm) | 51.8 in. (1300 mm) | 51.8 in. (1300 mm) |
| Overall height | 60.8 in. (1544 mm) | 61.4 in. (1560 mm) | 75.6 in. (1920 mm) | 75.6 in. (1920 mm) | 82.7 in. (2100 mm) | 82.68 in. (2100 mm) |
| Overall depth | 40 in. (1016 mm) | 46 in. (1168 mm) | 52.4 in. (1330 mm) | 59.1 in. (1500 mm) | 63.8 in. (1620 mm) | 71.18 in. (1808 mm) |
| Weight and Shipping Information | | | | | | |
| Net weight | 1247 lb. (570 kg) | 1907 lb. (865 kg) | 3351 lb. (1520 kg) | 3626 lb. (1645 kg) | 4630 lb. (2100 kg) | 6393.41 lb. (2900 kg) |
| Shipping weight | 1380 lb. (630 kg) | 2194 lb. (995 kg) | 3741 lb. (1697 kg) | 4017 lb. (1822 kg) | 5113 lb. (2319 kg) | 6613.86 lb. (3000 kg) |
| Shipping volume | 54.9 ft ³ (1.5 m ³) | 74 ft ³ (2.1 m ³) | 115 ft ³ (3.3 m ³) | 131 ft ³ (3.7 m ³) | 162 ft ³ (4.4 m ³) | 217.89 ft ³ (6.17 m ³) |
| Wash Cylinder Information | | | | | | |
| Cylinder diameter | 29.5 in. (750 mm) | 33.5 in. (850 mm) | 38.6 in. (980 mm) | 38.6 in. (980 mm) | 43.1 in. (1095 mm) | 43.11 in. (1095 mm) |
| Cylinder depth | 20.9 in. (530 mm) | 21.1 in. (537 mm) | 23.5 in. (597 mm) | 30.5 in. (775 mm) | 30.5 in. (775 mm) | 37.68 in. (957 mm) |
| Cylinder volume | 8.27 ft ³ (234 l) | 10.76 ft ³ (305 l) | 15.92 ft ³ (451 l) | 20.66 ft ³ (585 l) | 25.8 ft ³ (730 l) | 31.748 ft ³ (9001 l) |
| Perforation size | 0.1 in. (3 mm) | 0.1 in. (3 mm) | 0.1 in. (3 mm) | 0.1 in. (3 mm) | 0.1 in. (3 mm) | 0.1 in. (3 mm) |
| Door Opening Information | | | | | | |
| Door opening size | 15.6 in. (395 mm) | 15.6 in. (395 mm) | 19.7 in. (500 mm) | 19.7 in. (500 mm) | 24.5 in. (622 mm) | 24.5 in. (622 mm) |
| Height of door bottom above floor | 22 in. (559 mm) | 22 in. (559 mm) | 25.5 in. (648 mm) | 25.5 in. (648 mm) | 28 in. (710 mm) | 23.74 in. (603 mm) |

| General Specifications | | | | | | |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Model | 55 | 75 | 100 | 135 | 165 | 200 |
| Drive Train Information | | | | | | |
| Number of motors in drive train | 1 | 1 | 1 | 1 | 1 | 1 |
| Drive motor power | 4 HP (3 kW) | 5.4 HP (4 kW) | 7.4 HP (5.5 kW) | 10 HP (7.5 kW) | 15 HP (11.5 kW) | 20 HP (15 kW) |
| Cylinder Speeds | | | | | | |
| Wash/reverse speed | 10-50 RPM | 10-50 RPM | 10-50 RPM | 10-50 RPM | 10-50 RPM | 10-50 RPM |
| Distribution/drain speed | 69 RPM | 65 RPM | 61 RPM | 61 RPM | 100 RPM | 80 RPM |
| Extract speed | 250-1000 RPM | 250-1000 RPM | 250-800 RPM | 250-800 RPM | 250-750 RPM | 250-750 RPM |
| Centrifugal Force Data | | | | | | |
| Wash/reverse centrifugal force | 0.04-1.05 Gs | 0.05-1.19 Gs | 0.06-1.37 Gs | 0.06-1.37 Gs | 0.06-1.52 Gs | 0.06-1.52 Gs |
| Extract centrifugal force | 26-418 Gs | 30-475 Gs | 34-350 Gs | 34-350 Gs | 34-344 Gs | 34-342 Gs |
| Balance Detection | | | | | | |
| Vibration safety switch installed | Standard | Standard | Standard | Standard | Standard | Standard |
| Direct Steam Heating (Optional) | | | | | | |
| Steam inlet connection size | 0.38 in. (10 mm) | 0.38 in. (10 mm) | 0.38 in. (10 mm) | 0.38 in. (10 mm) | 0.75 in. (19 mm) | 0.75 in. (19 mm) |
| Number of steam inlets | 1 | 1 | 1 | 1 | 1 | 1 |
| Electrical Heating (Optional) | | | | | | |
| Total electrical heating capacity | 18 kW | 18 kW | 27 kW | 27 kW | N/A | 36 kW |
| Electrical heating elements | 6 | 6 | 9 | 9 | N/A | 9 |
| Electrical heat element size | 3 kW | 3 kW | 3 kW | 3 kW | N/A | 4 kW |

Specifications and Dimensions

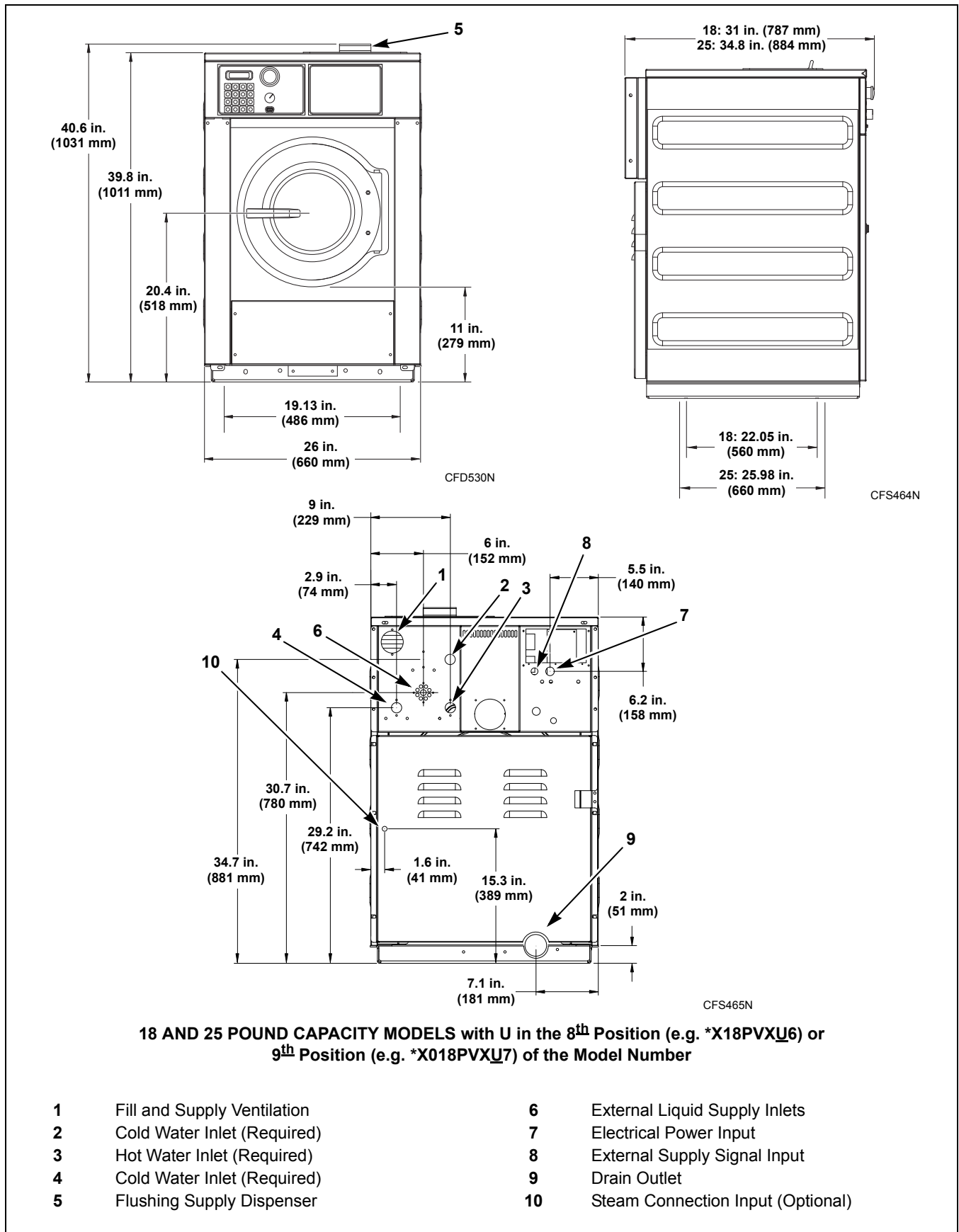


Figure 2

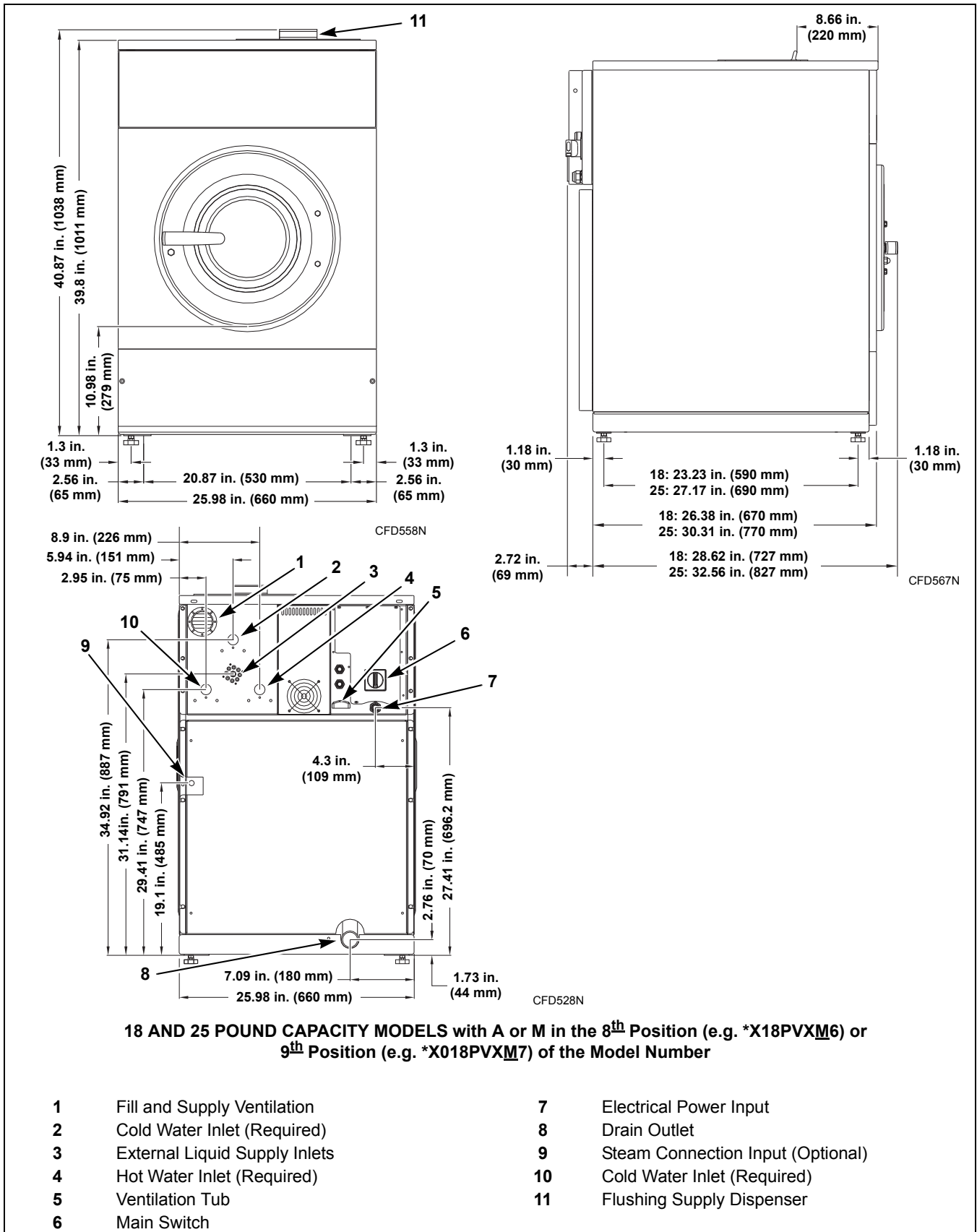
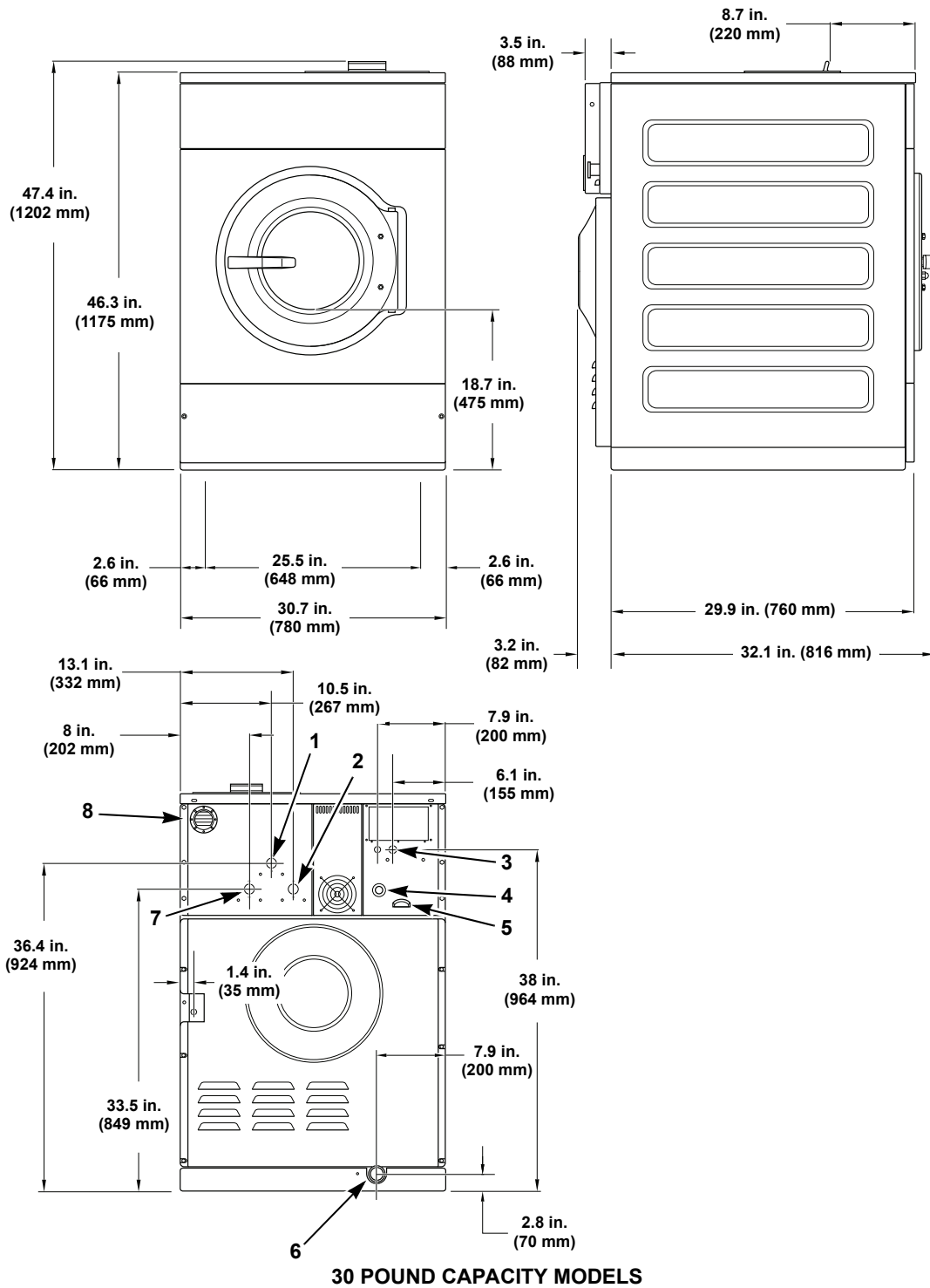


Figure 3

Specifications and Dimensions



- | | | | |
|----------|---|----------|---|
| 1 | Hot Water Connections .75 in. (19 mm) | 5 | Ventilation Tub |
| 2 | Cold Water Inlet (required) .75 in. (19 mm) | 6 | Drain Outlet |
| 3 | Power Input | 7 | Cold Water Inlet (required) .75 in. (19 mm) |
| 4 | Emergency Stop Button | 8 | Fill and Supply Ventilation |

