

— **timfog** —

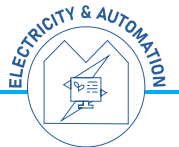
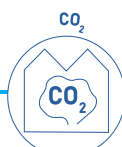
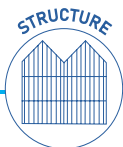


Application Guide Basic

Published November 2016

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Misting Control System



There are 8 buttons, 3 LEDs, and an LCD screen on the panel.

BUTTONS

Auto: Ensures the pump operates in automatic mode. It works according to the humidifier and time. During operation, it monitors current, voltage, low pressure, high pressure (checks for leaks in the pressure line), and NTC (pump temperature).

Stop (Reset): Stops the pump operation. When pressed within the menu, it exits to the previous menu without saving changes. In situations requiring a reset, pressing and holding the Stop button performs the reset.

Manual: Ensures the pump operates in manual mode. During operation, it monitors current, voltage, low pressure, high pressure (checks for leaks in the pressure line), and NTC (pump temperature).

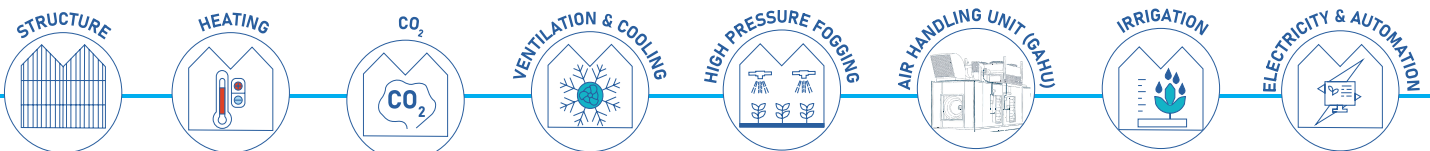
P: Press this button to program the panel according to the pump being used and to enter the programming menu. While in the menu, pressing this button saves the changes made. Exit the menu by pressing the Stop button.

Right: After entering the menu, pressing this button allows you to navigate within the menu. Outside the menu, it displays the manufacturer information on the screen.

Left: After entering the menu, pressing this button allows you to navigate within the menu. Outside the menu, it displays the software version of the electronic panel.

Up: After entering the menu, pressing this button increases values or changes statuses. Outside the menu, it shows the current voltage and motor current.

Down: After entering the menu, pressing this button decreases values or changes statuses. It shows the pump's operating time. (This value is reset after maintenance reset.)





LEDS

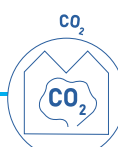
Green LED: Indicates that the pump is operating.

Yellow LED: Indicates that the pump is about to operate. If the yellow LED lights up while in automatic mode, the pump has stopped for some reason (time or humidity) and will restart automatically without any intervention.

Red LED: Indicates that the pump has stopped. If the red LED lights up while the pump is running, the pump has stopped due to a certain reason (continuous overvoltage, continuous undervoltage, continuous high current, low pressure, high pressure, etc.) and may require your intervention.

LCD SCREEN

Provides status information in text format (voltages, motor current, reason for motor stoppage, etc.)



CONNECTION AND OPERATION OF THE PANEL

The panel is connected as shown in the wiring diagram on the panel cover. If there is a phase error, a warning appears on the LCD screen and the red LED lights up. If the panel is connected correctly, "Timfog Misting System" will appear on the LCD screen.

OPERATION PRINCIPLE OF THE PANEL

The electronic pump panel operates as follows to fully protect the pump motor electrically.

- 1) When the panel is first turned on, it checks for phase loss and phase sequence to prevent the motor from running in reverse.
- 2) There is an adjustable START-STOP DURATION to prevent your motor from rapid start-stop cycles.
- 3) When the pump is operating in automatic mode:
 - a) Overcurrent
 - b) High Voltage
 - c) Low Voltage
 - d) Temperature control in NTC-equipped pump
 - e) Low Pressure Control

continuously monitors these controls.

