Grundfos Pumps Corp.



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GRUNDFOS X

L-UP-TL-092 Rev.10/05 PRINTED IN USA

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Grundfos Canada, Inc.

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LIMITED WARRANTY Products manufactured by GRUNDFOS PUMPS CORPORATION (GRUNDFOS) are warranted to the original user only to be free of defects in material and workmanship for a period of 24

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the circulator. May be mounted on either the inlet or outlet piping of (i.e., 3/4" I.D. copper tubing or 1/2" steel pipe) (3/4") Clip-on type for 7/8" O.D. system piping size (i.e., 1/2" I.D. copper tubing or 3/8" steel pipe) Since the set of the :6uitnoM Contact Position: Normally closed

Installing the Timer Control :5

to either side of the motor housing. horizontal position. The pump terminal box MUST be located on top or All Series UP circulators MUST be installed with the motor shaft in the XOB JANIMAET DNA TEAHS ROTOM GMUG FO NOITISOG





To change the terminal box position: CAUTION: Do not locate the terminal box below the motor housing.

- Remove the (4) allen screws while supporting the motor.
- Carefully separate the motor from the pump chamber and rotate it to the .2
- Replace the allen screws and tighten diagonally and evenly (7 ft-lb torque). .с desired terminal box position.
- middle of the name plate, insert a small flat blade screwdriver into the Check that the motor shaft turns freely. Remove the large screw in the ·4
- If the shaft does not turn freely, repeat the disassembly/reassembly .6 (Note:Not applicable to UP15-42F & UPS15-58FC models.) slot at the end of the shaft, and turn gently.

process.

side of the circulator before removing the motor housing. and either drain the system of liquid or close the isolation valves on either NOTE: If the pump is installed in a system, disconnect the power supply





New Style Terminal Box Single Speed UP-15 Only with Date Code 0528 or higher.

Maintenance-free Timer and Thermostatic Control Accessories

GRUNDFOS INSTRUCTIONS Installation and Operation

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codes of 0528 and higher. single speed UP 10-15, 1-phase, 115 volt, 60 hertz pumps with date hot water service systems. Applicable Series UP models include all for use with specified Grundfos Series UP circulators installed in indoor Grundfos timer and thermostatic control accessories are designed only

use periods of the day. times, allowing the user to select operation of the circulator during high The timer control is designed to turn the circulator on and off at preset

below approximately 110°F (as in the case of periods with high demand). case of periods with no demand) and back on when the temperature falls temperature in the hot water line exceeds approximately 130°F (as the The thermostatic control automatically turns the circulator off when the

control switch is open (off), the circulator will not operate. thermostat are met. That is, if either the timer control or the thermostatic by the user AND ONLY when the temperature conditions of the series, the circulator operates ONLY at the preset clock times specified When the timer and thermostatic controls are installed together, in

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Protection: Clear plastic cover for dust and moisture protection of the clock face Switch Modes: "Timer", "ON" Override, "OFF" Override Shortest Switching Interval:15 minute increment Ambient Temperature:-4°F to 175°F Contact Rating:16 amps Supply Voltage:115-120 VAC, 60 hertz TIMER CONTROL

THERMOSTATIC CONTROL

Switch Modes: Enclosure:Environmentally sealed Type:Surface sensing, snap acting bimetallic disc Contact Rating (resistive):5.8 amps Supply Voltage:115-120 VAC, 60 hertz

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NO səhətiws qmuq (D°S \pm 04) T°B \pm 201 115 ± 5°F (46 ± 2°C) pump switches OFF

INSTALLATION PROCEDURE

The timer control accessory is electrically connected and mounted to the circulator terminal box. Install as follows:

- 1. Remove the retaining screws in the existing terminal box cover and remove the cover. The timer control unit replaces this cover.
- 2. See "5. Electrical Hookup", for specific wiring instructions for hookup as an individual component or in series with the thermostatic control.
- 3. After wiring is completed and checked, install the timer control unit onto the terminal box bracket and reinsert the terminal box screws. Be careful not to bind or leave exposed any terminal box wires.

4. Installing the Thermostatic Control INSTALLATION PROCEDURE

 The thermostatic control is a surface temperature sensing device that must be in contact with the system piping to operate properly. Separate models include clip-on mounts for 3/4" (7/8" O.D.) and 1/2" (5/8" O.D.) copper tubing. These models are also suitablefor use with 12" and 3/8" schedule 40 steel pipe, respectively.



- See "5 Electrical Hook-up", for specific wiring instructions for hook-up as an individual component or in series with the timer control.
- 3. Use a common strain relief for the power and aquastat cords.

5. Electrical Hook-up

All electrical work should be performed by a qualified electrician in accordance with the latest edition of the National ElectricCode and local codes and regulations.

Verify the electrical supply to be certain the voltage, phase and frequency match that of the circulator and accessory components.



WARNING: Terminal Block Connections 1-8; Factory connections only, NO field wiring required





6. Setting and Operating the Timer Control and Starting the Pump



- NOTE: Before the circulator is started, the system must be filled with liquid and vented.
 Set the timer switch to the actual time by turning the programming ring in the direction of the arrow until the timing arrow points to the actual time on the ring.
- 2. Switch on the power supply to the circulator and set the manual switch to the "ON" position. The circulator will now start.
- Set the required "ON"/"OFF" times on the programming ring by pushing the programming tabs either away from or toward the center of the ring. Tabs pushed away from the center indicate circulator switched "ON" while tabs pushed toward the center indicate circulator switched "OFF".



- Set the manual switch to the "TIMER" position. The circulator will now start/stop according to the settings of the programming tabs.
- 5. For continuous operation, set the manual switch to the "ON" position. To switch the circulator off, set the manual switch to the "OFF" position. The "ON"/"OFF" modes may be used without affecting the function of either the programming ring or the timer switch.
- 6. In case of power outage the timer will not keep time. After power has been restored, the correct time of day must be reset by rotating the programming ring in the direction of the arrow until the timing arrow points to the actual time on the ring.