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Figure 4

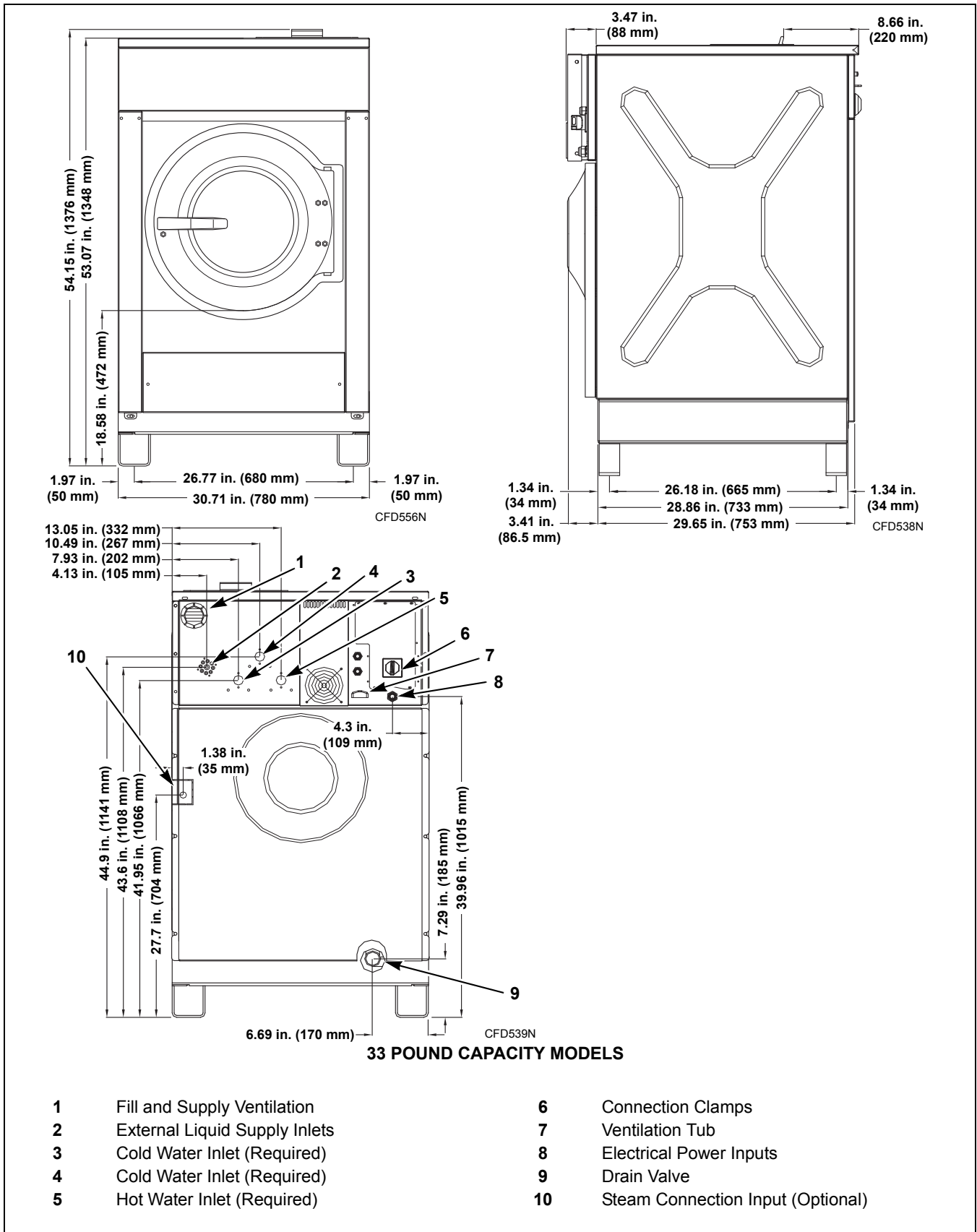


Figure 5

Specifications and Dimensions

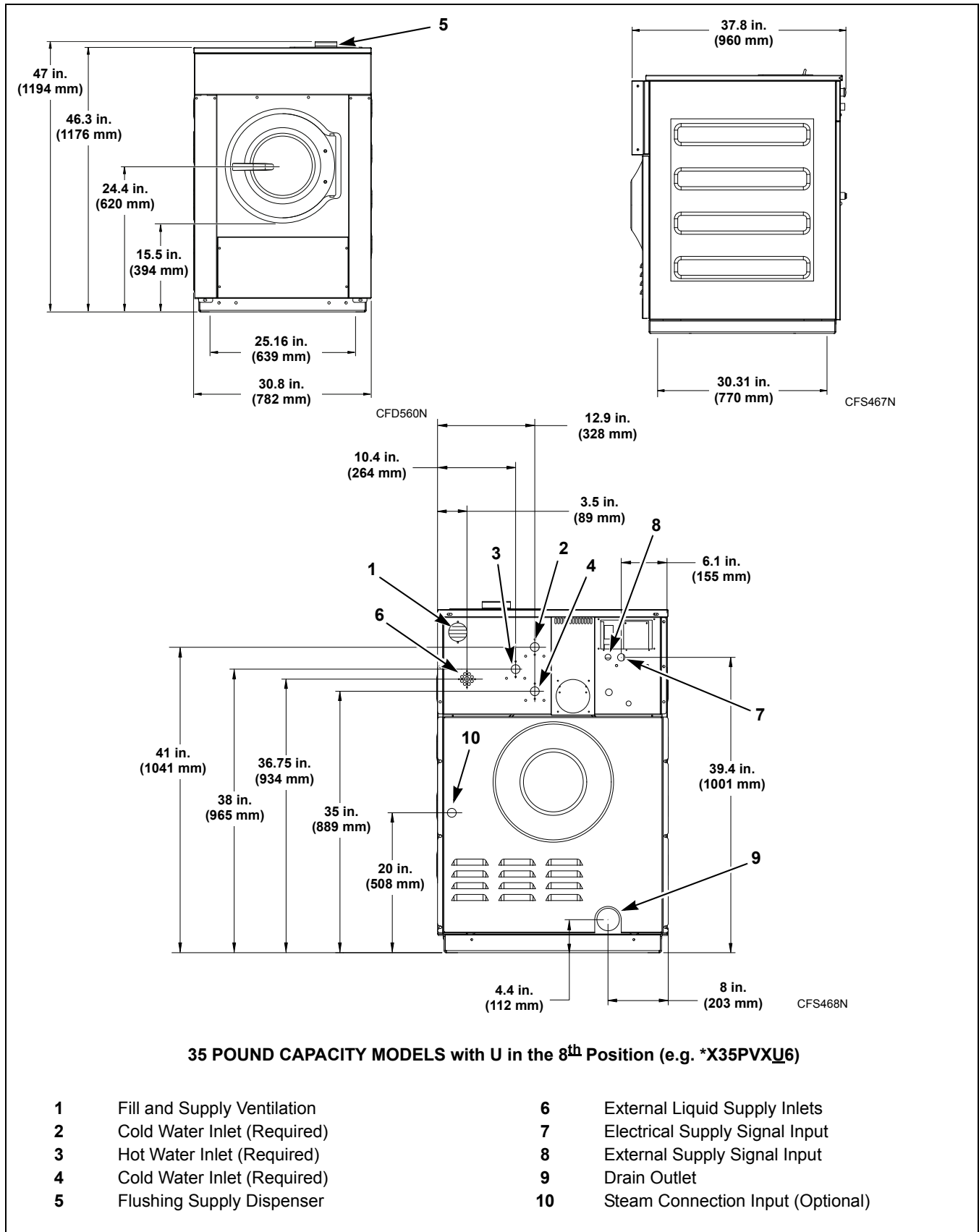


Figure 6

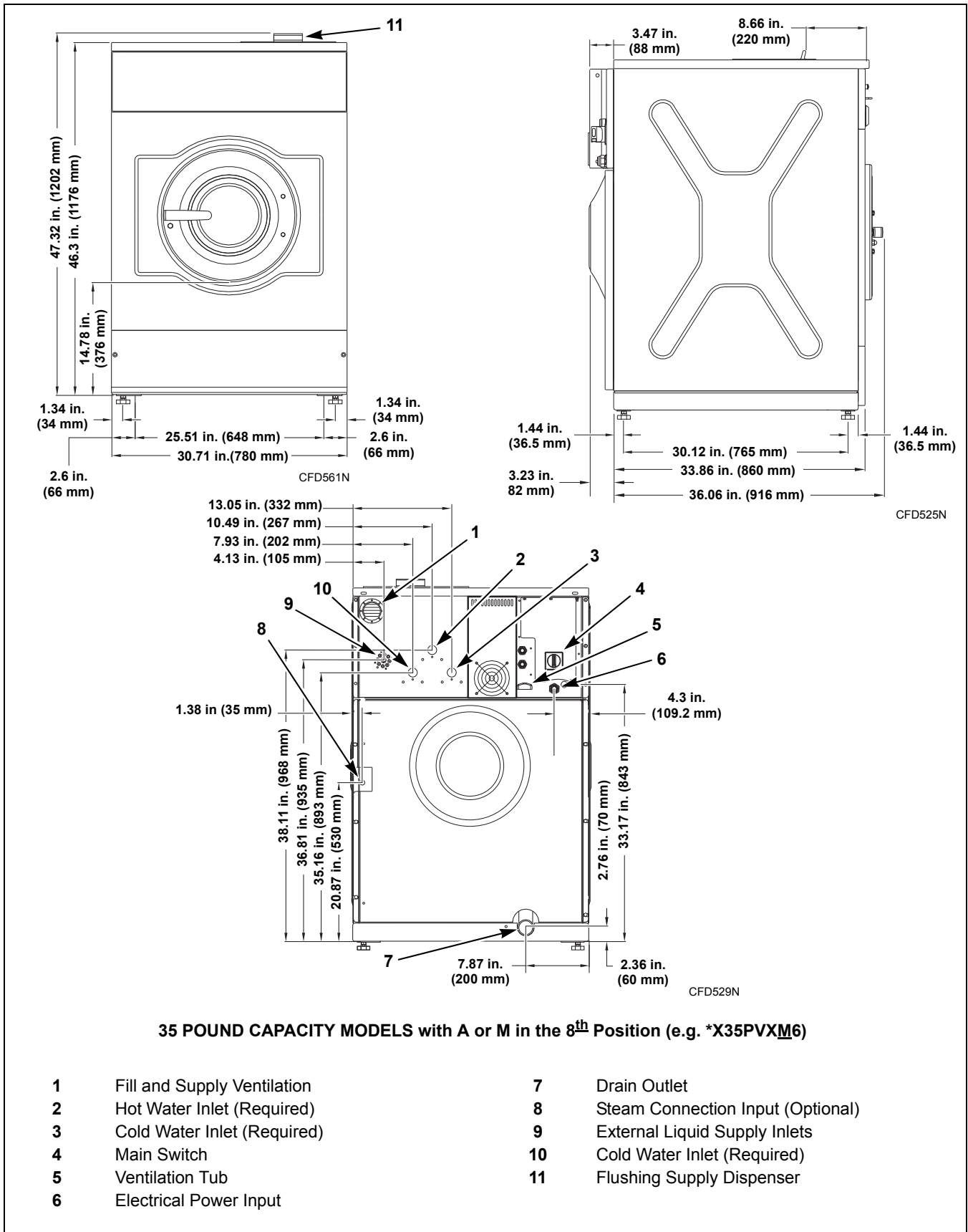


Figure 7

Specifications and Dimensions

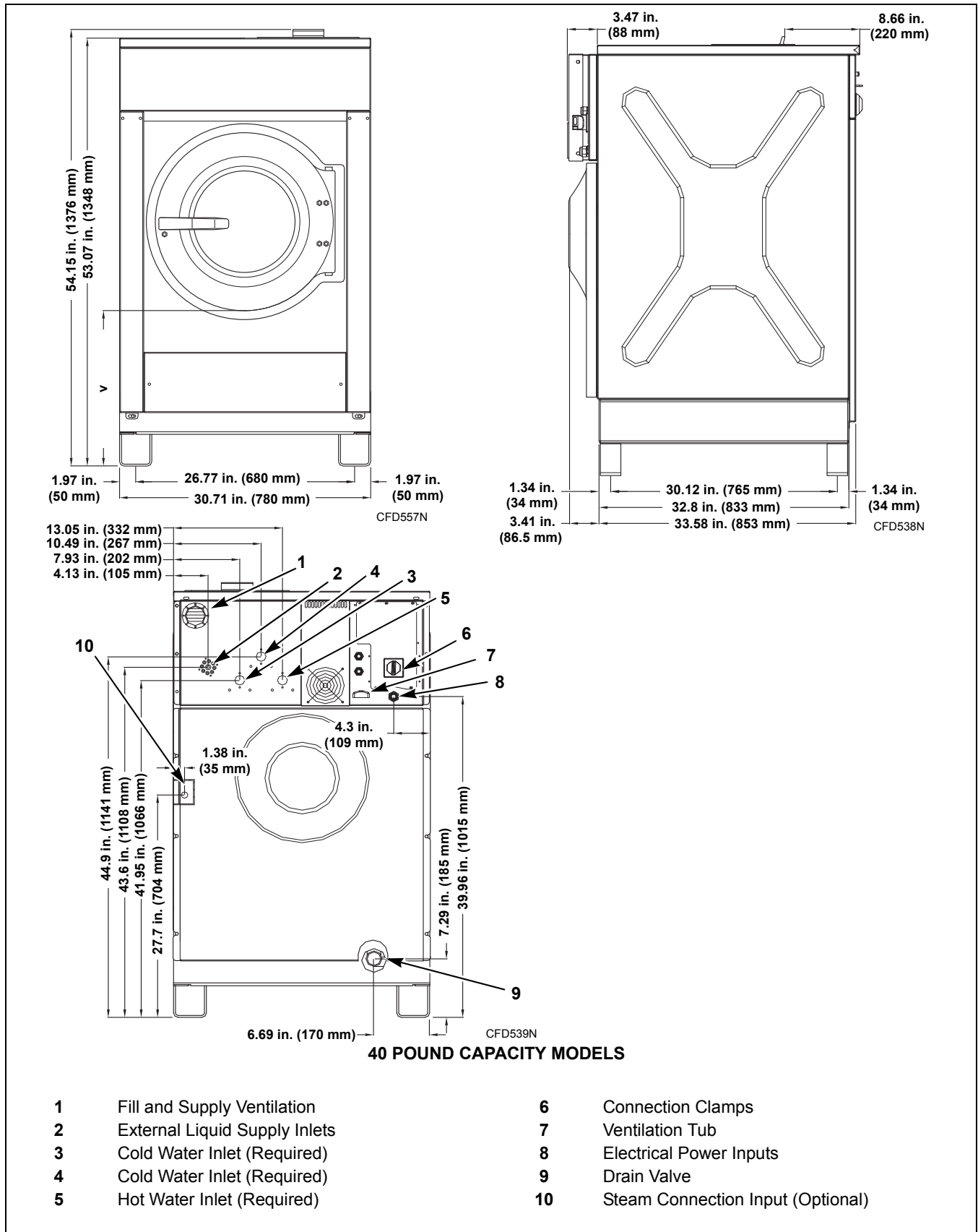


Figure 8

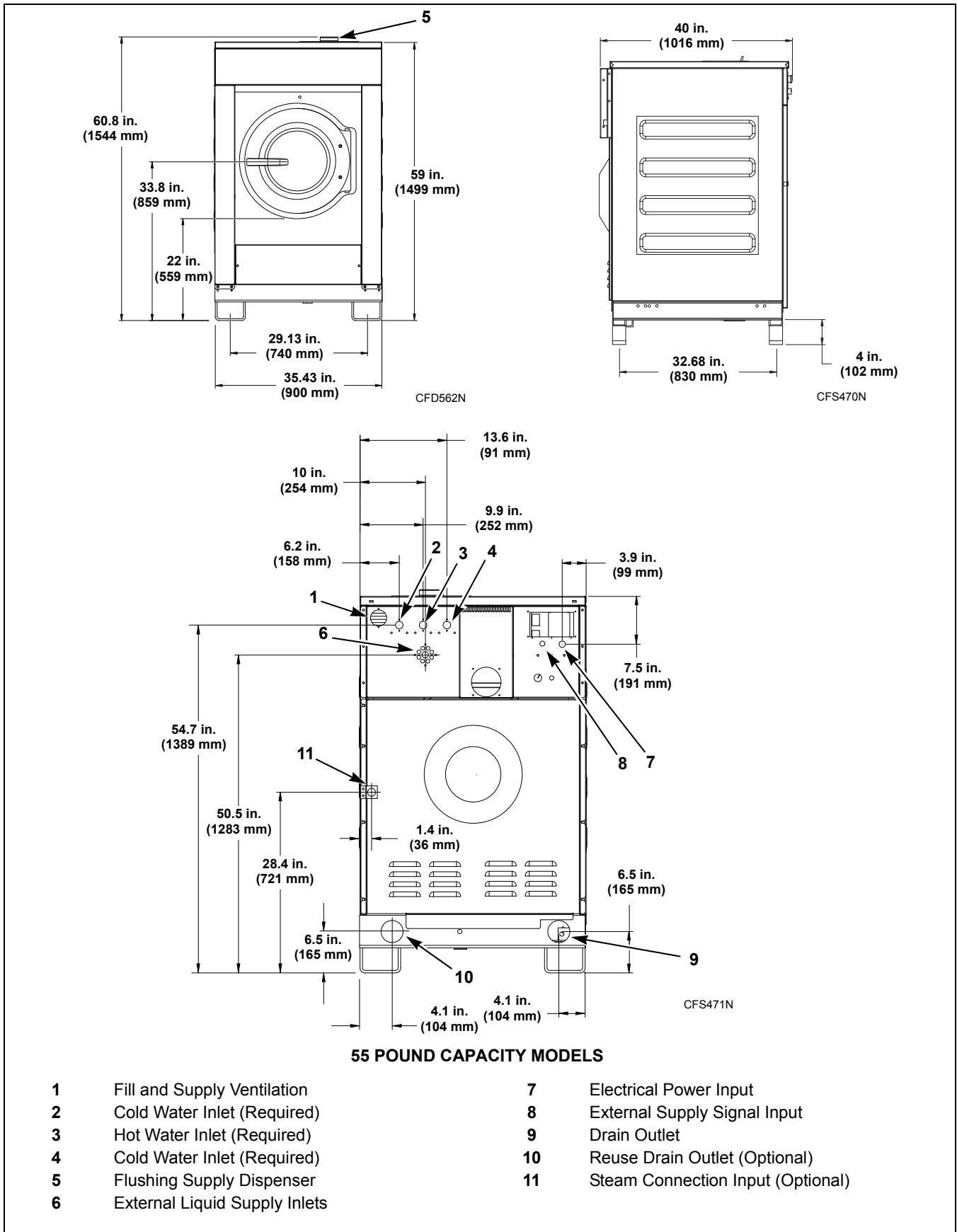


Figure 9

Specifications and Dimensions

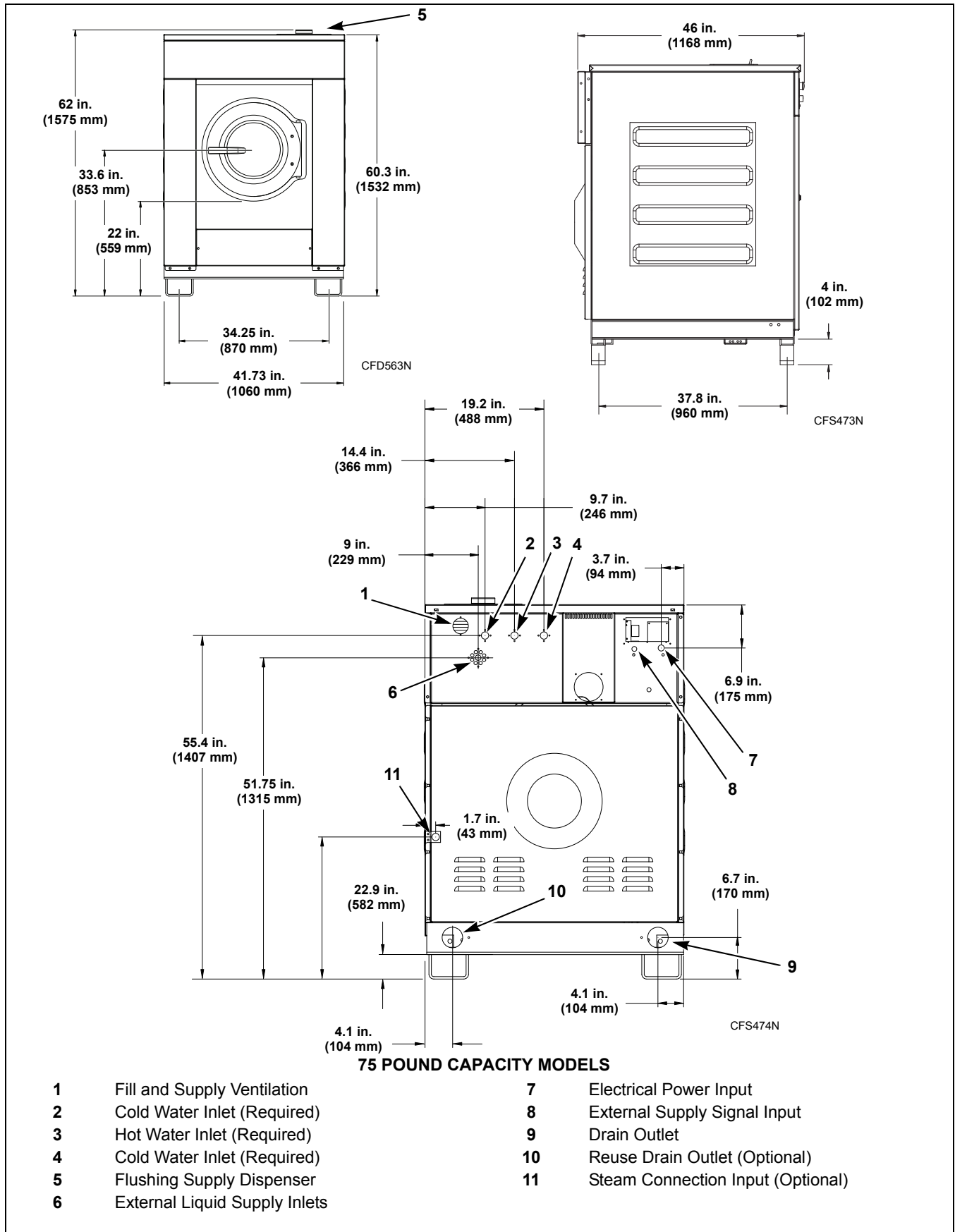


Figure 10

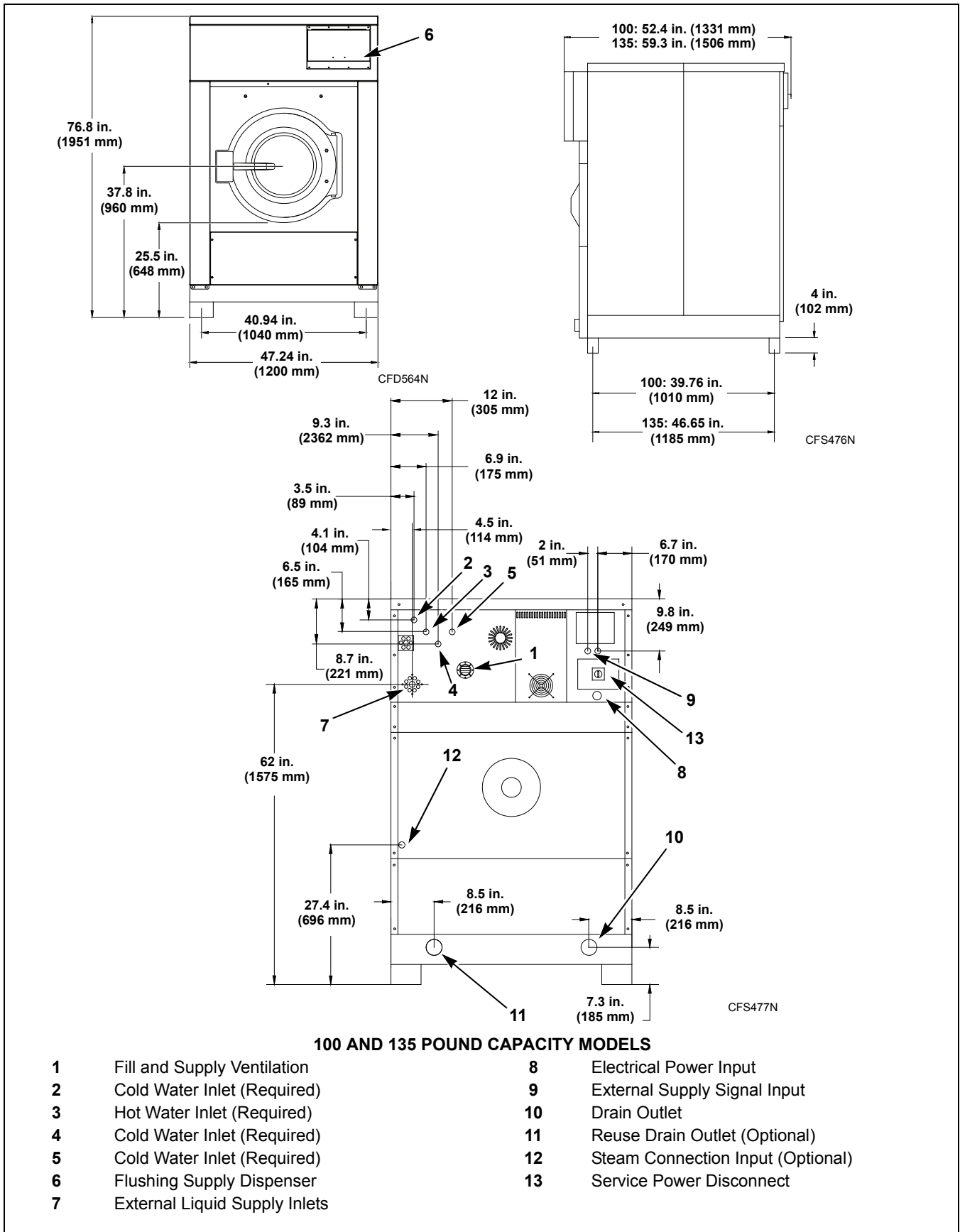
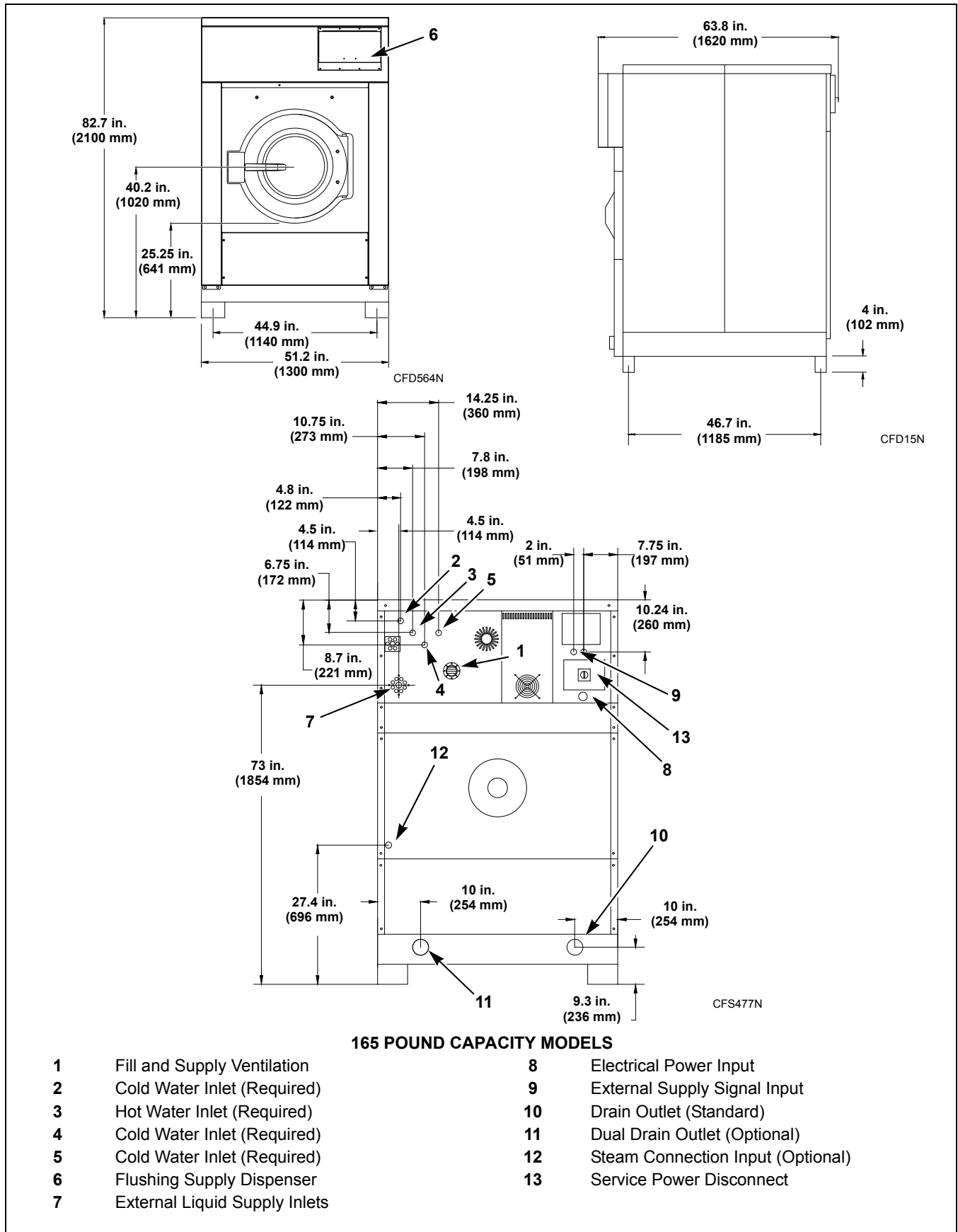


Figure 11

Specifications and Dimensions



165 POUND CAPACITY MODELS

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

Figure 12

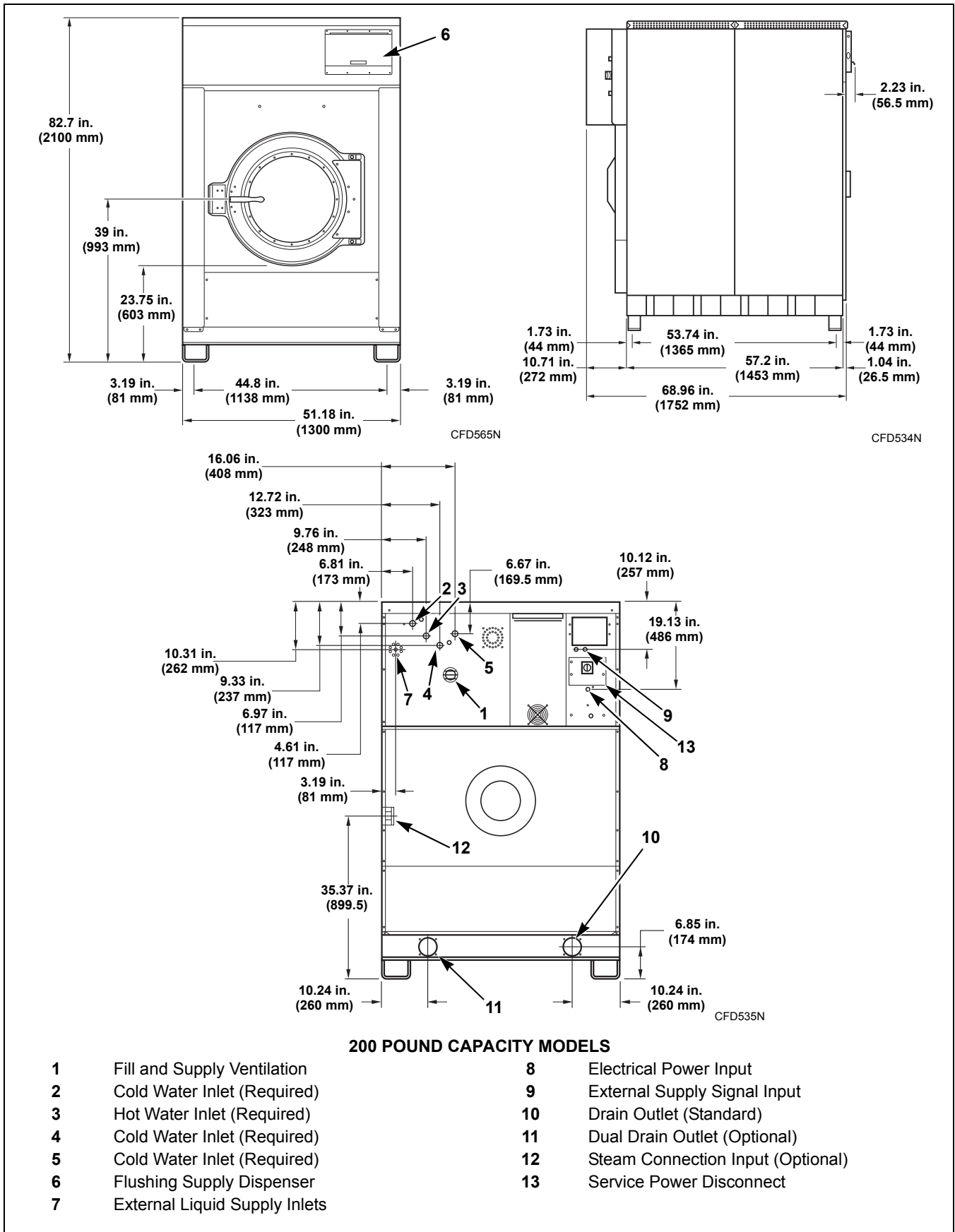


Figure 13

Installation

Dimensional Clearances


Table 1 shows recommended minimum clearances on all sides of the machine.

| Recommended Minimum Clearances | | | | | | | | | | | | |
|--|----------------------|----------------------|----------------------|--------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Model | 18 | 25 | 30 | 33 | 35 | 40 | 55 | 75 | 100 | 135 | 165 | 200 |
| Minimum rear clearance | 24 in. (600 mm) | 24 in. (600 mm) | 24 in. (600 mm) | 24 in. (600 mm) | 24 in. (600 mm) | 24 in. (600 mm) | 24 in. (600 mm) | 24 in. (600 mm) | 24 in. (600 mm) | 24 in. (600 mm) | 24 in. (600 mm) | 24 in. (600 mm) |
| Minimum clearance between machine and wall | 6 in. (150 mm) | 6 in. (150 mm) | 6 in. (150 mm) | 6 in. (150 mm) | 6 in. (150 mm) | 6 in. (150 mm) | 6 in. (150 mm) | 6 in. (150 mm) | 6 in. (150 mm) | 6 in. (150 mm) | 6 in. (150 mm) | 6 in. (150 mm) |
| Minimum clearance between machines (side) | 1.2 in. (30 mm) | 1.2 in. (30 mm) | 1 in. (25.4 mm) | 1.2 in. (30 mm) | 1.2 in. (30 mm) | 1.2 in. (30 mm) | 1.2 in. (30 mm) | 1.2 in. (30 mm) | 1.2 in. (30 mm) | 1.2 in. (30 mm) | 1.2 in. (30 mm) | 1.2 in. (30 mm) |
