

UNIVERSAL SUCTION UNIT FOR  
THE OR AREA, INTENSIVE CARE UNITS  
AND SPECIAL WARDS MEDAP-BORA  
UP 2080 AND MEDAP-BORA UP 2080 OP

**MAQUET**  
GETINGE GROUP

SURGICAL WORKPLACES





## POWERFUL UNIVERSAL SUCTION UNITS FOR MOST MEDICAL APPLICATIONS MAQUET – THE GOLD STANDARD



**Trendsetting medical technology:** As one of the world's leading suppliers of products for the operating theatre and intensive care units, MAQUET focuses on always establishing trendsetting standards that combine the highest levels of innovation and economic efficiency. The two universal suction units BORA UP 2080 and BORA UP 2080 OP facilitate superior patient care at an optimised cost level.

Convincingly practical, lightweight and flexible, both BORA UP 2080 and BORA UP 2080 OP are perfectly integrated

into their respective working environment – in the operating theatre as well as in the intensive care units or special wards. With a high flow rate of 42 litres freeflow/minute and a high vacuum range of up to -90 kPa, they are suitable for most medical applications in the areas of surgical aspiration, septic fluid aspiration and curettage aspiration. Competence based on the responsibility for patient, physician and nursing staff.

MAQUET – The Gold Standard.

## MORE FREEFLOW, MORE OVERFLOW PROTECTION, MORE ECONOMIC EFFICIENCY BORA UP 2080 AND BORA UP 2080 OP

**All-round talents for the hospital:** Due to their high flexibility, BORA UP 2080 and BORA UP 2080 OP more than meet the most varied requirements in the operating theatre and the ward. Thus, the two space-saving, easily portable universal suction units quickly and reliably evacuate large quantities of blood and serous liquids – including the particles therein – from the wound area and from artificial body orifices.

**Reduced acquisition and operating costs:** For BORA UP 2080 and BORA UP 2080 OP, a flexible modular system has been developed that is highly application-oriented and at the same time superbly satisfies the demand for an optimised cost structure.



**The flexible modular system provides freedom of choice:**

The BORA modular system consists of BORA UP 2080 or BORA UP 2080 OP, an overflow protection system of your choice, practice-oriented application sets with or without integrated trolley and an extensive range of accessories.

**Powerful:** BORA UP 2080 and BORA UP 2080 OP are distinguished by a multitude of powerful performance features in addition to their easy handling – thanks to the modern design – and outstanding hygiene comfort:

**Ergonomic On/Off switch:**

- Easy to operate
- Hygienic film key pads
- With LED display (BORA UP 2080 OP only)

**Functional membrane valve (vacuum regulation):**

- Precisely adjustable from 0 to -90 kPa
- Ideal for any application in the OR area

**Modular overflow protection system:**

- Basic unit without overflow protection for an optimised cost structure
- Optional single or double protection against oversuction (overflow protection universal / overflow protection surgical)
- Flexible deployment for any application in the operating theatre and special ward

**Large vacuum gauge:**

- Easily read
- Optimal work height

*BORA UP 2080 OP: As OP version of the innovative suction device, BORA UP 2080 OP has a pneumatic foot switch and is thus optimally suited for use in surgical applications. The pneumatic foot switch ensures the energy-saving stand-by mode and provides a comfortable operation of the surgical aspirator.*



*BORA UP 2080: The lightweight, portable suction unit without pneumatic foot switch is small enough to be placed anywhere. For example, it can be put on practically any equipment table, mounted to a wall rail or suspended from the equipment rail of a pendant tableau.*

**Safe bacterial filter:**

- Located at the air outlet
- Protects the operating theatre against contamination

**Oilfree and maintenance-friendly drive unit:**

- More power
- Suitable for quiet continuous operation
- Maintenance only required after 3,000 hours of operation

**Two mechanical interfaces for equipment mount:**

- Meets European standard
- Includes protective covers to prevent soiling
- Simple attachment of up to 2 x 1.0/1.5 litre disposable or reusable septic fluid jars and/or overflow protection universal or surgical

**Two rail clamps at the back of the unit:**

- Space-saving connection to pendant tableaux or equipment rails 25 x 10 mm (German standard)

