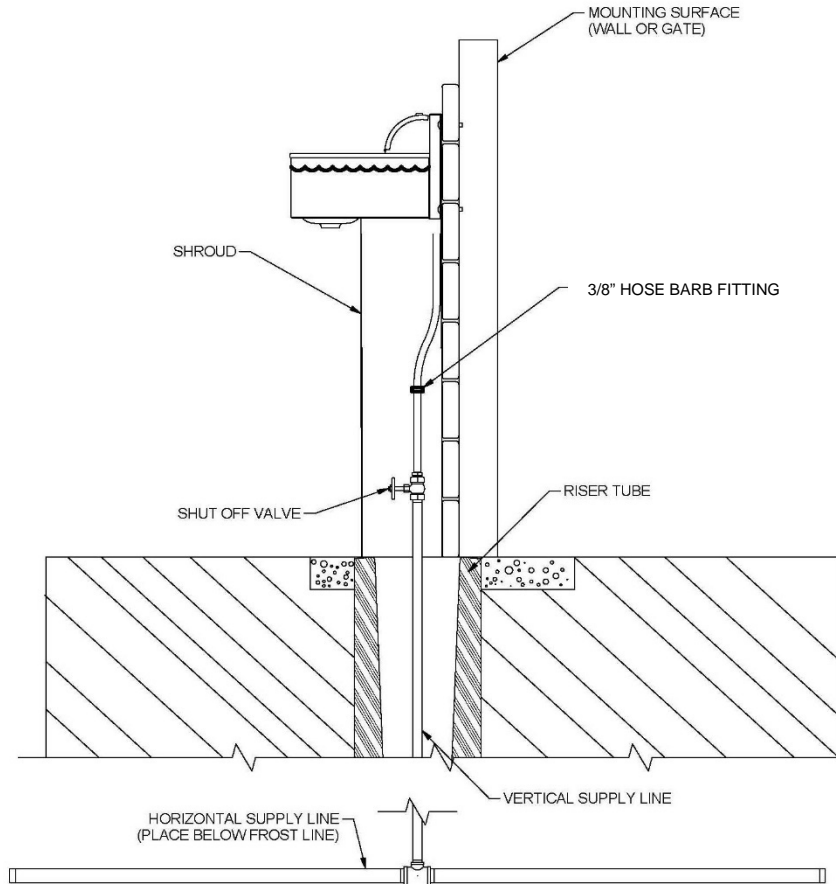


StallFount and StallFount 125 Installation Instructions



A. Mounting Fountain - The StallFount and StallFount 125 are designed to accept the water supply line from below the fountain, or from behind the fountain through the wall.

NOTE: For the StallFount 125 version the unit must be installed over a non-combustible surface. The supply line shroud must be in contact with non-combustible floor surface.

B. Water Supply Line from Underground – Horizontal underground water line should be sized to account for pressure drop, relating to distance, and placed one foot below frost line. A one-inch supply pipe is recommended. A shut-off valve should be installed under fountain to allow for easier servicing. For optimum serviceability, a stop and waste valve can be installed below frost level to drain water when unit is not in use. Vertical supply line must be centered in riser tube to provide an air space between the line and frozen ground outside of tube. Flush water supply line thoroughly before connection to fountain. Water supplies with foreign material such as sand, rust, etc. may require a filter to keep fountain valve working properly. The supply pipe should extend above the shut-off valve to within 12” of the StallFount 125.

C. Electric Supply – It is generally most cost effective to run your electrical supply line at the same time you are trenching for your water supply.

Item No.	Description	Watts	Amps
18082	StallFount 125	173W	1.4A@120V
18415	SF 240V 200W	248W	1A@240V

D. Riser Tube - Install a riser tube and extend it at least one foot below frost line or down to horizontal underground water line. For optimum water line protection, use the 12" diameter insulated *Ritchie Thermal Tube*, part numbers and sizes are shown to the right. Tube opening must be kept clear.