| Minimum front clearance (door swing) | 16.5 in. (419 mm) | 16.5 in. (419 mm) | 16.5 in. (419 mm) | 21 in. (533 mm) | 16.5 in. (419 mm) | 21 in. (533 mm) | 21 in. (533 mm) | 21 in. (533 mm) | 26 in. (660 mm) | 26 in. (660 mm) | 26 in. (660 mm) | 26 in. (660 mm) |

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 |
| <p>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.</p> | |
| W488 | |

The machine 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.

If installing a foundation and pad, prepare a form for the above-ground portion of the foundation. Verify that the top of the foundation is level. The height of the foundation and pad must not exceed 8 inches (203 mm) above the existing floor.

IMPORTANT: Mounting bolts MUST be used for installation on the 18, 25 and 35 pound models equipped with steam heat and models installed on metal base frames. Refer to Mounting Bolt Installation.

| Floor Load Data | | | | | | | | | | | | |
|---------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Model | 18 | 25 | 30 | 33 | 35 | 40 | 55 | 75 | 100 | 135 | 165 | 200 |
| Kinetic Energy of the Cylinder, (N/m) | 1386 | 1730 | 2592 | 2736 | 3240 | 4105 | 6640 | 12404 | 18361 | 23257 | 29581 | 29581 |
| Dynamic Bottom Load, (N/Hz) | 700/16 | 750/16 | 1000/16 | 1200/16 | 1200/16 | 1200/16 | 1700/15 | 2000/15 | 2960/13 | 3900/13 | 4960/13 | 6100/13 |

Table 2

Installation

Mechanical Installation

Frame Dimensions and Mounting Bolt Location

IMPORTANT: Drawings are not to scale.

18, 25, 35, 55, 75, 100, 135 and 165 Pound Capacity with U in the 8th Position (e.g. *X18PVXU6) or 9th Position (e.g. *X018PVXU7) of the Model Number

