



ProMAX IV Fluid Warmer

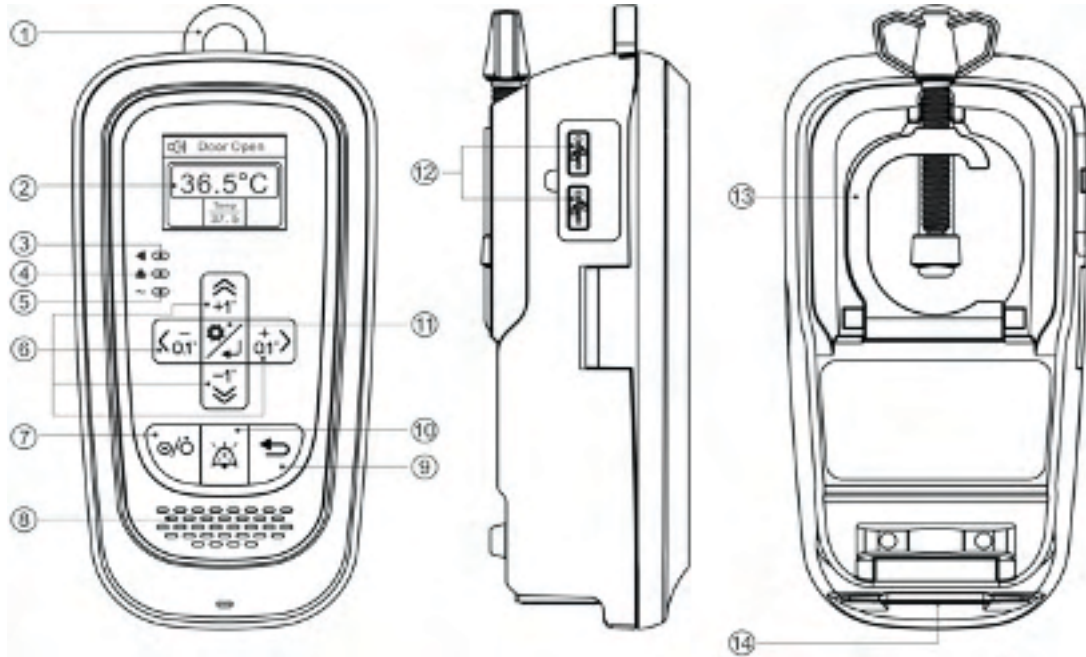
User Manual



Warnings and Precautions for the Covetrus® ProMAX IV Fluid Warmer

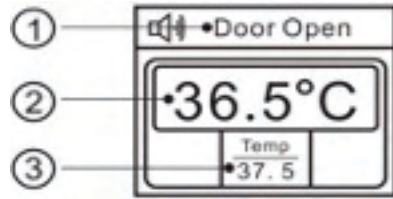
- Please read this user manual carefully before using the Covetrus ProMAX IV Fluid Warmer. If you have any questions, please call Covetrus.
- Before installing and using the Covetrus ProMAX IV Fluid Warmer, please perform a visual inspection to check whether the equipment has any of the following problems: damage to the housing, panel, or power supply, spilled fluid or liquid exposure, moisture, etc. If the panel is damaged, please call Covetrus.
- This equipment must be operated by trained professional medical care personnel.
- This device is used to warm drugs or blood inside an infusion line or blood transfusion line. Do not use it for other purposes.
- Before installing and using the equipment, please confirm with a DVM or similarly-licensed personnel whether the drug can be heated and check appropriate heating temperature.
- Prior to inserting fluid tubing into equipment, perform standard checks to ensure integrity and condition of line and that it is free of air prior to connection to the patient.
- Before installing the equipment, please refer to this manual for correct installation to prevent the device from falling off the infusion stand. Pay attention to avoid blocking the loudspeaker portion of the panel. To prevent impact or damage to the equipment, please pick up and lie down gently. Do not wash the equipment.
- When using the Covetrus ProMAX IV Fluid Warmer, please refer to the manual instructions. If alarm sounds, stop use and immediately troubleshoot the error. If necessary, please contact Triumph Medical for maintenance and testing, and ensure the device is certified to be in working order before resuming use.
- When using the optional drop sensor, please pay attention to the corresponding relationship between the external drop sensor interface and the infusion set slot.
- Please do not disassemble the equipment.

