

LIMITED WARRANTY

Products manufactured by (GRUNDFOS) GRUNDFOS PUMPS CORPORATION are warranted to the original user only to be free of defects in material and workmanship for a period of 18 months from date of installation, but not more than 24 months from date of manufacture. GRUNDFOS' liability under this warranty shall be limited to repairing or replacing at GRUNDFOS' option, without charge, F.O.B. GRUNDFOS' factory or authorized service station, any product of GRUNDFOS' manufacture. GRUNDFOS will not be liable for any costs of removal, installation, transportation, or any other charges which may arise in connection with a warranty claim. Products which are sold but not manufactured by GRUNDFOS are subject to the warranty provided by the manufacturer of said products and not by GRUNDFOS' warranty. GRUNDFOS will not be liable for damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized alteration or repair, or if the product was not installed in accordance with GRUNDFOS' printed installation and operating instructions.

To obtain service under this warranty, the defective product must be returned to the distributor or dealer of GRUNDFOS' products from which it was purchased together with proof of purchase and installation date, failure date, and supporting installation data. Unless otherwise provided, the distributor or dealer will contact GRUNDFOS or an authorized service station for instructions. Any defective product to be returned to GRUNDFOS or a service station must be sent freight prepaid; documentation supporting the warranty claim and/or a Return Material Authorization must be included if so instructed.

GRUNDFOS WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSSES, OR EXPENSES ARISING FROM INSTALLATION, USE, OR ANY OTHER CAUSES. THERE ARE NO EXPRESS OR IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH EXTEND BEYOND THOSE WARRANTIES DESCRIBED OR REFERRED TO ABOVE.

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages and some jurisdictions do not allow limitations on how long implied warranties may last. Therefore, the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from jurisdiction to jurisdiction.

GRUNDFOS®



Leaders in Pump Technology

GRUNDFOS Pumps Corporation • 2555 Clovis Avenue • Clovis, CA 93612

Area Centers: Allentown, PA • Atlanta, GA • Chicago, IL
Clovis, CA • Dallas, TX • Seattle, WA

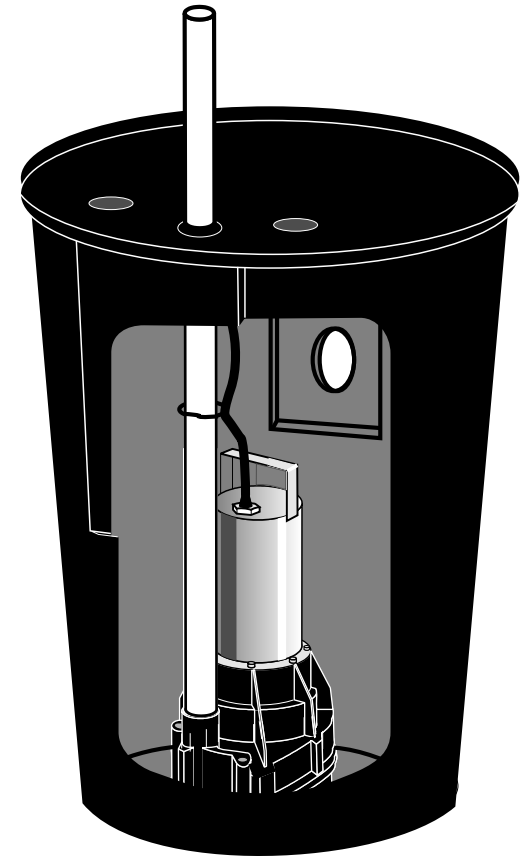
Phone: (800) 333-1366 • Fax: (800) 333-1363

Canada: Mississauga, Ontario • Mexico: Apodaca, N.L.

L-SE-TL-005	11/96
PRINTED IN U.S.A.	

Sewage Ejector Pump Package

Installation and Operating Instructions



Please leave these instructions with the pump for future reference.

GRUNDFOS®



Leaders in Pump Technology

SAFETY WARNING

Electrical Work

All electrical work should be performed by a qualified electrician in accordance with the latest edition of the National Electrical Code, local codes and regulations.

Shock Hazard

A faulty motor or wiring can cause electrical shock that could be fatal, whether touched directly or conducted through standing water. For this reason, proper grounding of the pump to the power supply's grounding terminal is required for safe installation and operation.

In all installations, the above-ground metal plumbing should be connected to the power supply ground as described in Article 250-80 of the National Electrical Code.

Pre-Installation Checklist

1. Check the Condition of the Pump

The shipping carton your pump came in is specially designed around your pump during production to prevent damage. As a precaution, it should remain in the carton until you are ready to install it. At that point, look at the pump and examine it for any damage that may have occurred during shipping. Examine any other parts of the shipment as well for any visible damage.

IMPORTANT

Remove all tape from discharge pipe, vent hole, and float switch.

The float switch is preset at the factory with a basic tether length of 5". Check to see that the float switch swings freely and does not hang up.

2. Verify Electrical Requirements

Verification of the electrical supply should be made to be certain the voltage, phase and frequency match that of the pump motor. The proper operating voltage and other electrical information can be found on the motor nameplate. These motors are designed to run on $\pm 10\%$ of the nameplate-rated voltage. For dual-voltage motors, the motor should be internally connected to operate on the voltage closest to the 10% rating, i.e., a 208 voltage motor wired per the 208 volt connection diagram. Wiring connection diagrams can be found on the plates attached to the motor. **If voltage variations are larger than $\pm 10\%$, do not operate the pump.**

Installation

Refer to Figure 1 below for typical installation. Sump bottom must be solid and basin must be level. If installed outdoors and subject to freezing, provision must be made to protect the pump.

Install a check valve, suitable for handling solids, on the discharge pipe to prevent backflow. Note the valve manufacturer's installation recommendations. Install an adequately sized gate valve on the discharge side of the check valve for plumbing maintenance.

Install a 2" or 3" vent pipe, depending on model, to vent gases and odors to the atmosphere and a 4" influent pipe. Lubricate the pipe with a liquid soap for installation in grommets.

Before placing backfill around basin, cycle system with water to assure proper operation.

Figure 1

