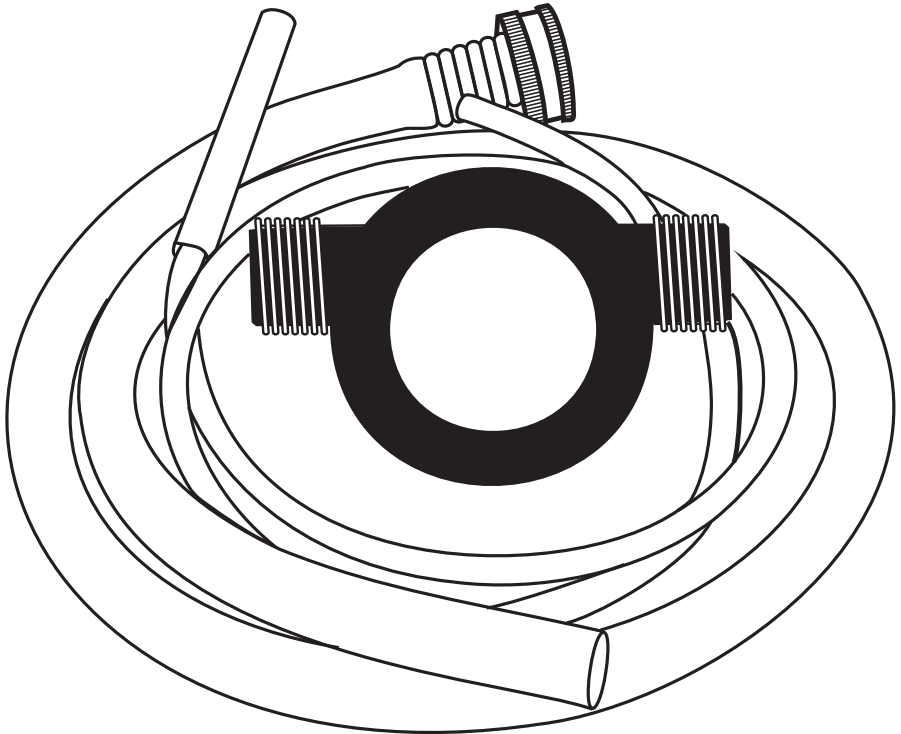





INSTALLATION &
OPERATION MANUAL
DRILL PUMP KIT


90070





SAFETY GUIDELINES

Carefully read, understand and follow all safety instructions in this manual.

 **This is the safety alert symbol.** When you see this symbol, look for one of the following signal words.


 **DANGER** Indicates a hazardous situation which, if not avoided, will result in death or serious injury.


 **WARNING** Indicates a hazardous situation which, if not avoided, could result in death or serious injury.


 **CAUTION** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.


SAFETY INFORMATION

Read these warnings carefully. Know the application and limitations of this pump. Failure to follow these warnings could result in serious bodily injury and/or property damage.


 **DANGER** Fire hazard. Never pump gasoline or other volatile or flammable liquids with this unit.

 **DANGER** Follow all safety precautions recommended by the manufacturer of the electric drill.*


 **WARNING** Use 3-wire grounded cord or double insulated drill.


 **WARNING** Keep drill*, hands and feet dry.

 **WARNING** Disconnect the electric drill* before attempting to service the drill pump.

 **CAUTION** Provide a means of pressure relief in case the discharge line is shut off or obstructed.

 **CAUTION** Always check hoses before using the pump. Replace if worn or weak.

 **CAUTION** Always check all connections for tightness before using the pump.

 **NOTICE** The suction tubing should be as short as possible, kink free, and non-collapsible. Be sure inlet line is air tight.

PRODUCT USE

For removal of non-explosive or corrosive liquid from sinks, tanks, water heaters, small pools, aquariums, etc. Drill pump is designed to work with most power drills*.