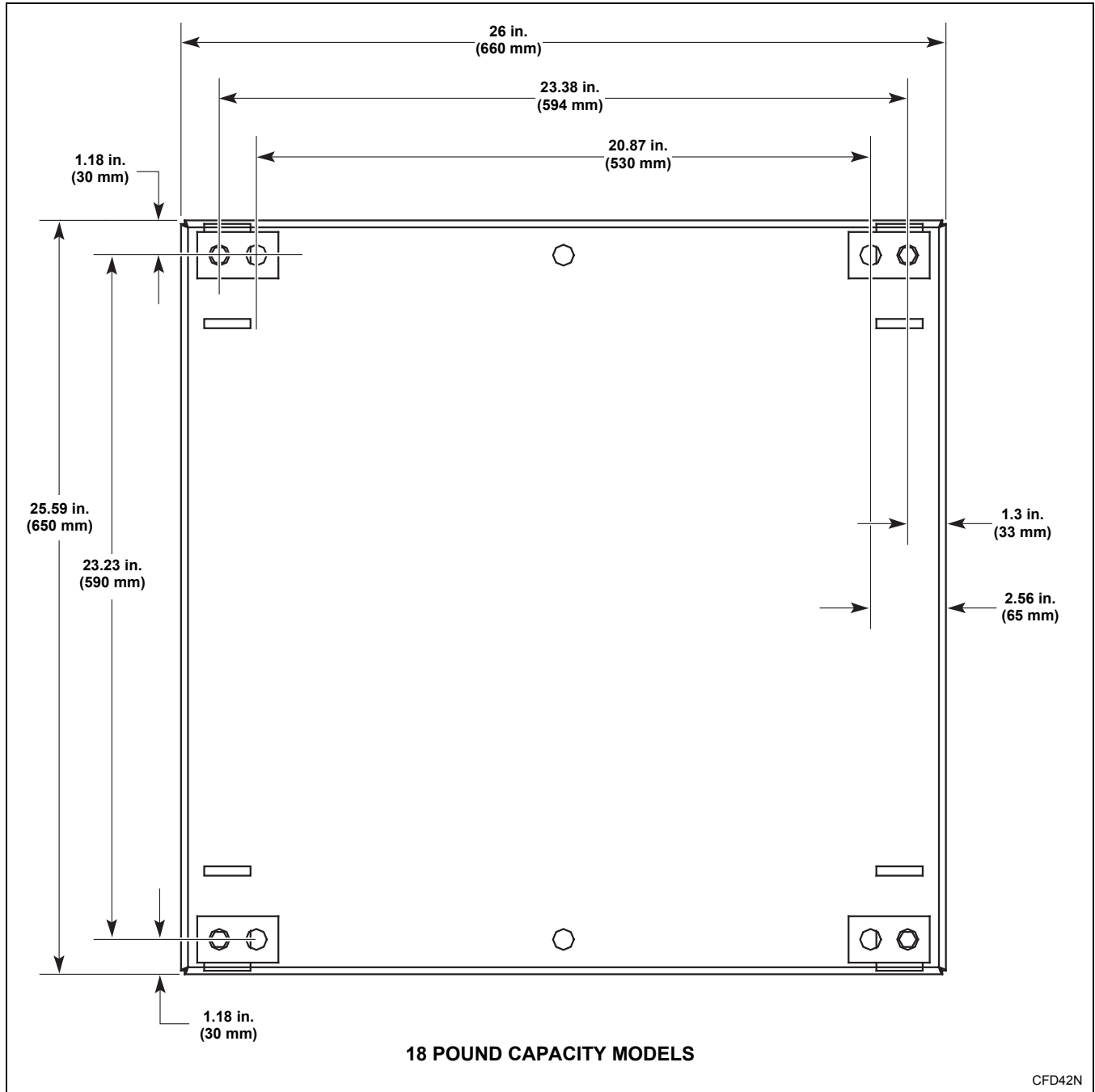


Figure 14

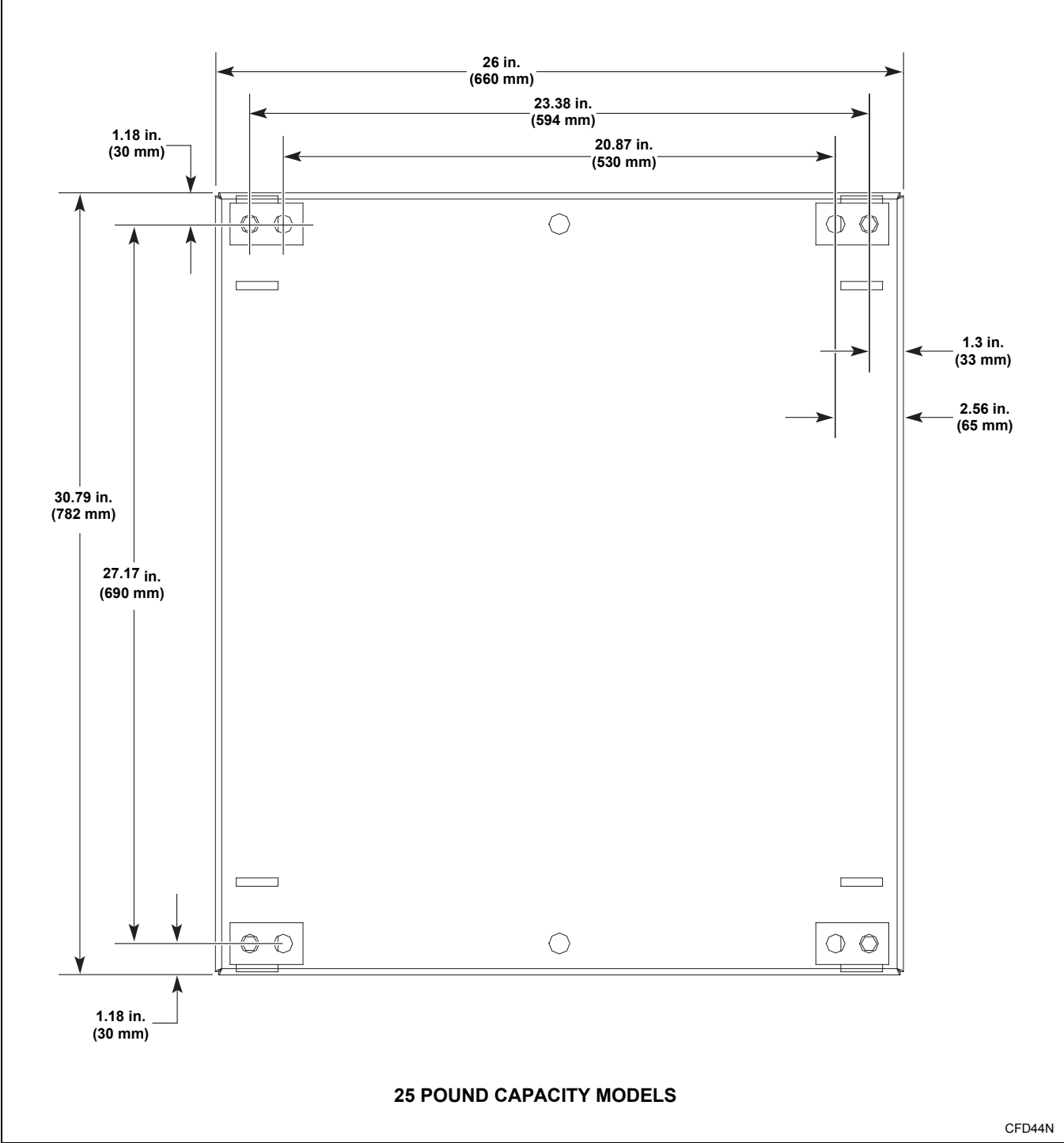


Figure 15

Installation

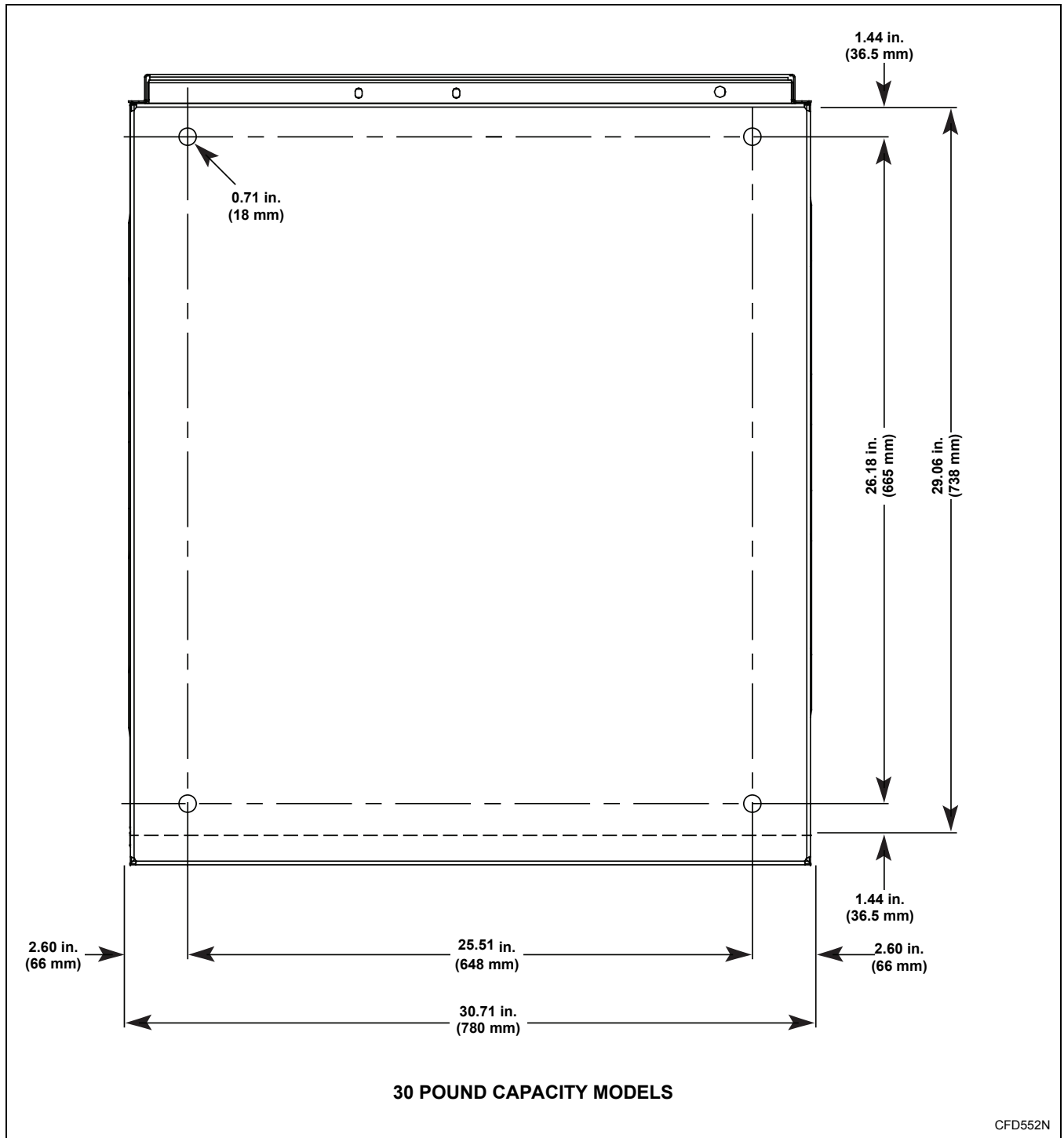


Figure 16

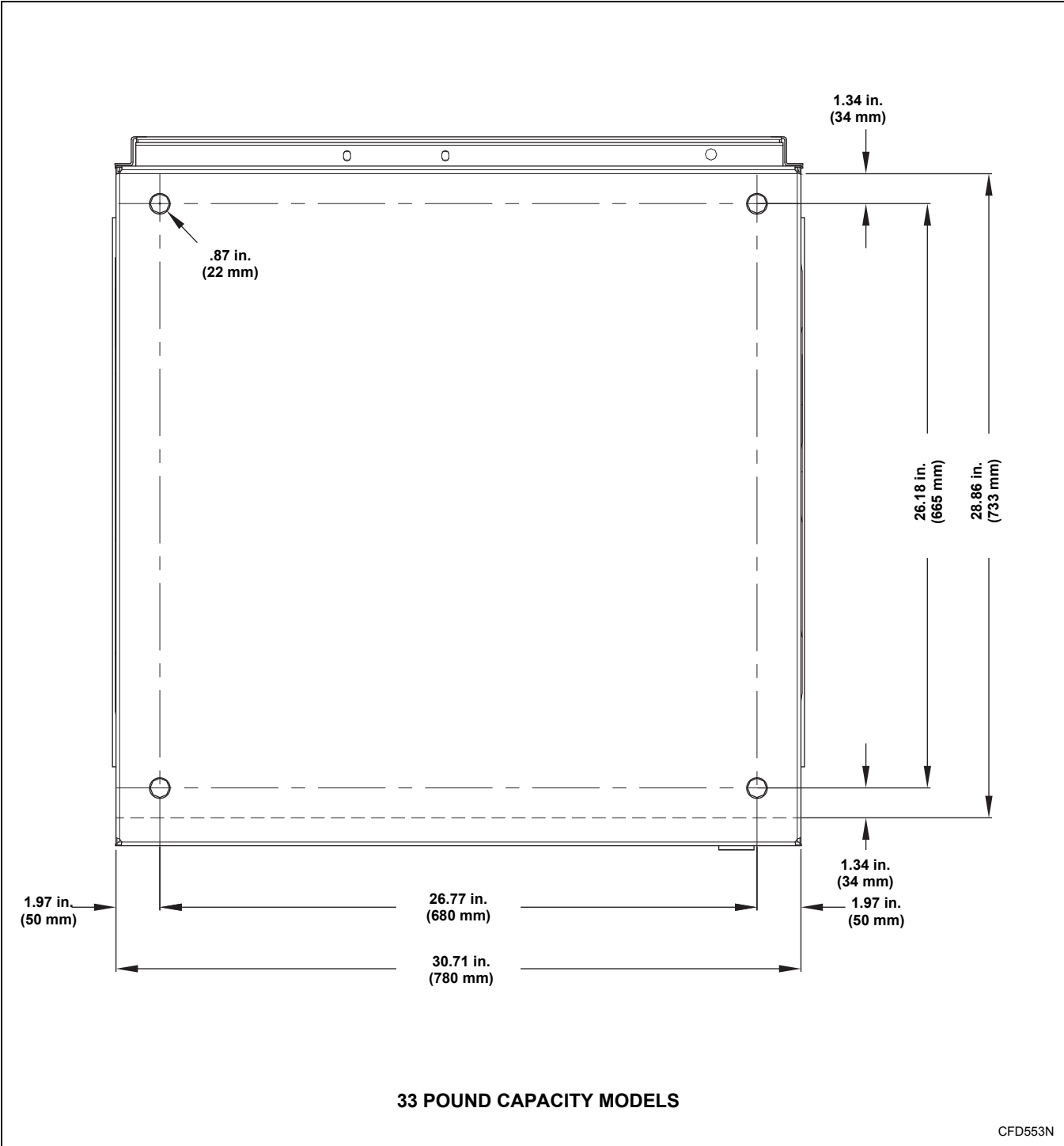


Figure 17

Installation

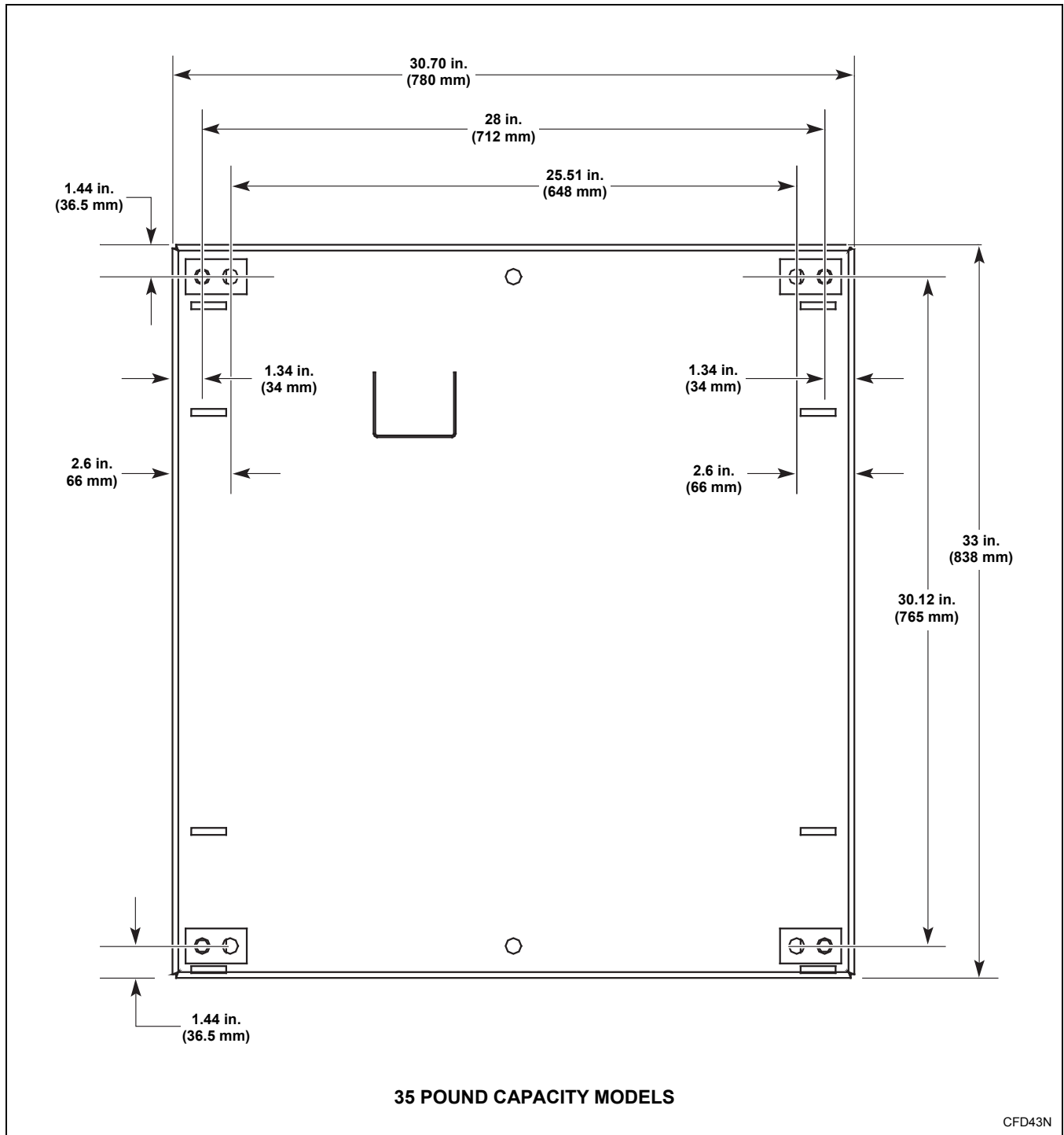


Figure 18

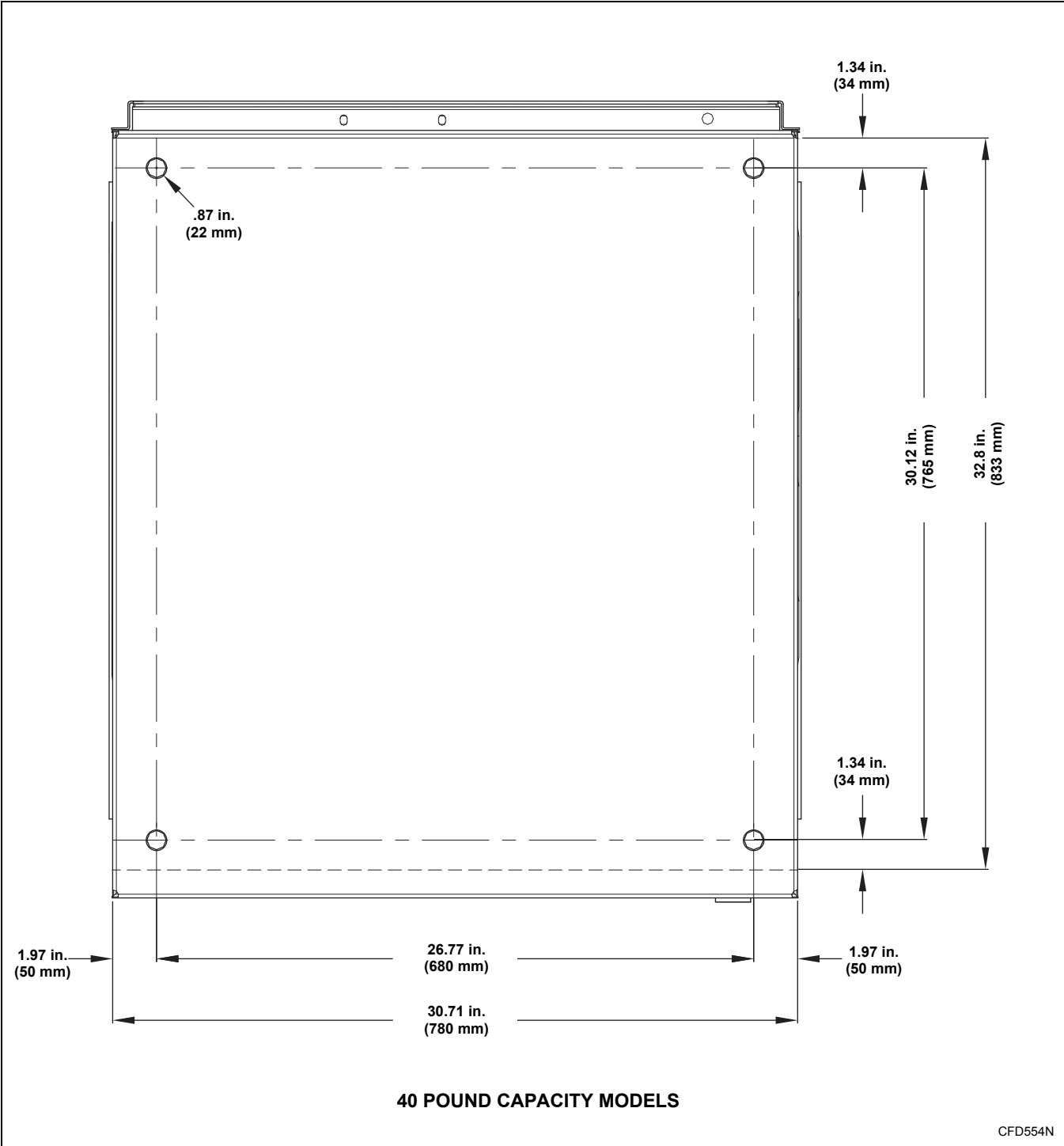


Figure 19

Installation

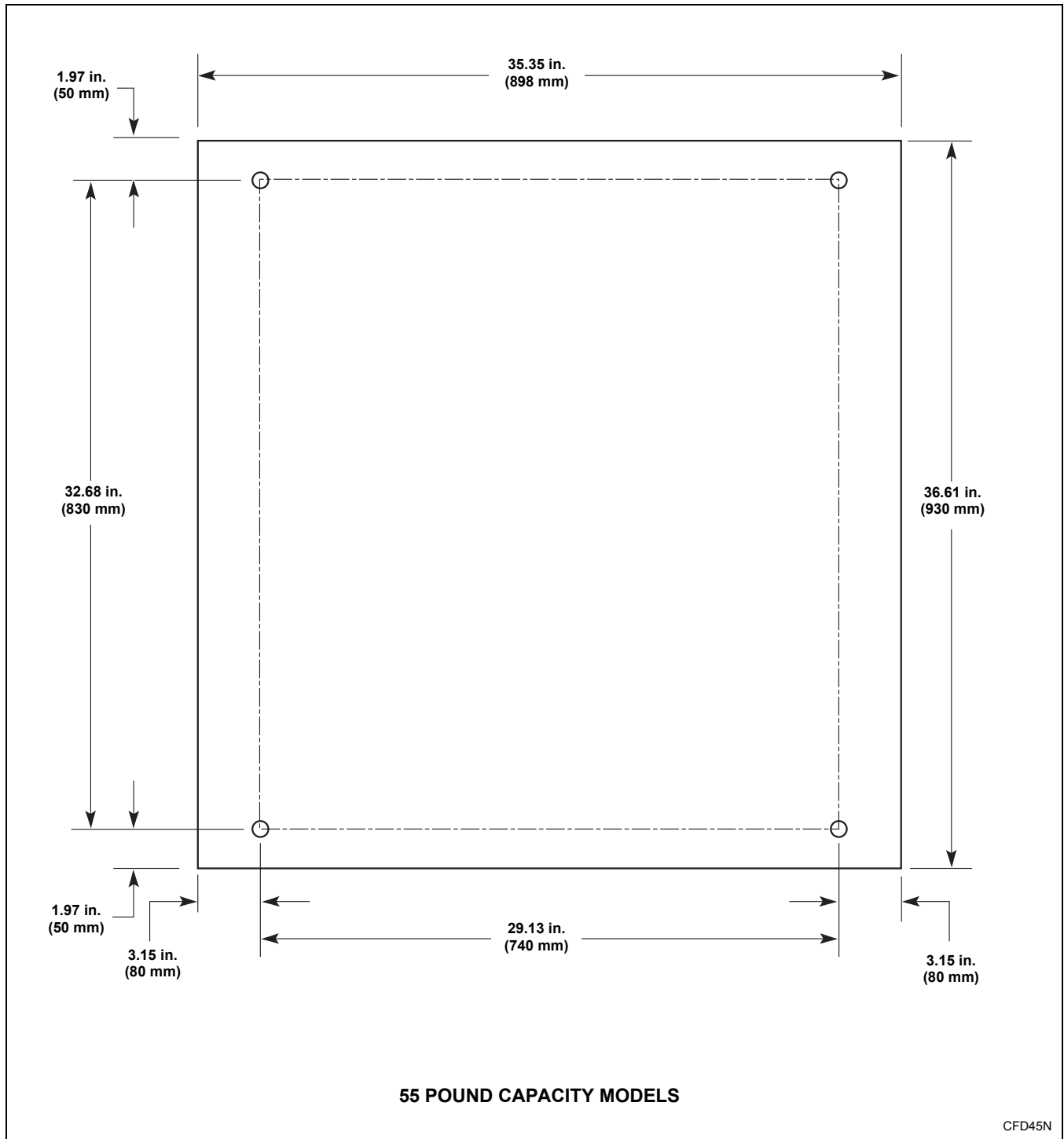


Figure 20