Ritchie Thermal Tube	
Part #	Description
18158	1' Top Section
16612	4' Top Section
16416	2' Extension

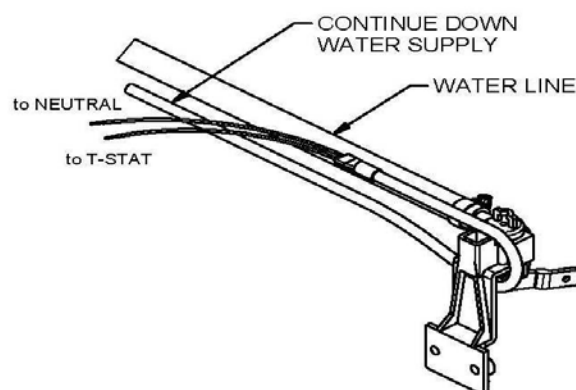
NOTE: *The supply line touching the riser tube is the most common cause of the supply line freezing. Do not surround the supply line with insulation, wood, or other foreign material. Any foreign material in the tube may cause frost to migrate to the supply line causing it to freeze.*

E. Mounting Fountain - Using the adjustable height shroud as a guide, mount the unit on the wall at a height appropriate for your animals. Use of 3/8" carriage bolts or lag screws (not provided), and washers, is recommended.

F. Hose Connection - The StallFount comes with a 3/8" rubber hose (2' long) which attaches to the supply pipe with a 3/8" hose barb and hose clamp.

G. Cable Heater - Uncoil cable heater and loop around the valve. Attach the remaining part of the cable heater to the water supply, as far down the riser tube as possible with the cable twist ties provided. This heater is watertight but should not be immersed in water. Heater may cross over itself but should not be tightened at those locations.

CAUTION: Installation must not cause any strain on heater wiring connections. Avoid heater damage caused by hot spots due to its leads lying too close to each other. Also, do not wrap additional insulation around heater.



H. Electrical Connection -A means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules. For wiring connections, see wiring diagram. Make connections according to the wiring diagram below.

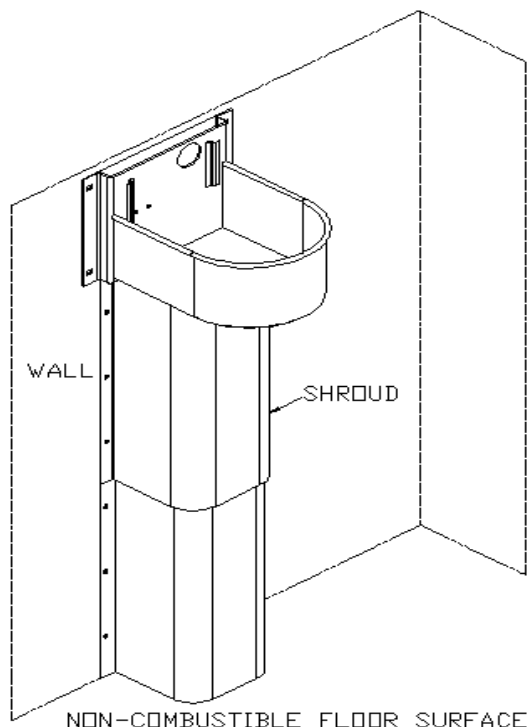
WARNING: ANY ELECTRICAL SERVICE MUST BE INSTALLED AND MAINTAINED BY A QUALIFIED ELECTRICIAN.

WARNING: DISCONNECT POWER IF THE WATER SUPPLY IS TO BE SHUT OFF FOR AN EXTENDED AMOUNT OF TIME. FAILURE TO TURN OFF POWER CAN RESULT IN DAMAGE TO THE WATERING FOUNTAIN.

WARNING: THIS INSTALLATION MUST BE MADE AND MAINTAINED IN STRICT CONFORMITY WITH NATIONAL/LOCAL PLUMBING CODES AND NATIONAL/LOCAL ELECTRICAL CODES (CSA IN CANADA). THE APPLICABLE PROVISIONS OF THESE CODES TAKE PRECEDENT. FAILURE TO MAKE AND MAINTAIN ALL INSTALLATIONS PROPERLY MAY RESULT IN LOSS OF LIVESTOCK, PERSONAL INJURY, OR DEATH.

NOTE: *National/Local electrical codes may require livestock waterers installed in feedlots in open feeding area to be grounded by a separate stranded copper grounding conductor or at least no.6 AWG terminating at a point where the branch circuit receives its supply. Check with local inspection authorities.*

I. Disc Thermostat – The disc thermostat is mounted in a bracket under the trough, which allows it to be moved relative to the heater. To ease movement of thermostat, turn 1/4 turn. To lock in position after adjustment, turn 1/4 turn back. **As the thermostat is moved toward the heater, the water temperature in the trough is lowered.** The best location is determined by checking the trough temperature several times during the heating season.



