To Purchase, Visit Avolus.com or

USER MANUAL

USER MANUAL

SystemCarrier
compact / compact plus

To Purchase, Visit Avopus.com or

Erbe
ERBE
HYBRI , PULSED APC, REMODE, senseAPD, SOFT COAG,
SWIFT

Trade

Erbe l eroRinse, THE TRUE BLUE PROBE FOR APC,
THE TRUE BLUE PROBE FOR ARGON PLASMA COAGULATION and the color blue for APC probes.

Trademarks™

Erbe USA, Inc. uses these trademarks: APC 360° Circumferential Probe, AUTO START, AUTO STOP, BIPOLAR COAG, BIPOLAR CUT, DRY CUT, dryCUT, EIP, ESM, FORCED APC, forcedAPC, highCUT, KYRON, POWER PEAK SYSTEM PPS, preciseSECT, PULSED COAG, PULSED CUT, SPRAY COAG, sprayCOAG.

For an up-to-date list of all Erbe trademarks, please visit www.erbe-med.com/IP.

Caution: Federal law (USA) restricts this device to sale, distribution, or use by or on the order of a physician.

CE

REF No. 20180-100, 20180-101

Erbe reserves all rights to this user manual, in particular rights of reproduction, distribution, and translation. No part of this user manual may be reproduced in any form or processed, duplicated, or distributed by use of electronic systems without prior written permission of Erbe Elektromedizin GmbH.

The information contained in this user manual can be changed or expanded without prior notice and without obligation on the part of Erbe Elektromedizin GmbH.

The images in this user manual may differ in some details from your product.

Copyright © Erbe Elektromedizin GmbH, Tübingen 2025

Table of Contents

1 General instructions for use 7
Intended use / indications for SystemCarrier compact, compact plus 7
Compatibility of SystemCarrier compact 7
Compatibility of SystemCarrier compact plus 7
Intended patient population 7
Contraindications 8
Side effects 8
Environment 8
Qualification of user 8
Performance characteristics 8

2 Safety instructions 9
Meaning of the safety instructions 9
Meaning of the note 9
Who must read this user manual? 9
Compliance with safety instructions 10
Structure of safety instructions 10
Operating errors and incorrect installation by persons without training 10
Risks due to the environment 11
Electric shock, only applies to SystemCarrier compact plus 11
Burns 13
Risk of injury due to installation of incompatible units or accessories 13
Risk of injury due to damage to the cart and accessories 14
Risk of infection 15
Notes 15

3 Description of the elements of the SystemCarrier compact 17

4 Description of the elements of the SystemCarrier compact plus . . 21

5 Operation 25
Checking the cart 25
Installation of units, gas bottles, and accessories 25
Pushing the cart 25
Braking the cart 26
Using the shelf for two-pedal footswitch, footswitch holders, and cable holders 27
Using the SystemCarrier compact storage compartments 27
Using the SystemCarrier compact plus gas bottle compartment 27
SystemCarrier compact plus power fuses 28

6 Cleaning and disinfection 29
Safety instructions 29
Selecting a suitable cleaner and disinfectant 29
Supplies 30
Cleaning 30

80180-054_V26539
2025-11

Disinfection 30
Validated procedure for cleaning and disinfection 31

7 Technical data for SystemCarrier compact 33

8 Technical data for SystemCarrier compact plus 35

9 Maintenance, Customer Service, Warranty, Disposal 37
Maintenance 37
Customer service 37
Warranty 38
Disposal 38

10 Accessories 39
Accessories for SystemCarrier compact, compact plus 39
Compatible power cords 39

11 Spare parts for SystemCarrier compact 41

12 Spare parts for SystemCarrier compact plus 43

13 Symbols 45

80180-054_V26539
2025-11

To purchase, visit Avopus.com or

use

This user manual describes the normal use of the cart.

Please observe the Warnings in Chapter 2.

Intended use / indications for SystemCarrier compact, compact plus

The SystemCarrier compact and compact plus are intended to accommodate Erbe units and accessories.

