

# Units and modules



## Legend

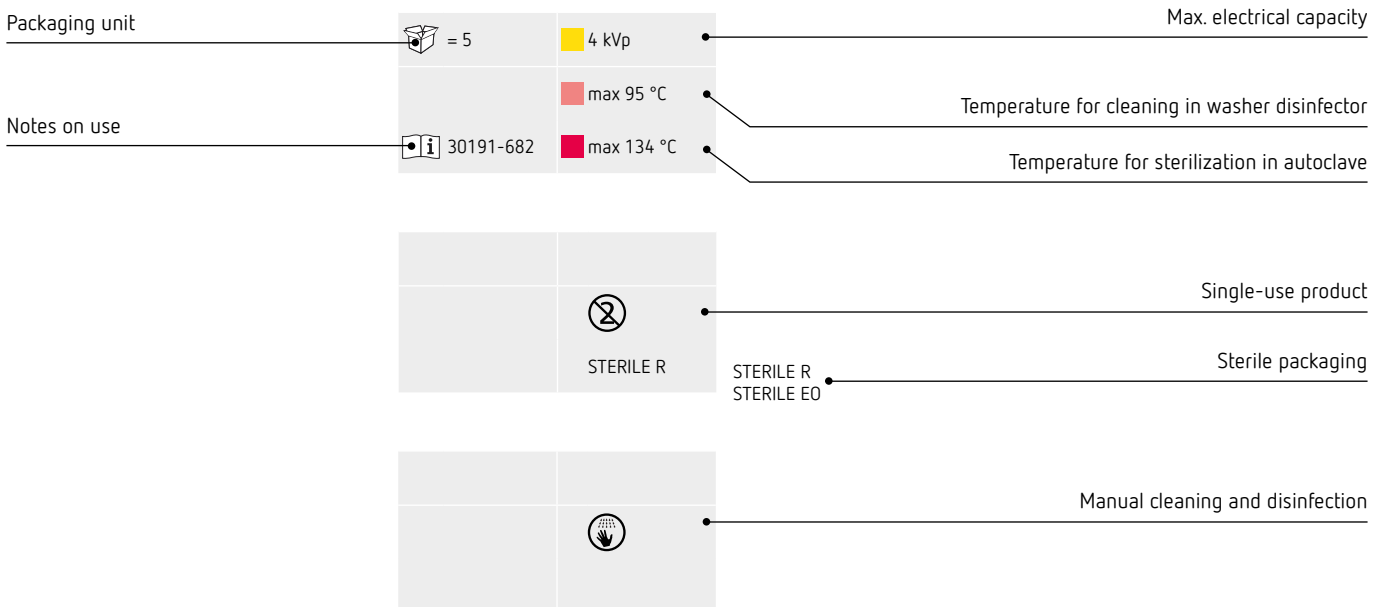
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The data on the use of instruments is based on clinical experience. Medical science is subject to a process of permanent change based on research and clinical experience. Therefore the products are subject to alterations in design and technique. Because of production tolerances dimensions in the catalogue may marginally differ.

### Further product information



Please read carefully the corresponding notes on use before using any instrument.

# Units and modules

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## Electrosurgery

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- 04 VIO® 3 and socket modules
- 05 VIO® D, S, C and socket modules
- 09 Modes and Upgrades for VIO® D, S, C
- 10 Application areas
- 11 Modules

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## Plasmasurgery

---

- 13 Modules

---

## Hydro-surgery

---

- 14 Units and modules

---

## Cryosurgery

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- 15 Units

VIO® 3  
VIO® 300/200 D  
VIO® 300/200 S  
VIO® 100/50 C

APC 3  
APC 2

IES 3  
EIP 2  
VEM 2

ERBEJET® 2  
ESM 2

ERBECRYO® 2

# Electrosurgery

## VIO® 3

### VIO® 3

VIO® 3 is yet another of our milestones in technology following VIO® 300/200. Take advantage of the progress that using VIO® 3 provides you and your patients.