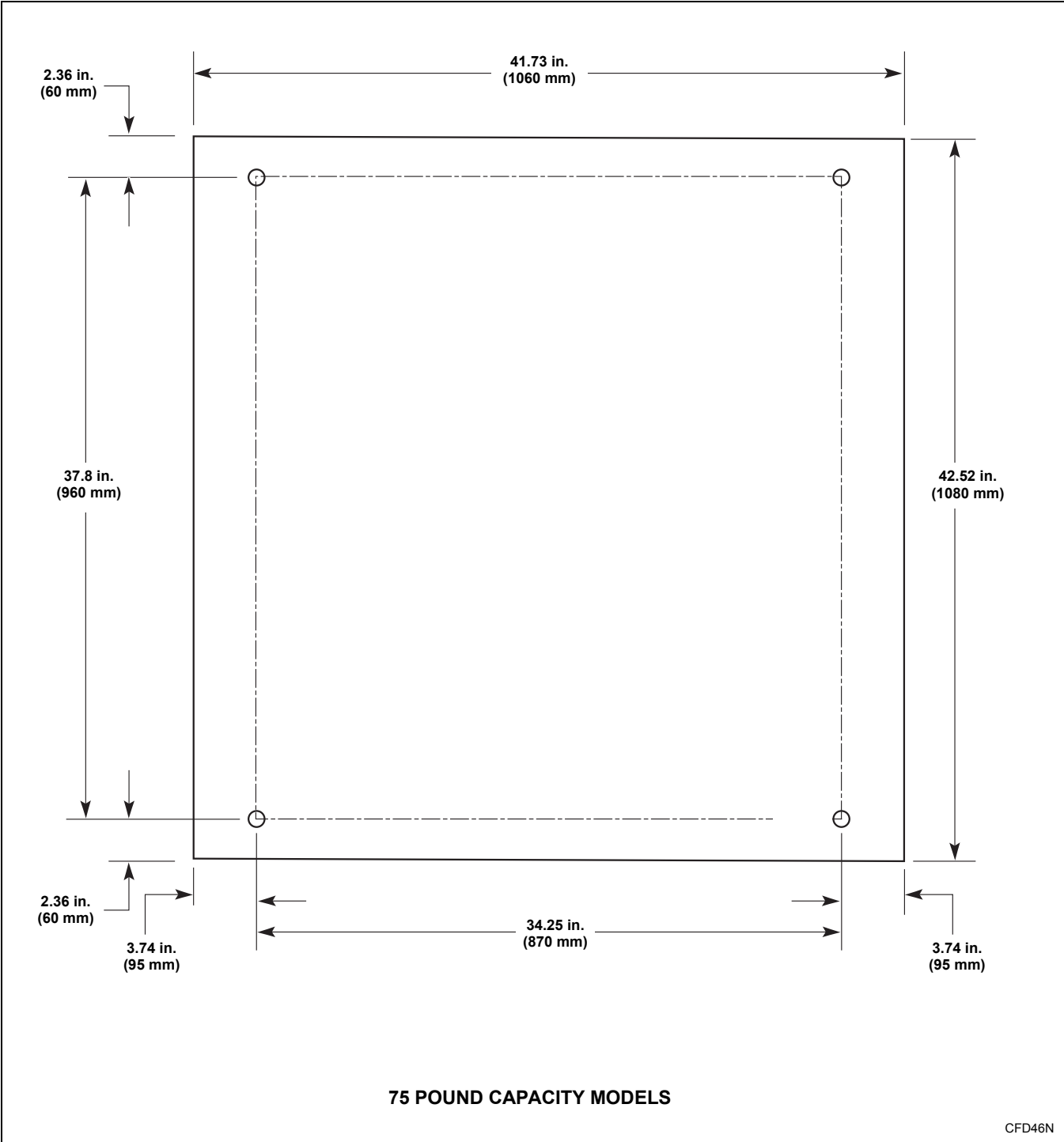


Figure 21

Installation

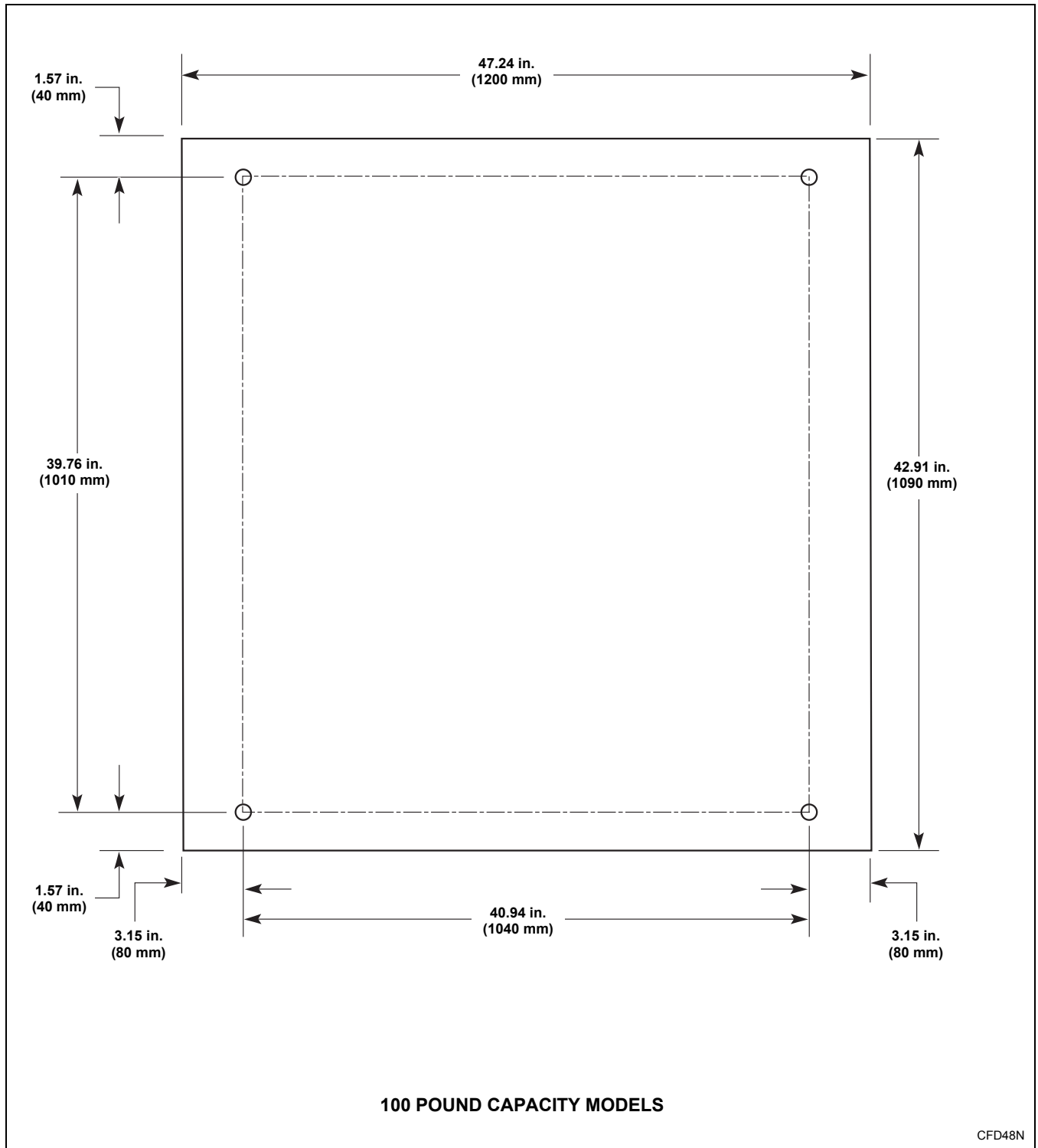


Figure 22

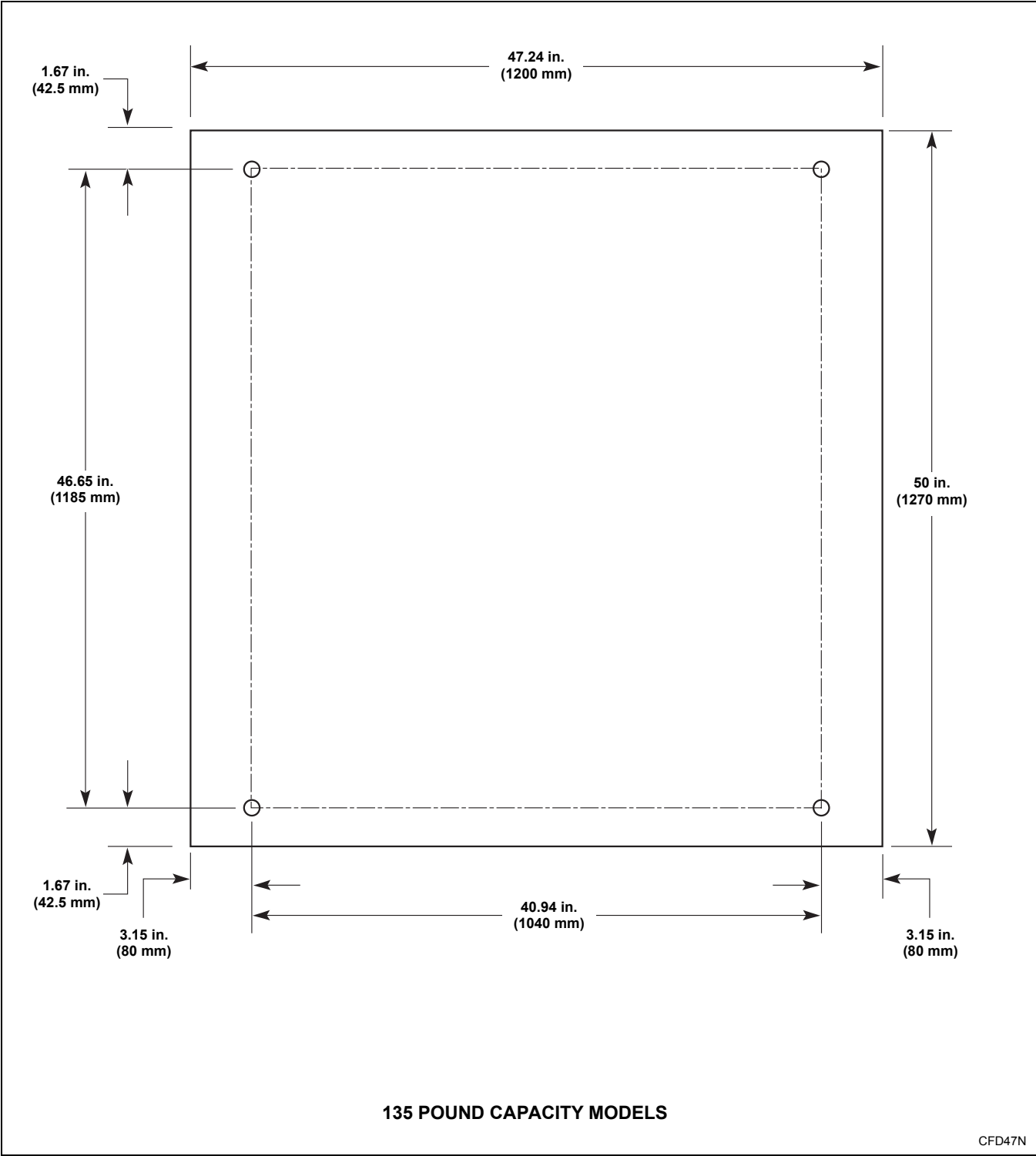


Figure 23

Installation

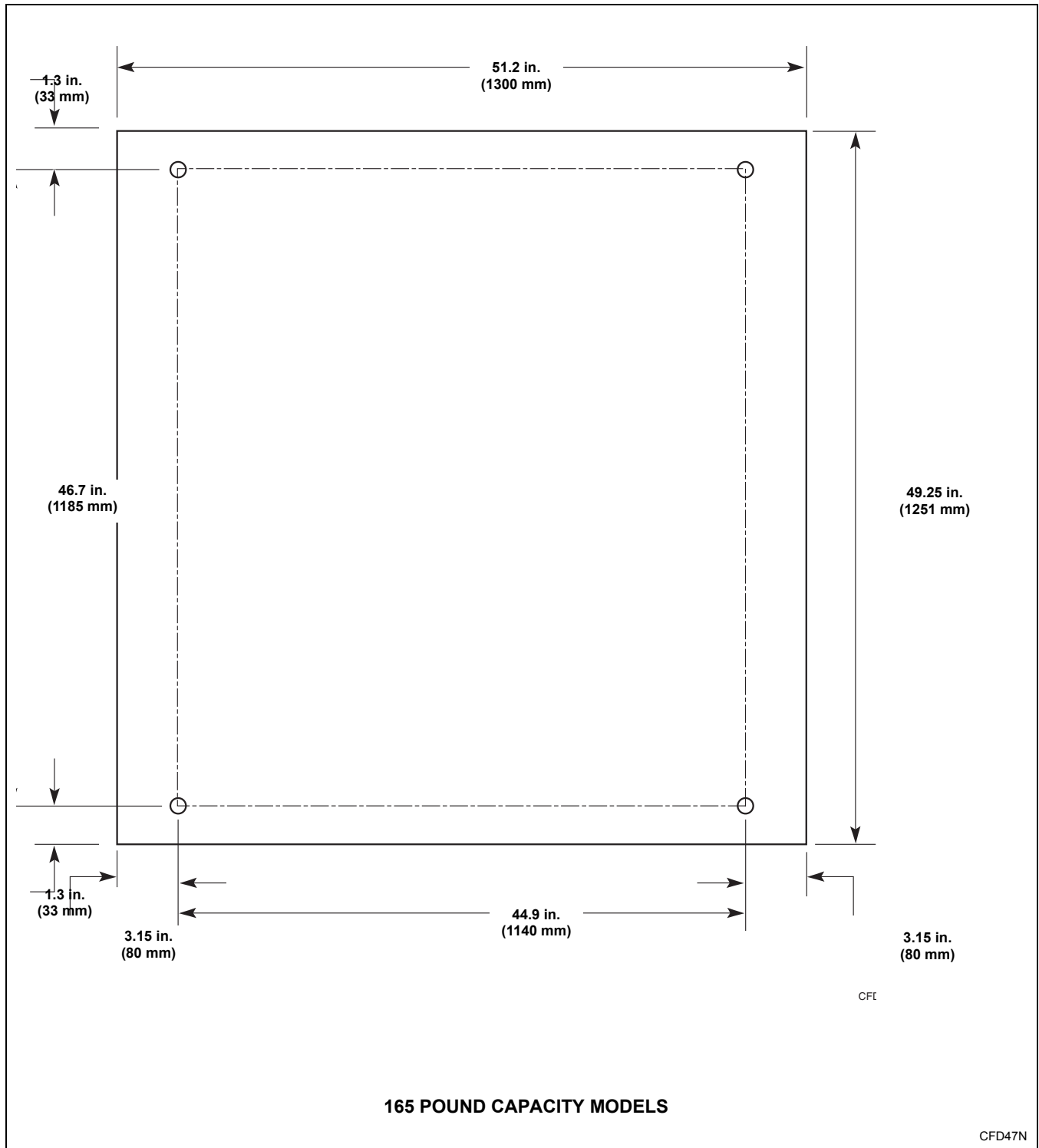


Figure 24

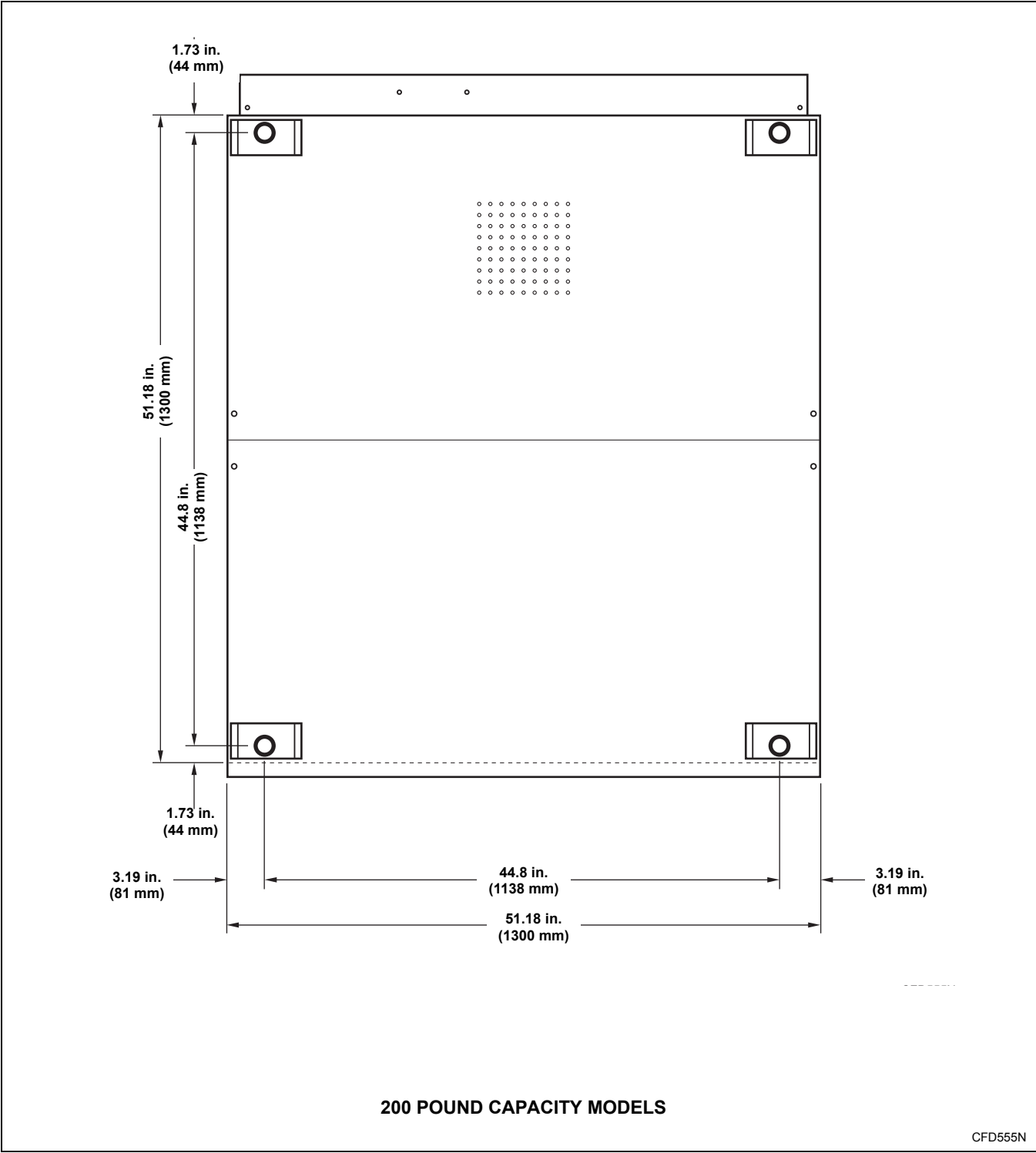


Figure 25

Installation

18, 25 and 35 Pound Capacity with A or M in the 8th Position (e.g. *X18PVXA6) or 9th Position (e.g. *X018PVXA7) of the Model Number