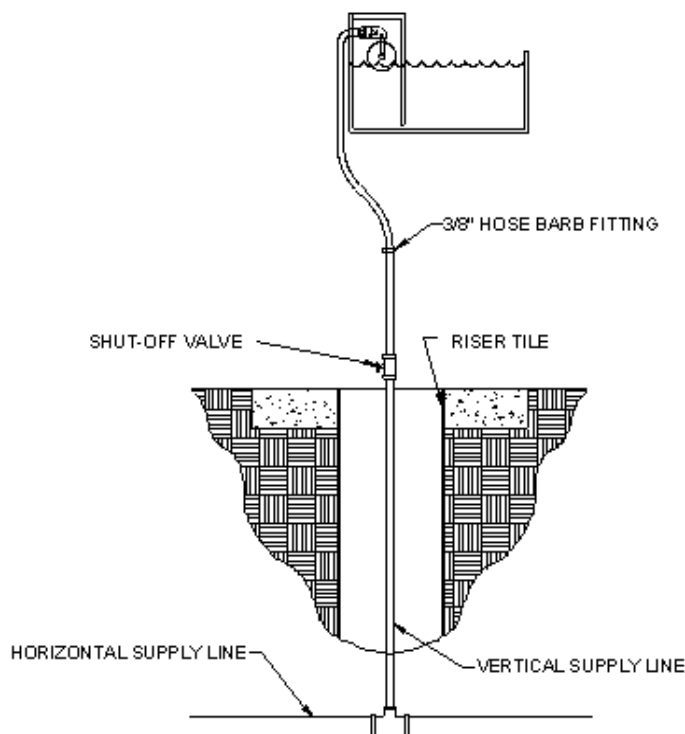
J. Drain Plug – After StallFount is securely mounted to the wall and all supply connections are made, install the drain plug in the drain hole from above, pushing the plug into the hole.

K. Adjust Water Level – Open cover by removing the screw on top. Turn on water and adjust float to water level mark or until there is approximately 3 inches of water in trough. Float is adjusted by loosening the wingnut then raising or lowering the float as needed, and then re-tightening the wingnut. When finished adjusting close the cover and reinstall the screw.

L. Installing the Shroud – After the plumbing and electrical connections are made, install the shroud as shown using 1/4" screws or bolts. Height of the shroud can be adjusted in 6" increments by removing insulation as needed and moving top shroud down to align next set of holes. For the StallFount 125 - Attach ground wire with grounding clip over top edge of top shroud.

CAUTION: StallFount 125 must be installed with the shroud in place. The shroud prevents animals from coming in contact with the heater.

