Controlled precision

FLUID CONTROL Arthro
Irrigation and Suction pump for arthroscopy and full-endoscopic spine surgery
Performance in a new dimension

FLUID CONTROL Arthro is a new pump system for arthroscopic endoscopy and full-endoscopic spine surgery. The particular strength of this system lies in a partial combination of high performance and cost-effective overall concept. The new software and technical enhancements make FLUID CONTROL Arthro ideal for diagnostic and therapeutic interventions.

Intelligent fluid management
The particularly refined control quickly equalizes the pressure but also recognizes abrupt interruptions in the irrigation flow, for example by closing the stopcock on the endoscope. Optical and acoustic alerts are given when critical overpressures occur.

Particularly user friendly
It is not necessary for application parameters to be continually re-entered as a result of the pre-defined and freely programmable indication profiles.

Reserve capacity for all cases
The system is equipped with high pressure and pumping capacities, and this allows it to offer adequate capacity reserves for all eventualities. This enables optimum visibility to be quickly reinstated specifically in wash mode.

- Pressure: up to 200 mmHg
- Pumping capacity: up to 2 l/min

Spine Mode
The spectacularly safe flow control was specially developed for use in full-endoscopic spine surgery:

- Optimum endoscopic visualization of the spinal canal and disk space
- Improved safety through continuous pressure monitoring and over-pressure control
- Standardized application profiles for VERTEBRIS instrument systems
- Low consumption of irrigation fluid through optimally regulated flow performance
Innovative tubing concept
Tubing systems from Richard Wolf give you an optimum combination of user comfort, safety and cost effectiveness.

Safety is our commitment
FLUID CONTROL Arthro keeps track of components. The system is fitted with intelligent transponder technology. This automatically recognizes whether the tube is a system-compatible Richard Wolf tube, the tube type and the number of applications still permitted.

- Reduces the risks of infection
- Optimizes the comfort factor for personnel

Single genius – Ingeniously doubled
FLUID CONTROL Arthro combines the irrigation and suction pump in a single unit. A vacuum pump is integrated alongside the roller pump for irrigation. This makes significant cost savings.

- Two pumps in one unit
- A single tube is adequate for evacuation. A second roller-pump tube set is not required.

Complete tube set
Once a day or less frequent use: we recommend a complete tube set. Make your choice here between the re-usable and single-use version.

Day-patient tube set
Already from two interventions/patients each day: make use of the day-patient tube set. This set is made up of a day tube which remains in the pump throughout the day and a patient tube which is changed for each intervention. The irrigation fluid bag can remain on the pump until it has been completely used up. This significantly reduces the amount of waste and cuts costs.

Note: The use of the day-patient tube set has not been approved for the application spine mode.

Other tube versions complement the system.

Comprehensive user comfort
The new equipment design with sloping front panel makes the large touchscreen conveniently accessible.

- Intuitive operation
- Autoclavable remote control
- Foot switch for activation of wash mode

FLUID CONTROL Arthro has already been prepared for integration in core, the digital Operating Room from Richard Wolf.
Ordering data

Pump and accessories

**FLUID CONTROL Arthro 2204**, Irrigation and Suction Pump for arthroscopy with automatic tube recognition, consisting of: Fluid Control Arthro (2204001), Tube set with piercing connector (8171223), vacuum tube (8170.401), protective filter for gas filtration (4171.121) and power cable (2440.03) ...................2204001

**FLUID CONTROL Arthro-Spine 2204 cpl.**, Irrigation and Suction Pump with Spine Mode software module for arthroscopy and full-endoscopic spine surgery with automatic tube recognition, consisting of: Fluid Control Arthro (2204001), Spine Mode software module (2204101), Tube set with piercing connector (8171223), vacuum tube (8170.401), protective filter for gas filtration (4171.121) and power cable (2440.03) ...................22040012

Footswitch ...........................................................................................................2204901*

Cable remote control, autoclavable ...........................................................................2204961

Irrigation

**Accessories - reusable**

Tube set with piercing connector, with luer-lock connector, autoclavable, incl. 10 replacement membranes, re-usable for 20 reprocessing cycles .........................8171223

**Accessories - for single use**

Tube set with piercing connector, (pack of 10), with luer-lock connector, sterile single-use product ..........................................................4171223

Tube set with CARE-LOCK, (pack of 10), sterile single-use product .........................4171224

Day tube set, sterile, (pack of 10), with piercing connector, single-use product, PVC ..........................................................4171226*

Day-patient tube set, sterile, single-use product, PVC, consisting of: 10 x patient tube set and 1x day tube set with piercing connector .................................4171227*

Suction / Evacuation

**Accessories - reusable**

Vacuum tube, silicone, autoclavable, for connection of vacuum (pump) with suction container ..........................................................8170.401

Suction container, 3 liters, incl. holder, autoclavable .....................................................8170.981

**Accessories - for single use**

Suction container, 3 liters, (pack of 2) ........................................................................2215.971

Drain tube, PVC, with Y-shaped piece, length 5 m, sterile single-use product, (pack of 10) for connection of instruments with suction container .................................................4170.901

for vacuum tube 8170.401:

Protective filter for gas filtration, hydrophobic (hygiene filter) .....................................4171.121

* Not approved for application spine mode

Specifications subject to change without notice.