Compatibility of SystemCarrier compact

The SystemCarrier compact is intended for use with the following units:

	VIO C	VIO 200 S	VIO 300 S	VIO 300 D	VIO 3n	VIO 3
EIP 2	- (VIO C only without EIP 2)	●	●	●	●	●

Do not connect any other units to the SystemCarrier compact.

Compatibility of SystemCarrier compact plus

The SystemCarrier compact plus is intended for use with the following units:

	VIO 200 S	VIO 300 S	VIO 300 D	VIO 3n	VIO 3
EIP 2	●	●	●	●	●
APC 2	●	●	●	-	-
APC 3	-	-	-	●	●

Do not connect any other units to the SystemCarrier compact plus.

Intended patient population

No restrictions.

80180-054_V26539
2025-11

Contraindications

No known contraindications.

Side effects

No known side effects.

Environment

For the intended use, the cart must only be operated in premises used for medical purposes.

Qualification of user

For the intended use, the cart must only be operated by medical personnel who have been trained in the use of the cart on the basis of the user manual.

Performance characteristics

This is an accessory for a medical device. There are no clinical performance characteristics.

80180-054_V26539
2025-11

Chapter 2
Safety instructions

80180-054_V26539
2025-11

Meaning of the safety instructions

⚠ DANGER

indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE

indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Meaning of the note

"Note:"

Refers a) to manufacturer's information that relates directly or indirectly to the safety of people or protection of property. The information does not relate directly to a risk or dangerous situation.

Refers b) to manufacturer's information that is important or useful for operating or servicing the unit.

Who must read this user manual?

Knowledge of the user manual is absolutely essential for correct operation and installation of the cart.

The user manual must therefore be read by everyone who works with the cart, installs units on it, or attaches accessories to it.

Anyone who prepares, disassembles, cleans, or disinfects the cart must also read the user manual.

To purchase, visit Avopus.com or

ducts that are used with cart.

ions

Working with medical technology unit is associated with certain risks to patients, medical personnel, and the environment. Risks cannot be entirely eliminated by design measures alone.

Safety does not depend solely on the unit. Safety depends largely on the training of medical personnel and correct operation of the unit.

The safety instructions in this chapter must be read, understood, and applied by everyone who prepares, disassembles, cleans, or disinfects the cart.

Anyone who installs units on it or attaches accessories to it must also read, understand, and apply the safety instructions.

Structure of safety instructions

The safety instructions are structured based on the following risks:

- Operating errors and incorrect installation by persons without training
- Risks due to the environment
- Electric shock, only applies to SystemCarrier compact plus
- Burns
- Risk of injury due to installation of incompatible units or accessories
- Risk of injury due to damage to the cart and accessories
- Risk of infection
- Notes

80180-054_V26539
2025-11

Operating errors and incorrect installation by persons without training

⚠ WARNING

Incorrect operation of the cart, incorrect installation of units and accessories

Risk to the medical personnel and to the installer! Risk of material damage.

⇨ The cart must only be used by persons who have been trained on how to use the cart properly according to this user manual.

⇨ Units and accessories on the cart must only be installed by employees of Erbe or by persons trained by Erbe. Both of these groups must comply with the user manual and the assembly instructions.

⇨ Instruction and training must only be provided by persons who are suitable on the basis of their knowledge and practical experience.

⇨ In case of doubt or if you have any questions, please contact Erbe USA. You will find the addresses in the address list at the end of this user manual.

Risks due to the environment

NOTICE

Unsuitable temperature or humidity during transport or storage

If you transport or store the cart at an unsuitable temperature or level of humidity, it may be damaged.

⇨ Transport and store the cart at a suitable temperature and level of humidity. You will find the tolerances for temperature and humidity in the Technical Data.

⇨ If other ambient conditions have to be observed for transport and storage of the cart, you will also find them in the Technical Data.

NOTICE

Unsuitable temperature or level of humidity during operation

If you operate the cart and unit at an unsuitable temperature or level of humidity, they may sustain damage, fail, or not perform properly.

⇨ Operate the cart and unit at a suitable temperature and level of humidity. You will find the tolerances for temperature and humidity in the Technical Data.

⇨ If other ambient conditions have to be observed for operation of the cart and unit, you will also find them in the Technical Data.