StallFount Installation

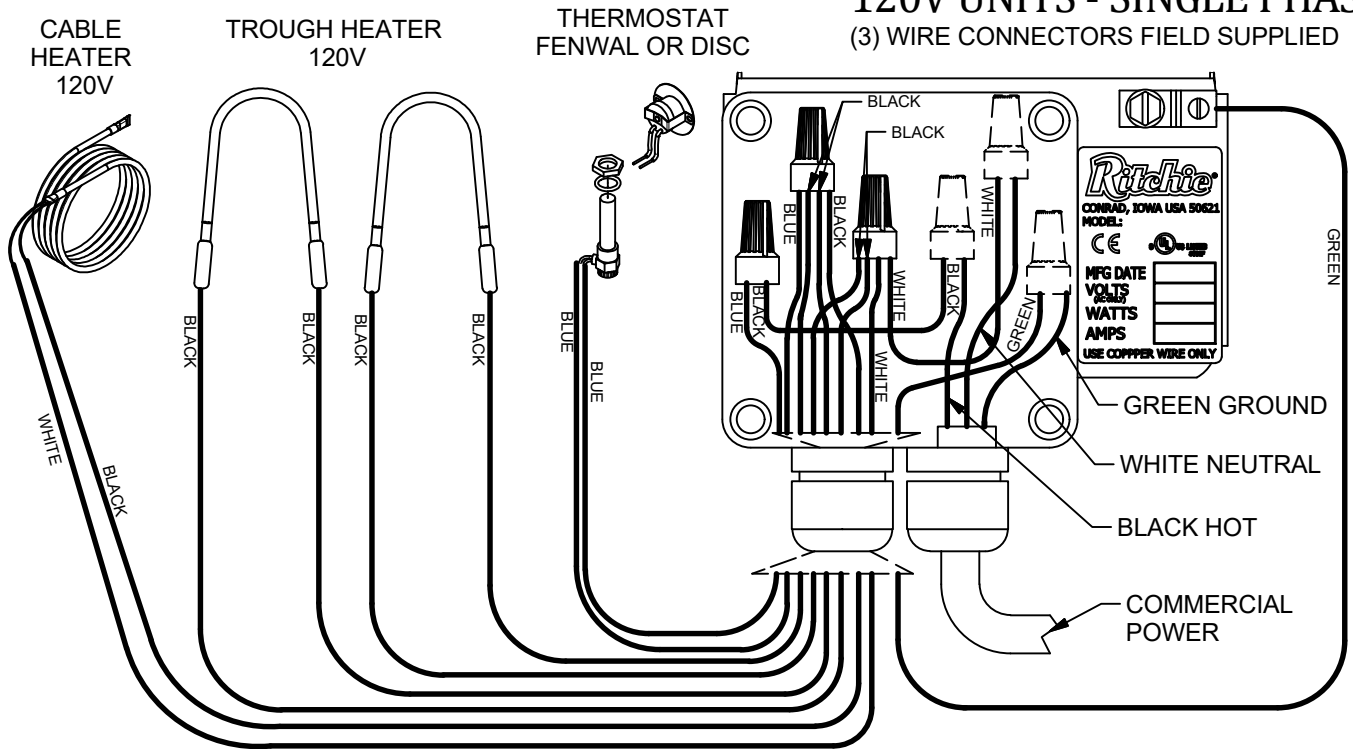


Trouble Shooting

Problem	Solution
Ice in Trough	Check fuses or circuit breakers
	Check all heating elements to make sure they are working and hot
	Check voltage after the thermostat to the fountain with and without electrical load.
Valve freezing	Check that the cable heater is installed properly near valve and fastened to water supply line and is working (hot).
Supply line freezing	Check that the cable heater is fastened to supply line and is working (hot).
	Check that supply piping is centered in riser tube and that there is air space between riser tube and supply line. Ritchie Thermal Tubes are recommended as they have optimum inside and outside diameter to maximize insulation.
	Check that riser tube is free of water and mud that may freeze.
Valve won't shut off	Check float adjustment. Check for waterlogged float, or float rubbing on side of valve compartment.
	Disassemble valve and check for sand or scale in valve rubber. Also check valve orifice outlets for wear and damage. A screen or filter may be required with sandy or scaly water
	Turn valve rubber over and re-assemble
	Check for excessive water system pressure (greater than 60 psi). May need to use pressure reducer.
Low water flow	Check that valve inlet is not plugged or supply hose is not kinked
	Check system pressure to unit. A severe pressure drop indicates a restriction or undersized supply system.
	Check that shutoff valves are fully open.