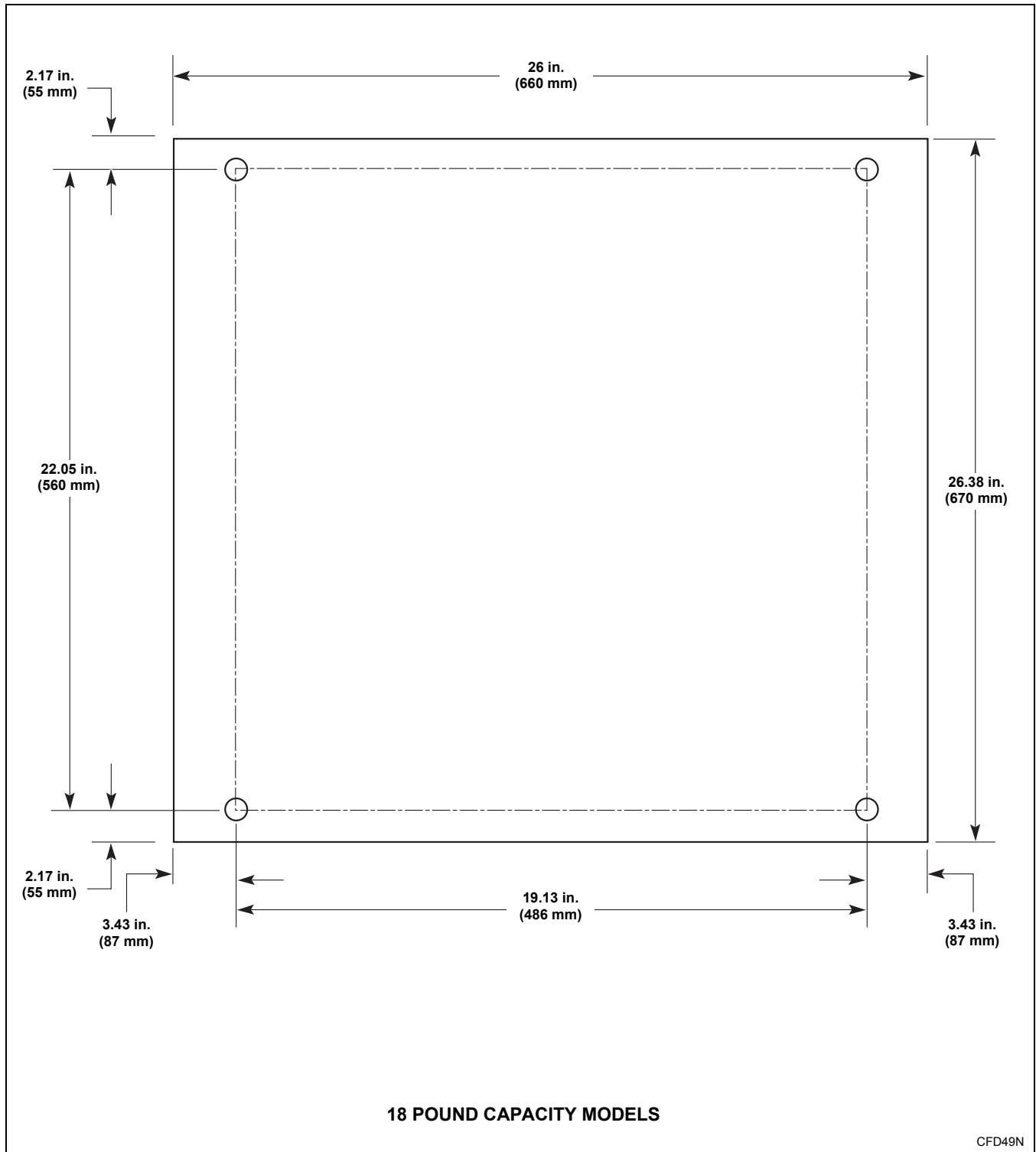


Figure 26

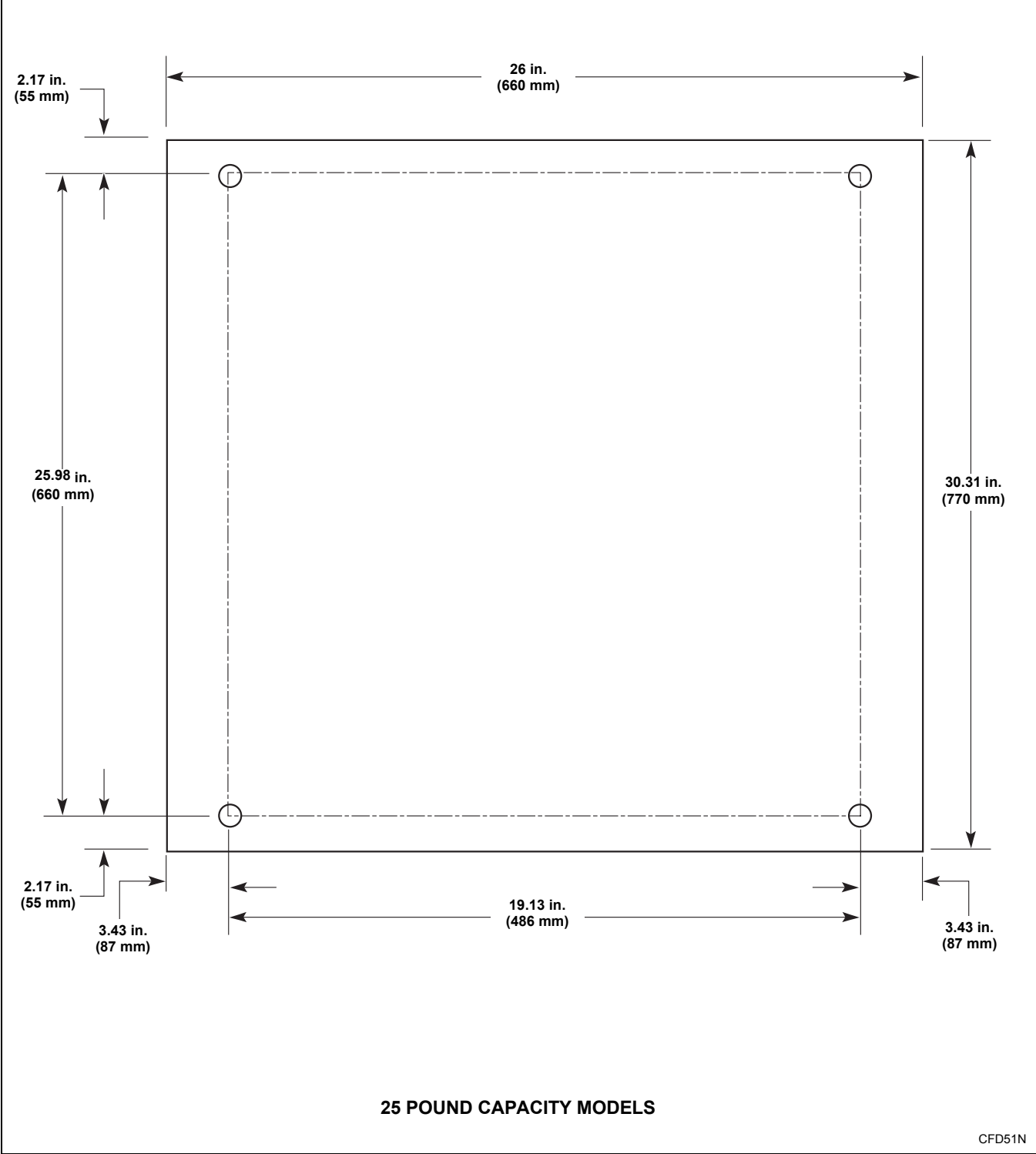


Figure 27

Installation

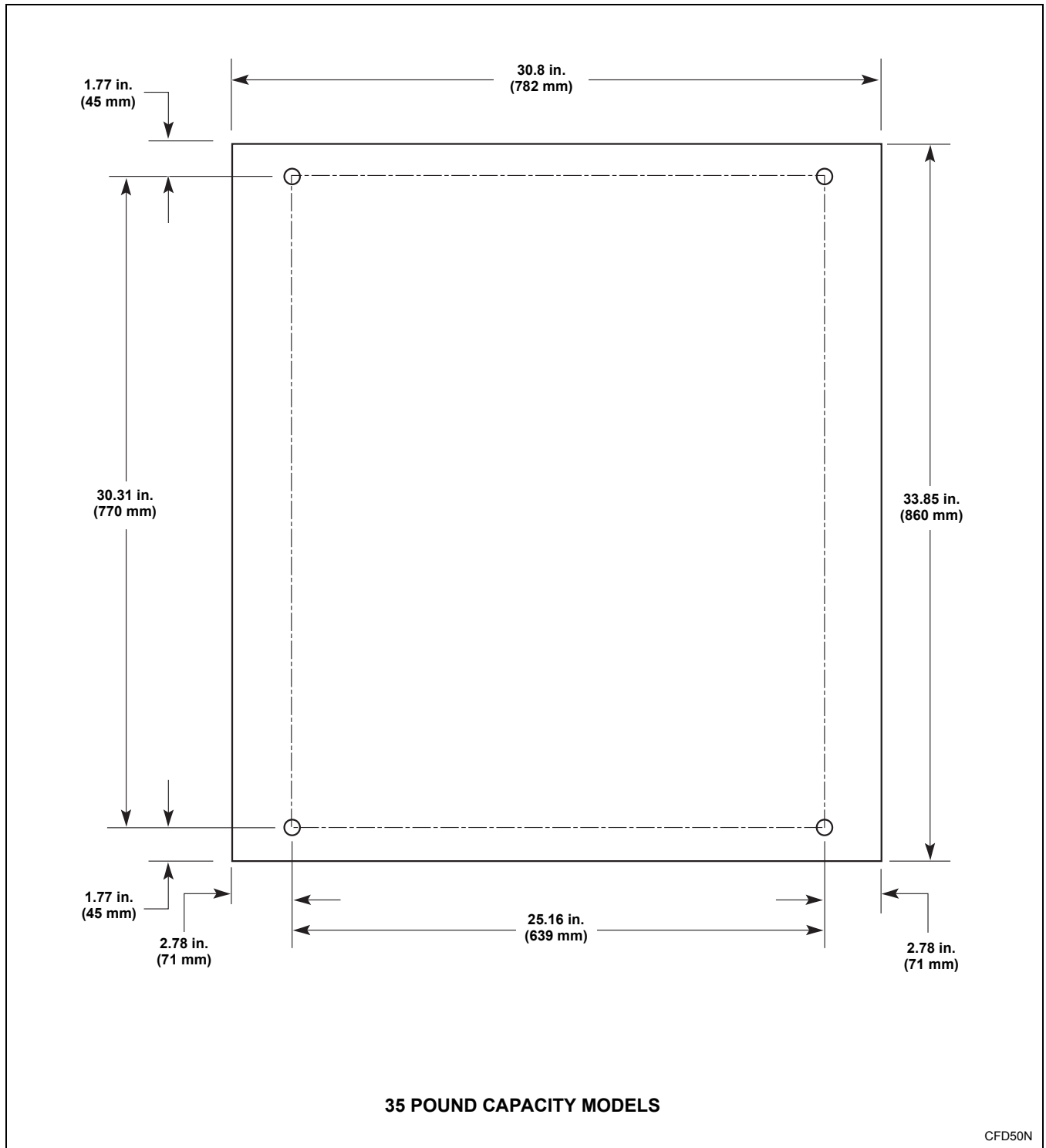


Figure 28

Mounting Bolt Installation (If Required)

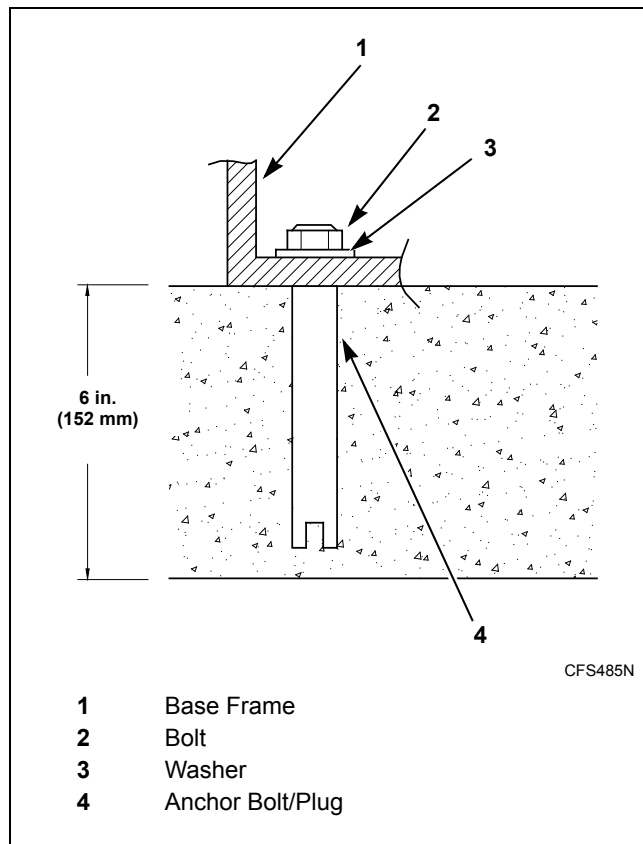


Figure 29

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

1. Place the machine 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 machine carefully over the anchors.
3. Put bolts through the machine in the anchors and fasten them. For the 18, 25, 30, 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. Allow machine grout to set, but not cure.
6. Remove the spacers carefully, allowing the machine to settle into the wet grout.
7. Position washers and locknuts on machinery anchor bolts and finger-tighten to machine base.
8. After the grout is completely cured, tighten the locknuts by even increments – one after the other – until all are tightened evenly and the machine is fastened securely to the floor.
9. Remove the four red transport brackets which secure the moving components of the machine during shipping. Refer to *Figures 30, 32 and 33* for typical transport bracket locations.

Installation

Removing the Transport Brackets

To prevent damage during transportation, the machine has been equipped with four red transport brackets (refer to *Figure 30* for 18, 25 and 35 pound models; refer to *Figure 31* for 33 and 40 pound models; refer to *Figure 32* for 55 and 75 pound models [depending on model number]; refer to *Figure 33* for 100, 135, 165 and 200 pound models) to eliminate every possible movement of the tub.

After the machine has been placed level, take off the service panels and the back panel to remove these transport brackets.



WARNING

The machine must never be activated before removing these transport brackets.

W489

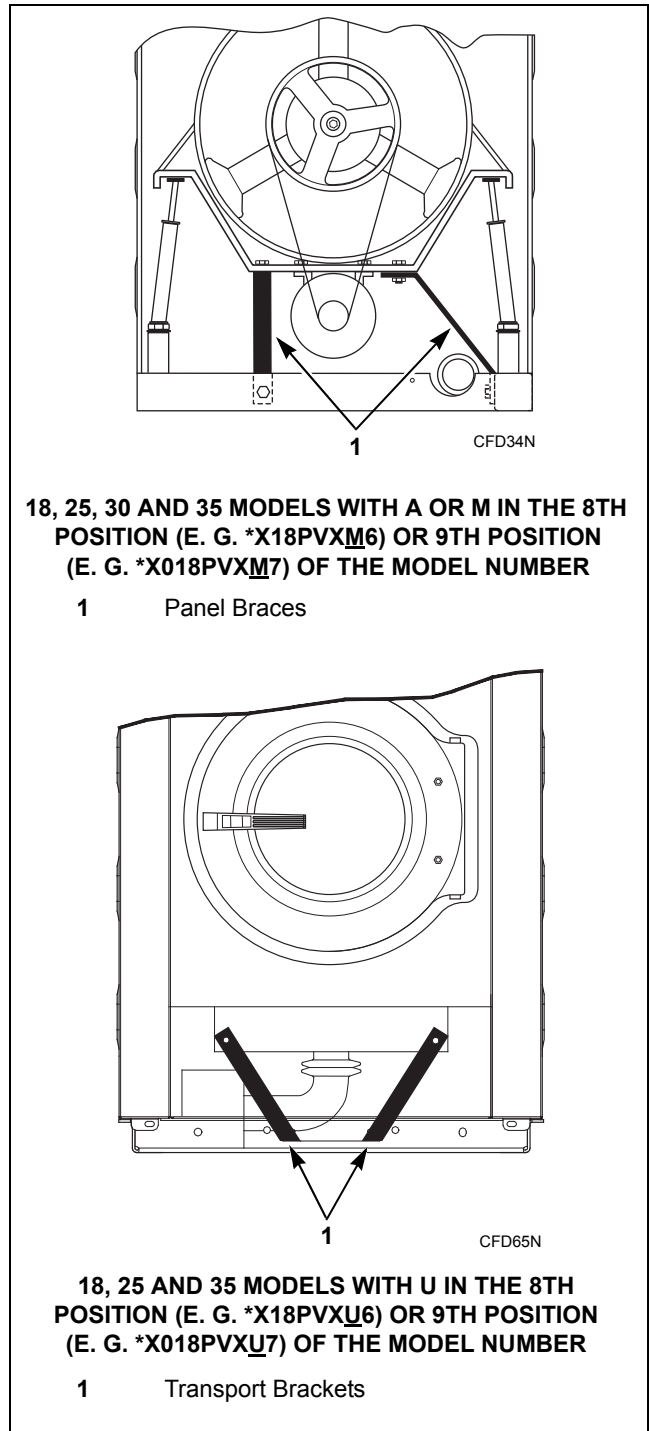


Figure 30

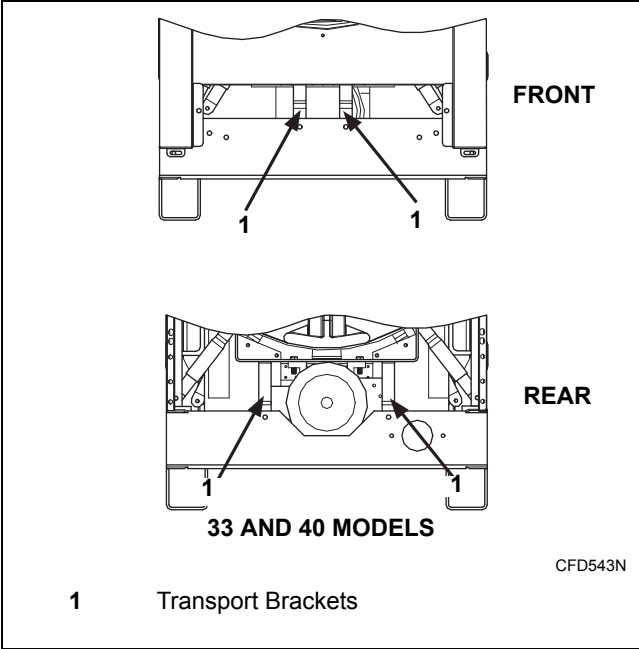


Figure 31

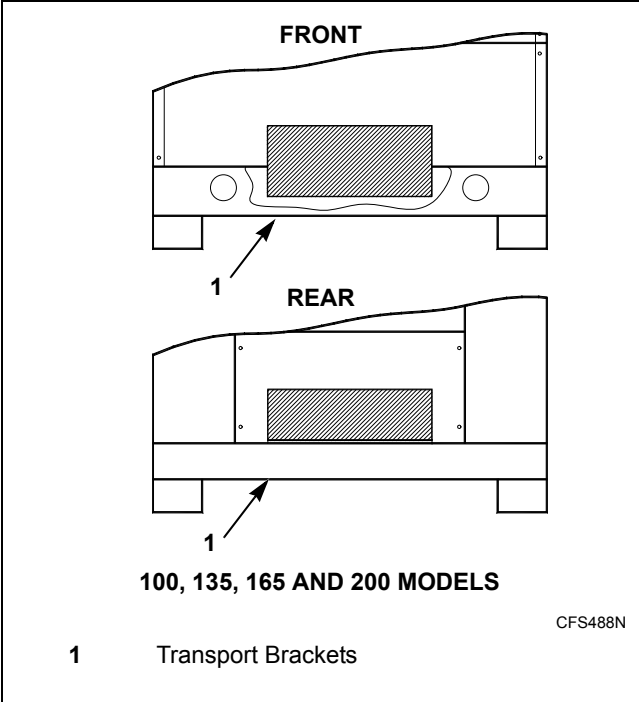


Figure 33

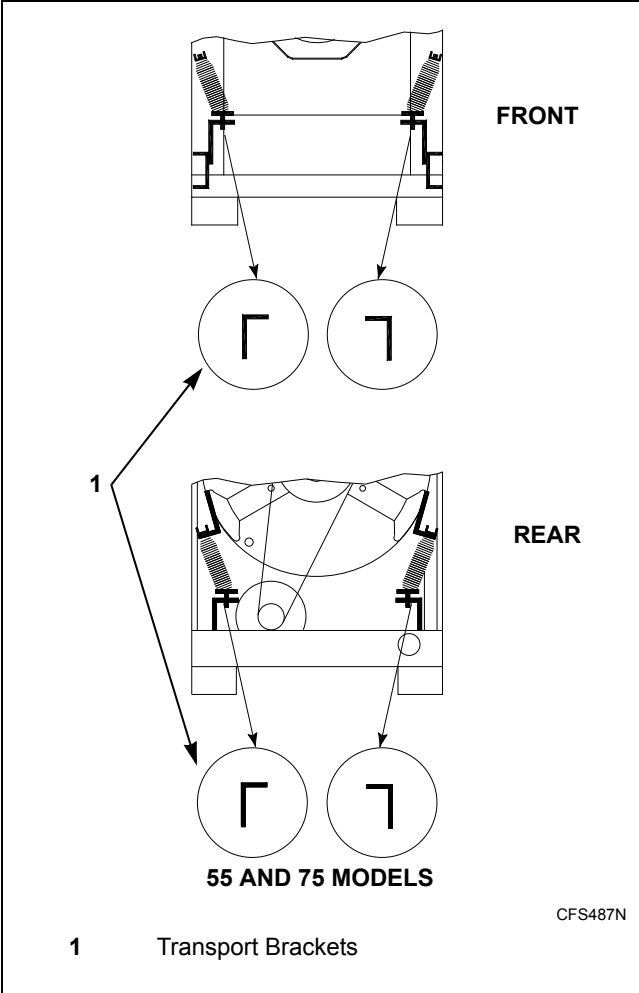


Figure 32

Removing the Transport Block

| | |
|---|----------------|
|  | WARNING |
| The machine must never be activated before removing the transport block. | |
| <small>W618</small> | |

To prevent damage during transportation, machine has been equipped with a transport block. To remove, proceed as follows:

1. After machine has been placed on level ground, remove service panels and back panel.
2. For 18 and 30 pound models, at rear of machine, lift at bottom of motor and remove transport block if present. Refer to *Figure 34*.

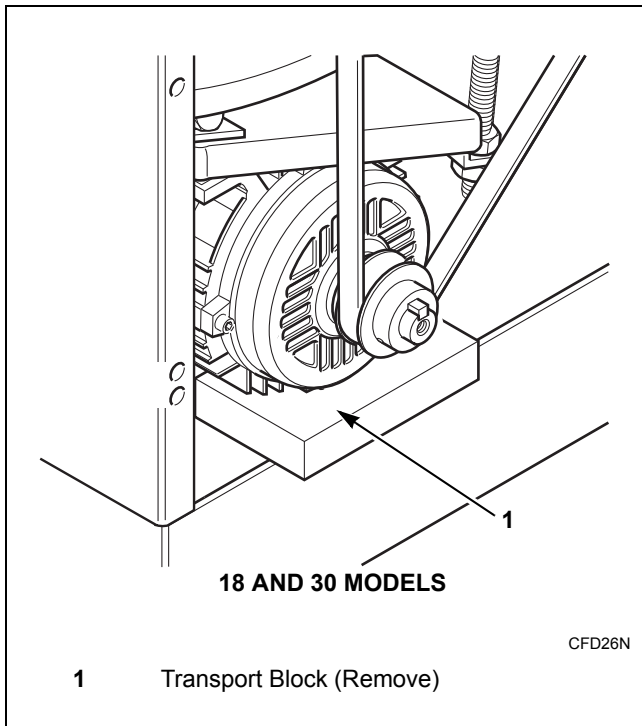


Figure 34

IMPORTANT: Do NOT lift motor by the pulley.