NOTICE

Overheating of a unit or units on the cart due to poor ventilation

If ventilation is bad, units can overheat, sustain damage, and fail.

⇨ Install units on the cart to ensure that there is an unobstructed circulation of air around the housing. Do not install the unit in confined spaces.

Electric shock, only applies to SystemCarrier compact plus

⚠ WARNING

Damaged cart or modified cart

Risk of electric shock and other injuries to medical personnel! Risk of material damage.

⇨ Check the cart for damage every time before using it. You must not use a damaged cart.

⇨ If the cart is damaged, please contact Erbe USA.

⇨ For your safety and that of the patient: Never attempt to perform repairs or make changes yourself. Any modification will exclude liability on the part of Erbe Elektromedizin GmbH.

80180-054_V26539
2025-11

⚠ WARNING

Defective grounded power outlet, power supply network without proper grounding, inferior-quality power cord, incorrect line voltage, multiple power outlets, extension cords

Risk of electric shock and other injuries to medical personnel! Risk of material damage.

- ⇨ Connect the unit/cart to a properly installed grounded power outlet.
- ⇨ Use the compatible Erbe power cord (see the *Accessories, Compatible power cords* chapter).
- ⇨ Check the power cord for damage. You must not use a damaged power cord.
- ⇨ The line voltage must match the voltage specified on the unit's rating plate.
- ⇨ Do not use multiple power outlets.
- ⇨ Do not use extension cords.

⚠ WARNING

Connection of unit/cart and power supply during cleaning and disinfection

Risk of electric shock for the medical personnel!

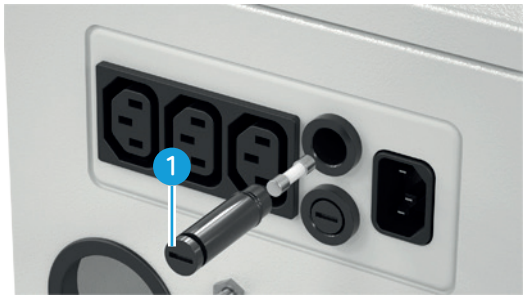
- ⇨ Switch off the unit. Unplug the power plug of the unit/cart.

⚠ CAUTION

Incorrect power fuse

The power supply cable may get hot – risk of burns.

- ⇨ Power fuses for adapting the unit configuration on the cart must only be installed by a competent technician. Only fuses that have the same rating as the one specified on the rating plate of the cart must be used.
- ⇨ Blown power fuses may only be replaced by a competent technician. Only use spare fuses with the same rating as specified on the cart rating plate.
- ⇨ See below for the fuse insert with fuse (1).



80180-054_V26539
2025-11

To purchase, visit Avolus.com or

CAUTION

rs

ct the discharge capacity of the casters. A spark may ignite flammable gases.

Risk of injury to the medical personnel! Risk of material damage.

⇨ Keep casters free of foreign substances.

Risk of injury due to installation of incompatible units or accessories

⚠ CAUTION

Units or accessories that are not compatible are installed on the cart. Improper items are placed on or in the cart.

Units, accessories, and items may fall off.

Risk of injury to the medical personnel! Risk of material damage.

⇨ Only install units specified in the section on compatibility.

⇨ Only install accessories specified in the chapter on compatibility.

⇨ Only use compatible footswitches for the footswitch holder and footswitch shelf.

⇨ Only load the storage compartments of the SystemCarrier compact with 15 kg (33.1 lbs) max. per compartment.

⇨ Only load the gas bottle compartment of the SystemCarrier compact plus with a gas bottle weighing 15 kg (33.1 lbs) max.

⚠ CAUTION

Units not listed in the compatibility section are connected to the auxiliary power outlets. Units not installed on the cart are connected to the auxiliary power outlets.

The power supply cable may get hot – risk of burns.

⇨ Only connect units to the auxiliary power outlets that are specified in the compatibility section and that are installed on the cart.

⇨ See below for the auxiliary power outlets (1).

1

80180-054_V26539
2025-11

Risk of injury due to damage to the cart and accessories

⚠ WARNING

Damaged cart or modified cart

Risk of electric shock and other injuries to medical personnel! Risk of material damage.

