STERL-TRONIC MODEL 10425

TEMPERATURE CONTROL UNIT

SERVICE AND INSTRUCTION MANUAL

MODEL 10425 CONSISTS OF TWO ZONE TEMPERATURE CONTROL UNIT

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STERLING, INC. 5200 West Clinton Avenue P. O. Box 23435 Milwaukee, WI 53223-0435

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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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ELEMENTARY WIRING DIAGRAM - D682-09870

FLOW SCHEMATIC, PANEL LAYOUT, BILL OF MATERIAL - D682-30053

OPERATION

MFG. BULLETINS

PARTS LIST

WARRANTY

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MODEL NO.	SUFFIX LETTER	HORSEPOWER PUMP
10425	В	1/2 H.P.
	С	3/4 H.P.
	D	1 H.P.
	E	1-1/2 H.P.
	F	2 H.P.
	G	3 H.P.

MODEL 10425

DESCRIPTION

This unit is a two zone, high capacity, water-circulating temperature control system. The unit is a completely portable design with full sheet metal cabinet, with service doors, large casters and power cable with plug.

HEATING - Each zone is provided by a 6000 watt electric immersion heater, 3 phase low-watt density, of the flanged type. The heater is energized through a 3 pole contactor, upon demand by the temperature controller.

PUMPING - For each zone is provided by a straight centrifugal pump, bronzefitted, 3450 RPM.

<u>COOLING</u> - Is accomplished by the direct injection method which blends cooling water directly into the circulating system under carefully controlled thermostatic conditions. This method of cooling provides for a very great cooling capacity and allows the user to make very efficient use of his cooling water. Because the total amount of cooling water entering the system is directed through the work area by employment of a check valve.

THERMOSTATIC CONTROL of the system is maintained by a controller with heating and cooling output. The single-set controller energizes either the heater or the cooling, and indicates system temperature.

WATER SUPPLY PROTECTION has been provided in the form of a pressure switch. The pressure switch will keep the unit from operating until it has been sufficiently pressurized by the user's water supply. This will help to protect the heater and the pump seal from damage through operation without water. This switch is adjustable.

NOTE: IF THIS UNIT IS TO BE OPERATED TO 300° F., THE PRESSURE SWITCH SHOULD BE ADJUSTED TO A MINIMUM OF 65 PSI. This will assure the unit of having sufficient pressure at that temperature to eliminate possibilities of internal boiling.

MODEL 10425

INSTALLATION

The unit should be placed into position at the press. The user's mainfolds for raw water and drain should be brought to the back of the unit.

DELIVERY AND RETURN connections are located at the rear of the unit. If the water must travel some considerable distance to the work area, the piping should be kept the same size as that of the connections in order to minimize losses in flow resulting from fluid resistance.

WATER SUPPLY AND DRAIN are located at the rear of the unit. If 300° F. water temperatures are to be maintained, a minimum of 65 psig pressure must be maintained on the water supply line to each zone, from the user's water supply. If the water temperatures will not exceed 250° F. then the user need only provide a 25 psig minimum water supply pressure. The importance of these pressure/temperature relationships cannot be OVERLY STRESSED and the user must supply a sufficient water supply pressure.

Back pressure from the drain, if any, should not approach or exceed the pressure of the water supply, since in large measure the cooling capacity of the unit is directly related to the difference in pressure between the water supply and drain.

ELECTRIC POWER is brought to the unit through the power cable which is supplied with it. This cable is fitted with a Russell & Stoll plug for quick attachment to a corresponding outlet at the press. Each zone will use approximately 20 amps when running full-load on 3/60/460 power. A ground line is brought out from each zone through the cable and power plug and the user should exercise care to insure that a safe and secure ground connection is made.

THE UNIT should be rolled into position and service connections installed. Water supply and drain connections are attached and the delivery and return connections should be made. With the disconnect switch "OFF", the user should attach the power-cable to the power supply connection at the press.

MODEL 10425

OPERATION

After all the water supply, drain, electrical, and delivery and return connections have been made, the following steps should be taken to place the unit into service.

- 1.) Turn on the electrical power at the disconnect switch of the unit.
- 2.) Turn on the water supply to provide water for each zone. This should remain open and under sufficient pressure (see installation instructions) at all times. The drain line should also be open and should remain so.
- 3.) Turn the "VENT HEAT" selector switch to "VENT" position. Vent each zone for at least 45 seconds in order that all entrapped air be expelled to the drain and a steady flow of water to the drain established. This should be done one zone at a time, NOT ALL AT ONCE.
- 4.) After air purge, the start button should be pushed. If the water supply connections to the press and mold allow sufficient pressure, the unit will continue to run when the start button is released. The green pilot light will indicate whether or not the pump is running. MOTOR ROTATION SHOULD BE CHECKED IMMEDIATELY and not continue to run when the start button is released, the user should check to be sure that the water supply is turned on.
- 5.) Set the thermostat for the desired operating temperature. The unit will operate automatically and continuously from this point.

PARTS LIST October 28, 1988 10425-DX 01-02

MODEL: 10425

PART NO.

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DESCRIPTION

729-00072 724-00270 728-00014 728-00013 725-00553 725-00557 725-00593 725-00546 725-00534 722-00041-02 715-00006-02 075-00355 721-00001-02 721-00003-02 714-00104 726-00105 733-00014 717-00032 704-00102 732-00013 732-00021 724-00099 733-00020 037-00021 701-00003

Contactor Controller (B.C. 585-C) Disc. Switch Operating Mech. Fuse, Motor #FRS 5 amp @ 600V Fuse, Heater #FRS 20 amp @ 600V Fuse, #FNS 0.6 amp @ 250V Fuse, #FRS 25 amp @ 600V Fuse, #FRN 2.5 amp @ 250V Immersion Heater 6 KW @ 460V Pilot Light Pump & Motor Complete 1 HP (Scot) Push Button, Start Push Button, Stop Relay Starter, Motor Switch, Pressure(1 PS) Switch, Selector Transformer Valve, Solenoid w/coil Valve, Solenoid w/coil Safety Thermostat Switch, Pressure(2 PS) Gauge, Pressure Thermocouple

NOTE: Please give Model & Serial No's. when ordering parts. Part No's. are isted as a guide, but many units have special parts or features not covered _y this list.

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