- a) **Overcurrent:** If the motor exceeds the "high current value" for the duration of the "current fault time," the motor stops and the yellow LED lights up. It waits for the "start-stop duration" and then restarts. If an overcurrent fault occurs 3 times within 10 minutes, the panel exits automatic mode and the red LED lights up. The screen displays the overcurrent and current value. In this case, the motor will not operate without intervention on the panel.
- b) **High Voltage:** If the voltage exceeds the "high voltage value" for the duration of the "voltage fault time," the motor stops and the yellow LED lights up. It waits for the "start-stop duration," and if the voltage returns to the normal value, it restarts. If the voltage does not return to normal, the pump exits automatic mode, the motor will not run, and the red LED lights up. The screen displays a high voltage warning and the voltage values. The motor will not operate without intervention on the panel. (If the voltage rises above 280 volts, the panel immediately stops the motor.)
- c) **Low Voltage:** If the voltage drops below the "low voltage value" for the duration of the "voltage fault time," the motor stops and the yellow LED lights up. It waits for the "start-stop duration," and if the voltage returns to the normal value, it restarts. If the voltage does not return to normal, the pump exits automatic mode, the motor will not run, and the red LED lights up. The screen displays a low voltage warning and the voltage values. The motor will not operate without intervention on the panel. (If the voltage drops below 150 volts, the panel immediately stops the motor.)
- d) **NTC:** The temperature on the pump is measured with an NTC, and if the temperature rises excessively, the motor stops, the yellow LED lights up, and the screen displays "Pump Overheating."
- e) **Low Pressure:** The low pressure value will be entered
- f) **High Pressure:** The high pressure value will be entered

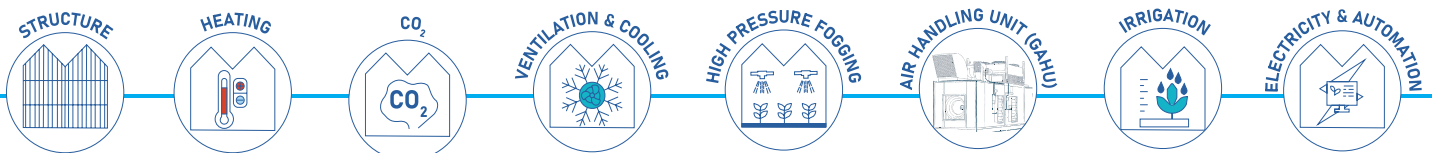
PROGRAMMING

Press the P button to enter the menu. Navigate the menu using the Up and Down buttons.

- a) **Timeon:** The pump's operating time in time-based mode is set here. Press P to save. After saving, press Stop to exit the menu.
- b) **Timeoff:** The pump's stop time in time-based mode is set here. Press P to save. After saving, press Stop to exit the menu.
- c) **Operating Mode:** The pump's operation based on time or time-dependent settings is configured here. Press P to save. After saving, press Stop to exit the menu.

RESET

The electronic panel alerts you when the pump requires maintenance. When a warning appears on the screen, maintenance should be performed, and to avoid receiving the warning again, the pump's operating time must be reset. To reset, press P to enter the menu. While in the menu, press the Manual button. A prompt will appear asking "Do you want to reset? (Y) or (N)." Press the Right (Y) button to perform the reset.



CONTACT INFORMATION

HEAD OFFICE

Esenehir Mahallesi Kuru Sokak No: 28/3, 81230 Ümraniye, İstanbul, TÜRKİYE

+90 (216) 499 72 85 (Pbx)

+90 (216) 313 43 13 (Fax)

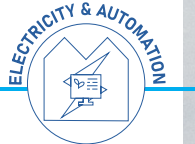
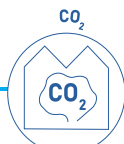
FACTORY

Zafer Mah. Yeni San. Sit. Yapı Koop. Şehit Yüzbaşı Kenter Cad. 1398 Ada 2-M Blok 7/8,
681230 Çorlu, Tekirdağ, TÜRKİYE

+90 (282) 692 58 58 (Pbx)

+90 (282) 673 59 01 (Fax)

timfog@timfog.com



**Çerkeşli Osb Mah. İmes 7.Cadde
No:3 Dilovası/Kocaeli**

+90 262 244 44 94