

## Irrigation

Laparoscopic & Hysteroscopic Pump / Laparoscopic  
Suction-Irrigation Pump / Accessories

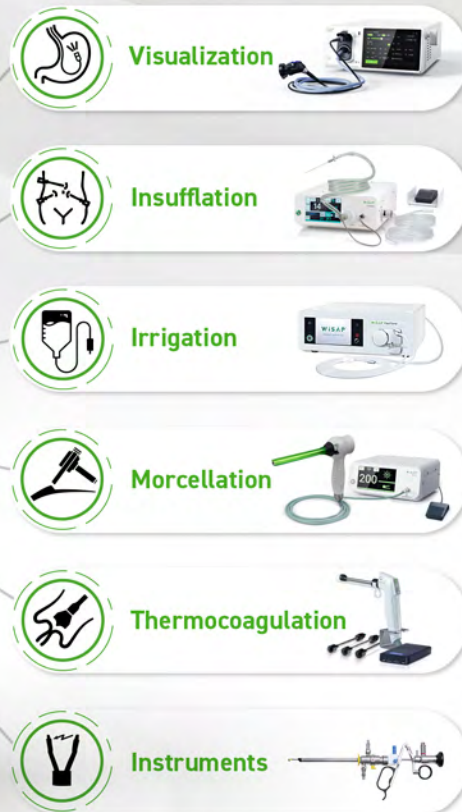


# WISAP Medical Technology

Pioneering for Minimally Invasive Surgery



## WISAP Technologies



Since 1959, WISAP has been developing and manufacturing medical technology for minimally invasive surgery. Shaped by Prof. Dr. Kurt Semm, one of the pioneers of modern laparoscopy, we combine German engineering, clinical understanding and advanced high-tech expertise.

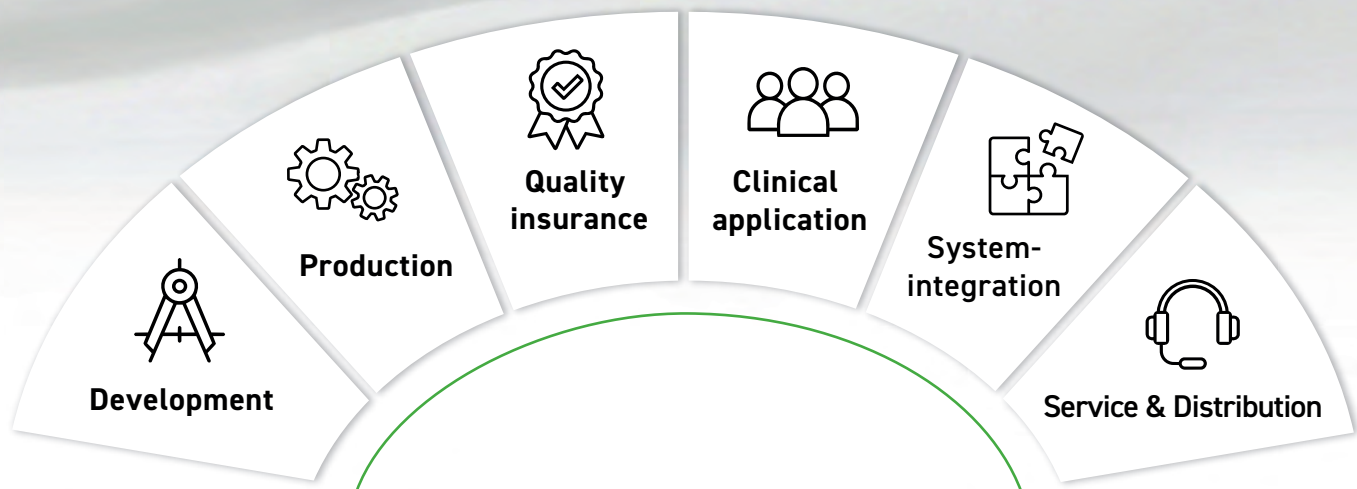
**German Quality.**  
**Smart Technology.**  
**Built for minimally invasive care.**

Our portfolio covers core technologies for laparoscopy, hysteroscopy, gynecology and general surgery — from insufflation, visualization and irrigation to morcellation, thermocoagulation and surgical instruments. Together, these technologies form practical system solutions for minimally invasive applications, developed for hospitals, clinical departments and partners worldwide.

