Operating Instructions & Maintenance Manual

Please read and save this Repair Parts Manual. Read this manual and the General Operating Instructions carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. The Safety Instructions are contained in the General Operating Instructions. Failure to comply with the safety instructions accompanying this product could result in personal injury and/or property damage! Retain instructions for future reference. AMT reserves the right to discontinue any model or change specifications at any time without incurring any obligation.


Periodic maintenance and inspection is required on all pumps to ensure proper operation. Unit must be clear of debris and sediment. Inspect for leaks and loose bolts. Failure to do so voids warranty.

Electric Motor-Driven Pumps
Refer to Specific Information and Repair Parts Manual for product specific information.

SAFETY GUIDELINES

This manual contains information that is very important to know and understand. This information is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help recognize this information, observe the following symbols:

⚠️ DANGER
Danger indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

⚠️ WARNING
Warning indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

⚠️ CAUTION
Caution Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.

NOTE: Indicates important information that, if not followed, may cause damage to equipment.

UNPACKING

When unpacking the unit, inspect carefully for any damage that may have occurred during transit. Check for loose, missing or damaged parts. (See pump exploded view and Repair Parts List.) Do not attempt to assemble or operate pump if any parts are missing or damaged. Determine that all parts are properly installed.

GENERAL SAFETY INFORMATION

1. Know the pump application, limitations, and potential hazards. Read all manuals included with this product carefully. Be thoroughly familiar with the pump and the proper use of the equipment.

⚠️ WARNING
Pump should only be used with liquids compatible with pump component materials.

⚠️ DANGER
Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in flammable and/or explosive atmospheres.

When pumping hazardous or dangerous materials, use only in room or area designated for that purpose. For your protection, always wear proper clothing, eye protection, etc. in case of any malfunction. For proper handling techniques and cautions, contact your chemical supplier, insurance company and local agencies (fire dept., etc.). Failure to comply with this warning could result in personal injury and/or property damage.

2. Make certain that the power source (engine) conforms to the requirements of your equipment.
3. Provide adequate protection and guarding around moving parts.
4. Disconnect power before servicing. If the power disconnect is out of sight, lock in the open position and tag it to prevent unexpected application of power. Failure to do so could result in fatal electric shock!
5. Release all pressure within the system before servicing any component.
6. Drain all liquids from the system before servicing.
7. Secure the discharge line before starting the pump. An unsecured discharge line will whip, possibly causing personal injury and/or property damage.
8. Check hoses for weak or worn condition before each use, making certain that all connections are secure.
9. Periodically inspect pump and system components. Perform routine maintenance as required (See Maintenance section).
10. Provide a means of pressure relief for pumps whose discharge line can be shut-off or obstructed.
11. Personal Safety:
   a. Wear safety glasses at all times when working with pumps.
   b. Wear a face shield and proper apparel when pumping hazardous chemicals.
   c. Keep work area clean, uncluttered and properly lighted; replace all unused tools and equipment.
   d. Keep visitors at a safe distance from the work area.
   e. Make workshop childproof – with padlocks, master switches, and by removing starter keys.
12. This unit is not waterproof and is not intended to be used in showers, saunas or other potentially wet locations. The motor is designed to be used in a clean dry location with access to an adequate supply of cooling air. Ambient temperature around the motor should not exceed 104°F (40°C). For outdoor installations, motor must be protected by a cover that does not block airflow to and around the motor. This unit is not weatherproof nor is it able to be submersed in water.
13. When wiring an electrically driven pump, follow all electrical and safety codes, as well as the most recent United States National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).
14. **THREE-PHASE MOTORS:** These units are for permanent installation using a power supply with a ground. To reduce the risk of electric shock, electric motor must have one of the following:
   a. Adequately grounded to a metal raceway system.
   b. Use of a separate grounding wire connected to bare metal on the motor frame or to the grounding screw located inside motor terminal box.
   c. By other suitable means.

Refer to the most recent National Electrical Code (NEC) Article 250 (Grounding) for additional information. ALL WIRING SHOULD BE DONE BY A QUALIFIED ELECTRICIAN.

On three-phase power, voltages on all three lines should be balanced within 1%. Unbalanced voltages cause motor overheating and poor performance.

**WARNING**

Risk of Electric Shock! Never connect the green (or green and yellow) wire to a live terminal!

