

Keep the
balance in sight



FLUID CONTROL 2225

Suction and irrigation pump
for gynecology, urology and surgery

FLUID CONTROL 2225

One pump. Three specialisms. No license fees.

The new **FLUID CONTROL 2225** suction and irrigation pump from Richard Wolf always offers you free visualization and monitoring.

Independently of the area of application, whether in gynecology, urology or surgery, you have a license for flexibility. One click equips you for the relevant intervention – with no license fees.

Flexibility

- **One pump. Three specialisms.**
Interdisciplinary application in gynecology, urology and surgery
- **No license fees**
Interdisciplinary application without any additional costs
- **Individual instrument presets**
for maximum irrigation performance
- **Mobile balancing module**
Easy change between operating theaters
- **Compatible with endoscopes from other manufacturers**
when the standard mode is selected
- **A tube set for all applications**
as a disposable or reusable solution
- **Integrated core nova interface**
Control of core nova operating integration system possible



Performance

- 1800 ml/min irrigation performance*
- 2000 ml/min suction power*
- Continuous irrigation flow
Even in narrow-lumen instruments
- NEW: Integrated vacuum function
Rapid exchange of fluid for optimum visualization conditions
- 60% higher irrigation performance
compared with predecessor models

Safety

- Outstanding visualization in any surgical situation
as a result of uniform irrigation flow and vacuum function
- Large, clear touchscreen color display
- Continuous monitoring and display of fluid deficit
throughout the entire intervention
- Two integrated load cells
for precise balancing
- System monitoring
Warning messages and signals if there are any deviations



@Gynecology

page 4

@Urology

page 6

@Surgery

page 9

FLUID CONTROL 2225 and Accessories

page 10

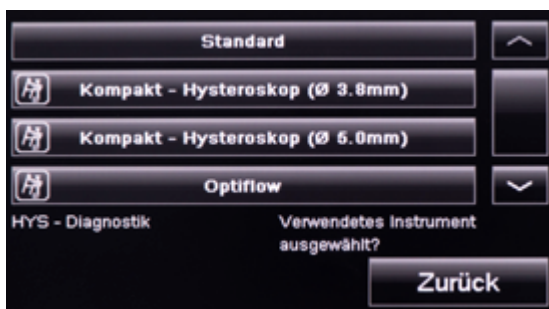
* depending on the specialism and intervention

FLUID CONTROL 2225

The suction and irrigation pump.
@Gynecology

GYNECOLOGY

Diagnosis



- **Simple instrument selection**
using touch display
- **"Plug-and-Play"**
with instrument presets

- **Pressure-controlled indication**
Optimally adjusted pressure value
- **Optimum irrigation performance**
also with narrow-lumen instruments
- **Endoscopes from other manufacturers**
can be used with standard adjustment
- **Perioperative uniform maximum power**



Insight through efficiency

Presets specially tailored to the Richard Wolf Instrument Set ensure highly efficient and continuous irrigation performance, even with narrow-lumen instruments.

When using endoscopes from other manufacturers, the standard setting should be used.

Resection

GYNECOLOGY

- **Control and safety**
for avoiding a TUR Syndrome
during resection



- **Pressure-controlled indication**
Optimally adjusted pressure value
- **Permanent display and monitoring**
of the fluid deficit
- **Acoustic warning signal**
if the permissible amount is exceeded