## WISAP at a glance

 <p>since <b>1959</b></p>	 <p>approx. <b>50</b> Employees</p>	 <p>made in Germany</p>	 <p><b>ISO</b> 13485:2016</p>	 <p>Distribution in <b>50</b> Countries</p>
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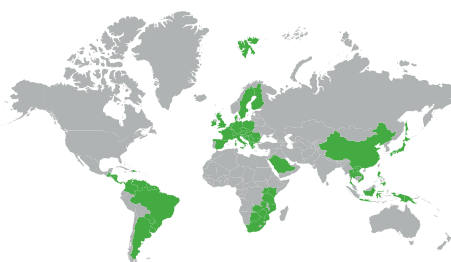
## WISAP capability







### WISAP Certified Quality

WISAP is a medium-sized medical technology company based in Brunenthal near Munich. We specialize in the manufacture of devices and instruments for minimally invasive surgery. We employ specialized professionals in all areas and manufacture our products exclusively in Germany. With TÜV SÜD Product Service GmbH as our notified body, WISAP has a strong partner to ensure consistent quality standards.

The company is certified according to EN ISO 13485:2016, and its products comply with the Medical Devices Directive 93/42/EEC. The corresponding certificates are available for download in the Info-center for registered users.



### Partner & Service

-  **Product Documentation**
-  **Technical Service & RMA**
-  **Training & Application**
-  **Distribution Support**

# Laparoscopic & Hysteroscopic Pump

## LAPAROSCOPIC & HYSTEROSCOPIC PUMP

The HYSTERO-PURATOR is a combined pump for HYSTEROSCOPY and LAPAROSCOPY. It is equipped with a high-resolution full color touchscreen which provides intuitive operation. In addition to pressure regulated irrigation function the pump unit offers suction function as standard.

HYSTERO-PURATOR is a fluid management system intended to provide distention, fluid irrigation and aspiration during diagnostic and surgical endoscopic procedures, as well as to monitor the volume difference between the irrigation fluid flowing into and out of the patient.

## ACCESSORIES

SUCTION CONTAINER 2 LITRES,  
AUTOCLAVABLE, NOT STERILE

HOLDER FOR SUCTION CONTAINER

IRRIGATION TUBING SET SILICON,  
AUTOCLAVABLE, NOT STERILE

SUCTION TUBE SILICONE,  
AUTOCLAVABLE, NOT STERILE

FOOTSWITCH COMPLETE  
WITH BATTERY CHARGER

BALANCE UNIT FOR HYS



## TECHNICAL DATA

## HYSTERO PURATOR

Compliance with standards	EN 6060-1 / IEC 60601-1	EN 6060-1-2 / IEC 60601-1-2
Water protection	IPX31	
Subbly Voltage / Frequency	100 - 240 V/AC / 50 - 60 Hz	
Power Input	700 - 400 mA	
Power consumption	100 VA	
Pressure range	Hysteroscopy 10 - 200 mmHg. +/- 10% Laparoscopy max.300 mmHg. +/-10%	from finale value
Flow range	Hysteroscopy 100 - 500 ml/min Laparoscopy 100 - 2200 ml/min	from finale value
Suction	Vacuum Flow	max.- 480 mmHg +/-10% max.2200 ml/min. (depending on outflow cannula)
Balance unit	Fluid loss detection Load on scale	0 - 2 l +/- 10%, relative to total inflow volume max.25 kg
Interfaces	Scale connection Servis port Wireless foot switch	RS 232 USB 1.1 Type A max range 20 m
Operating conditions	Temperature Rel. humidity Air pressure Max.operating altitude	+10...+ 40°C 15 - 75% non condensing 70 - 106 kPa 3000m above sea level
Storage and transportations conditions	Temperature Rel. humidity Air pressure	-20...+ 40°C, 10 - 85 % non condensing 70 - 106 kPa