WIRING DIAGRAM FOR HEATED UNITS

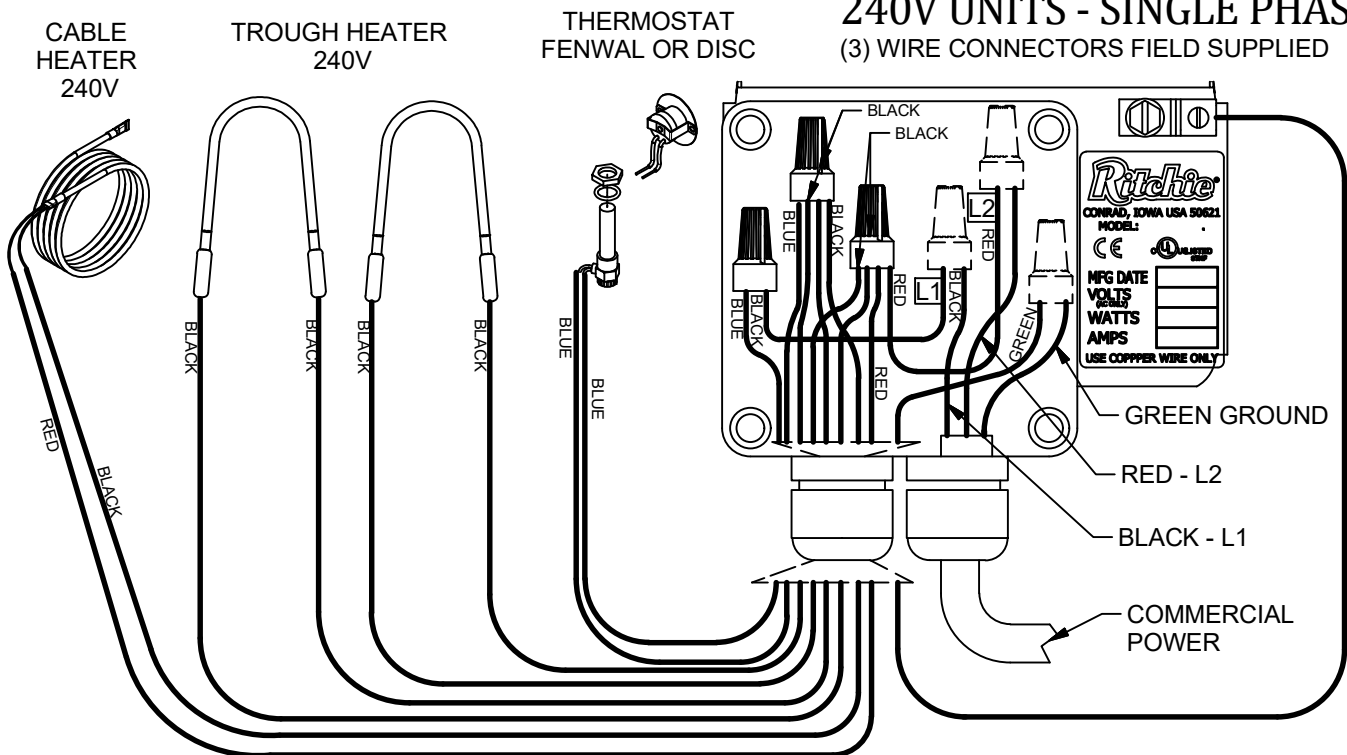
120V UNITS - SINGLE PHASE (3) WIRE CONNECTORS FIELD SUPPLIED



WARNING - CHECK NAMEPLATE FOR CORRECT VOLTAGE. ONLY CONNECT 120VAC TO 120V UNITS. WIRING DIAGRAM SHOWN WITH 2 HEATERS - QUANTITY MAY VARY

NOTE: Power cord may be supplied on select units to simplify installation. Use of a moisture resistant, exterior grade outlet is recommended in these units. Do not use extension cords.