15. **SINGLE PHASE MOTORS:** These units can be wired for either portability with flexible 3-wire cord, or permanent installation using a supply with a ground. To reduce the risk of electric shock, the motor must be securely and adequately grounded! This can be accomplished by either (1) inserting plug (portable) directly into a properly installed and grounded 3-prong grounding type receptacle (as shown in Figure A for 110-120 volt, or Figure B for 220-240 volt) (2) permanently wiring the unit with a grounded, metal raceway system (3) using a separate ground wire connected to the bare metal of the motor frame or (4) other suitable means. The green (or green and yellow) conductor in the cord is the grounding wire.

**WARNING**

Specific single phase pump motors are equipped with an automatic resetting thermal protector and may restart unexpectedly. Protector tripping is an indication of motor overloading as a result of operating the pump at low heads (low discharge restriction), excessively high or low voltage, inadequate wiring, incorrect motor connections or a defective motor or pump. A motor equipped with a automatic thermal protection will be indicated on the motor name plate.

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**INSTALLATION**

**WARNING**

The pumps should not be used in flammable or explosive atmospheres. In order to safely use this product, familiarize yourself with this pump and also with the liquid (chemical, etc.) that is going to be pumped through the unit. This pump is not suitable for many liquids.

For installations where property damage might result from an inoperative or leaking pump due to power outages, discharge line blockage or any other reason, a backup system(s) should be used. Failure to follow any warning can result in personal injury and/or property damage.

**LOCATION**

a. **Open Drip Proof Motor** - Clean dry locations with access to an adequate supply of cooling air.

b. **Totally Enclosed Motor** - Harsher environments where damp and dirty conditions may exist. Totally enclosed motors are not water proof.

c. Use only UL listed **Hazardous Location** motors for service in **Hazardous Locations** as defined in Article 500 of the NEC.

d. **Hazardous Location** - Clean dry locations with access to an adequate supply of cooling air.

1. Locate pump as close to the fluid source as possible, thus making the suction line short and direct as possible.

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**CAUTION**

The unit should be placed where the motor and electrical components are protected from the weather and extremes of heat, cold and humidity.

2. Attach piping suction line to suction inlet and piping discharge line to discharge outlet. Avoid using looped section of pipe or fittings, which might permit air to ensure airtight pipe connections.

**IMPORTANT:** If plastic or fabric hose is used for the suction piping, it should be of a reinforced type so as not to collapse under suction. The suction piping should be one size larger than the discharge piping.
3. Support the piping independently of the pump to avoid universal or excessive stresses on the pump casing, which would cause impeller misalignment and possible pump failure.

4. Install both a union and a gate valve (not furnished) on the discharge side of the pump for service convenience.

**CAUTION**

*Do not use a globe or other restricting type of valve at the discharge. Globe valves seriously restrict the capacity of the pump; however, restricting the discharge of a centrifugal pump will not overload the drive motor.*

5. **SELF-PRIMING PUMPS**: It is recommended that a foot valve be used on the suction line to assure quick priming and that a suitable suction strainer be attached to the suction line so that large pieces of foreign material are not drawn into the pump.
   
   a. Locate pump as close to the fluid source as possible making the suction line as short and direct as possible.

   b. The suction line should be positioned such that there is a continual upward slope from the fluid source to the pump. Avoid using loops or sections of pipe or fittings which might permit air to become trapped.

   c. Suction piping should be the same size as the discharge piping.

   ![Self Priming Installation](image)

   Connections should be made with flexible conduit to minimize vibration transmission.
   Whenever possible, the pump should be powered from a separate branch circuit of adequate capacity to keep voltage drop to a minimum during starting and running.
   Select the voltage to be used, either
   
   a. Single phase - 115V or 230V
   
   b. Three phase - 230V or 460V

   Check motor wiring to verify which voltage the motor is currently wired for. If the wiring must be changed to conform to a specific voltage requirement, then the motor should be wired according to recommendations of wiring diagrams located on motor nameplate or wiring compartment cover. Make sure unit is properly grounded. A motor to be used with single phase power cannot be used with three phase power and vice versa. If unsure about the above information or the wiring diagrams, consult an electrician familiar with motor wiring.

   **NOTE**: Dual hertz motors (see motor nameplate) that can operate at 50Hz will impact the AMPs, RPMs, service factor, performance and self-priming capabilities.

