

Алматы (7273)495-231  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Саранск (8342)22-96-24  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97

Тверь (4822)63-31-35  
Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Улан-Удэ (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

[www.getinge.nt-rt.ru](http://www.getinge.nt-rt.ru) | | [gtw@nt-rt.ru](mailto:gtw@nt-rt.ru)

**Технические характеристики на  
системы экстракорпорального  
жизнеобеспечения Rotaflow II,  
тележки Sprinter,  
комплекты для экстракорпоральной  
респираторной или сердечно-сосудистой  
поддержки PLS  
компании **GETINGE****

# Rotaflow II

## Extracorporeal Life Support System

# Proven strength. Reinvented.

Rotaflow is by your side

Critically ill patients need trusted extracorporeal support and the highest quality care. Hospitals need safe, reliable and easy-to-use technology.

**The Rotaflow II Centrifugal Pump System delivers everything you need, with a low total cost of ownership.**

The Rotaflow II System is a reliable, high quality extracorporeal life support (ECLS) system that gives you the flexibility you need to provide quality patient care. As pioneers in the field of ECLS, Getinge is a leader in developing products and solutions in this area.

The Rotaflow II System can be used for both veno-arterial (VA) and veno-venous (VV) ECLS/ECMO. VA-ECMO supports both, the heart and lung in the case of cardiac and or respiratory failure, while VV-ECMO offers therapy to patients who have severe pulmonary insufficiency and cannot be supported using conventional

ventilation strategies. Both ECMO approaches can serve as a bridge to recovery or further treatment.

Rotaflow II not only comes in a completely new housing and with an enhanced and simplified user interface, but also offers many valuable features and improvements. And is still compatible with the proven PLS Set.





Compact Holder can be attached to the left or the right side of the Rotaflow II device handle or to the Fixation Point.



Fixation Point attaching the Compact Holder to a standard rail (vertical or horizontal) or a vertical round pole, such as on a mast.



Compact Holder with Fixation Point, Rotaflow II Drive and the PLS module combines the components in one ergonomic holder concept.

# Support without compromise

## A helping hand in critical situations

### 1 New design of the Rotaflow II System

Together with the Compact Holder, the Rotaflow II Drive and the primed PLS Set, the newly designed base unit weights approx. 11 kg, which is significantly less than the previous models. This impacts ergonomics and makes transport within the hospital easier.

All elements that can or must be operated by the user are highlighted in yellow. Users can immediately see where they have to touch to be able to carry out a command.

### 2 Improved and simplified user interface

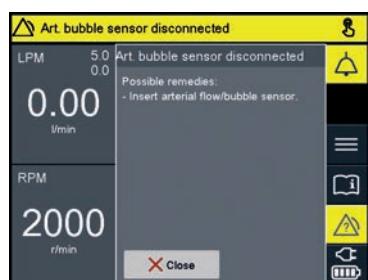
The user interface, with familiar elements, is easy-to-use and intuitive to operate. A simplified user interface is more user-friendly and can shorten the learning curve, for a safe use of the system.

Supporting features such as a step by step priming wizard guides (A) and assists during the setup of the device, the connection and priming of the PLS Set as well as a functional test, if required.

The advanced alarm management with supplementary information and guided assistance (B) supports you in better troubleshooting and patient management.



A



B

### 3 Redesigned Rotaflow II Drive

The hot-plug capability of the new Rotaflow Drive ensures immediate exchange during operation for gentle and continuous patient care. Color-coded parts and a new plug-in connection ease the operation and avoid confusion with old drive versions, the old Rotaflow Drive version is not compatible with Rotaflow II Base Unit.

### 4 Improved intra-hospital transport concept

The new concept attaches the Rotaflow II Drive and the PLS-i oxygenator to a single compact holder. A predefined distance between the components creates a small footprint with an ergonomic and clearly arranged work area to improve staff and patient safety. All important components are under control with just one hand.

The Fixation Point allows flexible positioning of the Compact Holder close to the patient, resulting in shorter tubing and minimized contact with foreign surfaces. A clean and organized workplace reduces the risk of tripping or unintentional decannulation.

### 5 New battery management concept

Rotaflow II offers a more sustainable and consumption-based replacement of batteries by the customer. The concept enables the customer to calibrate the systems batteries, without Getinge intervention. The user interface provides a clear overview for monitoring the battery charge level and the health status of the battery. Both calibration and battery replacement can be handled in-house by trained hospital employees, cost-effectively and predictably for significantly reduced downtime.

### 6 Interfaces to external devices

Electrical interface for transmitting alarms to external systems, such as nurse call.

Ethernet network connection and RS232 serial interface transmit application and device data to external systems.



# Compact set-up

Ease your daily work



# Rotaflow II System

## Low total cost of ownership

- Compact and intuitive holder concept for safe and resource-saving intra-hospital transport as well as optimal integration into the workplace
- The battery management concept, allows calibration and replacement of the battery by the end user, giving the user full control over battery maintenance
- Minimal number of preventive maintenance parts (e.g. battery), this ensures a cost-effective product life cycle
- The lean manufacturing and service-oriented design minimizes service times and optimizes assembly processes for rapid replacement and maintenance of components
- Simplified user interfaces for reduced training effort and safe handling of the device
- The associated PLS Set stands for attractive price-performance ratio.



