3. Installing the timer control

The circulator is designed to turn the circulator on and off at preset clock times specified by the user and/or when the temperature conditions of the thermostat are met. The timer and thermostatic controls are activated by the ambient temperature of the water, which is sensed by the thermostat.

To change the terminal box position:
1. Remove the (4) allen screws while supporting the motor.
2. Carefully separate the motor from the pump chamber and rotate it to the desired terminal box position.
3. Replace the allen screws and tighten diagonally and evenly (7 ft-lb torque).
4. Check that the motor shaft turns freely. Remove the large screw in the middle of the name plate, insert a small flat blade screwdriver into the slot at the end of the shaft, and turn gently.

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

LIMITED WARRANTY

Products manufactured by GRUNDFOS PUMPS CORPORATION (GRUNDFOS) are warranted to the original owner only to be free of defects in material and workmanship for a period of 24 months from date of installation, but not more than 30 months from date of manufacture. GRUNDFOS' liability under this warranty shall be limited to repairing or replacing the product or to refunding the purchase price at GRUNDFOS' option, without charge. F.O.B. GRUNDFOS' factory or authorized service station, any product of GRUNDFOS manufacture. GRUNDFOS will not be liable for any costs of removal, installation, transportation, or any other charges which may arise in connection with a warranty claim.

To obtain service under this warranty, the defective product must be returned to the distributor or dealer of GRUNDFOS products from which it was purchased together with proof of purchase and installation date, failure date, and supporting installation data. Unless otherwise provided, documentation supporting the warranty claim and/or a Return Authorization number is required.

Obtained service under this warranty, this disclaimer of warranties and/or limitations shall not affect any statutory rights of the buyer granted by law.

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Telephone: 52-81-8144-4010
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New Style Terminal Box
Single Speed UP-15 Only
with Date Code 0528 or higher.

Maintenance-free Timer and Thermostatic Control Accessories

INSTRUCTIONS
Installation and Operation
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 hook-up 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

   1. 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 suitable for use with 12” and 3/8” schedule 40 steel pipe, respectively.

   2. 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 Electric Code 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

   Programming Ring
   Timing Arrow
   Manual Switch
   Programming Tabs

   NOTE: Before the circulator is started, the system must be filled with liquid and vented.

   1. 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.

   3. 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”.

   4. 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.