



The S5 heart-lung-machine has a modular design. The individual components, modules and accessories can be easily replaced, the overall system can be modified and extended, and the modular structure saves valuable time during routine maintenance.

This established centrifugal pump system provides the S5 operator with flexibility. The most assembly saves space, no additional space is needed on the console. The overall system is delivered complete with drive unit, control panel, connection cable, sensor module for flow measurement, flow sensor and emergency system. The ERC closes the arterial line in a fraction of a second if an alarm is triggered (e.g. retrograde flow, level or bubble alarm), keeping the danger of air delivery to a minimum.



Features

- Better integration with the perfusion circuit
- More configuration options to accommodate a greater assortment of procedures (including pediatric)
- Quick and easy exchange of individual components in the most challenging environments
- Unprecedented safety features
- Is for paediatric and infant/neo-nate perfusion.
- Can be operated right beside the patient
- Can be swivelled and is user friendly

Specifications

Height (To the surface of the pump cover)	640 mm
Depth	600 mm
Console width (incl. push Bars)	3-position: 745mm 4-position: 890 mm 5-position: 89.5 kg
Weight	3-positon: 83.4 kg 4-position: 86.3 kg 5-position 89.5 kg
Operating Conditions	Operating Temperature: + 10 °C ... + 40 °C Storage Temperature: 0 °C ... + 40 °C Relative Humidity (Operating and Storing): 30% ... 75%
Masts Maximum Permissible Load	Maximum total load on mast system: 45 kg Maximum load on a mast: 20 kg (1)
Mast system extension (optional)	Maximum load on the telescope mast: 40 kg Maximum load on the vertical mast: 11.5 kg
Pumps	
Roller pump 150	Height: 285 mm Width: 180 mm Depth: 485 mm Weight: 15 kg
Double Roller Pump 85	Height: 257 mm Width: 180 mm Depth: 485 mm Weight: 12 kg
Mast Roller Pump 150	Height: 289 mm Width: 178 mm Depth: 299 mm Weight: 11.9 kg (2)
Mast Roller Pump 85	Height: 237 mm Width: 116 mm Depth: 175 mm (3) Weight: 5 kg (2)
2 Mast Roller Pumps 85	Height: 237 mm Width: 260 mm Depth: 200 mm (5) Weight: 11 kg (4)
Pump Specifications	Diameter of pump raceway Ø - roller pump:50 mm Diameter of pump raceway Ø - double roller pump: 85 mm Diameter of occlusion roller Ø - roller pump: 30.5 mm Diameter of occlusion roller Ø - double roller pump: 15 mm Speed range:0 to 250 rpm (clockwise, counterclockwise) Deviation in speed accuracy: ±1% of the terminal value 250 rpm plus ±0.5% of set value Speed deviation in the event of a fault (Detection of faulty speed from 30 rpm): during continuous operation: +15% max.; 2 revolutions max. until pump stops

Specifications (continued)

Display

rpm display range roller pump: 0 to 250 rpm
 rpm display range double roller pump: 0 to 250 rpm
 resolution: 1 rpm
 Deviation of speed slave pump: max. 1 percentage point of the flow ratio setting

Power Supply

Operating Voltage: 24 V DC
 Power Consumption: 160 W

System Panel

Display & control module for Roller Pump

Height: 125 mm Width: 179 mm Depth: 8 mm Weight: 0.5 kg

Display & control module for Mast Roller Pump

Height: 260 mm Width: 190 mm Depth: 100 mm Weight: 3.5 kg (6)

For 3 display and control modules

Height: 475 mm Width: 184 mm Depth: 94 mm Weight: 3.9 kg

For 4 display and control modules

Height: 590 mm Width: 184 mm Depth: 94 mm Weight: 4.5 kg

For 5 display and control modules

Height: 723 mm Width: 184 mm Depth: 94 mm Weight: 5.1 kg

For 6 display and control Modules

Height: 475 mm Width: 375 mm Depth: 94 mm Weight: 7 kg