

**STERLCO COOLING AND CIRCULATING UNIT  
SERVICE AND INSTRUCTION MANUAL  
MODEL 7200-A**

**STERLING, INC.  
5200 W. CLINTON AVE  
MILWAUKEE, WI 53223**

## Please note that our address and phone information has changed. Please reference this page for updated contact information.



These manuals are obsolete and are provided only for their technical information, data and capacities. Portions of these manuals detailing procedures or precautions in the operation, inspection, maintenance and repair of the products may be inadequate, inaccurate, and/or incomplete and shouldn't be relied upon. Please contact the ACS Group for more current information about these manuals and their warnings and precautions.

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The ACS Customer Service Group will provide your company with genuine OEM quality parts manufactured to engineering design specifications, which will maximize your equipment's performance and efficiency. To assist in expediting your phone or fax order, please have the model and serial number of your unit when you contact us. A customer replacement parts list is included in this manual for your convenience. ACS welcomes inquiries on all your parts needs and is dedicated to providing excellent customer service.

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## 7200-A

### INSTALLATION

#### ELECTRICAL CONNECTION

The nameplate of the unit will indicate the electrical rating and voltage requirement. Before making the electrical connection be sure that the pump switch is off. To prevent accidents the unit should be positively grounded before the power is turned on.

For those units wired for single phase operation, the pump rotation will always be correct. All 3-phase units should have motor rotation checked when the unit is installed.

#### CIRCULATING CONNECTIONS

The circulating connections, marked DELIVERY and RETURN have 3/4" female unions. If circulating lines are reasonably short, 3/4" pipe or hose will give good circulation. If they must be more than ten or fifteen feet long, 1" pipe or hose should be used. 1/2" piping or hoses may sometimes be used if limited circulation and slower response will not be harmful.

If two or more branches are to be fed by the unit, run a single large line from the unit to a point near the mold or other device being controlled, so that the smaller branches can be as short as possible.

Large hoses or piping and large passages in the mold or other device being controlled will provide faster water circulation and consequently more accurate and sensitive control and more effective and even heating or cooling. Avoid couplings and fittings having small openings which may restrict flow, especially many types of quick-acting compressed air fittings which not only have extremely small openings but also leak when subjected to water pressure. THIS IS VERY IMPORTANT! Small hoses, small passages in the equipment being controlled, small couplings, or anything else which slows up the circulation of the water will make the unit respond too slowly to adjustments or changes in conditions. As a result, it will take too long, when starting up, to set the controls for the desired temperature. In extreme cases poor circulation may make the unit seem to behave erratically or fail to hold temperatures steady.

Where hoses are used in circulating lines, there are many types which are large enough, flexible enough, and resistant to hot water. One satisfactory brand is Goodyear "Ortac" one-braid hose.

#### **WATER SUPPLY CONNECTION**

A source of cold water under pressure should be provided by connection at the connection marked **WATER SUPPLY**

Water supply pressures up to about 100 pounds per square inch will not harm this unit. But if you wish to operate with a lower water pressure to avoid hose leaks, or to protect the unit against extreme pressure fluctuations, use a low-priced pressure regulator such as the Bell & Gossett No. B3.

#### **DRAIN CONNECTION**

A hose or pipe should be run from the connection marked **DRAIN** to a location where waste warm water can be disposed of. Some users prefer to have the end of this line spill into a drain at a point where the operator of the unit can observe when and how the cooling control valve is operating.

The drain connection can be made to a closed return line, if desired, as long as the back-pressure is not great enough to prevent the warm water from flowing.

Delivery and return hoses should be of sufficient size to allow for good water flow with a low total resistance to flow.

## OPERATION

After all hose piping and electrical connections are made, the following steps should be followed to put the unit into operation.