- Logical, convenient and visual operator guidance (stepGUIDE)
- ReMode: Up to 6 different settings selectable from the sterile field
- Reliable, reproducible tissue effects thanks to state-of-the-art processor technology
- Sockets: Easy replacement, connection recommendations, slot assignment



### No. 10160-000

CUT	COAG
autoCUT	preciseSECT
highCUT	swiftCOAG
dryCUT	softCOAG
autoCUT bipolar	forcedCOAG
highCUT bipolar	sprayCOAG
endoCUT Q	twinCOAG
endoCUT I	softCOAG bipolar
	forcedCOAG bipolar
	thermoSEAL
	forcedAPC
	pulsedAPC
	preciseAPC

## Socket modules for VIO® 3

Socket modules	No.
MF-U, as an upgrade kit	20160-005
MF-0, as an upgrade kit	20160-004
MO 3Pin-9/5, as an upgrade kit	20160-001
MO 3Pin-Bovie, as an upgrade kit	20160-002
BI 2Pin 22-28-8/4, as an upgrade kit	20160-003
NE 6 - NE 2Pin, as an upgrade kit	20160-006

# Electrosurgery

## VIO® D

### VIO® 300 D

In addition to vessel sealing, the high-end unit from the VIO® product range offers all APC modes and all available CUT and COAG modes (either as a standard mode in the unit or as an upgrade)

- Simple and interactive operation using the TFT display
- Automatic power adjustment for all control technologies
- Variable configuration of socket assignment
- Additional upgrades available for specific medical specialties



### No. 10140-100

#### Upgrades

PRECISE Upgrade - PRECISE CUT - BIPOLEAR PRECISE CUT - PRECISE COAG - BIPOLEAR PRECISE COAG	29140-217
ENDO CUT Upgrade - ENDO CUT Q - ENDO CUT I	29140-218
TWIN COAG Upgrade - TWIN COAG - Argon TWIN COAG	29140-216
BiClamp Upgrade	29140-214

### VIO® 200 D

VIO® electrocautery unit for endoscopy and other disciplines with all APC modes and other COAG modes for endoscopy, ENDO CUT I and Q as an upgrade

- Simple and interactive operation using the TFT display
- Automatic power adjustment for all control technologies
- Variable configuration of socket assignment
- Additional upgrades available for specific medical specialties



### No. 10140-200

#### Upgrades

PRECISE Upgrade - PRECISE CUT - BIPOLEAR PRECISE CUT - PRECISE COAG - BIPOLEAR PRECISE COAG	29140-217
ENDO CUT Upgrade - ENDO CUT Q - ENDO CUT I	29140-218
DRY CUT Upgrade - DRY CUT - Argon DRY CUT	29140-215

# Electrosurgery

## VIO® D

### VIO® 300 S

Universal VIO® electrosurgical unit based on different variants. For many surgical specialities with the most important CUT and COAG modes as well as FORCED APC, with optional ENDO CUT I and Q

- Direct operation using the segment display
- Automatic power adjustment for all control technologies
- Variable configuration of socket assignment



### No. 10140-300

#### Upgrades

ENDO CUT Upgrade - ENDO CUT Q - ENDO CUT I	29140-218
TWIN COAG Upgrade - TWIN COAG - Argon TWIN COAG	29140-216

### VIO® 200 S

VIO® electrosurgical unit for many electrosurgical procedures and for specialist medical practices with the most important CUT and COAG modes as well as FORCED APC, with optional ENDO CUT I and Q

- Direct operation using the segment display
- Automatic power adjustment for all control technologies
- Variable configuration of socket assignment



### No. 10140-400

#### Upgrades

ENDO CUT Upgrade - ENDO CUT Q - ENDO CUT I	29140-218
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# Electrosurgery

## VIO® C

### VIO® 100 C

VIO® compact electrosurgical unit for use in surgical practice with the most important CUT and COAG modes (100 watt unit)