Balancing made easy

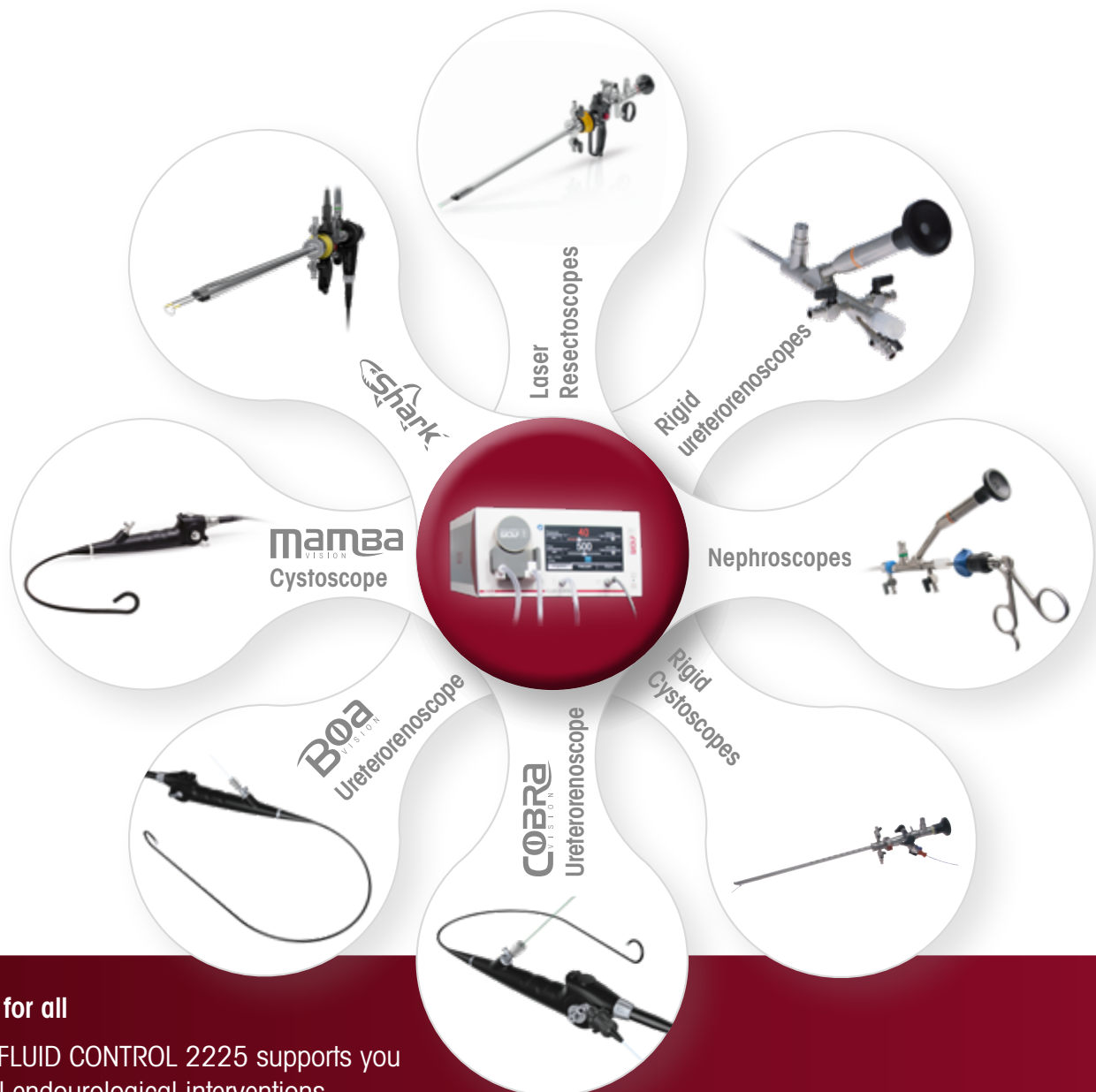
Two integrated load cells are located in the balancing module. They enable the fluid deficit to be determined conveniently and precisely.



FLUID CONTROL 2225

The suction and irrigation pump.
@Urology

UROLOGY



One for all

The FLUID CONTROL 2225 supports you
in all endourological interventions.

Cystoscopy & Resection

- **Rigid and flexible cystoscopy**
- **Pressure-controlled indication**
Optimized to the bladder as a result of adjustment of the pressure values



- **Pressure-controlled indication**
Optimized for use in TUR
- **Best visualization conditions**
as a result of "Flush" function
- **Precise display of the deficit**
Control of the volume of irrigation fluid in patients
- **Avoidance of TUR syndrome**
Constant monitoring of the fluid deficit



Pressure-controlled indications

The FLUID CONTROL 2225 operates with pressure values optimally adjusted to the individual organs. The balancing module permits precise monitoring of the fluid deficit.

FLUID CONTROL 2225

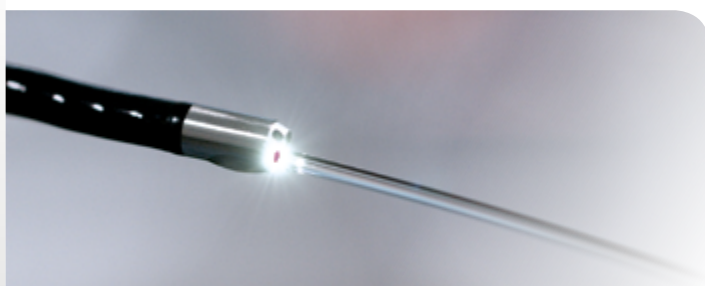
The suction and irrigation pump.
@Urology

PCNL & URS

UROLOGY

Mini PCNL or standard PCNL

- **Pressure and flow-controlled indication**
Simultaneous control of target pressure and irrigation flow
- **NEW: Integrated vacuum function**
Fast fluid exchange for optimum visualization conditions



Ureterorenoscopy (URS) – flow-controlled indication

The optimized pump wheel permits continuous, uniform irrigation flow – specially in the case of narrow-lumen instruments.

Semirigid or flexible URS

- **Flow-controlled indication**
For a uniformly strong irrigation flow
- **Fast exchange to cystoscopy is possible during URS as a result of "Cysto" function**
No menu selection necessary

Flexible URS without pulsation

- **Uniformly strong irrigation flow**
for maximum irrigation performance
- **Specially for narrow-lumen flexible instruments**

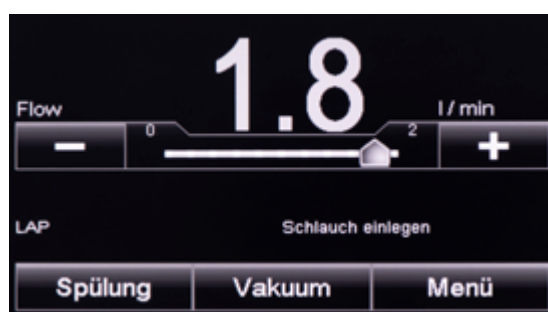


FLUID CONTROL 2225

The suction and irrigation pump.
@Surgery

SURGERY

Laparoscopy



- Fixed preset pressure
- Flexibly selectable target flow
- 1800 ml/min irrigation performance
for outstanding visualization conditions
in any surgical situation
- 2000 ml/min suction power



Cleverly combined

An ideal combination: the FLUID CONTROL 2225
together with our proven suction-irrigation instrument system.