   **WARNING**

   *A wrong connection can burn out the pump motor, cause an electrical short or produce an electrical shock. Failure to follow the above warning can result in property damage and/or personal injury. Always wire the motor with a three-wire system, ensuring that a ground wire runs to a good electrical ground such as a grounded water system or conduit. Also, ensure that a good electrical ground is provided at the supply end of the line. Connections should be made with flexible conduit to minimize vibration transmission.*

6. **WIRING**: For proper electrical connections, refer to the diagram located on the nameplate or inside the terminal of the motor. Make sure the connections are correct for the voltage being supplied to the motor.

   ![Diagram](image)

   Do not operate pump dry. Mechanical seal damage will result.

   8. Install any auxiliary components (e.g. pressure switch, time).

**OPERATION**

**SELF-PRIMING PUMPS**
It is necessary to prime the pump before initial startup. Prime the pump by filling the casing with liquid through the top fill plug, the discharge port, or by installing a pipe tee at the discharge of the pump. (When installing a tee, use the horizontal leg of the tee as the pump discharge and place a pipe plug in the vertical leg. This procedure will help facilitate priming later.)

**NON-PRIMING PUMPS**

1. The casing and suction piping must be filled with liquid before the unit can begin pumping. In order to completely fill casing with liquid, entrapped air in casing must be vented. This is accomplished by momentarily loosening or removing the top drain plug located on the casing.

   **CAUTION**

   *Do not run pump dry as permanent damage to the mechanical seal will result.*

2. Activate the unit.
IMPORTANT: Proper Rotation- Power supply should be applied momentarily to the pump at first and the direction of rotation checked. When viewing the front of the pump, the motor shaft (impeller) should be rotating counterclockwise. If it is not, disconnect power and re-check wiring to motor. (See “Installation” section.) To change rotation on three phase models, interchange any two incoming line (power) leads. Other models, consult driver information that came with driver.

NOTE: Never shut off discharge or restrict suction flow while the pump is operating. It may take up to 5 minutes for a SELF-PRIMING pump to prime if long horizontal/vertical lines are used. If pump has not picked up prime in 2 minutes, re-prime piping and casing after letting unit cool down for 5 minutes. Re-check all suction connections making sure pipe compound has sealed all connections. Initial priming may take 2 to 3 tries to prime successfully.

NOTE: Dual hertz motors (see motor nameplate) that can operate at 50Hz will impact the AMPs, RPMs, service factor, performance and self-priming capabilities.

⚠️ CAUTION

The proper Impeller (motor) rotation is CCW (counter clockwise) facing the front of the pump. Wrong rotation will give low performance, low head and could damage unit and/or injure personnel.

3. On initial start-up (after 15 minutes running time), check power consumption to be sure motor is not overloaded.
4. If motor is overloaded, install a valve on discharge to increase back pressure. Close the valve until pump motor is below full nameplate or within Service Factor (SF) amps.

MAINTENANCE

⚠️ WARNING

Make certain that the unit is disconnected from the power source before attempting to service or remove any components!

NOTE: Always flush pump thoroughly after use or if unit is not going to be used for any prolonged length of time to prevent crystallization and/or damage to seal and pump.

ROUTINE

1. Pump should be drained when subjected to freezing temperatures. A drain plug is provided on the pump casing.
2. Clean the suction line strainer at regular intervals.
3. Properly selected and installed electric motors are capable of operating for years with minimal maintenance. Periodically clean dirt accumulations from open-type motors, especially in and around vent openings, preferably by vacuuming (avoids imbedding dirt in windings).
4. Periodically check to see if electrical connections are tight.
5. Pump should be checked daily, weekly, monthly, etc. for proper operation. If anything has changed since unit was new, unit should be removed and repaired or replaced. Only qualified electricians or service personnel should attempt to repair this unit. Improper repair and/or assembly can cause an electrical shock hazard.
## TROUBLESHOOTING CHART