## ORDER DATA

## HYSTERO PURATOR

## SET

1143-2	Basic pump unit set containing pump unit including LAP and HYSTERO functions, Suction container, autoclavable with holder, irrigation tubing set silicone, autoclavable, suction tubing set incl. filter, silicone, autoclavable, mains cable EUR, 2m and 2 spare fuses
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## ACCESSORIES

1143SS-2	Irrigation tubing set Silicone, autoclavable, non-sterile
1143SS-3	Suction tubing set Silicone, autoclavable, non-sterile
1143C-2	Suction container 2 liters, autoclavable, non-sterile
1143C-3	Holder for suction container
1143-2FS	Foot switch (battery charger included)
1143-2FS-LG	Foot switch battery charger
1143-2BU	Balance unit
1143-2BU-SCH	Scale pan for Balance unit
1143-21S-PS	Measuring chamber with pump segment, autoclavable, non-sterile
1143-21S-M	Spare membrane for measuring chamber, autoclavable, non-sterile
1143MD-3	Hydrophobic filter for suction tubing set, autoclavable non-sterile
1143-2S	Service key

# Laparoscopic Suction-Irrigation Pump

## Aqua-Purator

For surgical-therapeutic laparoscopy for irrigation of the abdominal cavity with physiological NaCl-solution.

- Instillation quantity is limited to 250 ml/10 sec.
- Suction capacity max. 2 l/min.
- Large-volume 1,25 liter secretion with graduation.
- Monofil-bivalent irrigation tubes alternatively allow to instill NaCl-solution or to absorb blood and tissue particles.



# Laparoscopic Suction-Irrigation Pump

## TECHNICAL DATA AQUA-PURATOR

Mains connection:	Standard: 230V - 50 /60 Hz Please indicate other requested voltages when ordering
Power input:	165 VA
Instillation pressure:	200 mmHg
Vacuum:	60-70%
Suction efficiency:	2 l/min
Instillation quantity:	1,5 l/min +/- 10%
Dimensions:	w x h x d = 550 x 110 x 230 mm, with accessories h = 400 mm
Weight:	with accessories approx. 6 kg
Casing:	Stainless steel, aluminium / white coated



## TECHNICAL DATA AQUA-PURATOR

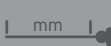
1610	Aqua-Purator including accessories:
1622-2	Secretion trap 1250 ml
1624 N	Lid for secretion trap, Filter, 1 pc.
1215	Secretion glass 50 ml
1216	Plastic support with washer
1634 NL	Puncture tube for NaCl-bottle, standard
1633 N	Pressure tubing set

## ORDER DATA STERILE SUCTION-IRRIGATION TUBING SET

1610SI	fitting to Aqua-Purator
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## ACCESSORIES PUNCTURE TUBE



	Puncture Tube with integrated pressure line, applicable with all NaCl-bottles
163 mm	1634 NK
173 mm	1634 NL1
211 mm	1634 NL2
240 mm	1634 NL

# Irrigation Accessories



## ORDER DATA

## ACCESSORIES

1608 SS	Tubing set with pump head, steam- and gas-sterilisable
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1609 PS	Pump head, steam- and gas-sterilisable
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1608 SSP	Tubing set for pump head
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1615 AS	Tubing set for Bif-suction-set and suction-irrigation tubes, 2,4 m, Ø 5 mm
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1608 SSA	Adaptor, steam- and gas-sterilisable
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1609 USE	Incision thorn, steam- and gas-sterilisable
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1637 SKR	Tubing clamp red, steam- and gas-sterilisable, 10 pcs.p.pack.
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# Suction-Irrigation Tubes

## Suction-Irrigation tubes

- Monofil-bivalent irrigation tubes - bifilar system - allow controlling of instillation quantity of saline solution or aspiration of saline solution and secretion through an aspiration system.
- Usable with every suction-irrigation system.