3. For 18 and 30 pound models, remove the panel braces. Refer to *Figure 30*.
4. For 33 and 40 pound models, remove the transport brackets. Refer to *Figure 31*.

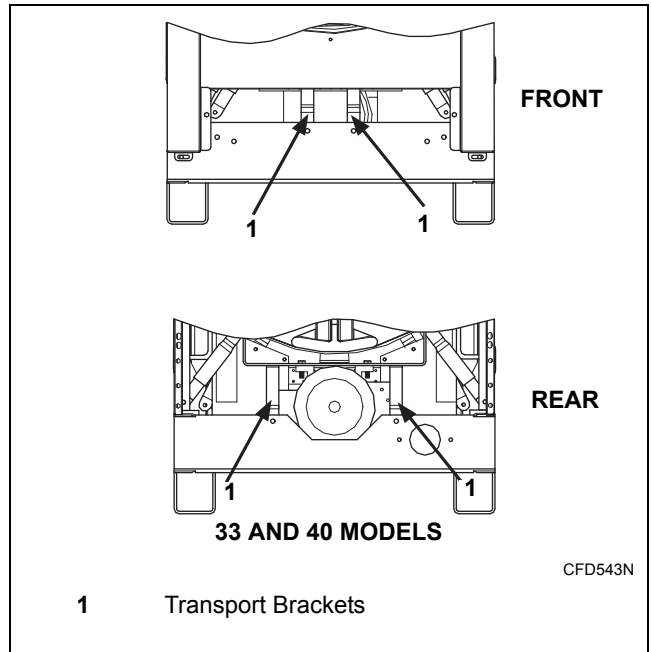


Figure 35

5. Replace all panels removed.

Drain Connection

A drain system of adequate capacity is essential to machine performance.

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

Figure 36 shows drain line and drain trough configurations.

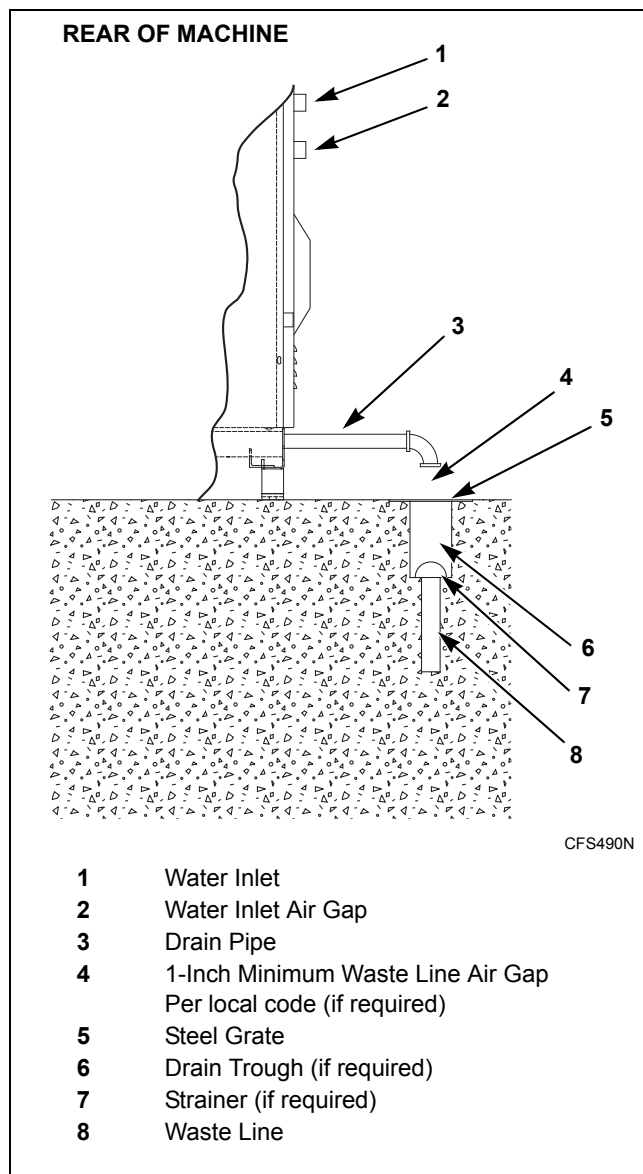


Figure 36

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

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

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

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

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

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

NOTE: Installation of additional machines will require proportionately larger drain connections. Refer to *Table 4*.

Installation


| Drain Information | | | | | | | | | | | | |
|----------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|
| Model | 18 | 25 | 30 | 33 | 35 | 40 | 55 | 75 | 100 | 135 | 165 | 200 |
| Drain connection size, ID | 2 in. (51 mm) | 2 in. (51 mm) | 2 in. (51 mm) | 2 in. (50 mm) | 2 in. (51 mm) | 2 in. (50 mm) | 3 in. (76.2 mm) | 3 in. (76.2 mm) | 3 in. (76.2 mm) | 3 in. (76.2 mm) | 3 in. (76.2 mm) | 3 in. (76.2 mm) |
| Number of drain outlets | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| Drain flow capacity | 21.13 gal/min (80 l/min) | 21.13 gal/min (80 l/min) | 20 gal/min (76 l/min) | 21.13 gal/min (80 l/min) | 32 gal/min (120 l/min) | 21.13 gal/min (80 l/min) | 73 gal/min (280 l/min) | 73 gal/min (280 l/min) | 73 gal/min (280 l/min) | 73 gal/min (280 l/min) | 73 gal/min (280 l/min) | 73 gal/min (280 l/min) |
| Recommended drain pit size | 2.5 ft ³ (72 l) | 3.3 ft ³ (95 l) | 25 ft ³ (70.3 l) | 5.1 ft ³ (145 l) | 5.8 ft ³ (165 l) | 6.4 ft ³ (181 l) | 8.3 ft ³ (235 l) | 11 ft ³ (304 l) | 16 ft ³ (455 l) | 20 ft ³ (575 l) | 24 ft ³ (679 l) | 31.8 ft ³ (900 l) |

Table 3

| Drain Line Sizing Minimum Drain ID | | | | | | | |
|---------------------------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|
| Model | Number of Machines | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 18 | 2 in. (51 mm) | 3 in. (76.2 mm) | 3.5 in. (88 mm) | 4 in. (102 mm) | 4.5 in. (114 mm) | 5 in. (124 mm) | 5.5 in. (140 mm) |
| 25 | 2 in. (51 mm) | 3 in. (76.2 mm) | 3.5 in. (88 mm) | 4 in. (102 mm) | 4.5 in. (114 mm) | 5 in. (124 mm) | 5.5 in. (140 mm) |
| 30 | 2 in. (51 mm) | 3 in. (76.2 mm) | 3.5 in. (88 mm) | 4 in. (102 mm) | 4.5 in. (114 mm) | 5 in. (124 mm) | 5.5 in. (140 mm) |
| 33 | 2 in. (51 mm) | 3 in. (76.2 mm) | 3.5 in. (88 mm) | 4 in. (102 mm) | 4.5 in. (114 mm) | 5 in. (124 mm) | 5.5 in. (140 mm) |
| 35 | 2 in. (51 mm) | 3 in. (76.2 mm) | 3.5 in. (88 mm) | 4 in. (102 mm) | 4.5 in. (114 mm) | 5 in. (124 mm) | 5.5 in. (140 mm) |
| 40 | 2 in. (51 mm) | 3 in. (76.2 mm) | 3.5 in. (88 mm) | 4 in. (102 mm) | 4.5 in. (114 mm) | 5 in. (124 mm) | 5.5 in. (140 mm) |
| 55 | 3 in. (76.2 mm) | 4 in. (102 mm) | 5 in. (131 mm) | 6 in. (152 mm) | 6.7 in. (170 mm) | 7.3 in. (186 mm) | 8 in. (203 mm) |
| 75 | 3 in. (76.2 mm) | 4 in. (102 mm) | 5 in. (131 mm) | 6 in. (152 mm) | 6.7 in. (170 mm) | 7.3 in. (186 mm) | 8 in. (203 mm) |
| 100 | 3 in. (76.2 mm) | 4 in. (102 mm) | 6 in. (152 mm) | 7 in. (177.8 mm) | 8 in. (203 mm) | 10 in. (254 mm) | 12 in. (305 mm) |
| 135 | 3 in. (76.2 mm) | 4 in. (102 mm) | 6 in. (152 mm) | 7 in. (177.8 mm) | 8 in. (203 mm) | 10 in. (203 mm) | 12 in. (305 mm) |
| 165 | 3 in. (76.2 mm) | 4 in. (102 mm) | 6 in. (152 mm) | 7 in. (177.8 mm) | 8 in. (203 mm) | 10 in. (203 mm) | 12 in. (305 mm) |
| 200 | 3 in. (76.2 mm) | 4 in. (102 mm) | 6 in. (152 mm) | 7 in. (177.8 mm) | 8 in. (203 mm) | 10 in. (203 mm) | 12 in. (305 mm) |

Table 4

Water Connection

| | |
|---|----------------|
|  | WARNING |
| <p>To prevent personal injury, avoid contact with inlet water temperatures higher than 125° Fahrenheit (51° Celsius) and hot surfaces.</p> | |
| W748 | |

The 18-135 pound models are delivered with three hoses with 3/4 inch hose connectors. The 165 pound model is delivered with 3 x 1 inch and 1 x 3/4 inch hose connectors. These hoses fit the water inlet valves of the machine and the main water inlet taps.

In case of boiler fed machines, a maximum temperature of hot water of 194°F (90°C) should be available.

Connections should be supplied by a hot and a cold water line per national and local codes.

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

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

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

Pressure of 30-85 psi (2-5.7 bar) provides best performance. Although the machine will function at lower pressures, increased fill times will occur with some loss of supply flushing.

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

| Water Supply Information | | | | | | | | | | | | |
|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|
| Model | 18 | 25 | 30 | 33 | 35 | 40 | 55 | 75 | 100 | 135 | 165 | |
| Water inlet connection size | 0.75 in. (19 mm) | 0.75 in. (19 mm) | 0.75 in. (19 mm) | 0.75 in. (19 mm) | 0.75 in. (19 mm) | 0.75 in. (19 mm) | 0.75 in. (19 mm) | 0.75 in. (19 mm) | 0.75 in. (19 mm) | 0.75 in. (19 mm) | 1.0 in. (25 mm) | 0.75 and 1.0 in. (19 and 25 mm) |
| Number of water inlets (standard) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| Recommended pressure | 30-85 psi (2-5.7 bar) | 30-85 psi (2-5.7 bar) | 30-85 psi (2-5.86 bar) | 30-85 psi (2-5.7 bar) | 30-85 psi (2-5.7 bar) | 30-85 psi (2-5.7 bar) | 30-85 psi (2-5.7 bar) | 30-85 psi (2-5.7 bar) | 30-85 psi (2-5.7 bar) | 30-85 psi (2-5.7 bar) | 30-85 psi (2-5.7 bar) | 30-85 psi (2-5.7 bar) |
| Inlet flow capacity | 5.3 gal/ min (20 l/ min) | 5.3 gal/ min (20 l/ min) | 5.3 gal/ min (20 l/ min) | 5.3 gal/ min (20 l/ min) | 5.3 gal/ min (20 l/ min) | 5.3 gal/ min (20 l/ min) | 12 gal/ min (45 l/ min) | 12 gal/ min (45 l/ min) | 12 gal/ min (45 l/ min) | 12 gal/ min (45 l/ min) | 25 gal/ min (95 l/ min) | 25 gal/ min (95 l/ min) |


Table 5


Installation

Electrical Installation

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

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

| | |
|--|----------------|
|  | WARNING |
| <p>Before starting wiring or inspection, power must be switched OFF. Check to make sure that the operation panel indicator is OFF. Any person who is involved in wiring or inspection shall wait for at least 10 minutes after the power supply has been switched OFF and check that there are no residual voltage using a tester or the like. The capacitor of the inverter or the EMC filter is charged with high voltage for some time after power is OFF and it is dangerous.</p> | |
| W795 | |


| | |
|---|----------------|
|  | WARNING |
| <p>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.</p> | |
| W360 | |

The AC inverter drive requires a clean power supply free from voltage spikes and surges. A voltage monitor should be used to check incoming power. The customer's local power company may provide such a monitor.

If input voltage measures above 240V for a 220V drive or above 415V for a 400V drive, ask the power company to lower the voltage. As an alternative, a step-down transformer kit is available from the distributor.

The AC drive provides overload protection for the drive motor. However, a separate single or three phase circuit breaker must be installed for complete electrical overload protection. This prevents damage to the motor by disconnecting all legs if one should be lost accidentally. Check the data plate on the back of the machine or consult *Table 6* for circuit breaker requirements.

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

| | |
|---|---------------|
|  | DANGER |
| <p>Do not use a phase adder on any variable-speed machine.</p> | |
| W490 | |

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

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

Use wire sizes indicated in *Table 6* for runs up to 50 feet.

Use next larger size for runs of 50 to 100 feet. Use two sizes larger for runs greater than 100 feet.

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 with 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.

| Electrical Specifications | | | | | | | | | | | |
|---------------------------|------|---------|-------|-------|--------|----------------|-----------------|----------------------|-------------------------------------|-----------------|----------------------|
| Voltage Designation | | | | | | Standard | | | Electric Heat | | |
| Model | Code | Voltage | Cycle | Phase | Wire | Full Load Amps | Circuit Breaker | AWG /mm ² | Full Load Amps (Heating Element kW) | Circuit Breaker | AWG /mm ² |
| 18 | N | 440-480 | 50/60 | 3 | 3+PE | 6 | 15 | 14/2.5 | 20 | 25 | 10/6.0 |
| | P | 380-415 | 50/60 | 3 | 3+N+PE | Not available | | | 17 | 20 | 12/4.0 |
| | Q | 200-240 | 50/60 | 3 | 3+PE | Not available | | | 28 | 30 | 10/6.0 |
| | X | 200-240 | 50/60 | 1/3 | 2/3+PE | 10 | 15 | 14/2.5 | Not available | | |
| 25 | N | 440-480 | 50/60 | 3 | 3+PE | 6 | 15 | 14/2.5 | 21 | 25 | 10/6.0 |
| | P | 380-415 | 50/60 | 3 | 3+N+PE | Not available | | | 18 | 20 | 12/4.0 |
| | Q | 200-240 | 50/60 | 3 | 3+PE | Not available | | | 29 | 30 | 10/6.0 |
| | X | 200-240 | 50/60 | 1/3 | 2/3+PE | 10 | 15 | 14/2.5 | Not available | | |
| 30 | P | 380-415 | 50/60 | 3 | 3+N+PE | Not available | | | 36 | 40 | 8/10.0 |
| | Q | 200-240 | 50/60 | 3 | 3+PE | Not available | | | 49 | 60 | 6/16.0 |
| | X | 200-240 | 50/60 | 1/3 | 2/3+PE | 18 | 20 | 12/4.0 | Not available | | |
| 33 | N | 440-480 | 50/60 | 3 | 3+PE | 6 | 15 | 14/2.5 | 32 | 40 | 8/10.0 |
| | P | 380-415 | 50/60 | 3 | 3+N+PE | 18 | 20 | 12/4.0 | 44 | 50 | 8/10.0 |
| | Q | 200-240 | 50/60 | 3 | 3+PE | 18 | 20 | 12/4.0 | 63 | 70 | 4/25.0 |
| | X | 200-240 | 50/60 | 1/3 | 2/3+PE | 18 | 20 | 12/4.0 | Not available | | |
| 35 | N | 440-480 | 50/60 | 3 | 3+PE | 12 | 15 | 14/2.5 | 41 | 50 | 8/10.0 |
| | P | 380-415 | 50/60 | 3 | 3+N+PE | Not available | | | 36 | 40 | 8/10.0 |
| | Q | 200-240 | 50/60 | 3 | 3+PE | Not available | | | 58 | 60 | 6/16.0 |
| | X | 200-240 | 50/60 | 1/3 | 2/3+PE | 12 | 15 | 14/2.5 | Not available | | |
| 40 | N | 440-480 | 50/60 | 3 | 3+PE | 6 | 15 | 14/2.5 | 32 | 40 | 8/10.0 |
| | P | 380-415 | 50/60 | 3 | 3+N+PE | 18 | 20 | 12/4.0 | 44 | 50 | 8/10.0 |
| | Q | 200-240 | 50/60 | 3 | 3+PE | 18 | 20 | 12/4.0 | 63 | 70 | 4/25.0 |
| | X | 200-240 | 50/60 | 1/3 | 2/3+PE | 18 | 20 | 12/4.0 | Not available | | |
| 55 | N | 440-480 | 50/60 | 3 | 3+PE | 12 | 15 | 14/2.5 | 41 | 50 | 8/10.0 |
| | P | 380-415 | 50/60 | 3 | 3+N+PE | Not available | | | 36 | 40 | 8/10.0 |
| | Q | 200-240 | 50/60 | 3 | 3+PE | Not available | | | 58 | 60 | 6/16.0 |
| | X | 200-240 | 50/60 | 1/3 | 2/3+PE | 16 | 20 | 14/2.5 | Not available | | |
| 75 | N | 440-480 | 50/60 | 3 | 3+PE | 12 | 15 | 14/2.5 | 41 | 50 | 8/10.0 |
| | P | 380-415 | 50/60 | 3 | 3+N+PE | 12 | 15 | 14/2.5 | 36 | 40 | 8/10.0 |
| | Q | 200-240 | 50/60 | 3 | 3+PE | 15 | 20 | 12/4.0 | 58 | 60 | 6/16.0 |
| 100 | N | 440-480 | 50/60 | 3 | 3+PE | 17 | 20 | 12/4.0 | 62 | 70 | 4/25.0 |
| | P | 380-415 | 50/60 | 3 | 3+N+PE | 17 | 20 | 12/4.0 | 55 | 60 | 6/16.0 |
| | Q | 200-240 | 50/60 | 3 | 3+PE | 18 | 25 | 10/6.0 | 88 | 90 | 3/35.0 |
| 135 | N | 440-480 | 50/60 | 3 | 3+PE | 17 | 25 | 10/6.0 | 62 | 70 | 4/25.0 |
| | P | 380-415 | 50/60 | 3 | 3+N+PE | 17 | 25 | 10/6.0 | 55 | 60 | 6/16.0 |
| | Q | 200-240 | 50/60 | 3 | 3+PE | 20 | 30 | 10/6.0 | 88 | 90 | 3/35.0 |

Table 6 (continued)

Installation

Table 6 (continued)

| Electrical Specifications | | | | | | | | | | | |
|---------------------------|------|---------|---------|-------|--------|----------------|-----------------|----------------------|-------------------------------------|-----------------|----------------------|
| Voltage Designation | | | | | | Standard | | | Electric Heat | | |
| Model | Code | Voltage | Cycle | Phase | Wire | Full Load Amps | Circuit Breaker | AWG /mm ² | Full Load Amps (Heating Element kW) | Circuit Breaker | AWG /mm ² |
| 165 | N | 440-480 | 50/60 | 3 | 3+PE | 20 | 25 | 10/6.0 | 41 (9x3 kW) | 63 | 8/10.0 |
| | | | | | | | | | 52 (9x4 kW) | | |
| | P | 380-415 | 50/60 | 3 | 3+N+PE | 20 | 25 | 10/6.0 | 50 (9x3 kW) | 63 | 8/10.0 |
| | | | | | | | | | 61 (9x4 kW) | | |
| | Q | 200-240 | 50/60 | 3 | 3+PE | 32 | 40 | 8/10.0 | 76 (9x3 kW) | 100 | 4/25.0 |
| | 200 | N | 440-480 | 50/60 | 3 | 3+PE | 19 | 25 | 10/6.0 | 42 (9x3 kW) | 63 |
| 53 (9x4 kW) | | | | | | | | | | | |
| P | | 380-415 | 50/60 | 3 | 3+N+PE | 18 | 25 | 10/6.0 | 51 (9x3 kW) | 63 | 8/10.0 |
| | | | | | | | | | 62 (9x4 kW) | | |
| Q | | 200-240 | 50/60 | 3 | 3+PE | 27 | 40 | 8/10.0 | 77 (9x3 kW) | 100 | 4/25.0 |

Table 6

Electrical Connection

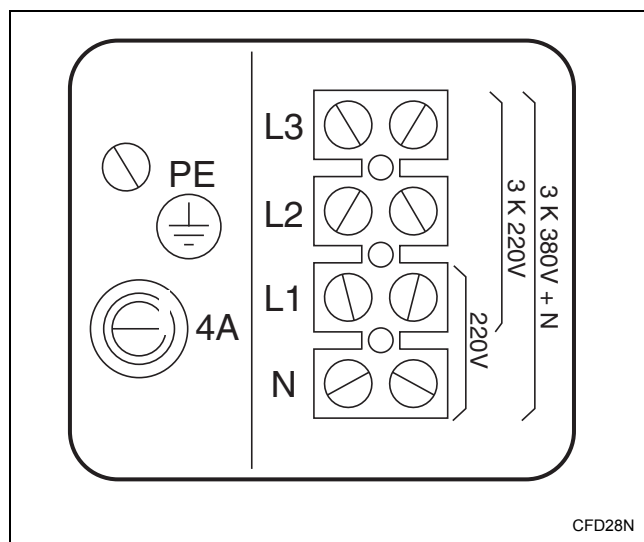


Figure 37

Remove the cover plate at the back of the machine. Using copper conductors only, connect the power cable to the connectors. Refer to the instructions listed on the machine's decal on how to connect the machine.

