Manual Switch-Over Panel
Operating Manual
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FOR YOUR SAFETY

1. Signs and Symbols:
   Throughout the operating manual, the information and notices below are identified by graphical symbols.

   DANGER!
   Safety note indicating imminent danger. Failure to heed the warning may result in serious bodily injury and even death.

   CAUTION!
   Safety note indicating the presence of potential hazard. Failure to heed the safety notice may result in minor bodily injury or damage to the equipment.

   INFORMATION!
   This symbol identifies important information or a useful tip concerning the application or service of the unit.

2. Safety Notes:
   For the installation and operation of the water bypass panel, the following regulations and safety notes have to be observed.

   Any work on the Manual Switch-Over Panel may only be performed by qualified personnel. All relevant accident prevention regulations have to be observed.

   Any national regulations applicable in the country of installation must be observed.
INSTALLATION

1. The Manual Switch-Over Panel consists of valves to manually switch cooling fluid source from the Chiller System to an Alternate Cooling Fluid Supply. The Alternate Cooling Fluid Supply is typically city water but may also be derived from the building central chilled water supply.

   Caution: Make sure all piping is clean before installation.

2. The Manual Switch-Over Panel is designed to be installed indoors only. The Manual Switch-Over Panel must be installed in the piping connecting the Chiller System, Alternate Cooling Fluid Supply and the main process. The connections on the Manual Switch-Over Panel are shown in Figure 1.

3. Install the proper size piping between the Manual Switch-Over Panel and the Chiller System, Alternate Cooling Fluid Supply and the main process. Install a 50 micron strainer or filter between the Alternate Cooling Fluid Supply and the Manual Switch-Over Panel. (Refer to Figure 2 for system diagram)

4. Fluid supply pressure gages, temperature gages and a flow rate meter are included in the panel. Refer to the requirements of the process to determine the minimum required flow rate. Adjust the flow switch setting based on the proper flow rate.
Figure 3
MAINTENANCE

Clean the fluid strainer and/or filter one hour after initial use then annually or as required.
DRAWINGS
NOTE:
1) PLUG TO BE INSTALLED IN BOTTOM PORTS.
2) POSITION VALVE HANDLES SO THAT THE HANDLES ARE ACCESSIBLE FROM THE FRONT AND ARE FREE TO MOVE.
3) ALL PIPING AND FITTINGS INCLUDING HOSE IS TO BE INSULATED WITH FOAM TAPE ONLY.
4) USE 3/16"-FLANGE WHERE PRACTICAL, USE SOFT SOLDER ONLY ON THE UNION.
5) AFTER TESTING REMOVE FOR SHIPMENT.
TAGGING INSTRUCTIONS

- A) MANUALS MUST SHIP WITH MACHINE OR MACHINE DOES NOT SHIP.

- B) PLACE ADDITIONAL TAGS INSIDE THE MACHINE.

- C) PLACE ADDITIONAL TAGS INSIDE THE ELECTRICAL ENCLOSURE MOUNTED ON TAG RAILS WHICH ARE RIVETED TO THE PANEL. ADD NOTE TO ELECTRICAL PRINTS.

- D) TAGS OUTSIDE AND OUTSIDE THE ELECTRICAL ENCLOSURE NEED TO BE RIVETED.

- E) TAGS INSIDE THE MACHINE NEED TO BE RIVETED.

- F) SEQUENCE OF OPERATION TAG REQUIRED.

- G) INLET AND OUTLET TAGS ONLY TO BE RIVETED.

- H) SPECIAL LANGUAGE TAGS ARE REQUIRED.

  - FRENCH
  - GERMAN
  - SPANISH
  - OTHER (SEE SPECIAL INSTRUCTIONS)

SPECIAL INSTRUCTIONS: