

CRYO SURGERY
ERBOKRYO® CA

CRYO SURGERY –
VERSATILE AND EFFECTIVE.



ERBE

Perfection for Life

ERBOCRYO® CA – OFFERS BENEFITS FOR APPLICATIONS IN MANY SPECIALTIES.



The ERBOCRYO CA is an interdisciplinary cryo system which operates according to the principle of the Joule-Thomson effect. The basic principle: the expansion of a pressurized gas will result in a drop in temperature. During cryotherapy the low temperature is transferred to the target tissue via applicators or probes used to devitalize or remove tissue anomalies.

The freezing process is activated by pressing the footswitch. Within 5 seconds the minimum freezing temperature is reached. Deactivation (release of the footswitch) will terminate the freezing stage. The probe will unfreeze within 5 seconds without any electrical heating.

The advantages at a glance



- ❖ Numerous indications treatable using wide selection of cryoprobes and probe tips, useful in many surgical specialties
- ❖ Many interventions can be carried out on an outpatient basis without anesthesia
- ❖ No bleeding during treatment or when the necrotized tissue is shed
- ❖ Almost no scarring after healing
- ❖ Coolant: nitrous oxide (N₂O) or carbon dioxide (CO₂)
- ❖ All cryoprobes can be steam autoclaved up to 134° C (short cycle)





Phlebology

During the cryostripping of varicose veins the probe is inserted via an incision and pushed forward until reaching the point of insufficiency and the varicose

veins are subsequently extracted. The spasm induced by the cold reduces the formation of hematomas along the entire length of the vein and contributes to the thrombotic obliteration of the vessel, giving optimum cosmetic result postoperatively.

Additional advantages: reduced risk of damage to nerves, short operating times, cost-effective procedure.



Interventional bronchoscopy

The cryo technique is a simple and effective method for immediate recanalization of stenoses in the tracheo-bronchial tract.

Benign and malign tumors as well as foreign bodies are frozen to the flexible cryoprobe and extracted via an endoscope. No full anesthesia required.

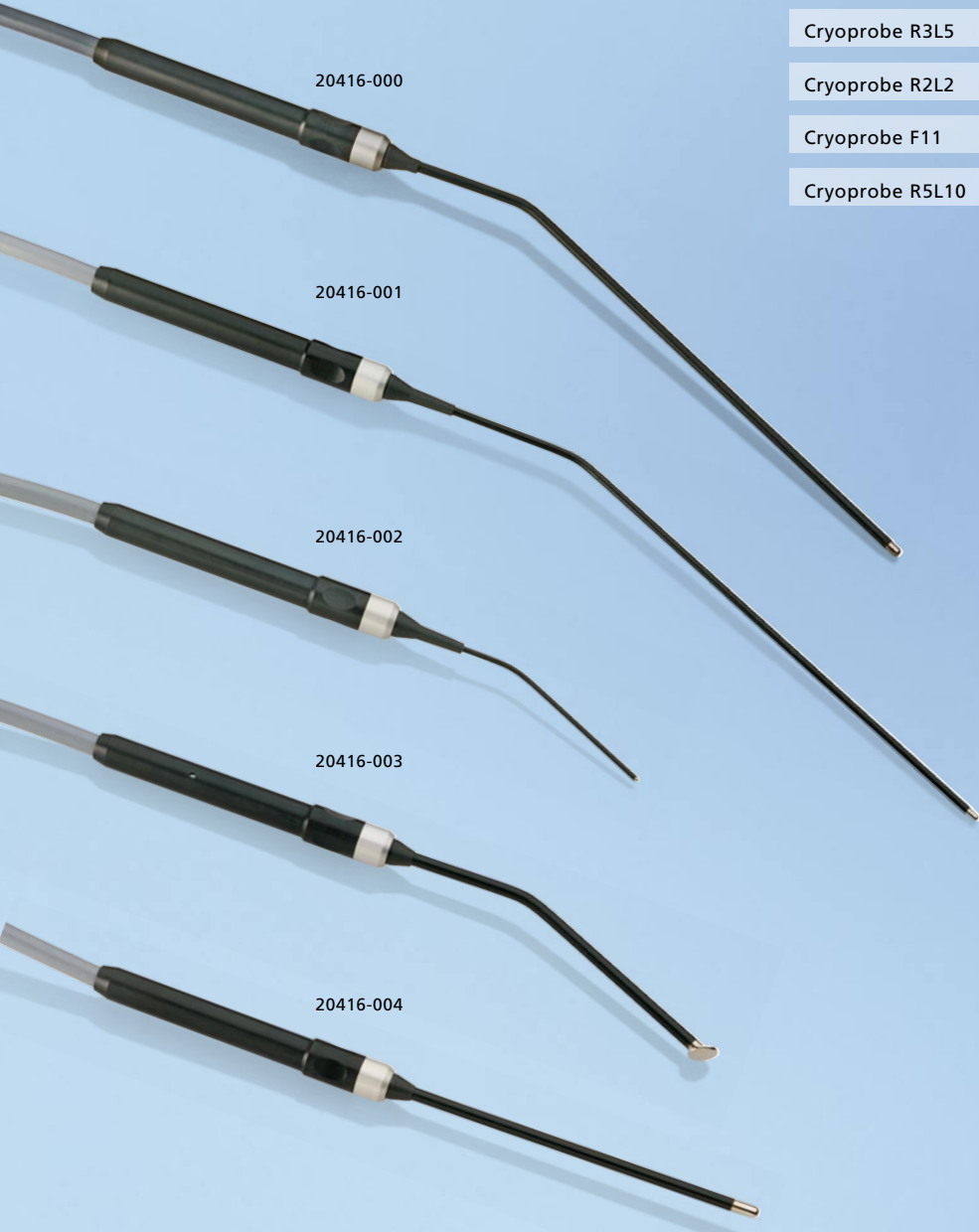
Cryo surgery for biopsies

In addition to the recanalization of stenoses of the respiratory tract the cryoprobe can be used to take biopsies in the respiratory passages. Cryoprobe biopsies are far superior to forceps biopsies with respect to both size and suitability for histological assessment.

Areas of application for the ERBOKRYO CA

- ✦ Pneumology: bronchial stenoses, cryo recanalization, cryo biopsies
- ✦ Phlebology: varicose veins of the lower limbs (cryostripping)
- ✦ Thoracic surgery: postoperative cryo analgesia (cryo devitalization of the intercostal nerve)
- ✦ Gynecology: cervical ectopias and condylomas
- ✦ Proctology: inner hemorrhoids of the first and second degree, acute anal fissures
- ✦ ENT: hemangiomas, papillomas, etc.
- ✦ Dermatology: warts, condylomas, etc.

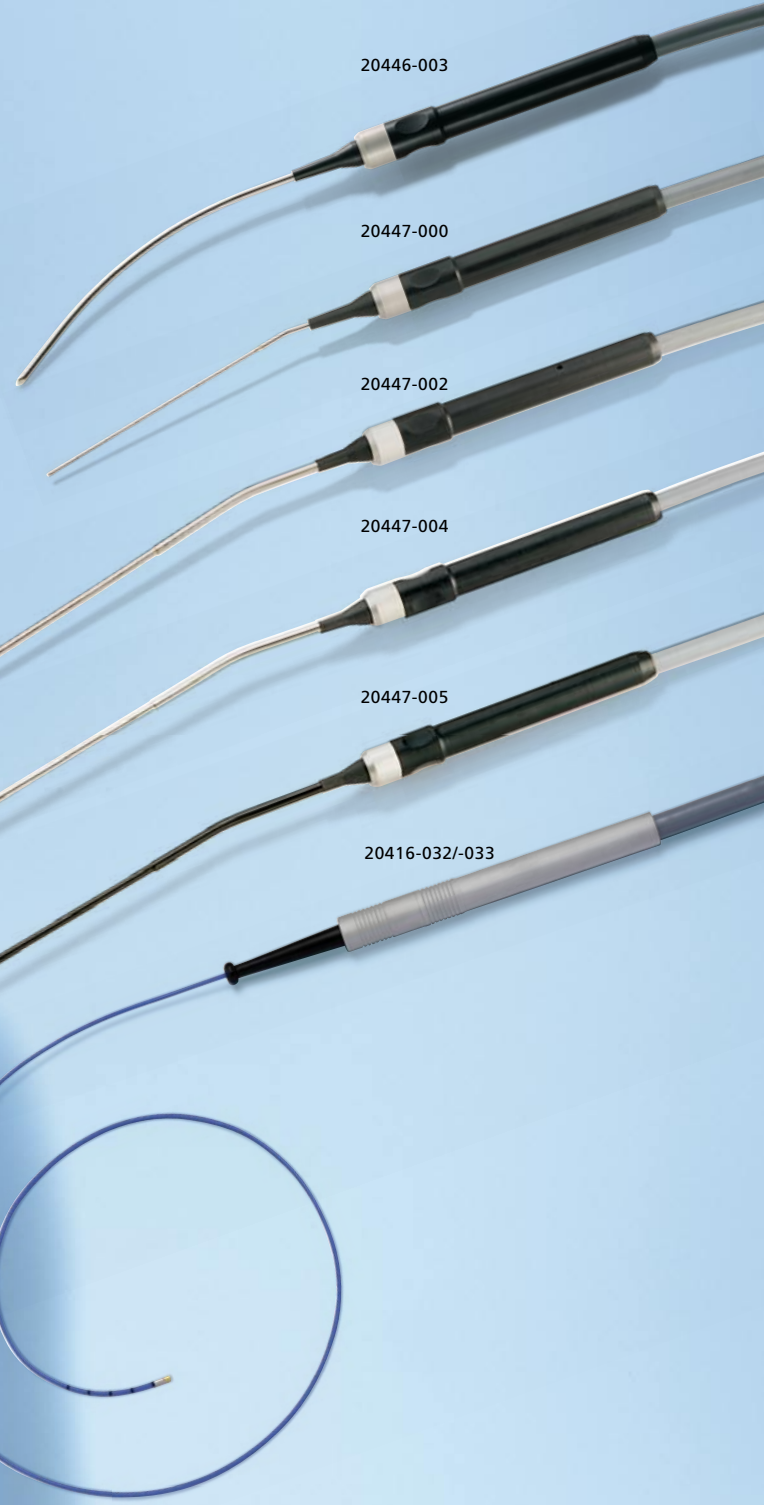
LARGE CHOICE OF APPLICATORS, PROBES ...



