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Технические характеристики на нагреватели NU 35 компании **GETINGE**

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, heated to the set point temperature, and continually pumped in the water circuit via the connected oxygenator heat exchanger.

Clear symbols and large figures on the interface offer comfortable usability. The status display on the front panel of the HU 35 provides information on the proper functioning of the device during the 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 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 handle 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 convenient and 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 particles can escape during operation into the environment. Due to the absence of any fan, the device works exceptionally quiet.

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. 35 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

Pump capacity

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

70107.2163

Heater unit HU 35, 230 V

70107.2162

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 heater unit for use with oxygenator heat exchangers during extracorporeal circulation
- Robust stainless steel housing – easy to clean and damage-resistant
- Easily transportable thanks to compact dimensions, low weight and practical handles
- Perfect companion for the Cardiohelp System with HLS Set or Rotaflow ICU Console and Rotaflow II System with PLS Set
- Strong heating capacity of 500 Watt ensuring reliable maintenance of patient temperatures
- Clear symbols and large figures on the interface for simplified operation
- Operational safety through automatic self-diagnostic test and temperature safety cut-off
- Safe design with closed water tank and absence of any fan prevents aerosolization and allows pleasant, quiet operation
- Self-closing quick couplings for convenient 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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