- 1.) Open water supply valve to allow water to enter the system. This valve should be kept open during operation.
- 2.) Open cooling control valve slowly until a steady flow of water flows to the drain. The unit and your system are now filled with water and purged of entrapped air.
- 3.) Slowly close cooling control until drain is nearly stopped.
- 4.) Start the pump. If your unit is wired for 3-phase operation, the pump rotation should be checked. Single phase units need not be checked since they will always turn in proper direction.
- 5.) The unit will now maintain continuous circulation of water and will cool as required to keep the temperature from rising above the setting of the cooling control.
- 6.) Your unit will now be in operation, and the water temperature can be lowered by turning the cooling control knob to the left or raised by turning the cooling control to the right. *The cooling control knob must always be turned quite slowly, so that the cold water entering the circuit can be distributed gradually through the entire circuit. If the cooling control knob setting is changed too fast, the water temperature will sometimes "override" slightly beyond the desired point. The cooling control valve stem is calibrated so that any setting can be duplicated conveniently.*

**PARTS LIST A & C  
STERLCO PUMP 1/2 & 3/4 HP**

<b>ITEM</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
C	542-10404-00	WATER SLINGER
E	615-13341-01	BRACKET
H	081-00034-00	ROTARY SEAL ASSEMBLY
I	695-18409-00	IMPELLER, STANDARD BRASS 1/2 HP
I	695-18409-03	IMPELLER, STANDARD BRASS 3/4 HP
J	001-06850-00	IMPELLER SCREW
K	545-00001-00	HOUSING GASKET
LA	615-14921-00	VOLUTE
LB	614-14951-00	HOUSING
B	720-09170-00	MOTOR 1/2 HP 3/60/230-460V TEFC
B	720-09167-00	MOTOR 1/2 HP 3/60/230-460V OPEN
B	720-09168-00	MOTOR 3/4 HP 3/60/230-460V OPEN
B	720-09190-00	MOTOR 3/4 HP 3/60/230-460V TEFC

**MOTOR, IMPELLER SEAL ASSEMBLY**

695-00007-03	1/2 HP 3/60/230V-460V OPEN
695-00007-24	1/2 HP 3/60/230V-460V TEFC
695-00030-03	3/4 HP 3/60/230V-460V OPEN
695-00030-10	3/4 HP 3/60/230V-460V TEFC

**STERLING, INC. PART NUMBERS APPLY TO NON-SPECIAL MOTORS.  
CONSULT PARTS LIST IN YOUR UNIT MANUAL FOR SPECIFIC MOTOR  
REQUIREMENTS.**

MODEL 7200-A  
PARTS LIST

PART NO.	DESCRIPTION
724-00262-00	Controller
720-09030-00	Motor 1/2 HP 3/60/230-460V
605-00007-06	Pump & Motor Complete 1/2HP 3/60/230-460V
715-10021-00	Pilot Light
721-00107-00	Push Button, Vent
726-00031-02	Starter, Motor
603-05020-25	Strainer, "Y" w/screen
037-00004-00	Thermometer
704-00025-00	Transformer 230-460V
732-00012-00	Solenoid Valve w/coil 1/2"

## WARRANTY

**STERLING, INC., warrants all temperature control equipment manufactured by it to be free from defects in workmanship and material when used under conditions recommended by STERLING, INC.**

**The company's obligation under this warranty is limited to make good, at its factory, any parts which shall, within one (1) year after delivery of equipment of its manufacture to the original purchaser, be returned to STERLING, INC., with transportation prepaid, and which its examination shall disclose to its satisfaction to have been defective. The company neither assumes nor authorizes any other person or persons to assume for it any liability in connection with the sale of its equipment, except under the conditions of this warranty.**

**This warranty does not cover any labor charges for replacement of parts, adjustments, repair, nor any other work done. This warranty shall not apply to any apparatus which, in its opinion, has been subjected to misuse, negligence, or pressures in excess of limits recommended by the company, or which shall have been repaired or altered outside the company's factory.**

**Replacement of defective material will be F.O.B. our factory.**

**Replacement of component parts not of its manufacture will be limited to the warranty of the manufacturer of such parts.**



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