### Permanent Life Support (PLS)

A therapy option for intensive care patients

The PLS Set is developed to support patients requiring respiratory and/or circulatory support with blood flows from 0.5 l/min to 7.0 l/min.

Rotaflow II with the PLS Set can be used in the intensive care unit, cardiac catheterization laboratory as well as operating, trauma and emergency rooms validated with the CE certification for 14 day continuous use.\*

\* PLS Set plus HLS cannulae, both with Bioline Coating, can be used for up to 14 days in the CE region.



# Sprinter Cart Sprinter Cart XL &

Mobile and multi-functional workstation in different sizes for extracorporeal support applications with ROTAFLOW Console, the Rotaflow II Base Unit or the Cardiohelp System as well as HU 35 Heater Unit.

The Sprinter Cart and Sprinter Cart XL fulfill both transport and inpatient requirements and are used in operating rooms and intensive care units as well as for internal hospital patient transport.

---

Mobile, multifunctional  
workstation for advanced  
extracorporeal support.

- Convenient and safe transport due to practical handles and smooth-running wheels with foot lever brake
- Complete range of accessories for all ECLS applications
- High-quality, crash and crush resistant frame made of solid stainless steel
- Minimal footprint due to compact dimensions and elaborate partitions
- The smooth surface is easy to clean.
- Additional equipment or other optional components can be installed on the corner bars and standard rails

---

## Small footprint and safe transport

The modular cart is individually configurable with a top shelf for Cardiohelp System, Rotaflow Console or the Rotaflow II Base Unit. The Heater Unit can be positioned in the middle. The optional isolating transformer kit can be installed on the base unit tray.

Additional equipment or other optional components can be attached to the corner bars and standard rails.

The cart has four large, smooth-running, electrically conductive, 360° rotating wheels that are equipped with foot-operated parking brakes and the practical handles. The workstation can be moved easily and comfortably throughout the hospital environment.

## Pull-out shelf for convenient access to the heater unit

The optional shelf with pull-out part is designed for a heater unit, such as HU 35.

The heater unit can be placed on the height-adjustable and extendable shelf kit. With the enclosed railing system, a heater unit can be conveniently pulled or pushed forward on the base shelf in two adjustment levels. This extendable shelf system allows the heater unit to be pushed forward to access the opening for water filling.

For electrical safety, the workstation is equipped with a equipotential bonding pin.

## Multi- functional workstation

The trolley is equipped with a handle, an accessory pole and height-reduced poles at the back. Additional equipment or other optional components can be installed on the corner poles and standard rails:

- Handle for pulling or pushing
- Top shelf (Cardiohelp-i, Rotaflow Console, Rotaflow II)
- Cardiohelp and Rotaflow Emergency Drive holder
- Rotaflow II Drive, Rotaflow Drive
- Gas bottle holder
- Infusion pole (height adjustable)
- Fixed tray for additional storage
- Second handle with fixation system
- Shelf kit for hyperthermia devices



# PLS Set

A therapy option for intensive care patients

The PLS Set is a preconnected circuitry with the minimum number of essential components for extracorporeal respiratory and/or cardiovascular support to be used with Rotaflow.



Treating patients with blood flow rates from 0.5 l/min to 7.0 l/min.

The PLS Set can be used in a system together with the Rotaflow ICU Console or the Rotaflow II Base Unit, in the intensive care unit, cardiac catheterization laboratory as well as operating, trauma and emergency rooms validated with the CE certification for 14 day continuous use.\*

\* PLS Set plus HLS cannulae, both with Bioline Coating, can be used for up to 14 days in the CE region.

# The PLS System consists of:



## Hardware:

- Rotaflow ICU Console or Rotaflow II Base Unit
- Rotaflow Drive or Rotaflow II Drive
- Rotaflow Emergency Drive
- Holder

## Disposables:

- PLS Set / PLS Set Plus / HIT Set PLS Plus
- HLS cannulae
- Bioline or Softline Coating



## Safety

- Minimum number of essential components
- Low-trauma centrifugal pump RF-32
- High biocompatibility
- Preconnected sets

## Flexibility

- Support for up to 14 days continuous use<sup>1,2</sup>
- Veno-venous or veno-arterial extracorporeal life support
- The PLS Set Plus includes two additional connectors for hemofiltration or dialysis procedures

<sup>1</sup> CE Region

<sup>2</sup> In combination with HLS Cannulae, both with Bioline Coating

Алматы (7273)495-231  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Саранск (8342)22-96-24  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97

Тверь (4822)63-31-35  
Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Улан-Удэ (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

[www.getinge.nt-rt.ru](http://www.getinge.nt-rt.ru) | [gtw@nt-rt.ru](mailto:gtw@nt-rt.ru)