**Practical trolley – available as an accessory or as part of an application set:**

- With two standardized equipment rails 25 x 10 mm (German standard)
- Ideal for bowls or additionally attached catheter holder
- Four antistatic castors with two brakes
- Smooth running and 360-degree rotation
- Maximum transportation comfort
- Quick positioning
- Stability even with maximum fitting
- Room for variable mounting of 1.0/1.5/2.0/2.5/3.0/5.0 litre reusable or disposable septic fluid jars (see application sets)



## COMBINATION OF OPTIMUM SAFETY AND INDIVIDUAL REQUIREMENTS NEW MODULAR OVERFLOW PROTECTION SYSTEM



*Overflow protection universal: Ideal for short-term applications without continuous operation*



*Overflow protection surgical: Ensures highest level of protection against oversuction – particularly during continuous operation.*



*Powerful bacterial filter: Prevents contamination of operating theatre.*



*BORA UP 2080 (Standard Aspirator): With vacuum input adapter*

**Optional overflow protection:** In order to satisfy the application-specific requirements in the hospital or day surgery in a perfect manner, both BORA UP 2080 and BORA UP 2080 OP have an innovative, modular overflow protection system. This means that the suction unit is always protected against oversuction, independent of the selected overflow protection alternative. In addition, it also supports a quick and simple filter replacement even during the OR operation.

**Basic version without overflow protection device:** In the basic version, neither BORA UP 2080 nor BORA UP 2080 OP have an overflow protection device. This option is always recommended when disposable septic fluid jars with integrated hydrophobic overflow protection are being used. Here, the tube silicone is directly connected to the tube nipple.

**Overflow protection universal:** The dual overflow protection with a novel overflow jar with integrated float and separate hydrophobic bacterial and viral filter (disposable) is the right choice for predominantly short-term applications without continuous operation.

**Application set Overflow protection universal:**

Consisting of

- Hydrophobic bacterial and viral filter (disposable)
- Mechanical overflow protection device with equipment mount and bottle PSU
- Tube silicone 6 x 12 mm, length 1 meter



*BORA UP 2080 OP: With disposable septic fluid jar with integrated hydrophobic filter – no further overflow protection necessary*



*BORA UP 2080 OP: With overflow protection universal and reusable septic fluid jar*



*BORA UP 2080 OP: With overflow protection surgical and reusable septic fluid jar*

**Overflow protection surgical:** This dual overflow protection device is equipped with a particularly powerful hydrophobic bacterial and viral filter in the lid of the overflow protection, providing virtually 100% protection for BORA UP 2080 and BORA UP 2080 OP and thus ensuring the highest degree of protection against oversuction – especially during continuous operation. The hydrophobic bacterial and viral filter used here is autoclavable at 134° C several times – provided it is not heavily soiled by particles.

**Application set Overflow protection surgical:**

It consists of

- Hydrophobic bacterial and viral filter for overflow protection
- Mechanical overflow protection device with chamber for hydrophobic filter and equipment mount
- Tube silicone 6 x 12 mm, length 1 meter

**Hygienically safe:** No contamination of the operating theatre due to the powerful bacterial filter at the air outlet. Simple and quick disinfection of the smooth surface, all parts that coming into contact with body fluids (except hydrophobic bacterial and viral filter (disposable)) are autoclavable at 134° C – BORA UP 2080 and BORA UP 2080 OP meet all clinical hygiene requirements perfectly, thus simplifying the daily hospital routine.

## BORA UP 2080 AND BORA UP 2080 OP APPLICATION SETS SEPTIC FLUID ASPIRATION

**Universal suction units for the daily hospital routine:** The variety of possible accessories and application sets shows that BORA UP 2080 and BORA UP 2080 OP are able to respond flexibly to the most diverse requirements. In this way, the two all-round talents can be universally deployed, as required, in the operating theatre or in special wards and intensive care units.

