



MEDICAL FLUID WARMERS

OXYGEN HUMIDIFIER AND FLUID WARMER MP-24

Designed to work with oxygen humidifiers for adults and pediatric inhalation



MP-24

FEATURES:

- Contactless warming of fluids
- Adjustment of infusion warming temperature using microprocessor's program
- Indication of warming readiness
- Simple and quick insertion of humidifier bottle
- Resistance to variety of disinfecting agents and moist cleaning
- Three-level protection against overheating
- Increases efficiency of oxygen humidifier, increasing relative importance of oxygen up to the 90%

TECHNICAL DATA:

- Power supply: DC 24V
- Power consumption: 50 W
- Warming temperature +32 - +42°C
- 250 ml fluids warming up till 30°C temperature in 7 minutes
- Max warming up temperature +42°C
- Safety temperature +45°C
- Operating temperature: +10 - +30°C
- Heating fluid container inner diameter:
 - MP-24-2 diameter Ø 55,2 mm
 - MP-24-3 diameter Ø 54,6 mm
- Weight: 540 g
- External dimensions Ø 72 x 120 mm



MEDICAL INFUSION FLUID WARMER MP-14

Warmers are designed for warming up of various infusion fluids to human's body temperature before these fluids access the body



MP-14

FEATURES:

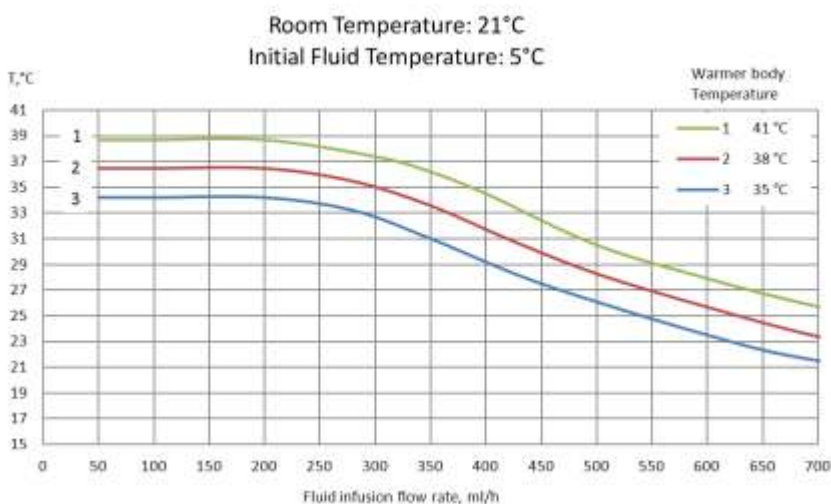
- Contactless warming of infusion fluids
- Adjustment of infusion warming temperature using microprocessor's program
- Indication of warming readiness
- Quick and easy set up for IV tube inserted directly into the warmer
- Resistance to variety of disinfecting agents and moist cleaning
- Three-level protection against overheating
- Convenient fit when used with a dripper and infusion pumps

TECHNICAL DATA:

- Power supply: DC 24V
- Power consumption: 50W
- Working temperature's reaching in 1 min after actuation
- Heater's pipe's length 580 mm
- Maximum warming up temperature +42°C
- Safety temperature +45°C
- Operating temperature: +10 - +30°C
- Weight: 220 g
- External dimensions: 120 x 45 x17 mm



DIAGRAM OF MEDICAL INFUSION FLUIDS



Temperature of heated fluids at the outlet of a heater, for infusion flow rates up to 5 ml/min., is lower then the set temperature by no more then 2°C

MEDICAL INFUSION FLUID WARMER MP-16

Warmers for infusion of fluids and blood



MP-16

FEATURES:

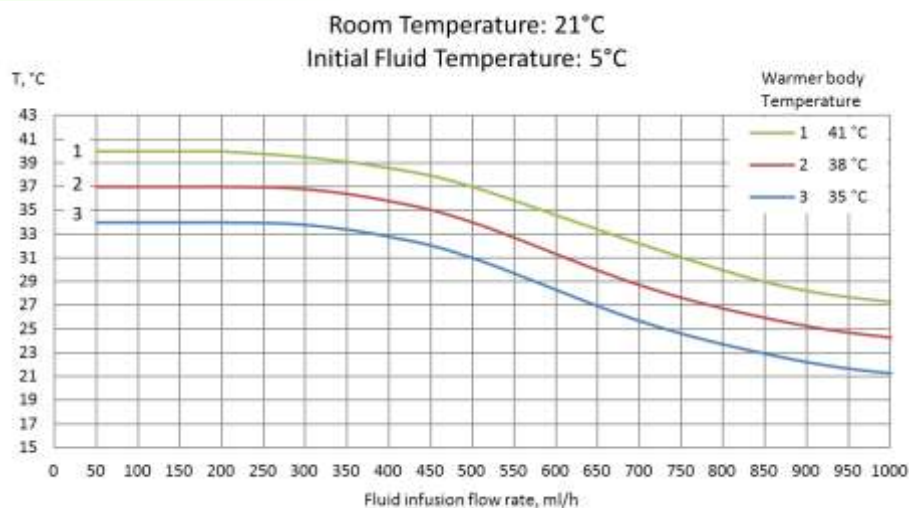
- Contactless warming of infusion fluids
- Quick and easy set up for IV tube inserted directly into the warmer
- Three-level protection against overheating
- For infusion tubes with outer diameter Ø4-5 mm
- For heating fluids and blood up to the infusion flow speed of 20 ml/min.

TECHNICAL DATA:

- Power supply: DC 24V
- Power consumption: 50W
- Working temperature's reaching in 3 min after actuation
- Heater's pipe's length 970
- Maximum warming up temperature +42°C
- Safety temperature +45°C
- Operating temperature: +10 - +30°C
- Weight: 470 g
- External dimensions: 50 x 205 x 20 mm



DIAGRAM OF HEATING FOR MEDICAL INFUSION FLUIDS



Temperature of heated fluids at the outlet of a heater, for infusion flow rates up to 8 ml/min., is lower then the set temperature by no more then 3°C

- Infusion warmers has integrated sound and visual alarm system
- Visual alarm contains from two individual LED indicators:
 - red LED indicator- indicates exceeding maximum temperature
 - blue LED indicator - indicates minimum temperature
- In case of failure in heating circuit of device, sound and visual alarm turns on automatically
- Sound alarm can be switched off by pressing "Standby" button approx (=1 sec)
- If there is still an unresolved fault for 12 min, sound alarm will be activated again.

Examples of application of the heater during the infusion process



Using with infusion pump



Using with set of driper

At low speeds of flow at the outlet heater uses a special thermal protection infusion tube

ADAPTER AC/DC FOR MEDICAL FLUID WARMERS



TECHNICAL DATA:

- Power supply: AC 110÷250 V; 50-60 Hz
- Output power: DC 24 V; 2,5 A
- Operating temperature +5°C÷+35°C
- Power for medical devices
- IP40, Class B

2 YEARS GUARANTEE for all warmer's parts.

Warmers are designed and manufactured in accordance with directive 93/42/EEC requirements.

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