- ⇨ Check the cart for damage every time before using it. You must not use a damaged cart.
- ⇨ If the cart is damaged, please contact Erbe USA.
- ⇨ For your safety and that of the patient: Never attempt to perform repairs or make changes yourself. Any modification will exclude liability on the part of Erbe Elektromedizin GmbH.

⚠ CAUTION

The handle on the cart is used for lifting and carrying the cart

The handle can break off. The handle is only designed for pushing and pulling the cart.

Risk of injury to the medical personnel! Risk of material damage.

- ⇨ Do not lift or carry the cart with the handle.

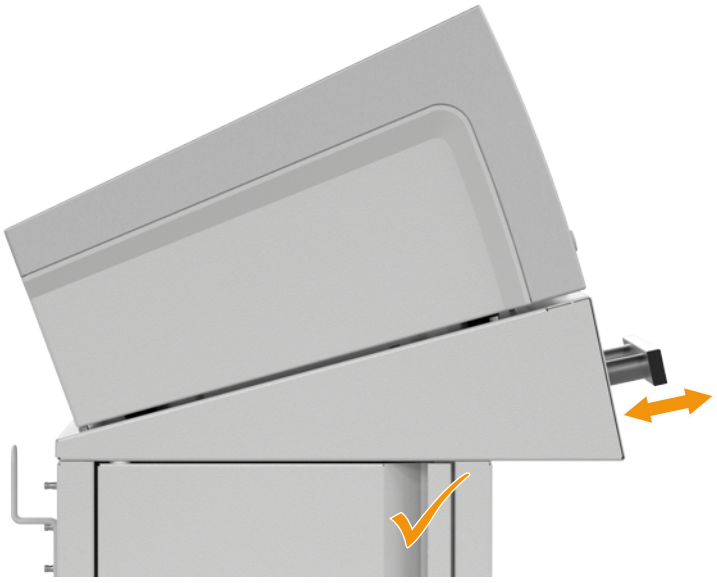
⚠ CAUTION

The cart is not pushed or pulled using the handle

Units or accessories may fall off.

Risk of injury to the medical personnel! Risk of material damage.

- ⇨ Close the door before moving the cart.
- ⇨ Pull and push the cart only with the handle. See image below.
- ⇨ Do not push against the units.



80180-054_V26539
2025-11

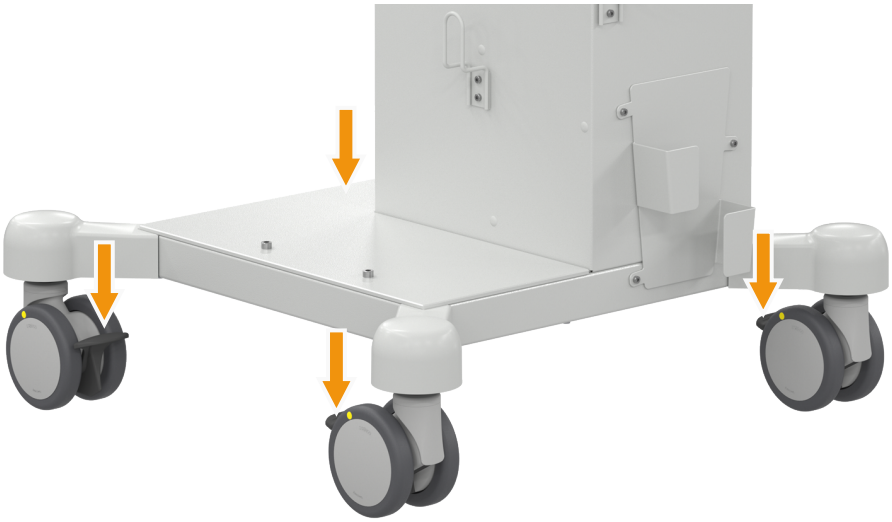
⚠ CAUTION

The casters are not fixed with the brakes.

The cart may move unintentionally.

Risk of injury to the medical personnel! Risk of material damage.

⇨ Lock the brakes on all four casters.