Machine without Electric Heating

Connect 200-240V single phase (1AC) to the connectors "N" and "L1". The green/yellow grounding clamp has to be the grounding wire "PE".

Machine with Electric Heating

200-240V 3AC

200-240V 3 phase (3AC) should be connected to the connectors "L1, L2, L3". Refer to *Figure 37*.

The green/yellow grounding clamp has to be connected to the grounding wire "PE".


380-415V 3AC + N

380-415V 3 phase (3AC + N) has to be connected to the connectors "L1, L2, L3", the blue neutral to the "N" connector. Refer to *Figure 37*.

The green/yellow grounding clamp has to be connected to the grounding wire "PE".

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

Remote Liquid Supply Connection Chemical Injection Supply System

| | |
|--|----------------|
|  | WARNING |
| <p>Dangerous Chemicals. May damage eyes and skin. Wear eye and hand protection when handling chemicals; always avoid direct contact with raw chemicals. Read the manufacturer's directions for accidental contact before handling chemicals. Ensure an eye-rinse facility and an emergency shower are within easy reach. Check at regular intervals for chemical leaks.</p> | |
| <small>W363</small> | |

Undiluted chemical dripping can damage the machine. All chemical supply dispenser pumps should be mounted below the machine's injection point. All dispenser tubing should also run below the injection point. Loops do not prevent drips if these instructions are not followed.

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

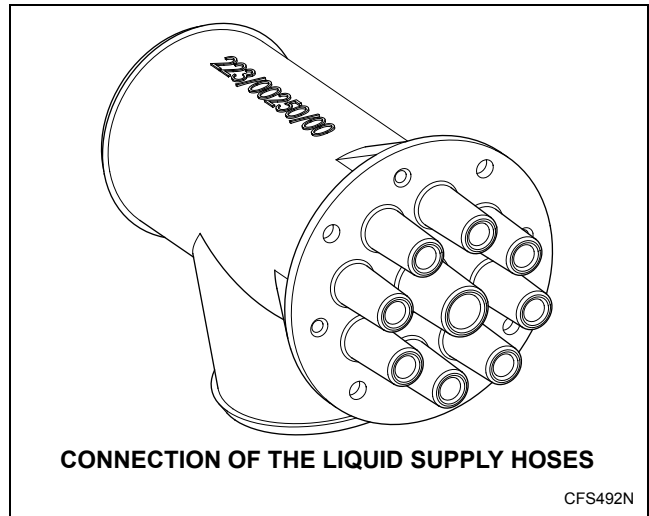




Figure 38

A connection has been placed at the back of the machine. There are nine holes in this connection, through each of which a liquid supply hose can be connected.

| | |
|---|----------------|
|  | CAUTION |
| <p>Drill out plugs and nipples before making supply hose connection. Failure to do so can cause buildup of pressure and risk a tubing rupture.</p> | |
| <small>W491</small> | |

Steam Requirements (Steam Heat Option Only)

For machines equipped with optional steam heat, install piping in accordance with approved commercial steam practices. Steam requirements are shown in *Table 7*.

| | |
|---|----------------|
|  | WARNING |
| <p>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.</p> | |
| SW014 | |

| Steam Supply Information | | | |
|---------------------------------|---------------------|---------------------|---------------------|
| | 18-75 | 100/135 | 165/200 |
| Steam inlet connection, in (mm) | 3/8 (10) | 1/2 (13) | 3/4 (19) |
| Number of steam inlets | 1 | 1 | 1 |
| Recommended pressure, psi (bar) | 30 – 80 (2.0 – 5.5) | 30 – 80 (2.0 – 5.5) | 30 – 80 (2.0 – 5.5) |
| Maximum pressure, psi (bar) | 80 (5.5) | 80 (5.5) | 80 (5.5) |

Table 7

Installation

Supply Programming Table

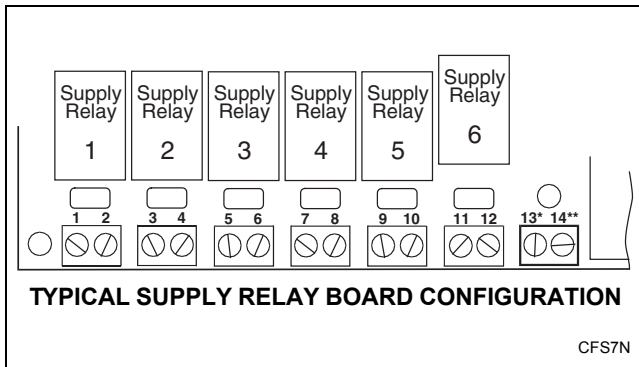
When programming a supply step on the WE-8, choose between 9 different supply steps. Refer to *Table 8*.

| | |
|----------|--|
| Supply 1 | Turns on the water valve in compartment A of the supply box. |
| Supply 2 | Turns on the water valve in compartment B of the supply box. |
| Supply 3 | Turns on the water valve in compartment C of the supply box. |
| Supply 4 | Activates supply relay 1. |
| Supply 5 | Activates supply relay 2. |
| Supply 6 | Activates supply relay 3. |
| Supply 7 | Activates supply relay 4. |
| Supply 8 | Activates supply relay 5. |
| Supply 9 | Activates supply relay 6. |

Table 8

NOTE: The Supply button is button 6.

Supply Relay Configuration (No Wiring)



* L1 (220 VAC) wire or terminal for remote liquid supply connection.

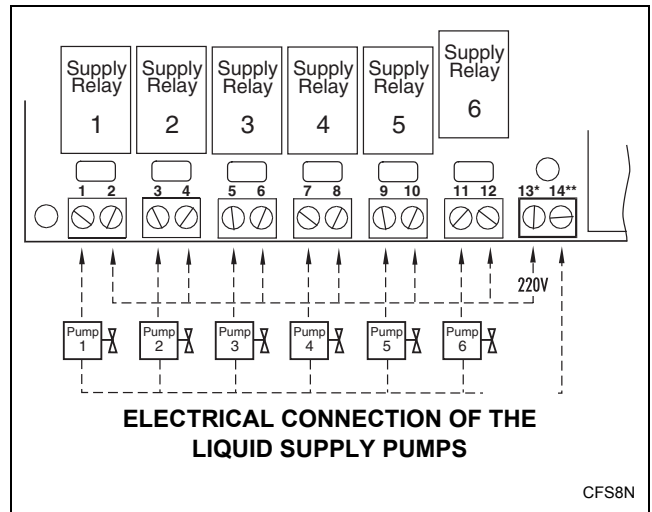
** L2 common wire (220 VAC) or terminal for remote liquid supply connection.

Figure 39

The supply relay board is set up to give NO Voltage AC output to the respective terminals. It is a dry contact closure of the relay. The voltage applied must be supplied with the jumper configurations. Refer to *Figure 40*.

Primary 220 Volt Remote Liquid Supply Connection

IMPORTANT: When programming a supply step, supplies 1, 2 and 3 DO NOT control the relays shown on *Figure 40*. Programming supply 1, 2 or 3 ONLY activates water in compartment A, B or C. Programming supply 4 activates relay 1. Programming supply 5 on the WE-8 will activate supply relay 2, etc. Programming supply 4-9 on the WE-8 will activate supply relay 1-6 on the board, respectively. Refer to *Table 8*.



* L1 (220 VAC) wire or terminal for remote liquid supply connection.

** L2 common wire (220 VAC) or terminal for remote liquid supply connection.

Figure 40

Supply relay 1 controls terminals 1 and 2. *Figure 40* shows the jumper wire from terminal 13 (L1 220 VAC) to all other even pins (i.e., 2, 4, 6...). This applies L1 (220 VAC) to terminal 2. When supply 4 on the WE-8 is programmed, this will close supply relay 1 and apply L1 (220 VAC) through pin 2 to pin 1. This signal is used from the terminal to the chemical supply vendors first pump.

IMPORTANT: Supply 4 must be programmed on the WE-8 to create the signal on terminal 1. The chemical vendor will always use terminal 14 as the common terminal for all pumps. This will apply for the remainder of the 220 VAC circuit for each of the pump signals. For the remainder of the relays, supply relay 2 will control terminals 3 and 4; supply relay 3 will control terminals 5 and 6; etc.

IMPORTANT: The WE-8 must be programmed for supply 4-9 to energize the supply relays 1-6 respectively.

Primary 220 Volt Remote Liquid Supply Connection (Continued)

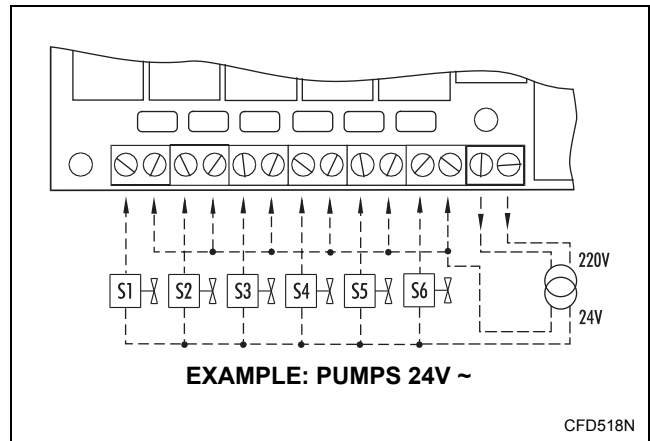


Figure 41

The 220V can be transformed to other values to drive other type supply pumps.

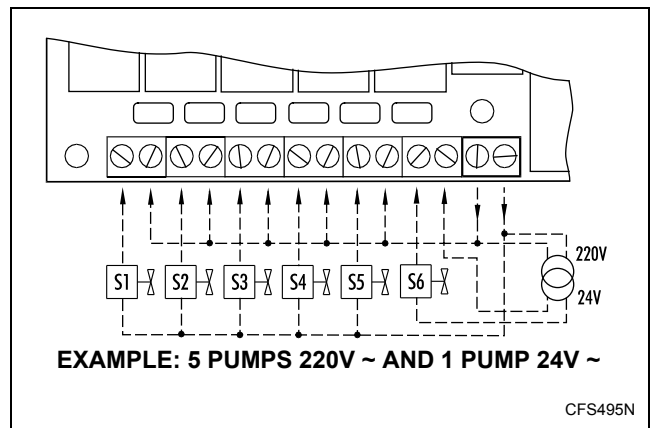


Figure 42

Also, pumps with different operating voltage requirements can be combined.

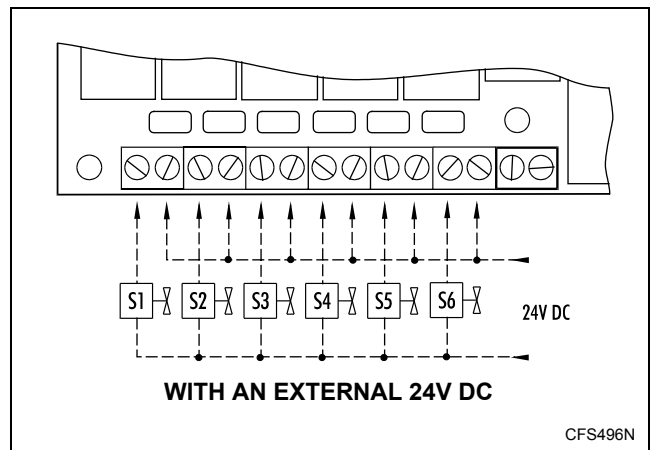


Figure 43

Installation

Out-of-Balance Switch

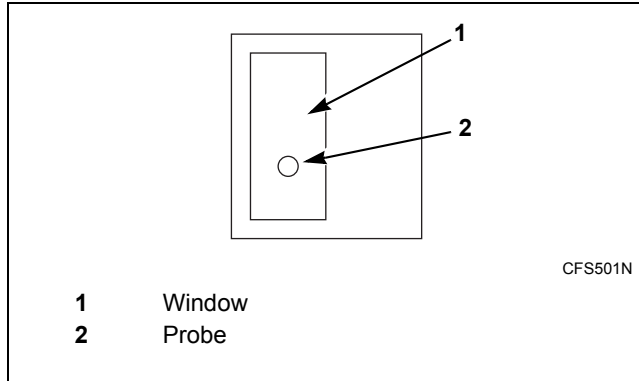


Figure 44

The out-of-balance switch is mounted on the upper right side on the back of the control panel. There is a window around the probe of the switch that is mounted on the movable part of the machine.

When the machine goes out of balance by overloading or uneven distribution of the linen, the out-of-balance switch will interrupt this action to prevent damage to the machine.

IMPORTANT: To guarantee good functioning, the probe should be centered horizontally and vertically at 1/3 from the bottom of the tilt window (when machine drum is empty).

Automatic Lubricator

Only for 75-200 Pound Models

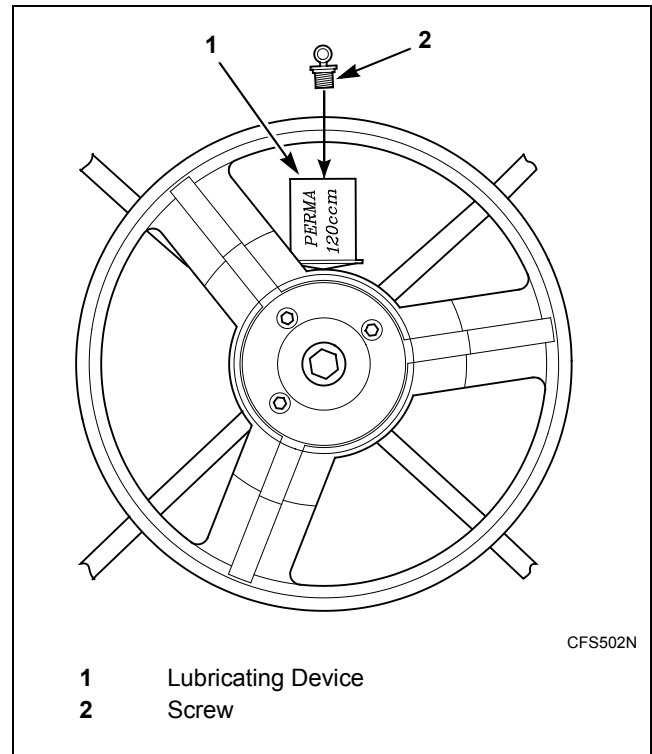


Figure 45

The bearing house of the machine is equipped with a lubricating device, refer to *Figure 45*, which automatically lubricates the bearing during one year. Upon delivery of the machine, this lubricator has been brought into use. When replacing, please put on the matching screw, refer to *Figure 45*, in the foreseen opening of the lubricator to activate.

| | |
|--|----------------|
| | WARNING |
| Ignoring this instruction will inevitably cause damage to the bearings and void the warranty! | |
| W492 | |

Control Function Test

The machine should be cleaned after the installation is complete. A function test should then be executed on the unloaded machine:

1. Verify that power supply voltage and phase are correct in accordance with the machine's requirements.
2. Open manual shut-off valves to the machine.
3. Press the Emergency Stop button.
4. Apply power to the machine.
5. Release the Emergency Stop button.
6. Check 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 attempt to 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, call a qualified service technician.

7. For standard processing, select Cycle 01 by pressing key 0 and key 1 on the keypad. Then press the Start key (or run factory test cycle 39 by pressing key 3, key 9 and Start key).

Run a complete cycle, checking operation of water inlet valves, drain, and extract functions.

8. Cylinder rotation must be clockwise in an extract step for all models. If rotation is not correct, disconnect power. A qualified electrician must reverse any two motor leads between the AC drive and the main drive motor. Refer to *Figure 46*.

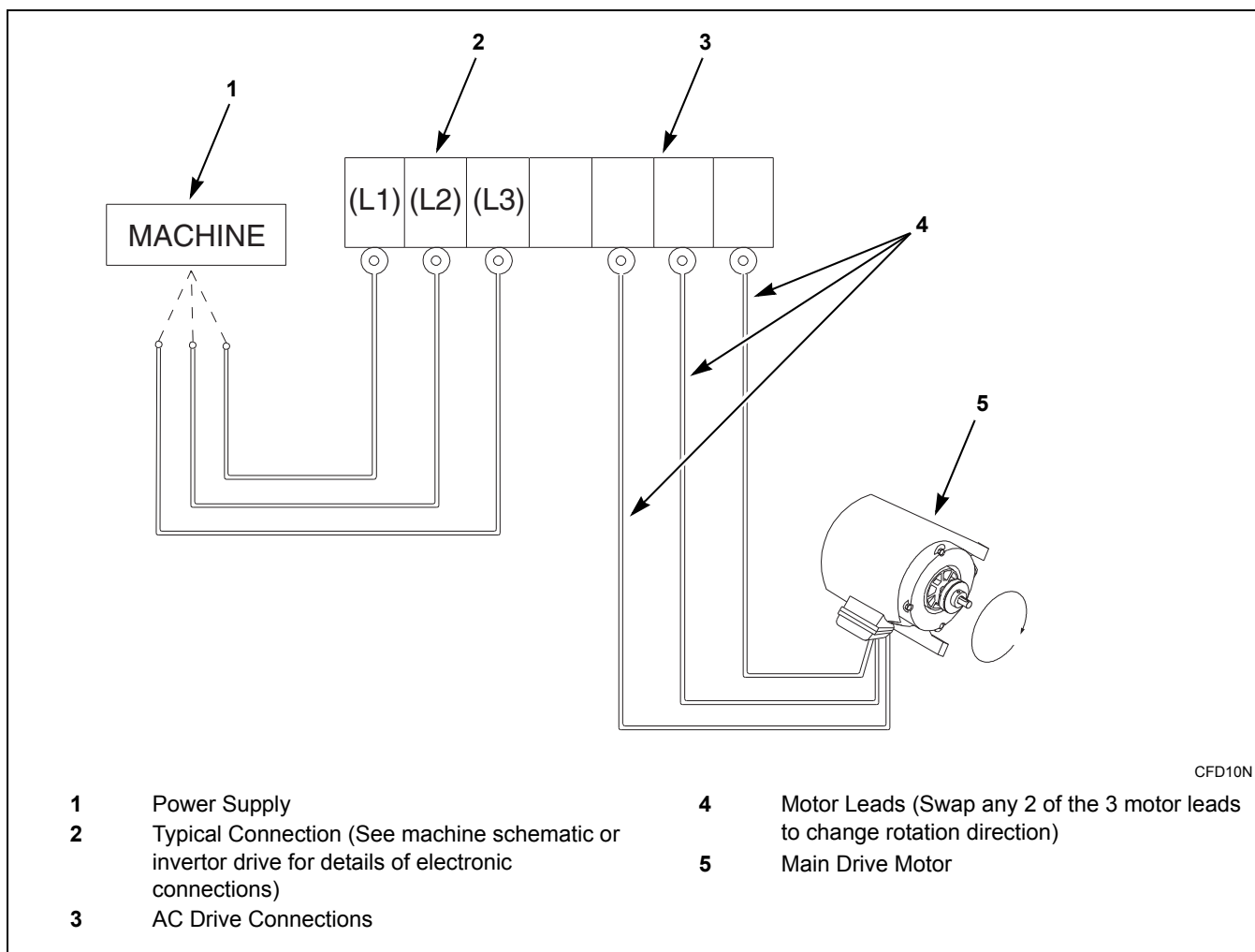


Figure 46