Appearance



Series Number	Name	Function
①	Ring	To hang the warmer
②	Display Interface	To check current operation of the warmer
③	Running Indicator Light	Shows that warmer is currently running
④	Alarm Indicator	Shows that warmer is in alarm state (red light with advanced-level alarms, yellow light with medium-level alarm)
⑤	AC Indicator Light	Shows that the warmer is connecting with AC power supply
⑥	Temperature Adjustment	Adjust to required temperature
⑦	Power Switch	Pressing and holding for 3 seconds to power on or single click to power off
⑧	Loudspeaker	To alert or alarm with sound
⑨	Return Button	Return to previous interface or silent alarm
⑩	Mute Button	To mute or activate sound
⑪	Setting Confirmation Button	Enter setting interface and confirm operation
⑫	Drop Sensor Interface (Optional)	To connect drop sensor
⑬	Pole Clamp (Hidden)	To fix warmer on pole clamp
⑭	Power Cord Connector	To connect power cord

Home Interface



Series Number	Name	Function
①	Alarm Display	When an alarm occurs, this will display the relevant alarm marks and symbols
②	Real-time Temperature	Display the real-time temperature of the warmer heating plate
③	Set Temperature	Display the set temperature

Setting Interface Instructions

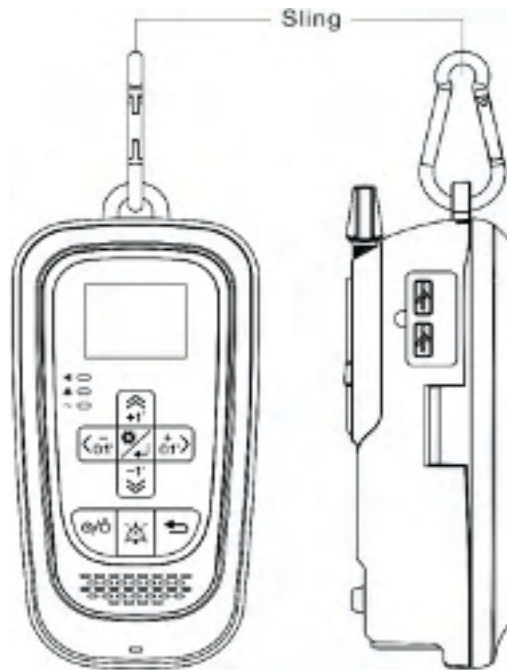
Press the “Settings Confirm” button to enter the following page in sequence:

Page	Description	Function
First page	Temperature	Set the desired temperature and press "OK" to save setting
	Unit	Two units to choose from: °C and °F
	Speaker Sound Volume	Set the speaker sound volume
	Key Sound Volume	Set key sound on or off
Second page	Restore Factory Setting	Restore all parameters to factory settings
	Languages	Set language to select the required language
	Alarm of Abnormal Temperature	Set the difference between abnormal temperature and set temperature value (the default value is 1. When it is greater than or less than 1°C or 32°F high and low-temperature alarms will be triggered)
	Equipment Information	View warmer information, version number

Installation Instructions

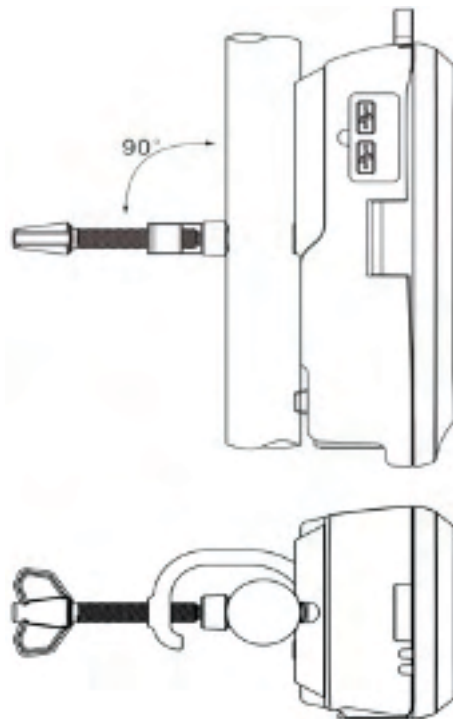
The Covetrus® ProMAX IV Fluid Warmer has two installation methods: hanging installation (with sling) or fixed pole clamp installation.