### AS Septic fluid aspiration / portable / 1 l / Medi-Vac (Art.-No. 57 524 941):

- Holder for Medi-Vac outer container 1 / 1.5 l
- Medi-Vac outer container (Flex) 1 l

### Recommended accessories:

AS Overflow protection universal (Art.-No. 57 524 558)

### COMPLETE LIST OF ALL AVAILABLE AS SEPTIC FLUID ASPIRATORS REUSABLE / DISPOSABLE

Reusable		
Septic fluid jar size	portable Art.-No.	on trolley Art.-No.
1 l	57 524 874 57 523 400	57 523 401
2.5 l		57 522 948
3 l		57 522 947
5 l		57 522 946

Septic fluid jar size	Medi-Vac		Serres
	portable Art.-No.	on trolley Art.-No.	on trolley Art.-No.
1 l	57 524 941	57 524 942	
2 l			57 524 943



BORA UP 2080 OP: Basic version with disposable septic fluid jar



AS Septic fluid aspiration / portable / 1 l / Medi-Vac (Art.-No. 57 524 941) with Medi-Vac inner liner 1 l disposable



AS Overflow protection universal: Overflow jar with integrated float and external hydrophobic bacterial and viral filter (disposable)



## BORA UP 2080 AND BORA UP 2080 OP APPLICATION SETS SURGICAL ASPIRATION



BORA UP 2080 OP: With reusable septic fluid jar for surgical aspiration

**Variety in harmony:** No two BORA assemblies are identical – in addition to the Application sets surgical aspiration mentioned here, the extensive range of accessories offers the option of freely selectable combinations at any time.

### AS Surgical aspiration / on trolley / 2 x 3 l / CF-proof (Art.-No. 57 522 957):

- Trolley for BORA UP 2080 OP
- Septic fluid plastic jar 3 l PSU
- Septic fluid jar cap (with integrated fixation for equipment rails 25 x 10 mm (German standard), without overflow protection)
- Cap plug surgical 9/12 (plastic)

### Recommended accessories:

AS Overflow protection surgical (Art.-No. 57 522 546)

### COMPLETE LIST OF ALL AVAILABLE AS SURGICAL ASPIRATION DEVICES ON TROLLEY / REUSABLE / DISPOSABLE

Septic fluid jar size	reusable	CF-proof reusable	Medi-Vac disposable
	Art.-No.	Art.-No.	Art.-No.
2 x 1 l	57 523 404		
2 x 1.5 l			57 524 945
2 x 2.5 l		57 522 958	
2 x 3 l		57 522 957	57 524 944
2 x 5 l		57 522 956	



AS Surgical aspiration / on trolley / 2 x 3 l / CF-proof (Art.-No. 57 522 957)



AS Overflow protection surgical: Overflow jar with integrated hydrophobic bacterial and viral filter

## BORA UP 2080 AND BORA UP 2080 OP APPLICATION SETS CURETTAGE ASPIRATION

**Perfect for individual demands:** The two universal suction units BORA UP 2080 and BORA UP 2080 OP must be fitted with the corresponding application sets in order to be usable as curettage aspirators. In addition to the application sets mentioned here, it is possible to put together specifically selected combinations from the range of individual accessories.

### AS Curettage aspiration / portable / 1 l

(Art.-No. 57 524 876):

- Septic fluid plastic jar 1 l PSU with equipment mount
- Septic fluid jar cap (with integrated mechanical overflow protection)
- Filter sieve

### AS Curettage aspiration / on trolley / 1 l

(Art.-No. 57 524 877):

- Trolley for BORA UP 2080
- Septic fluid plastic jar 1 l PSU with equipment mount
- Septic fluid jar cap (with integrated mechanical overflow protection)
- Filter sieve

### Recommended accessories:

AS Overflow protection universal (Art.-No. 57 524 558)



*BORA UP 2080 OP: With reusable septic fluid jar for curettage aspiration*



*AS Curettage aspiration / on trolley / 1 l / (Art.-No. 57 524 877)*



*AS Overflow protection universal: Overflow jar with integrated float and external hydrophobic bacterial and viral filter (disposable)*

# FLEXIBLE MODULAR SYSTEM FOR HOSPITAL AND NON-HOSPITAL AREAS

## TECHNICAL SPECIFICATIONS AND ACCESSORIES



Trolley for BORA UP 2080 and BORA UP 2080 OP

**BORA UP 2080 Standard Aspirator:** The basic unit includes a vacuum gauge, vacuum regulator, bacterial filter, two inserts to cover the mechanical interface and a carrying handle, complete with two rail clamps for attachment to equipment rails 25 x 10 mm (German standard).

