



Heater Unit HU 35

Easy and safe temperature control
for extracorporeal life support

Proven reliability and effectiveness

The Heater Unit HU 35 is a precise and reliable oxygenator water supply device for maintaining normothermia during extracorporeal life support (ECLS). The unit works ideally as a companion to Getinge's Cardiohelp System or Rotaflow II System.

The water temperature of the HU 35 is controlled electronically, the water heated to the set point temperature, and continually pumped in the circuit via the connected oxygenator heat exchanger.

The target temperature of the water circuit can be set using simple arrowkeys. The status display on the front panel of the HU 35 provides information on the proper functioning of the device during use. A safety system protects the patient by preventing temperatures beyond 40.1°C.

The HU 35 is smaller and lighter than other heater units or heater-cooler units in the European market, which are approved for use with oxygenator heat exchangers. Thanks to its compact dimensions, and a lightweight and robust polished stainless steel housing, the HU 35 is easy to use in daily clinical practice. It can be simply placed on any stable table supporting its weight of 10 kg (with filled tank), wall mounted on standard slide rails, or perfectly positioned on the lower shelf of Getinge's Sprinter Cart and Sprinter Cart XL workstations using a special holder system.

Self-closing quick couplings allow safe connection and disconnection of the water supply tubing without water spillage.

The water system is sealed to the environment. The filling port to the tank is hermetically closed. Furthermore, the device is passively cooled without the support of a fan, so that no aerosols can escape during operation into the environment. Due to the absence of any fan, the device works exceptionally quite.

A protocol for routine disinfection and a protocol for highly effective disinfection with proven effectiveness against atypical mycobacteria ensure hygienic safety.



Technical data

Classification

In accordance with the Council Directive 93/42/EEC concerning medical devices, appendix IX

Class IIb

Protection according to IEC 60529

IPX1

Classification according to IEC 60601-1

Type B applied part

Protection class according to IEC 60601-1

Class I

UMDNS code

17-648

Housing

Dimensions (width x height x depth)

Approx. 200 x 290 x 330 mm

Weight

Approx. 9 kg

Tank capacity (min./max. markings)

Approx. 0.7/1.4 l

Noise level

Approx. 44 dB (A) (1 m)

Alarm level

> 50 dB (A) (1.5 m)

Sensors / temperature settings

Sensor measuring range

Approx. 10 ... 42°C

Measuring tolerance:
temperature display – water temperature

± 2.0°C (within the measuring range of 10°C to < 34°C)
± 0.5°C (within the measuring range of 34°C to < 42°C)

Correction value:
water temperature – temperature display

+ 0.5°C

Setpoint range

35 ... 39°C

Autonomous safety shutdown

≥ 40.1°C

Power supply / output

HU 35
Version 110V – 115V

HU 35
Version 230V

Rated voltage

110 ... 115 V AC,
50/60 Hz

230 V AC,
50/60 Hz

Power consumption

560 W

530 W

Current consumption

4.9 A

2.3 A

Capacity of pump

at 50 Hz:
max. 16 l/min
at 60 Hz:
max. 19 l/min

at 50 Hz:
max. 16 l/min
at 60 Hz:
max. 19 l/min

Warm-up time

Approx. 5 ... 10 min

Approx. 5 ... 10 min

Heating capacity

500 W

500 W

Fuse rating

2 x T 5 L 250 V

2 x T 3.15 L 250 V

Product order details

Product

Article no.

Heater Unit HU 35, 110 – 115 V

701072163

Heater Unit HU 35, 230 V

701072162

Country kit must be ordered separately (see system flowchart).
Water supply tubing kit must be ordered separately (see system flowchart).

Heater Unit HU 35

Benefits at a glance:

- **Smallest and lightest CE-approved water-based heater unit** for use with oxygenator heat exchangers during extracorporeal circulation
- **Robust stainless-steel housing** – easy to clean and damage-resistant
- **Easy to use** thanks to compact dimensions, low weight and practical handles
- Perfect companion for the **HLS System** (Heart-Lung Support System) or Quadrox **PLS System** (Prolonged Life Support) System
- **Strong heating capacity** of 500 Watt ensuring reliable maintenance of patient temperatures
- **Quiet operation** due to the absence of any fan
- **Operational safety** through automatic self-diagnostic test and temperature safety cut-off
- **Safe design** with closed water tank prevents the emission of aerosols into the environment
- **Self-closing quick couplings** for safe connection and disconnection of the water supply tubing without water spillage
- **Proven disinfection procedures** including a protocol for highly effective disinfection and biofilm reduction – also effective against atypical mycobacteria in the water system for hygienic safety
- Fits perfectly on Getinge's workstations **Sprinter Cart and Sprinter Cart XL**



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