240V UNITS - SINGLE PHASE (3) WIRE CONNECTORS FIELD SUPPLIED

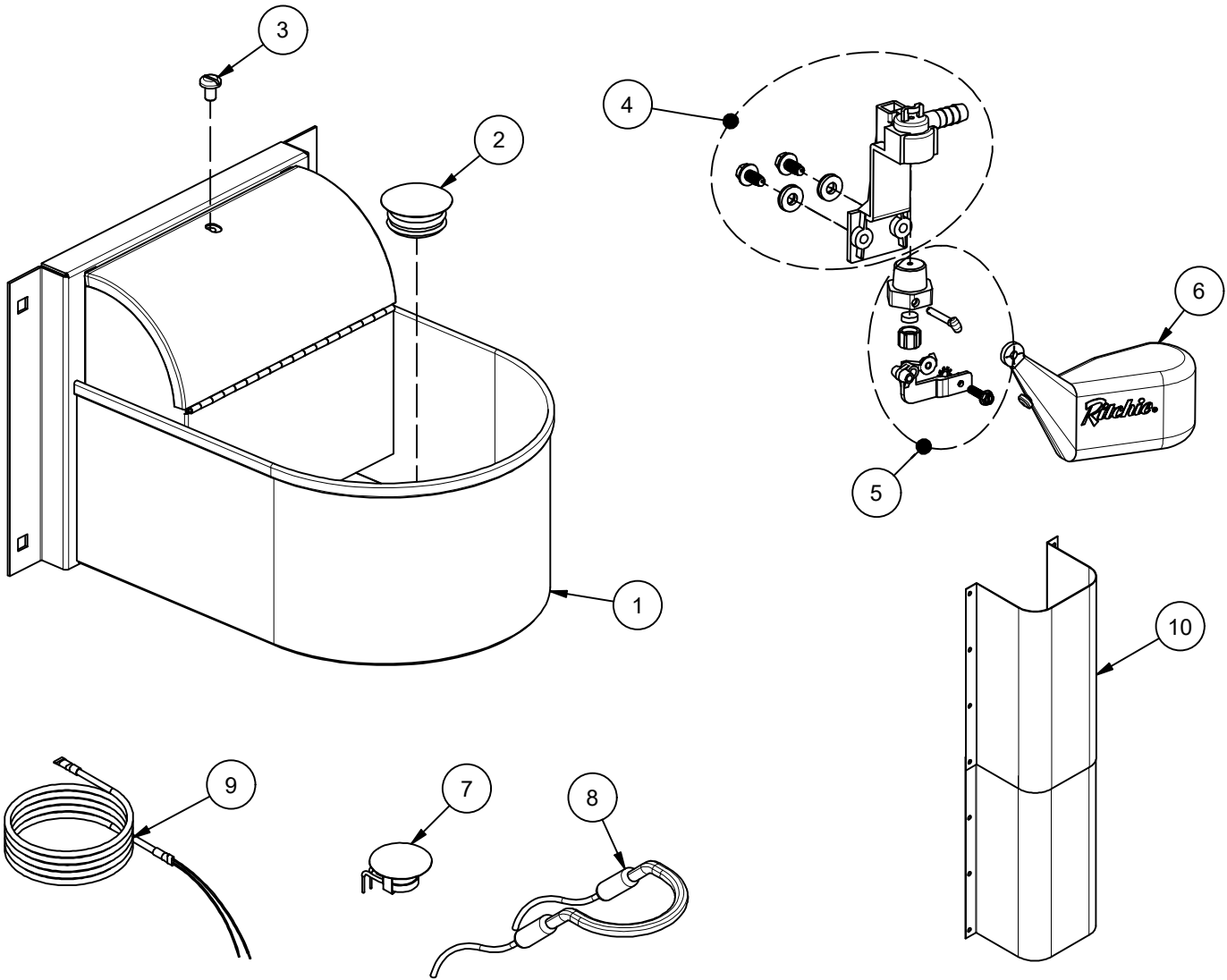


WARNING - CHECK NAMEPLATE FOR CORRECT VOLTAGE. ONLY CONNECT 230-240VAC TO 240V UNITS. WIRING DIAGRAM SHOWN WITH 2 HEATERS - QUANTITY MAY VARY