Irrigation and suction are carried out easily and conveniently at the touch of a button and this ensures
an excellent overview of the surgical field.

FLUID CONTROL 2225

Ordering Information

FLUID CONTROL 2225

Irrigation pump for HYS / URO / LAP

Fluid management for irrigation of irrigation fluids into the uterus and the upper and lower urinary tract, and for the suction-irrigation function in the abdomen

FLUID CONTROL 2225 2225001

FLUID CONTROL 2225, incl. power cable 22250011

Technical data

Voltage range (V)	100 - 240 V~	
Supply frequency (Hz)	50/60 Hz	
Power consumption	Electricity (A)	Power consumption (VA)
100 V / 60 Hz	1.10 A	110 VA
240 V / 50 Hz	0.50 A	118 VA
Protection rating (I, II)	I	
Operating conditions	+10 to +40 °C 30 to 75 % rel. atmospheric humidity 70 to 106 kPa air pressure 3000 m max. operating altitude above sea level	
Storage, transport and shipping conditions	-20 to +60 °C 10 to 90 % rel. atmospheric humidity 70 to 106 kPa air pressure	
Maximum suction negative pressure	-60 kPa	
Adjustable values / ranges		
Target flow range	Hysteroscopy: 800 ml/min (max. flow, not adjustable)	
	Endourology: 10 - 800 ml/min (max. flow)	
	Laparoscopy: 0.1- 1.8 l / min (max. flow)	
Suction power	max. 2 l/min	
Output target pressure range	Hysteroscopy: 15 - 200 mmHg	
	Endourology: 15 - 90 mmHg / 20 - 125 cmH2O	
	Laparoscopy: 370 mmHg (fixed setting)	
Pressure	0 - 300 mmHg	
Deficit / Consumption	-9990 to +9990 ml / 0 to 99.9 l	
Dimensions (W x H x D)	300 mm x 157 mm x 436 mm	
Weight	8.8 kg	

Balancing module

for hysteroscopy and endourology,
fluid management for fluid balancing in combination with
FLUID CONTROL 2225, mobile stands with integrated load
cells and accommodation

for up to 4 irrigation fluid bags **2225023**

Technical data

Operating conditions	+10 to +40 °C 30 to 75 % rel. atmospheric humidity 70 to 106 kPa air pressure 3000 m max. operating altitude above sea level
Storage, transport and shipping conditions	-20 to +60 °C 10 to 90 % rel. atmospheric humidity 70 to 106 kPa air pressure
Maximum load for the vessel scales	16 kg / 4 containers each 3 l in volume
Maximum load for bag scales	23 kg / 4 bags each 5 l in volume
Dimensions (W x H x D)	618 mm x 1064 mm x 618 mm

Footswitch

only usable in urology and
within the indication TUR / enucleation,
possibility of short-term increase in pressure
if visualization conditions are poor
("Flush" function) **2204901**

Technical data

Voltage range	max. 24 V
Power consumption	Electricity (A): max. 0.1 A
Plug	7-pole circular connector
Cable length	4.5 m
Dimensions (W x H x D)	66 mm x 27 mm x 91 mm
Weight	300 g

Irrigation tubes

Irrigation Tube Set

with piercing connector, 3 m,
with Y-piece, with luer-lock connector,
pack of 10, sterile, for single use **4171223**

Irrigation tube set

with care-lock, 3 m,
pack of 10, sterile, for single use **4171224**

Suction-irrigation tube set

3 m,
pack of 10, sterile, for single use **4171225**

Irrigation tube set

with piercing connector, with luer-lock connector,
incl. 10 replacement membranes,
20x autoclavable **8171223**

Tube set

with Y-piece, 5 m,
pack of 10, sterile, for single use **4170901**

Tube set for vacuum

reusable, 20x autoclavable **8170401**

Vacuum tube with filter

1.7 m **2206207**

Tube attachment

with luer-lock connector,
for suction-irrigation handle 8385.901
and Tube Set 8171223 or 8170.223,
reusable **817123***

Suction tube

3 m, for suction-irrigation handle 8385.901,
reusable **8171402**

Protective filter for gas filtration

for single use **4171121**

Suction container

3 l, incl. holder,
reusable **8170981**

Suction container

3 l, pack of 2,
for single use **2215.971**

Cabling accessories

Patch cable

Cable length: 0.5 m **72325378**
Cable length: 1.0 m **72325429**
Cable length: 10 m **72325434**

Plastic cap for network socket

Pack of 8 **5592105**

Fuse

5 x 20,
3.15 AT, pack of 2 **64268007**

Power cable

Cable length: 2.0 m **2440.03**