ORDER DATA

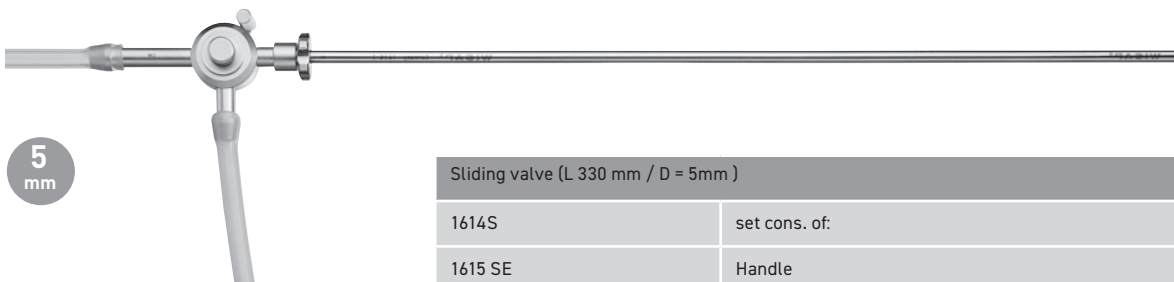
SUCTION IRRIGATION TUBES



5 mm

Squeezing valve (L 330 mm / D = 5mm )

1614	set cons. of:
1615 E	Handle
1615-1	Tube
1615 AS	Tubing set



5 mm

Sliding valve (L 330 mm / D = 5mm )

1614S	set cons. of:
1615 SE	Handle
1615-1	Tube
1615 AS	Tubing set

# Suction-Irrigation Tubes

ORDER DATA

SUCTION-IRRIGATION TUBE SET

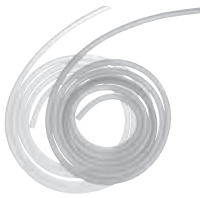


5 mm

10 mm

Suction-Irrigation tube set with large trumpet valve handle and 2 exchangeable tubes

1616 TN	Set consisting of:
1616 TEN	Handle part with trumpet valve
1616 T1	Suction Irrigation tube (D= 10mm)
1616 T5	Suction Irrigation tube (D= 5mm)
1616 AS	Tubing set L 2,4 m



ORDER DATA

TUBING SET

Tubing set for squeezing valve, sliding valve, pistol handle

1615 AS	Suction Irrigation tubing set (for 1614 / 1614S / 1614PN) / L 2,4 m
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Tubing set for trumpet valve



1616 AS	Suction Irrigation tubing set (for 1616 TN) / L 2,4 m
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# Suction-Irrigation Tubes



ORDER DATA

SUCTION IRRIGATION TUBES





 mm	 mm	Roundhole Sucker, with 4 drillings
330 mm	5 mm	1615-1

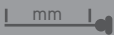



 mm	 mm	Roundhole Bee-Hive Sucker, with irrigation drillings
330 mm	5 mm	1615-2

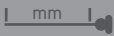



 mm	 mm	Edgeless Bee-Hive Sucker, with irrigation drilling
330 mm	5 mm	1615-3

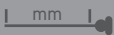



 mm	 mm	Edgeless Bee-Hive Sucker, with irrigation drillings
500 mm	5 mm	1615-4

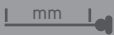



 mm	 mm	Puncture Needle Sucker
330 mm	5 mm	1615-5

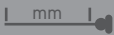



 mm	 mm	Aqua Dissector Cannula
330 mm	5 mm	1615-6

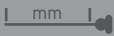



 mm	 mm	Edgeless Sucker, with irrigation drillings
330 mm	5 mm	1615-7



 mm	 mm	Roundhole Sucker, with 16 rinsing drillings
330 mm	5 mm	1615-9



 mm	 mm	Roundhole Sucker, with 4 drillings
500 mm	5 mm	1615-1L

# Handle parts



## ORDER DATA

## HANDLE PARTS

The following handle parts fitting with the suction-irrigation tubes from 1615-1 until 1615-9 can be offered separately:

1615 E	Squeezing valve
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1615 SE	Sliding valve
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1615 SSD	Fixation nut for rotary piston for 1615 SE
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1615 SED	Rotary piston for 1615 SE
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## PERSONAL NOTES

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## YOUR PERSONAL CONTACT PERSON

Distribution company





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