

# FLUID CONTROL LAP 2216

An effective and dependable suction and aspiration system is extremely important for any laparoscopic intervention. Apart from effective irrigation and suction power, you as a surgeon are also reliant on simple and effortless operation. **We combine optimum performance parameters** in our **new generation of FLUID CONTROL LAP 2216 Suction Irrigation Pumps** with very easy handling.

The latest technology using an RFID (Radio Frequency Identification) transponder provides enhanced safety during application. The coded tubes mean that the type of tubing, the validity and dependability of the tubing sets used is automatically identified by the unit.

The validity of each tubing set is checked automatically when it is connected at the start of a procedure. This ensures that single use tubing sets are indeed used only once and the reusable set is prevented from reuse once its maximum life is reached.

## More control during the operation

The maximum irrigation and suction output of 2 l/minute offers you the option of quickly getting the necessary overview and clarity in difficult and confused situations.

## Mix-ups excluded

The RFID tubing sets mean that incorrect fittings and malfunctions are avoided from the outset.

## Simple integration and intuitive handling

The compact dimensions of the **FLUID CONTROL LAP 2216** suction irrigation pump permits integration in any available laparoscopy tower without requiring a great deal of space.

Positioning the tubing set and the actual operation are carried out intuitively and ensure additional process safety during the course of the operation together with the RFID-coded tubing set.

## Efficient cleaning

The unit has been provided with a special surface to facilitate easy and thorough cleaning for the **FLUID CONTROL LAP 2216** Suction Irrigation Pump.

### Product

### Order no.

#### FLUID CONTROL LAP 2216 Set

FLUID CONTROL LAP 2216, suction irrigation pump for laparoscopy (2216001), incl.: power cable (2440.03).....22160011

### Accessories list

**Tubing set with piercing connector, (for irrigation), with luer-lock connector, autoclavable, incl. 10 replacement membranes, reusable for 20 reprocessing cycles, for FLUID CONTROL LAP 2216.....8171223**

**Tubing set with piercing connector, (for irrigation), with luer-lock connector, sterile single use item, pack of 10 for FLUID CONTROL LAP 2216.....4171223**

**Tubing set with Care-Lock®, (for irrigation), sterile single use item, pack of 10, for FLUID CONTROL LAP 2216.....4171224**

**Tubing set with piercing connector, (for irrigation), with connector for suction-irrigation handle (8385.901), incl. drain tube, pack of 10, for FLUID CONTROL LAP 2216.....4171225**

**Tubing set reusable, (vacuum tube) autoclavable.....8170.401**

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

**Suction container PSU, 3 liter, autoclavable.....8170.981**

**Suction container, 3 liter, single use item, pack of 2 .....2215.971**

**Holder, for fixing the suction container on irrigator stand or MUT cart.....2215.992**

**Universal holder, for FLUID CONTROL LAP 2216 on RIWomobil.....32114605**

### Technical data

Power connection: 100 – 240 V~, 50/60 Hz  
Max. power consumption: 52 VA  
Max. current consumption: 100 V: 0.5 A, 240 V: 0.22 A  
Classification in conformity with guideline 93/42/EEC: IIa

Safety class: I  
Degree of protection: Type BF  
Protection rating (IP Code): IP41

Maximum output: Irrigation: 2.0 l/min (±10%)  
Suction: 2.0 l/min (+0.4/-0.1 l/min)  
Maximum pump pressure: 400 mm Hg (± 50 mm Hg)  
Motor cut-out: 500 mm Hg after 5 s (± 25 mm Hg)  
Suction pressure: between -50 kpa and -60 kpa

Connections: Equipotential bonding, vacuum connection, service connection

**Dimensions:** width x height x depth  
With clamping screw: 140 x 210 x 295 (mm)  
Without clamping screw: 140 x 210 x 200 (mm)

Weight: approx. 4 kg  
Manufactured and tested in conformity with: IEC 60601-1 / EN 60601-1

## POMPA LAPAROSKOPOWA 2216

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### Produkt

Pompa laparoskopowa 2216, zestaw:  
Pompa laparoskopowa 2216, pompa ssąco – płuczająca do laparoskopii (2216001), w zestawie kabel zasilający (2440.03) 2216001

### Lista akcesoriów

Zestaw drenów wielokrotnego użytku z łącznikiem pierścieniowym (do płukania), ze złączką typu luer, autoklawowalne, w zestawie 10 membran, dreny mogą być sterylizowane 20 razy, do pompy 2216

8171223

Zestaw drenów jednorazowego użytku z łącznikiem pierścieniowym (do płukania), ze złączką typu luer, opakowanie 10 sztuk, do pompy 2216 4171223

Zestaw drenów jednorazowego użytku z łącznikiem typu Care-Lock (do płukania), , opakowanie 10 sztuk, do pompy 2216 4171224

Zestaw drenów jednorazowego użytku z łącznikiem pierścieniowym (do płukania), ze złączką do uchwytu ssąco – płuczającego (8385.901), w zestawie dren odpływowy, opakowanie 10 sztuk, do pompy 2216 4171225

Zestaw drenów wielokrotnego użytku (dren ssący), autoklawowalny 8170.401

Filtr ochronny do filtracji gazu, hydrofobiczny (filtr higieniczny) 4171.121

Pojemnik na odessany płyn, 3 litry, autoklawowalny 8170.981

Pojemnik na odessany płyn, 3 litry, jednorazowy, opakowanie 2 sztuki 8170.981

Uchwyt do mocowania kontenera na stojaku lub wózku MUT 2215.992

Uniwersalny uchwyt do zamocowania pompy 2216 przy wózku RIWO 32114605

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### Dane techniczne

Pobór mocy:	100-240 V zmienne, 50//60 Hz
Maks. Pobór mocy:	52 VA
Maks. Pobór prądu	240 V 0,22 A
Klasa medyczna	Ila
wg dyrektywy 93/42/EEC	I
Klasa bezpieczeństwa	BF
Stopień ochrony	IP41
Stopień ochrony (kod IP)	
Maksymalny przepływ	Płukanie: 2,0 l/min ( $\pm 10\%$ ) Ssanie: 2,0 l/min (+0,4 l / -0,1 l / min)
Maksymalne ciśnienie	400 mm Hg ( $\pm 50$ mm Hg)
Ciśnienie odcięcia	500 mm Hg po 5 sek. ( $\pm 25$ mm Hg)
Ciśnienie ssania	od -50 kpa do - 60 kpa
Złącza	Uziemienie, podciśnienie, serwisowe
Wymiary	dł. x szer. x wys.
Z klamrą	140 x 210 x 295 (mm)
Bez klamry	140 x 210 x 200 (mm)
Masa:	ok. 4 kg
Wyprodukowano i testowano zgodnie z normą	IEC 60601-1 / EN 60601-1