Model	Max Liquid Temp	Max Drill RPM	Suction/ Discharge	Drill Construction	Drive Shaft	Max Flow Rate**	Included in kit
90070	120° F	2800	3/4" GHT	Thermoplastic	Corrosion Resistant Steel	225 GPH	3 in. x 3/8 in. Adapter Tube
							30 in. x 1/4 in. Suction Tube
							36 in. Garden Hose with female fitting

*Not Included

**Tested at 1200 RPM at 0 ft. head

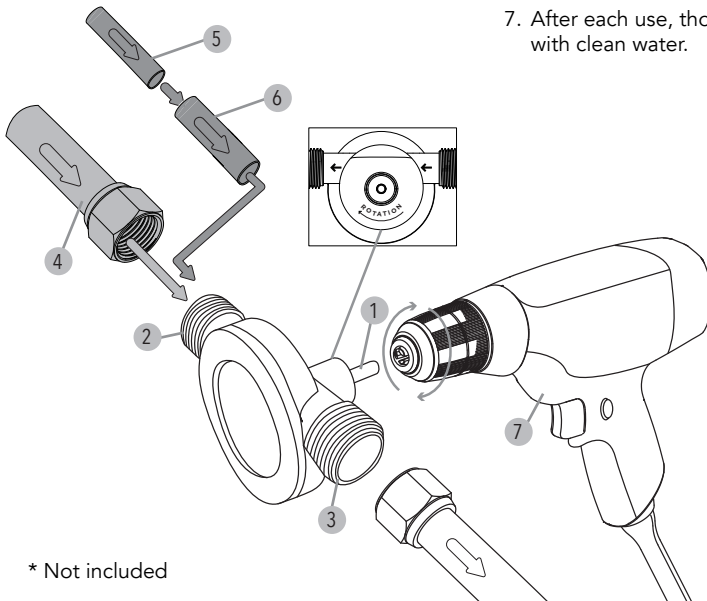
SAFETY INFORMATION (continued)

⚠ DANGER Always disconnect the drill* from power source and remove the pump from drill* chuck before attempting to service or perform maintenance. If the power source is out of sight, lock and tag in the off position to prevent unintended power application.

NOTICE Do not run the pump dry. The pump housing must be filled with liquid during operation. Running the pump dry will cause damage and result in premature failure of the pump. Running the pump dry will also void the warranty.

INSTALLATION AND OPERATION

1. Connect the pump drive shaft to the chuck of the drill and tighten.
2. Attach the suction hose/s:
 - A: Garden Hose: Attach the included garden hose or standard garden hose to the inlet port of the pump.
NOTE: Keep the inlet hose as short as possible. The inlet hose should not exceed more than 8 ft. vertical or 25 ft. horizontal distance.
 - B: Suction Tube: Insert the 3 in. x 3/8 in. (76 x 9.5 mm) adapter tube to the inside of the inlet port. Insert the 1/4 in. x 30 in. (6.4 x 762 mm) suction tube to the inside of the adapter tube. **NOTE:** The adapter and suction tubes are a friction fit and should be fully inserted.
3. Attach a standard garden hose to outlet port of the pump. If the included garden hose is not being used on the suction port, it may be used for the discharge.
4. Be certain that the suction hose/tube is fully submerged into liquid source.
5. Connect the drill to the power source. (Refer to drill manufacturer's instructions for proper operation.)
6. With drill in the forward position, press the trigger of the drill to start pumping. **NOTE:** If pump fails to prime and start pumping within 15-20 seconds, disconnect the drill from the power source, fill intake hose with liquid and restart the pumping process. Do not run the pump dry.
7. After each use, thoroughly flush the pump with clean water.



Components

- 1 Drive Shaft
- 2 3/4 in. (19mm) GHT Suction Port
- 3 3/4 in. (19mm) GHT Discharge Port
- 4 3/8 in. x 30 in. (9.5 x 762 mm) GHT Garden Hose
- 5 30 in. x 1/4 in. (762 x 6mm) Suction Hose
- 6 3 in. x 3/8 in. (76.2 x 9.5mm) Adapter Tube
- 7 Drill*

* Not included

MAINTENANCE

1. Thoroughly flush the pump with clean water after each use.
2. Inspect drive shaft and suction / discharge threads for signs of wear.
3. Inspect all hoses/tubing for signs of wear. Replace if necessary.
4. Before each use, it is recommended to place a few drops of oil in the pump housing to aid in lubrication.

TROUBLESHOOTING

Problem	Possible Causes	How To Correct
Pump will not prime or move liquid.	Air is leaking into the inlet hose or connection.	Check connections to ensure they are tight. Inspect rubber washer in the hose fitting. Replace if necessary.
	The inlet hose is clogged.	Clear the clog or replace the hose.
	The impeller, body, and end cover are worn or damaged from pumping abrasives.	Replace the drill pump.
	The impeller is worn or damaged from running the pump dry.	Replace the drill pump.
Pump running but flow rate not sufficient.	The shaft turns but the impeller does not turn.	Replace the drill pump.
	The drill is running too slowly.	Increase the drill speed to maximum 2800 rpm.
	Restriction in the inlet or discharge hose(s).	Clear restriction or replace the hose(s). Check hoses to eliminate any kinks in the lines.
Liquid is leaking where the shaft enters the drill pump body.	The seal is worn or damaged.	Replace the drill pump.

