

MAQUET

CENTRIFUGAL PUMP  
ROTAFLOW

CARDIOPULMONARY





EVERY PATIENT DESERVES THE BEST  
THE ROTAFLOW CENTRIFUGAL PUMP  
**MAQUET – THE GOLD STANDARD**



**MAQUET Cardiopulmonary – the ROTAFLOW centrifugal pump:** MAQUET is a global player for innovative and technological advances in operating theatres and intensive care units. MAQUET offers state-of-the-art quality products and services for the optimal treatment of patients and the best working conditions for the medical staff.

The MAQUET Cardiopulmonary Division has extensive experience in heart surgery with continuous and innovative product development. The MAQUET Cardiopulmonary product portfolio includes the entire range of perfusion and life support systems, tubing sets, and cannulae as well as standard products for the perfusion and surgery teams.

The ROTAFLOW centrifugal pump from MAQUET provides greater benefits for improved, gentle blood handling during extracorporeal circulation. Engineered with simplicity and sophistication, ROTAFLOW is one of the smallest centrifugal pumps available and at the same time a highly flexible modular component for systems integration.

- Minimal priming volume and surface area
- No stagnant blood zones
- Low friction through one-point bearing

MAQUET – The Gold Standard.

## UNIQUE DESIGN AND UNPARALLELED PERFORMANCE THE ROTAFLOW PUMP HEAD

**Design without compromise for gentle blood handling and maximum biocompatibility:** The pump head is unique, simple, and sophisticated. In fact, due to the combination of magnetic coupling, reduced mechanical friction and internal pump circulation, clotting zones are significantly reduced. The centrifugal pump's minimal priming volume of 32 ml considerably reduces hemodilution.

The ROTAFLOW pump head is the perfect choice – reliable and efficient for standard and long-term procedures as well as high performance situations. Approved for 4 days use without coating and 14 days use with BIOLINE coating.



**One drive cable – three functions:** The unique set-up of the ROTAFLOW pump drive also includes flow sensing and bubble detection in one advanced unit. The blood flow is precisely measured in the pump outlet by ultrasonic transit time technology. Costly disposable flow probes and time consuming tubing connections are a thing of the past.



**Optimum flexibility:** The swivel-joint bracket assures ideal positioning with greater flexibility in handling and allows shorter tubing lengths. For further convenience, the sturdy drive unit's special cooling system has no dirt-catching ribs: a smooth surface for quick and easy cleaning.



**The ROTAFLOW emergency drive** is designed for secure handling and fast fixation on the mast when every second counts. When operating in the manual mode, there is an LED display of RPM.



## MULTIPLE CHOICE WITH MULTIPLE BENEFITS SYSTEMS INTEGRATION

**Providing the choice:** The ROTAFLOW pump can operate as a stand-alone modular unit or as a pump module on, or integrated into, MAQUET heart-lung machines. Whatever the application, whatever the specific requirements – ROTAFLOW offers significant advantages for the user and patients.

**The ROTAFLOW module** can operate independently as a stand-alone unit with its own integrated battery pack and power supply. Its ability to be also incorporated onto and into MAQUET heart-lung machines makes ROTAFLOW the centrifugal pump of choice for today's perfusion teams.

### Stand-alone features:

- Integrated flow and bubble sensors in the drive unit
- LPM mode for convenient flow-controlled pumping
- Low-level operation
- Integrated battery back-up of 90 minutes
- Large four-digit alphanumeric displays for flow and speed
- Proven user interface

### Compact in size and low in weight, the ROTAFLOW

**console is flexible:** It can easily be removed from and reinstalled onto the MAQUET heart-lung machines. For instance, the ROTAFLOW module unit is easily positioned onto the MAQUET HL20 by simply lifting positioning it into pins on the heart-lung machine base.

**ROTAFLOW is the optimum choice:** It interfaces automatically with MAQUET's JOCAP XL data recording system.

### Additional features as MAQUET HL20 pump module:

- Controlled by all supervising units (bubble, pressure, level)
- Pulsatile flow mode option



ROTAFLOW stand-alone console

| Technical Data ROTAFLOW Console RFC 20-970 |                    |
|--|--------------------|
| RPM speed                                  | 0 – 5000 RPM       |
| Accuracy of flow display                   | 0.1 LPM            |
| Flow rates                                 | 0 – 9.9 LPM        |
| Dimensions                                 | 180 x 380 x 240 mm |
| Weight approx.                             | 15 kg              |

| Technical Data ROTAFLOW Centrifugal Pump RF 32 |                     |
|--|---------------------|
| Priming volume                                 | 32 ml               |
| Surface  | 190 cm <sup>2</sup> |
| Diameter of rotor                              | 50 mm               |
| Efficiency                                     | 0.30                |
| Flow rate                                      | 0 – 10 l/min        |
| Connectors                                     | 3/8"                |

### Order Information

|                                  |              |
|----------------------------------|--------------|
| MAQUET ROTAFLOW Console          | country kit* |
| MAQUET ROTAFLOW Drive Unit       | 952291       |
| MAQUET ROTAFLOW Emergency Drive  | 952301       |
| MAQUET ROTAFLOW Centrifugal Pump | RF 32        |

For further order information please ask your local dealer.

\*Code No. according to corresponding country kit.

# MAQUET

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