1 Hanging installation:



2 Fixed installation with clamp:

- Open the hidden pole clamp and rotate 90° as shown in the first photo below.

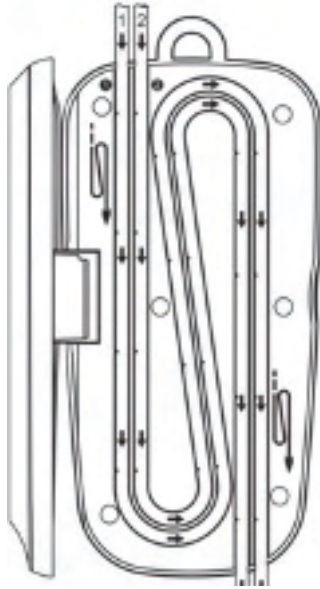


Note: After performing fixed installation with the pole clamp, the pole clamp can be returned to the hidden state inside the device by twisting the wingnut-shaped knob and rotating the pole clamp back into the slot.

- 3 Connect the power cable: Insert one end of the power cable into the power socket of the warmer and the other end into the main socket. The power indicator is on when the power is switched on.

Note: Do not start the device when the fluid in the infusion tube is not flowing.

- 4 **Infusion set installation:** Prepare the infusion set, fill the infusion set with liquid, and drain the bubbles from the infusion set; The device has two infusion pipe mounting slots, and one or two infusion sets can be installed at the same time. Install the end of the infusion set from the top down into the heating plate slot of the warmer, as shown in the figure:



- 1: No.1 infusion pipe slot
- 2: No.2 infusion pipe slot

Use Instructions

The Covetrus® ProMAX IV Fluid Warmer is used to heat the infusion set's liquid.

- 1 Long press the power button, and the machine will be powered on.
- 2 Fix the Covetrus ProMAX IV Fluid Warmer according to the installation diagram and connect the power cord. The power indicator will turn on.
- 3 Install the infusion set into the slot of the heating plate, close the upper cover, and insert the drop sensor into the corresponding interface of the Covetrus ProMAX IV Fluid Warmer (if necessary).
- 4 After powering on, set the parameter and adjust the temperature.
- 5 After use, long press the power button for about 3 seconds to turn off the warmer.

Alarms and Solutions

When an alarm sounds, first check the patient before determining the cause of the alarm.

Description	Alarm reason	Solution
Door Open	If the device is open or did not properly shut, an audible and visual alarm will appear	Close the door, or press mute button or return button to remove the alarm
High Temperature	Occurs when the temperature is higher than the set value by 1°C or 32°F. The default is 1°C, and the alarm range can be increased in the setting interface by the user up to 3°C or 37.4°F.	When the temperature goes back to the control range, it automatically eliminates the alarm. Press the mute or return button to remove the alarm.
Low Temperature	Occurs when the temperature is lower than the set value by 1°C. The default is 1°C, and the alarm range can be increased in the setting interface by user with a max of 3°C lower than the set temperature.	When the temperature goes back to the control range, it automatically eliminates the alarm. Press the mute or return button to remove the alarm.

Packing list of Covetrus® ProMAX IV Fluid Warmer

- One Covetrus ProMAX IV Fluid Warmer Main Unit
- One Power Cord
- One Sling
- One Manual and Certificate of Quality

Maintenance Regulations

The Covetrus ProMAX IV Fluid Warmer has a free warranty period of 1 year from the purchase date. The starting date of the warranty period is subject to the purchase date and the invoice.

Note: the machine damage caused by the following conditions is not covered by the free warranty:

1. Faults caused by unauthorized modification or maintenance due to improper use.
2. Fire, flood, wind, earthquake, abnormal voltage, and other natural faults and damages.
3. The machine is bumped or damaged due to improper operation during handling after purchase.

In case of damage or failure under the above circumstances, Triumph Medical can provide maintenance, but a certain fee will be charged accordingly.

Maintenance records

Date	Repair Content	Replace Parts		Repairman
		Material name	Quantity	

Note: If you have any questions, please contact Triumph Medical.



Questions?

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