

Controlled precision

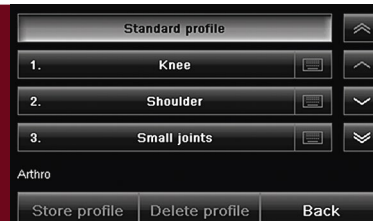


FLUID CONTROL Arthro

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.



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

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.

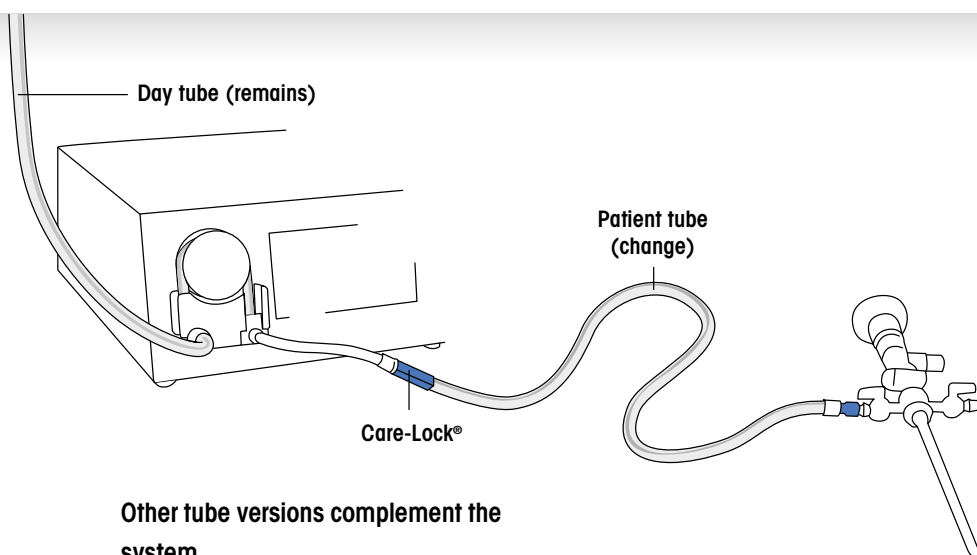
Spine Mode

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.



Other tube versions complement the system.

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.

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.




Comprehensive user comfort

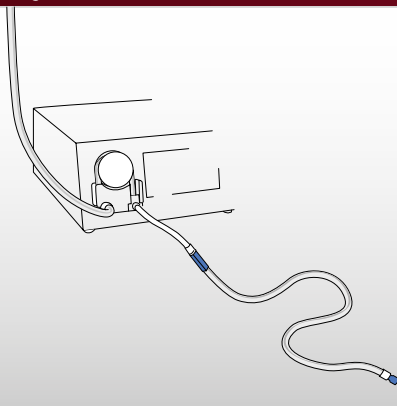
The new equipment design with sloping front panel makes the large touchscreen conveniently accessible.

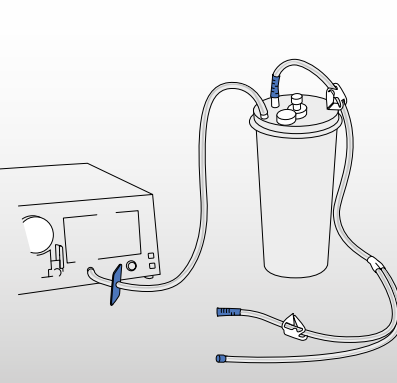
- Intuitive operation
- Autoclavable remote control
- Foot switch for activation of wash mode

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)22040011
	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, autoclavable2204961

Irrigation	
	Accessories - reusable
	Tube set with piercing connector , with luer-lock connector, autoclavable, incl. 10 replacement membranes, re-usable for 20 reprocessing cycles8171223
	Accessories - for single use
	Tube set with piercing connector , (pack of 10), with luer-lock connector, sterile single-use product4171223
	Tube set with CARE-LOCK , (pack of 10), sterile single-use product4171224
	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: 10x 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 container8170.401
	Suction container , 3 liters, incl. holder, autoclavable8170.981
	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 container4170.901
	for vacuum tube 8170.401: Protective filter for gas filtration , hydrophobic (hygiene filter)4171.121

* Not approved for application spine mode