



Installation and Operation Manual

Circulating Pump

Sportan



Safety Instructions

Read this manual carefully to learn how to safely install and operate your pump. Throughout this manual there are a number of SAFETY HAZARDS that must be read and adhered to in order to prevent possible personal injury and/or damage to the equipment.

Three keywords, “DANGER”, “WARNING”, and “CAUTION”, are used to indicate the potential severity of the hazard, and are preceded by a SAFETY ALERT SYMBOL. Failure to follow the safety-related instructions may result in a safety hazard.

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

WARNING Indicates a potentially hazardous situation which, if not avoided,

Could result in serious injury or death.

CAUTION Indicates a potentially hazardous situation which, if not avoided,

May result in minor or moderate injury.

THOROUGHLY REVIEW ALL INSTRUCTIONS AND WARNINGS PRIOR TO PERFORMING ANY WORK ON THIS PUMP.

Introduction:

Because panel installations are seldom identical, this manual cannot possibly provide detailed instructions and precautions for each specific application. Therefore, it is the responsibility and the duty of all personnel involved in the installation, operation and maintenance of the equipment to ensure that applications not addressed in this manual are performed only after establishing that neither operator safety nor panel integrity are compromised by the installation.

Pre-Installation Check:

Open all cartons and inspect for shipping damage. Report any damage to your supplier or shipping carrier immediately. Always verify that the panel nameplate Voltage, Phase, and HP ratings as well as Amps rating on panel match your pumps and power supply. Warranty does not cover damage caused by connecting panels to an incorrect power source (i.e., voltage and phase).

Installation:

Electrical connections are to be made by a qualified electrician in accordance with the National Electrical Code (NEC) or the Canadian Electrical Code, as well as all national, state and local codes. Code questions should be directed to your local electrical inspector. Failure to follow electrical codes and OSHA safety standards may result in personal injury or equipment damage. Failure to follow manufacturer's installation instructions may result in electrical shock, fire hazard, personal injury or death, damaged equipment, provide unsatisfactory performance, and may void the manufacturer's warranty.

Motor must have a properly sized starter with a properly sized heater to provide overload and under voltage protection unless motor meets following two conditions: single phase and motor horsepower is 1HP or less. Motors that satisfy these two conditions have built-in thermal overload protection.

Operating personnel should be trained in the operation of the pump and any associated system.



SYSTEM INSTALLATION

Power Wiring

Mount the control panel vertically on a wall or other solid structure. Connect 120 VAC supply to "L1" and "N".

Aquastat Input Wiring

Wire a Aquastat switch input as follows:

- Terminals 1 & 2 – Aquastat switch

BAS Pump Disable Wiring

Wire the pump disable from BAS as follows:

- Terminal 3 & 4 – 24vac

SYSTEM SEQUENCE OF OPERATION

General

The controller will operate one circulating pump to maintain a designated loop temperature. The controller provides pump Start through temperature switch setpoint. Pump will be disabled from a signal via BAS.

Pump Run Operation

The pump operates when the system loop temperature falls below the **PUMP START** setpoint. The pump stops when the BAS sends signal to the controller.

Pump H-O-A Switch

AUTO	The pump is operated by the temperature switch
OFF	The pump will not operate
HAND	The pump operated continuously



Field Penetration

*** URGENT ***

ANY FIELD PENETRATIONS IN LOCATIONS
OTHER THEN FACTORY AUTHORIZED
AREAS WILL **VOID MANUFACTURERS**
WARRANTY OF ALL INTERNAL
COMPONENTS.