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause(s)</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor will not start or run</td>
<td>1 Improperly wired.</td>
<td>1 Check wiring diagram on motor.</td>
</tr>
<tr>
<td></td>
<td>2 Blown fuse or open circuit breaker.</td>
<td>2 Replace fuse or close circuit breaker after reason for overload has been determined and corrected.</td>
</tr>
<tr>
<td></td>
<td>3 Loose or broken wiring.</td>
<td>3 Tighten connections, replace broken wiring.</td>
</tr>
<tr>
<td></td>
<td>4 Stone or foreign object lodged in impeller.</td>
<td>4 Disassemble pump and remove foreign object.</td>
</tr>
<tr>
<td></td>
<td>5 Motor shorted out.</td>
<td>5 Replace.</td>
</tr>
<tr>
<td></td>
<td>6 Thermal overload has opened circuit.</td>
<td>6 Allow unit to cool. Restart after reason for overload has been determined.</td>
</tr>
<tr>
<td></td>
<td>7 Voltage too low at motor terminals due to line drop.</td>
<td>7 Consult local power company. Increase wire size. Check for poor connections.</td>
</tr>
<tr>
<td>Motor runs slowly; will not get up to speed</td>
<td>1 Motor wired improperly.</td>
<td>1 Check and recheck wiring diagram on motor. Make internal wiring changes in wiring compartment.</td>
</tr>
<tr>
<td></td>
<td>2 Capacitor burned out (single phase units only).</td>
<td>2 Replace capacitor.</td>
</tr>
<tr>
<td></td>
<td>3 Voltage too low at motor terminals.</td>
<td>3 Increase wire size. Check for poor connections. Check for voltage unbalance (3 phase).</td>
</tr>
<tr>
<td>Motor overheats while running under load</td>
<td>1 Dirt blocking ventilation openings.</td>
<td>1 Clean Motor.</td>
</tr>
<tr>
<td></td>
<td>2 Unbalanced supply voltage.</td>
<td>2 Check for faulty connections. Voltage on all three lines should be balanced within 1%. Excessive single phase loads.</td>
</tr>
<tr>
<td></td>
<td>3 Faulty connection.</td>
<td>3 Clean, tighten, or replace.</td>
</tr>
<tr>
<td></td>
<td>4 High or low voltage.</td>
<td>4 Check voltage at motor, should not be more than 10% above or below rated.</td>
</tr>
<tr>
<td>Pump will not prime</td>
<td>1 No priming water in casing.</td>
<td>1 Fill pump casing.</td>
</tr>
<tr>
<td></td>
<td>2 Mechanical seal is leaking.</td>
<td>2 Replace (See Maintenance).</td>
</tr>
<tr>
<td></td>
<td>3 Leak in suction line.</td>
<td>3 Use threaded sealant on piping, tighten, repair or replace.</td>
</tr>
<tr>
<td></td>
<td>4 Discharge line is closed and priming air has nowhere to go.</td>
<td>4 Open.</td>
</tr>
<tr>
<td></td>
<td>5 Suction line (or valve) is closed.</td>
<td>5 Open.</td>
</tr>
<tr>
<td></td>
<td>6 Pipe union was used on suction side instead of discharge.</td>
<td>6 Remove union from suction side. Replace with single section of pipe.</td>
</tr>
<tr>
<td></td>
<td>7 Pump is worn.</td>
<td>7 Replace worn parts.</td>
</tr>
</tbody>
</table>
## TROUBLESHOOTING CHART (continued)