**No. 10140-500**

- Direct operation using the segment display
- Monopolar cutting
- Monopolar and bipolar coagulation



### VIO® 50 C

VIO® compact electrosurgical unit for use in surgical practice with the most important CUT and COAG modes (50 watt unit)

**No. 10140-550**

- Direct operation using the segment display
- Monopolar cutting
- Monopolar and bipolar coagulation



# Electrosurgery

## Socket modules for VIO® D, S and C

Bipolar sockets (BI)		No.
2Pin-22-28-8/4 mm		20140-613
Monopolar sockets (MO)		No.
3Pin-Bovie		20140-622
3Pin-9/5 mm		20140-623
Multifunctional socket (MF) for VIO® 300 D only		No.
multifunctional		20140-630
Neutral electrode sockets (NE)		No.
6 mm-2Pin		20140-642

Socket modularity						
	VIO® 300 D	VIO® 200 D	VIO® 300 S	VIO® 200 S	VIO® 100 C	VIO® 50 C
Slot 1	BI	BI	BI	BI	BI	BI
Slot 2	MO, BI, MF	MO, BI	MO	MO	MO	MO
Slot 3	MO, MF	MO	MO	MO	-	-
Slot 4	NE	NE	NE	NE	NE	NE



# Electrosurgery

Modes and Upgrades for VIO® D, S, C

CUT	VIO® 300 D	VIO® 200 D	VIO® 300 S	VIO® 200 S	VIO® 50/100 C
AUTO CUT	■	■	■	■	■*
HIGH CUT	■	-	○	-	-
DRY CUT	■	▣	○	-	■*
DRY CUT°	■	-	○	-	-
BIPOLAR CUT	■	■	○	-	-
BIPOLAR CUT +	■	-	-	-	-
BIPOLAR CUT ++	■	-	-	-	-
PRECISE CUT	▣	▣	-	-	-
BIPOLAR PRECISE CUT	▣	▣	-	-	-
ENDO CUT Q	▣	▣	□	□	-
ENDO CUT I	▣	▣	□	□	-
ARGON AUTO CUT	■	■	■	■	-
ARGON HIGH CUT	■	-	○	-	-
ARGON DRY CUT	■	▣	○	-	-
ARGON DRY CUT°	■	-	○	-	-

COAG	VIO® 300 D	VIO® 200 D	VIO® 300 S	VIO® 200 S	VIO® 50/100 C
SOFT COAG	■	■	○	■	■*
SWIFT COAG	■	■	○	-	-
SWIFT COAG°	■	-	○	-	-
CLASSIC COAG	■	-	■	-	-
FORCED COAG	■	■	○	■	■*
SPRAY COAG	■	-	■	-	-
BIPOLAR SOFT COAG	■	■	■	■	■*
BIPOLAR SOFT COAG +	■	-	-	-	-
BIPOLAR SOFT COAG ++	■	-	-	-	-
BIPOLAR FORCED COAG	■	■	-	-	-
PRECISE COAG	▣	▣	-	-	-
BIPOLAR PRECISE COAG	▣	▣	-	-	-
TWIN COAG	▣	-	□	-	-
BICLAMP	▣	-	-	-	-
FORCED APC	■	■	■	■	-
PRECISE APC	■	■	-	-	-
PULSED APC	■	■	-	-	-
ARGON SOFT COAG	■	■	○	■	-
ARGON SWIFT COAG	■	■	○	-	-
ARGON SWIFT COAG°	■	-	○	-	-
ARGON FORCED COAG	■	■	○	■	-
ARGON TWIN COAG	▣	-	□	-	-

**Legend:**

■ included  
○ depending on the version

▣ upgradeable  
□ only available ex factory (must be ordered)

