



# Installation Instructions & Pre-Startup Checklist

## **INSTALLATION INSTRUCTIONS**

**Storage:** Make sure that all components are kept as clean as possible. Do not remove the crating or plastic wrapping until the unit is ready for installation.

**Uncrating:** After removal of the unit from the crate, check to see that the equipment is in good order and that all components are received as called for on the packing slip. Any shortages or damage should be reported immediately.

**Location:** Locate the unit where it is easily accessible for inspection and servicing. Provide adequate room for pump withdrawal and also for access to the interior of the Control Panel.

**Foundation:** The foundation should be sufficiently substantial to absorb any vibration and to form a permanent rigid support for the pump system base plate.

**Leveling:** When the unit has been placed on its foundation, insert shims under the base plate until the suction and discharge headers are truly vertical. Check this by placing a torpedo level on the face of the suction and discharge flanges. When leveling is complete, the foundation bolts should be tightened evenly and firmly.

**Piping:** Both the suction and discharge pipes should be independently supported so that no strain is imposed on the packaged unit when the pipes are connected. Failure to support piping prior to its attachment to the system headers can cause damage to the system and void the warranty. All connecting pipe work should be accurately located. Do not attempt to force the suction and discharge pipes into position.

**Incoming Power Supply:** The power supply should be brought in through the side or top of the panel adjacent to the main terminals. The voltage is clearly shown on the submittal package and panel. Note that this is the only electrical connection required at the panel.



# Installation Instructions & Pre-Startup Checklist

## PRE-STARTUP CHECKLIST

The following tasks are the responsibility of the installer, and must be completed prior to the arrival of a startup technician. Failure to complete all these tasks can result in a delay in startup and back charges to the installer.

- System is in place, leveled and firmly anchored to the floor.
- Independently supported suction and discharge building piping has been attached to the system and is leak-free.
- A water source is available at the suction of the skid, ready for wet testing. It is preferred that the building piping be filled already (but not required).
- A means of using water downstream of the system (toilet flush, sink, hose bib to drain, e.g.) to allow the startup technician to actually pump water and test all functionality.
- Primary power to the system has been installed and wired into the control panel, and landed on the power terminal blocks.
- A customer/installer representative familiar with the building/plumbing system has been assigned to meet the service technician at the site to support startup (security access, electrical power source, to run water, check for leaks in building, assemble personnel for training, etc.).
- Personnel to be trained on use/maintenance are identified and will be available when technician is ready to perform training. (Training takes about 30 minutes).

### NOTE:

**DO NOT POWER UP THE CONTROL PANEL (TURN ON THE MAIN DISCONNECT IN THE PANEL) UNTIL A CERTIFIED STARTUP TECHNICIAN HAS CHECKED AND PERFORMED STARTUP ON THE SYSTEM AT THE SITE.**