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StallFount 125

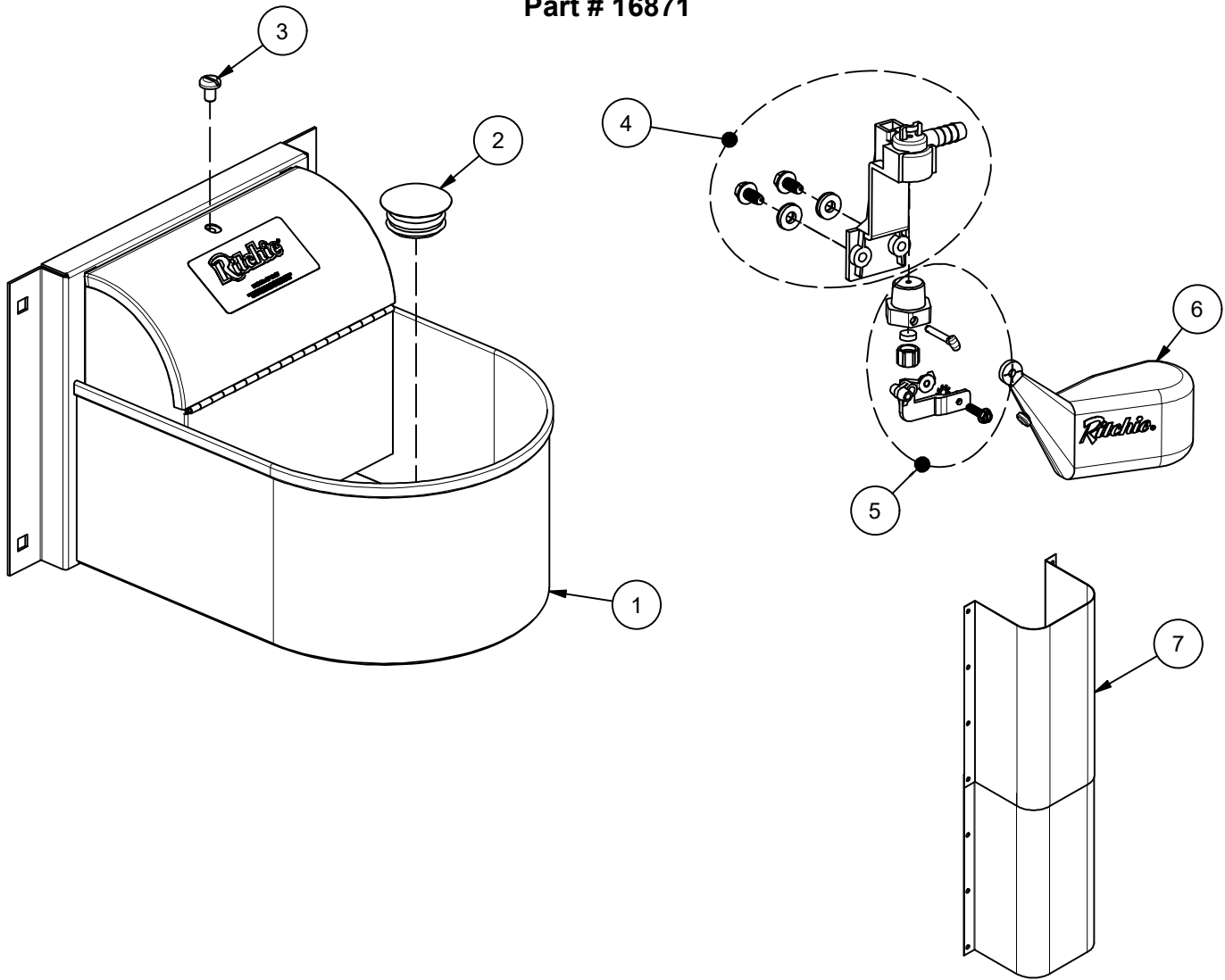
Part # 18082



Item	Part #	Description	Qty	Item	Part #	Description	Qty
1	18083	SF Trough Complete	1	10	18092	Shroud Set	1 pkg
2	18876	SF Trough Plug	1	NS	18613	Adapter 1/2" x 3/8" HB	1 pkg
3	18080	SF Cover Screw (6/pkg)	1 pkg	NS	15931	Hose Clamp SS (5/pkg)	1 pkg
4	11515	Valve Bracket w/ screw pkg	1 pkg	NS	18228	SF Accessory pkg	1 pkg
5	13597	Valve 1/2" pkg Green	1 pkg				
6	18642	Float	1 pkg		18415	SF 240 200W	
7	11885	Disc Thermostat pkg	1 pkg				
8	14150	Heater 120V 125W pkg	1 pkg	NS	16664	Heater 240V 200w (1/pkg)	1 pkg
9	13830	Cable Heater 120V 48W pkg	1 pkg	NS	16424	Cable Htr 240v 48W (1/pkg)	1 pkg

StallFount

Part # 16871



Item	Part #	Description	Qty	Item	Part #	Description	Qty
1	16877	SF Trough Complete	1	6	18642	Float	1 pkg
2	18876	SF Trough Plug	1	7	18092	Shroud Set Optional.	1 pkg
3	18080	SF Cover Screw (6/pkg)	1 pkg	NS	15931	Hose Clamp SS (5/pkg)	1 pkg
4	11515	Valve Bracket w/ screw pkg	1 pkg	NS	18228	SF Accessory pkg	1 pkg
5	13597	Green Valve 1/2" pkg	1 pkg				

Installation Variations

A stainless steel shroud may be purchased to protect the waterline between the floor and the Ritchie Stall Fount. Part number 18092 includes two sections of shroud, 19 ³/₄ inches long. This part is not required for the non-electric Stall Fount.

Installing the shroud - After the plumbing connections are made, install the optional shroud using 1/4" lag screws or bolts. When more than one section of shroud is used, the total length of the shroud can be adjusted in 6" increments by removing insulation as needed and moving top shroud down to align next set of holes.



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RITCHIE INDUSTRIES, INC.