\* modified modes,  
power adjustment only

# Electrosurgery

## Application areas

	VIO® 3	VIO® 300 D	VIO® 200 D	VIO® 300 S	VIO® 200 S	VIO® 50/100 C
Gynecology	■	■	-	▣	-	▣
Urology	■	■	-	▣	-	■
General surgery	■	■	-	▣	-	■
Gastroenterology / Endoscopy	■	▣	■	▣	▣	-
Pulmonology	■	▣	■	▣	▣	-
ENT	▣	■	-	▣	-	■
Orthopedics	■	■	-	▣	-	■
Dermatology	■	■	-	-	▣	■
OMS	■	■	▣	▣	-	■
Ophthalmology	-	-	-	-	▣	■

*For practices in hospitals and outpatient operations*

*Clinics/Practices*

**Legend:**

- strongly recommended
- ▣ recommended

# Electrosurgery

## Modules

IES 3 Smoke evacuation unit, 100–240 V AC ( $\pm 10\%$ ), without main filter cartridge

**No. 10323-000**

- Protection through ULPA-15 filter
- Good response, quiet operation
- Extended range of applications
- Flexible activation

*The main filter cartridge is not included in the scope of delivery.*




Main filter cartridge IES 3 with connection  $\varnothing 22$  mm

**No. 20323-000**



 = 1



 80114-801

## Modules

### EIP 2, irrigation pump for endoscopic procedures

Endoscopic irrigation pump for irrigating the target tissue

**No. 10325-000**

- Activation via footswitch or via the user interface on the unit
- 3 quick access options for irrigation level (30 %, 50 % and 80 % irrigation)
- Values can be changed individually and quickly
- Additional irrigation catheter often not required



### VEM 2, VIO® extension module

Additional module for extended VIO® socket assignment

**No. 10141-000**

- 2 additional sockets can be connected to the VIO® electrosurgical unit
- As a result, more flexibility in selecting socket assignment

*only for VIO® D/S*



## Modules

### APC 3

No. 10135-000

The benefits of the logical and intuitive VIO® 3 interface are now also available with APC 3. As your stepGUIDE, the interface guides you through each menu, suggesting experienced starting settings for APC applications.

- All APC modes are integrated into the VIO® 3: pulsedAPC®, forcedAPC and preciseAPC®
- The APC socket – your connection for APC filtered instruments
- Besides the APC socket, an additional multifunctional socket is provided for further instruments. For the first time, this allows you to connect and use up to 6 instruments as required for your procedure.



only for VIO® 3

### APC 2

No. 10134-000

Effective coagulation of bleeding, as well as devitalization of changes in tissue

- 3 APC modes: FORCED APC, PRECISE APC, PULSED APC (see table on page 9)
- Non-contact procedure, instrument tips cannot become clogged
- Even effects with coagulation and devitalization
- Good dosage accuracy, resulting in greater safety during application
- Low risk of perforation
- Argon-supported cutting
- Minimum carbonization, minimum development of smoke plume, good visibility of the target area



only for VIO® D/S

# Hydrosurgery

## Units and modules

### ERBEJET® 2

Selective dissection of tissue, layer-specific elevation of tissue layers

No. 10150-000

- Basic module for hybrid technology
- Applications include general or abdominal surgery, gastroenterology, urology
- Protects blood vessels, nerves and organs
- High degree of tissue selectivity enables exposure and dissection of tissue layers
- Minimized bleeding, controlled management of bleeding



### ESM 2, suction module

Suction module for the waterjet surgery unit (ERBEJET 2)

No. 10340-000

- Individual or automatic suction for waterjet application
- Clear view of the target operating area



# Cryosurgery

## Units

ERBECRYO® 2

No. 10402-000

Cryosurgical unit for cryobiopsy, recanalization and cryo-devitalization

- Application with flexible cryoprobes
- Superior tissue samples in terms of quality and quantity
- No crush artifacts or hemorrhages
- High diagnostic weighting
- Supports endobronchial and transbronchial biopsy
- Coolant: carbon dioxide (CO<sub>2</sub>)



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Erbe Elektromedizin GmbH  
Waldhoernlestrasse 17  
72072 Tuebingen  
Germany

Phone +49 7071 755-0  
info@erbe-med.com  
erbe-med.com  
medical-videos.com