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause(s)</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Little or no discharge</td>
<td>1 Casing not filled with water.</td>
<td>1 Fill pump casing with liquid.</td>
</tr>
<tr>
<td></td>
<td>2 Total head too high.</td>
<td>2 Shorten suction lift and/or discharge head.</td>
</tr>
<tr>
<td></td>
<td>3 Suction head too high.</td>
<td>3 Lower suction head, install foot valve and prime.</td>
</tr>
<tr>
<td></td>
<td>4 Impeller plugged.</td>
<td>4 Disassemble pump and clean impeller.</td>
</tr>
<tr>
<td></td>
<td>5 Rotation incorrect.</td>
<td>5 Correct (See wiring diagram on motor)</td>
</tr>
<tr>
<td></td>
<td>6 Hole or air leak in suction line.</td>
<td>6 Repair or replace suction line.</td>
</tr>
<tr>
<td></td>
<td>7 Foot valve was too small.</td>
<td>7 Match foot valve to piping or install one size larger foot valve.</td>
</tr>
<tr>
<td></td>
<td>8 Impeller damaged.</td>
<td>8 Replace.</td>
</tr>
<tr>
<td></td>
<td>9 Foot valve or suction line not submerged deep enough in water.</td>
<td>9 Submerge lower in water.</td>
</tr>
<tr>
<td></td>
<td>10 Suction piping too small.</td>
<td>10 Increase to pump inlet size or one size larger.</td>
</tr>
<tr>
<td></td>
<td>11 Discharge piping too small.</td>
<td>11 Match to discharge outlet size on pump.</td>
</tr>
<tr>
<td></td>
<td>12 Motor wired incorrectly.</td>
<td>12 Check wiring diagram.</td>
</tr>
<tr>
<td></td>
<td>13 Casing gasket leaking.</td>
<td>13 Replace.</td>
</tr>
<tr>
<td></td>
<td>14 Suction or discharge line valve closed.</td>
<td>14 Open.</td>
</tr>
<tr>
<td></td>
<td>15 Single phase, new installation. Motor wired for 230V, etc. but supply is 115V, etc.</td>
<td>15 Check voltage of incoming power supply. Rewire as necessary.</td>
</tr>
<tr>
<td></td>
<td>16 Mechanical seal is leaking.</td>
<td>16 Replace (See Maintenance).</td>
</tr>
<tr>
<td>Loss of suction</td>
<td>1 Air leak in suction line.</td>
<td>1 Use threaded sealant on piping, tighten, repair or replace.</td>
</tr>
<tr>
<td></td>
<td>2 Suction lift too high.</td>
<td>2 Lower suction lift, install foot valve and prime.</td>
</tr>
<tr>
<td></td>
<td>3 Clogged foot valve or strainer.</td>
<td>3 Clean.</td>
</tr>
<tr>
<td>Pump vibrates and/or makes excessive noise</td>
<td>1 Mounting plate or foundation not rigid enough.</td>
<td>1 Reinforce.</td>
</tr>
<tr>
<td></td>
<td>2 Foreign material in pump.</td>
<td>2 Disassemble pump and clean.</td>
</tr>
<tr>
<td></td>
<td>3 Impeller damaged.</td>
<td>3 Replace.</td>
</tr>
<tr>
<td></td>
<td>4 Worn motor bearings.</td>
<td>4 Replace.</td>
</tr>
<tr>
<td></td>
<td>5 Suction lift too high.</td>
<td>5 Decrease suction lift.</td>
</tr>
<tr>
<td></td>
<td>6 Cavitation present.</td>
<td>6 Check suction line for proper size and be sure valve is open. Remove excessive lops in suction line. Install gate valve on discharge side of pump and reduce flow as necessary to match suction conditions available.</td>
</tr>
<tr>
<td>Pump leaks at shaft</td>
<td>1 Damaged or worn mechanical seal.</td>
<td>1 Replace (See Maintenance).</td>
</tr>
<tr>
<td></td>
<td>2 Corrosion due to character of liquid pumped.</td>
<td>2 Discontinue pumping liquid and consult factory.</td>
</tr>
<tr>
<td></td>
<td>3 Abrasive material in liquid causing an accumulation around the rotating assembly which results in faces opening up and allowing grit between them.</td>
<td>3 Pump not designed for abrasives. Discontinue use</td>
</tr>
<tr>
<td></td>
<td>4 Liquid not compatible with seal.</td>
<td>4 Replace.</td>
</tr>
<tr>
<td></td>
<td>5 Temperature too high.</td>
<td>5 Lower liquid temperature below temperature rating of pump, See Specifications.</td>
</tr>
<tr>
<td>Pinholes in casting, drips around seal area</td>
<td>1 Cavitation caused by insufficient inlet pressure or suction head (NPSH).</td>
<td>1 Increase inlet pressure by adding a higher liquid level of fluid to source, increasing inlet pressure, or remove piping restrictions (valves, lops, etc.) in suction line.</td>
</tr>
</tbody>
</table>
General Information

SALES POLICY: AMT products are sold through our established Distributors. We do not sell direct to the consumer or organization not entitled to trade recognition. Therefore, possession of our catalogs and/or price list(s) does not infer an offer to sell.

MINIMUM ORDER: We appreciate your order, however, all orders are subject to a minimum $35.00 net invoice charge (excluding freight). This applies to all pump and parts purchase orders.

PRICES: Prices are subject to change without notice. All orders accepted are subject to prices in effect at time of shipment.

PAYMENT TERMS: Terms, upon establishment of credit, are Net 30 days. Past due accounts may be subject to service charge of 1.5% per month. Domestic or assignable letter of credit is required for all export trade.

PAST DUE ACCOUNTS: AMT reserves the right to withhold open account shipments on any past due account. Invoices are considered past due after thirty (30) days. In the interest of sound business, all orders are subject to approval of the Credit Department.