LIMITED WARRANTY

Ritchie Industries, Inc., hereinafter referred to as Ritchie Industries, gives a LIMITED WARRANTY for the period of time(s) stated herein, subject to certain limitations, on your new watering system against defects in material or workmanship when properly installed, set up, operated, and maintained in accordance with the instructions and recommendations set forth by Ritchie Industries, including in the Installation Instructions. **The warranty excludes labor and shipping charges.**

The warranty is transferable to the next purchaser of the watering system prior to expiration of the warranty period, but any such transfer will not extend the original warranty term. Proof of purchase must be submitted with any warranty claim, and all warranty claims shall be processed through an Authorized Ritchie Dealer or Distributor.

Ritchie Industries' liability for any defects in material or workmanship with respect to accepted goods shall be limited to repairing the goods or replacing them as Ritchie Industries shall elect. Parts used in warranty repairs will be warranted for the balance of the water system's warranty period, with all parts replaced under warranty becoming the property of Ritchie Industries.

The limited warranty periods begin upon delivery of the watering system to the original purchaser. Upon delivery of the goods, purchaser assumes all liability, including but not limited to all personal injury and property damage, resulting from the handling, possession, or use of the goods.

WARRANTY COVERAGE AND LIMITATIONS

Limitations of Warranties and Remedies

Ritchie Industries' watering systems are designed and manufactured to provide years of reliable use when installed and operated consistent with Ritchie Industries' instructions and recommendations. However, the potential for improper installation, modifications and misuse of the goods exists. Therefore, the limited warranty provided shall be as follows:

This limited warranty shall not apply to any appearance items and shall not apply to any product which has been subject to misuse, abuse, abnormal service or handling, negligence, or accident, nor to any product that is installed and/or used contrary to Ritchie Industries' installation instructions and instructions for use. The limited warranty shall also not apply to any product whose exterior has been damaged or otherwise defaced, that has been repaired, altered, or modified by anyone, other than Ritchie Industries, in a way so as in Ritchie Industries' judgment it adversely affects the product's operation, performance, durability, or intended use, nor to any product where removal of parts, modification(s) or use of parts or accessories not manufactured or approved by Ritchie Industries has caused damage.

Coverage and Warranty Periods

Unit Type	Coverage and Warranty Period
Poly Units	Base, top, and ball closures. Ten-year limited warranty: 100% for first five years, then declining 20% per year for remainder of the 10-year period.
Stainless Steel Units	Stainless trough and stainless valve chamber frame. Ten-year limited warranty, plus ten years of corrosion coverage, at 100% for entire 10-year period.
Component Parts	One-year limited warranty on all component parts, such as floats, valves, and heating elements.

Exclusions of Liability

EXCEPT AS OTHERWISE EXPRESSLY STATED HEREIN, RITCHIE INDUSTRIES MAKES NO OTHER WARRANTY OR REPRESENTATION OF ANY KIND, EXPRESSED OR IMPLIED. **THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED FROM THIS LIMITED WARRANTY.** TO THE EXTENT THEY CANNOT BE DISCLAIMED, THE IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS WARRANTY. **THIS LIMITED WARRANTY EXCLUDES INCIDENTAL, CONSEQUENTIAL, AND SPECIAL DAMAGES. THIS EXCLUSION OF CONSEQUENTIAL, INCIDENTAL, AND SPECIAL DAMAGES IS INDEPENDENT FROM AND SHALL SURVIVE ANY FINDING THAT THE EXCLUSIVE REMEDY FAILED OF ITS ESSENTIAL PURPOSE.** THE REMEDIES SET FORTH IN THIS LIMITED WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON UNDER THIS WARRANTY. SOME STATES/PROVINCES DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS, AND EXCLUSIONS IDENTIFIED ABOVE AND, AS A RESULT, THEY MAY NOT APPLY TO YOU.

No agent, employee or representative of Ritchie Industries, and no Ritchie Industries Dealer/Distributor, is authorized to bind Ritchie Industries to any representation or warranty regarding the goods except as specifically included in this limited warranty.

Installation Instructions for



StallFount & StallFount 125

Congratulations, you have just purchased the finest watering fountain on the market. This unit is built to give you excellent service when properly installed and maintained. Please follow instructions carefully. Read and understand all instructions before installing.

Ritchie Industries, Inc.
800-747-0222
www.ritchiefount.com