LIMITED WARRANTY - DRILL PUMPS:

Manufacturer warrants that the products specified in this warranty are free from defects in material or workmanship for ninety (90) days from date of purchase. During the time period and subject to the terms and conditions, Manufacturer will repair or replace to the original user or consumer any portion of this product which proves to be defective due to materials or workmanship. At all times Manufacturer shall have and possess the sole right and option to determine whether to repair or replace defective equipment, parts, or components. Manufacturer has the option to inspect any product returned under warranty to confirm that the warranty applies before repair or replacement under warranty is approved. This warranty sets forth Manufacturer sole obligation and purchaser's exclusive remedy for defective product. Return defective product to the place of purchase or postpaid to Manufacturer, Attn: Warranty Dept., 45 Maryland Ave. E, St. Paul, MN 55117 for warranty consideration.

WARRANTY PERIOD - PRODUCTS:

If, within the duration of product use by the original user, this product proves to be defective due to materials or workmanship, the product shall be repaired or replaced at Manufacturer option, subject to the terms and conditions set forth in this warranty statement. Proof of purchase is required for warranty consideration. In the absence of suitable proof of the purchase date, the effective period of this warranty is 12 months from the product's date of manufacture.

LABOR, ETC. COSTS:

Manufacturer shall IN NO EVENT be responsible or liable for the cost of field labor or other charges incurred by any customer in removing and/or affixing any product, part, or component thereof.

PRODUCT IMPROVEMENTS:

Manufacturer reserves the right to change or improve its products or any portions thereof without being obligated to provide such a change or improvement for units sold and/or shipped prior to such change or improvement.

GENERAL TERMS AND CONDITIONS:

This warranty shall not apply to damage due to acts of God, normal wear and tear, normal maintenance services and the parts used in connection with such service, lightning or conditions beyond the control of Manufacturer, nor shall it apply to products which, in the sole judgment of Manufacturer, have been subject to negligence, abuse, accident, misapplication, tampering, alteration; nor due to improper installation, operation, maintenance or storage; nor to excess of recommended maximums as set forth in the instructions. Warranty will be VOID if any of the following conditions are found:

1. Product is used for purposes other than those for which it was designed and manufactured.
2. Product not installed in accordance with applicable codes, ordinances, and good trade practices.
3. Product connected to voltage other than indicated on nameplate.
4. Pump exposed to but not limited to the following: sand, gravel, cement, grease, plaster, mud, tar, oil, gasoline, solvents or other abrasive or corrosive substances.
5. Pump has been used for pumping liquids above 120°F.
6. Pump allowed to operate dry (liquid supply cut off).

DISCLAIMER:

Any oral statements about the product made by the seller, Manufacturer, the representatives, or any other parties do not constitute warranties, shall not be relied upon by the user, and are not part of the contract for sale. Seller's and Manufacturer only obligation, and buyer's only remedy, shall be the replacement and/or repair by Manufacturer of the product as described above. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE, DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS); ARISING OUT OF THE USE OR THE INABILITY TO USE THE PRODUCT, AND THE USER AGREES THAT NO OTHER REMEDY SHALL BE AVAILABLE TO IT. Before using, the user shall determine the suitability of the product for his/her intended use, and user assumes all risk and liability whatsoever in connection therewith.

THE WARRANTY AND REMEDY DESCRIBED IN THIS LIMITED WARRANTY IS AN EXCLUSIVE WARRANTY AND REMEDY AND IS IN LIEU OF ANY OTHER WARRANTY OR REMEDY, EXPRESSED OR IMPLIED, WHICH OTHER WARRANTIES AND REMEDIES ARE HEREBY EXPRESSLY EXCLUDED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, TO THE EXTENT EITHER APPLIES TO A PRODUCT SHALL BE LIMITED IN DURATION TO THE PERIODS OF THE EXPRESSED WARRANTIES GIVEN ABOVE.

Some states and countries do not allow the exclusion or limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



superiorpump.com
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