SHIPPING INSTRUCTIONS: All shipments will be made F.O.B. the factory. Where instructions for shipment do not appear on the order, the shipment will be made according to our best judgment. Full risk of loss (including transportation delays and losses) shall pass to the customer upon delivery of the products to the carrier at the F.O.B. point. When loss or delay occurs, primary responsibility for tracing rests with the customer. When there is LOSS or APPARENT VISIBLE DAMAGE to a shipment, when tendered for delivery, DO NOT give the carrier a clear receipt. Note such damage on the carrier’s delivery receipt and HAVE THE DRIVER SIGN THE RECEIPT.

PRODUCT REVISIONS: AMT reserves the right to discontinue, 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 a change or improvement.

12 Month Limited Warranty

EXTENT AND DURATION OF LIMITED WARRANTY
Coverage: AMT Pump Company (herein “AMT”) or IPT Pumps by Gorman-Rupp (herein “IPT”) or Gorman-Rupp Industries Division of the The Gorman-Rupp Company, Patterson, or the Gorman-Rupp Company (herein referred to as “G-R Unit”) each individually warrants that its products and parts shall be free from defects in material and workmanship for twelve (12) months from the date of purchase by the original end user when installation is made and maintenance is performed in accordance with G-R Unit’s recommendations. Wear and tear resulting from use and items normally consumed in use are not covered.

EXCEPTIONS

(A) This Limited Warranty shall not apply to mechanical seals in AMT or IPT pumps and the following products and parts: engines, motors, trade accessories and all other products, components, parts and materials not manufactured by the G-R Units. These items may, however, be covered by the warranties of their respective manufacturers.

(B) This warranty does not extend to or apply to any unit which has been repaired or altered at any place other than by a G-R Unit, or by persons not expressly approved by a G-R Unit to make repairs or alterations, nor to any unit the serial number, model number or identification of which has been removed, defaced or altered. (C) This warranty does not extend to any product manufactured by a G-R Unit, which has been subjected to misuse, neglect, accident, improper installation, or use in violation of instructions furnished by a G-R Unit. (D) Pump Kits: This warranty does not extend to any product sold by a G-R Unit unassembled as a Pump Kit. Pump Kits are warranted against defects in material and workmanship for 60 days from the date of shipment from a G-R Unit. Any Pump Kit parts deemed defective by a G-R Unit will be replaced free of charge within 60 days of shipment. Pump Kits are not returnable for credit.

LIMITATIONS

THE G-R UNITS’ SOLE AND EXCLUSIVE WARRANTY WITH RESPECT TO THEIR PRODUCTS AND PARTS IS THIS LIMITED WARRANTY. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS AND/OR IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE.

EXCLUSIVE REMEDY AND DAMAGES

The sole and exclusive remedy for breach of this Warranty by a G-R Unit and the entire extent of its liability for such breach or for damages arising from the use of the products and parts covered under this Limited Warranty, shall be as follows:

1. Repair or Replacement: If Inspection shows that any G-R Unit product or part covered under this Limited Warranty is defective in materials or workmanship, the G-R Unit shall repair or replace the defective or non-conforming product or part without charge, whichever the G-R Unit chooses. You must have properly maintained and used the product or part claimed to be defective in accordance with the maintenance schedule or manual, which comes with the product. No allowance will be made for labor, installation, removal, transportation or other charges incurred by you in connection with such repair or replacement.

2. To obtain the above remedy:

A. Immediately notify the G-R Unit upon discovery of the claimed defect in materials or workmanship and provide the serial number or date code of the product and/or part(s) or provide the G-R Unit with the invoice or bill of sale referencing the product by no later than the expiration date of the warranty period.

B. The G-R Unit will advise whether inspection will be necessary and how whether repair or replacement will be made. If inspection by the G-R Unit is necessary, the pump or defective part must be sent freight pre-paid to the G-R Unit. Return shipment will be F.O.B. the G-R Unit’s plant.

C. Return Goods Authorization Requirement: No product will be accepted for return or replacement without the prior written authorization of the G-R Unit. Upon such authorization, and in accordance with instructions from the G-R Unit, the product will be returned to the G-R Unit, shipping charges prepaid by the Buyer.

3. DAMAGES: The G-R Unit’s liability for damages for breach of this Limited Warranty shall not exceed the amount of the purchase price of the product or part(s) in respect to which Such damages are claimed. IN NO EVENT SHALL THE G-R UNITS BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES FOR BREACH OF THIS LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

AMT Pump Company, A Gorman-Rupp Company, 400 Spring Street, Royersford, PA 19468 USA