Cryoprobe R4L5	20416-000
Cryoprobe R3L5	20416-001
Cryoprobe R2L2	20416-002
Cryoprobe F11	20416-003
Cryoprobe R5L10	20416-004



Cryoanalgesia probe, trocar, angled, Ø 0.3 mm	20446-003
Angiology cryoprobe Ø 1.5 mm, L 80 mm	20447-000
Angiology cryoprobe Ø 2.5 mm, L 200 mm	20447-002
Angiology cryoprobe Ø 3.5 mm, L 550 mm	20447-004
Bronchoscopy cryoprobe Ø 3.0 mm, L 530 mm	20447-005



20446-003

20447-000

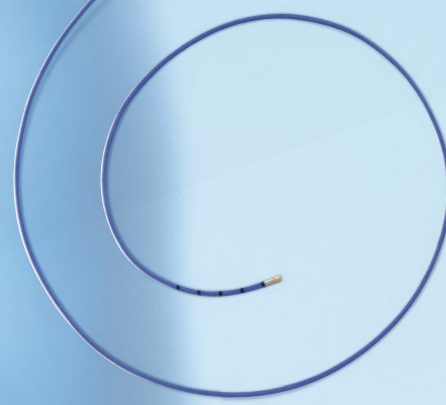
20447-002

20447-004

20447-005

20416-032/-033

Flexible cryoprobe, Ø 2.4 mm, L 900 mm	20416-032
Flexible cryoprobe, Ø 2.4 mm, L 780 mm	20416-033
Connecting adapter for flexible cryoprobes (Erbokryo CA and AE)	20416-034



20416-034

... AND PROBE TIPS.



20420-010



20420-012



20420-013



20420-014



20420-015



20420-016



20420-020



20420-021



20420-022



20420-023



20420-024

Cryo probe tip Ø3L2.6	20420-010
Cryo probe tip Ø9.5; conic	20420-012
Cryo probe tip Ø9.5; oval	20420-013
Cryo probe tip; portio ectopy	20420-014
Cryo probe tip; portio ectopy	20420-015
Cryo probe tip Ø19; flat	20420-016
Cryo probe tip; portio ectopy	20420-020
Cryo probe tip; portio ectopy	20420-021
Cryo probe tip; portio ectopy	20420-022
Cryo probe tip; portio ectopy	20420-023
Cryo probe tip Ø18L23.5	20420-024
Multipurpose probe, L 180 mm, incl. tip 20420-012	20416-006
Multipurpose probe, L 60 mm, incl. tip 20420-012	20416-005



ORDER NUMBERS/TECHNICAL DATA.



ERBOKRYO CA 230 V, with mains cable and cart	10448-000
ERBOKRYO CA 115 V, with mains cable and cart	10448-003
ERBOKRYO CA 120 V/UL, with mains cable and cart	10448-004
Footswitch, explosion-proof	20711-008
Footswitch, non explosion-proof	20711-009
Cylinder cover for N ₂ O cylinders, (German standard)	20410-039
Sterilizing box for cryopencils, small	20410-034
Sterilizing box for cryopencils, large	20410-035
Gas hose	20448-000
Gas filter N ₂ O R 3/8"	20410-006
Gas filter for CO ₂ W 21.8 x 1/14" r	20410-010
Filter cartridges	20410-008
Cylinder connector for N ₂ O	20410-001
Cylinder connector (UK, Greece)	20410-002
Cylinder connector for CO ₂	20410-003
Cylinder connector (GB, F, USA) pin index 3+5 for N ₂ O	20410-005
Cylinder connector M 22 x 1.5 (CIS)	20410-013
Cylinder connector for Russia for CO ₂ M 26 x 1.5	20410-016
Cylinder connector (GB, F, USA) for CO ₂	20410-011
Cylinder connector for Mexico	20410-040

Mains connection	100/120 V, 115 V, 230 V, +/- 10 %, 50/60 Hz
Coolant	N ₂ O or CO ₂
Operating pressure	40–60 bar
Gas consumption for freezing	ca. 35 g–50 g/min
Gas consumption for defrosting	ca. 3 g
max. exhaust gas volume	40–60 l/min
Dimensions incl. cart	327 x 960 x 400 mm = W x H x D
Net weight	13.2 kg
Max. absorbed power	35 Watt

Subject to alterations

CRYOSURGERY

ELECTROSURGERY

WATERJETSURGERY

OPHTHALMIC SURGERY

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