**BORA UP 2080 OP Standard Aspirator:** As version BORA UP 2080, but with additional pneumatic foot switch for energy-saving stand-by mode.

### TECHNICAL SPECIFICATIONS

	BORA UP 2080	BORA UP 2080 OP
Displacement	42 l/min	42 l/min
Vacuum	-90 kPa at sea level	-90 kPa at sea level
Voltage	230 V AC / 115 V AC	230 V AC / 115 V AC
Frequency	50 – 60 Hz / 60 Hz	50 – 60 Hz / 60 Hz
Input current	0,8 A	0,8 A
Power consumption	160 W	160 W
Mode of operation	continuous operation	continuous operation
Fuses	T 1.6 A H / T 3.15 A H	T 1.6 A H / T 3.15 A H
Dimensions	360 x 310 x 310	460 x 520 x 1060
L x W x H in mm		(including trolley)
Weight	11 kg	23 kg (including trolley)
Sound pressure level	50.5 dB (A)	50.5 dB (A)

Product versions	Art.-No.
BORA UP 2080 230 V / 50 – 60 Hz	57 522 296
BORA UP 2080 115 V / 60 Hz	57 522 302
BORA UP 2080 OP 230 V / 50 – 60 Hz	57 522 301
BORA UP 2080 OP 115 V / 60 Hz	57 522 303

Recommended accessories	Art.-No.
AS Overflow protection universal	57 524 558
AS Overflow protection surgical	57 522 546

Further accessories	Art.-No.
Trolley for BORA UP 2080	57 522 809
Catheter holder for trolley	57 508 002
Bowl for trolley, rectangular	57 507 991
Bowl for trolley, round	57 524 538
Holder for septic fluid jar 2.5 / 3 l for trolley	57 520 179
Septic fluid glass jar 5 l	57 505 228
Septic fluid plastic jar 3 l PSU	57 505 297
Septic fluid glass jar 2.5 l	57 505 227
Septic fluid jar 1 l PSU with equipment mount	57 522 313
Septic fluid plastic jar 1 l PSU	57 505 296
Septic fluid jar cap (with integrated mechanical overflow protection)	57 505 362
Septic fluid jar cap (with integrated fixation for equipment rails 25 x 10 mm (German standard), w/o overflow protection)	57 500 390
Septic fluid jar cap with filter sieve holder and integrated mechanical overflow protection	57 505 364
Cap plug surgical 9/12 (chrome plated)	57 500 396
Cap plug surgical 9/12 (plastic)	57 520 184
Filter sieve for septic fluid jar cap 57 505 364	57 505 371
Mechanical overflow protection device with equipment mount and bottle PSU	57 522 391
Mechanical overflow protection device with chamber for hydrophobic filter and equipment mount	57 522 392
Hydrophobic bacterial and viral filter (disposable)	57 524 514
Hydrophobic bacterial and viral filter for overflow protection device	57 521 783
Medi-Vac outer container (Flex) 3 l	57 502 459
Medi-Vac outer container (Flex) 1.5 l	57 502 458
Medi-Vac outer container (Flex) 1 l	57 502 457
Holder for Medi-Vac outer container 3 l	57 520 188
Holder for Medi-Vac outer container 1 / 1.5 l	57 520 187
Medi-Vac inner liner 3 l / disposable (50 pieces)	57 524 932
Medi-Vac inner liner 1.5 l / disposable (50 pieces)	57 524 933
Medi-Vac inner liner 1 l / disposable (50 pieces)	57 524 934
Serres outer container 3 l	57 522 045
Serres outer container 2 l	57 522 044
Serres outer container 1 l	57 522 537
Serres inner liner 3 l / disposable (24 pieces)	57 524 935
Serres inner liner 2 l / disposable (24 pieces)	57 524 936
Serres inner liner 1 l / disposable (36 pieces)	57 524 937
FINA rail clamp for equipment mount, metal	57 522 048
FINA rail clamp for equipment mount, plastic	57 522 540
Vacuum serial tube silicone, 175 mm with T-connector, autoclavable	57 522 084
Serial tube 287 mm with angle blue	57 522 085
Vacuum shift	57 522 049
Adapter for connection of vacuum connection tubes, d=6-8 mm with pump exit BORA	57 522 295
AS Rinsing jar for trolley	57 524 554

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# MAQUET

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