⚠ CAUTION

The gas bottle was not secured with the fixing strap

The gas bottle could fall over.

Risk of injury to the medical personnel! Risk of material damage.

⇨ Secure the gas bottle with the fixing strap.

Risk of infection

⚠ WARNING

The cart is contaminated

Risk of infection for the medical personnel.

⇨ Make sure no liquid can penetrate the cart.

⇨ Do not place vessels containing liquids on top of the cart.

⇨ Follow the instructions for cleaning and disinfecting the cart.

⚠ WARNING

Alternate use of disinfectant solutions with different active ingredients

The agents may affect one another. The disinfectant action of the disinfectant solutions may be weakened. Risk of infection for the medical personnel.

⇨ Do not alternate the use of these substances.

Notes

Grounding

Note: If necessary, connect the grounding pin of the unit or the cart to the grounding system of the operating room using a grounding cable.

80180-054_V26539
2025-11

To Purchase, Visit Avopus.com or

80180-054_V26539
2025-11

Chapter 3
Description of the elements of the SystemCarrier compact

80180-054_V26539
2025-11

(1) Handle

For pushing or pulling the cart.

80180-054_V26539
2025-11

Note: Different combinations are possible when mounting the footswitch holders on the cart. The figure shows two possible combinations.

(2) **Brake**

For braking the caster wheels. Each caster wheel is equipped with a brake.

(3) **Footswitch holder for one-pedal footswitches for VIO electrosurgical units**

Holder for one-pedal footswitches for the VIO 200 S, VIO 300 S, VIO 300 D, VIO 3n, VIO 3 units.

(4) **Footswitch holder for one-pedal footswitch for EIP 2 or VIO C**

Holder for one-pedal footswitches for the EIP 2, VIO C units.

(5) **Shelf for the two-pedal footswitch**

Holder for two-pedal footswitches for the VIO C, VIO 200 S, VIO 300 S, VIO 300 D, VIO 3n, VIO 3 units.

(6) **Cable holder for footswitch cable and power cord**

For winding up footswitch cable or power cord.

(7) **Grounding terminals**

For connecting the grounding pins of the units and for connecting the cart to the grounding terminal of the operating room.

To purchase, visit Avolus.com or

(8) Cart door

Closes the storage compartments.

(9) Storage compartments

For storage of suitable items. The maximum load per compartment is 15 kg (33.1 lbs).

80180-054_V26539
2025-11

80180-054_V26539
2025-11

Chapter 4
Description of the elements of the SystemCarrier compact plus

80180-054_V26539
2025-11

(1) Handle

For pushing or pulling the cart.

To purchase, visit Avolus.com or

80180-054_V26539
2025-11

Note: Different combinations are possible when mounting the footswitch holders on the cart. The figure shows two possible combinations.

(2) **Brake**

For braking the caster wheels. Each caster wheel is equipped with a brake.

(3) **Footswitch holder for one-pedal footswitches for VIO electrosurgical units**

Holder for one-pedal footswitches for the VIO 200 S, VIO 300 S, VIO 300 D, VIO 3n, VIO 3 units.

(4) **Footswitch holder for one-pedal footswitch for EIP 2**

For holding a one-pedal footswitch for the EIP 2 unit.

(5) **Shelf for the two-pedal footswitch**

Holder for two-pedal footswitches for the VIO 200 S, VIO 300 S, VIO 300 D, VIO 3n, VIO 3 units.

(6) **Cable holder for footswitch cable and power cord**

For winding up footswitch cable or power cord.

(7) **Grounding terminals**

For connecting the grounding pins of the units and for connecting the cart to the grounding terminal of the operating room.

(8) Opening

For feeding through the gas tube of the gas bottle and the high-pressure sensor line.

(9) Auxiliary power outlets

Only connect units to the auxiliary power outlets that are specified in the compatibility section and that are installed on the cart. Use the compatible Erbe power cord (see the *Accessories, Compatible power cords* chapter).

(10) Power fuses

Blown power fuses may only be replaced by a competent technician. Only use spare fuses with the same rating as specified on the cart rating plate.

(11) Power connection

Connect the cart to a properly installed, grounded power outlet. Use the compatible Erbe power cord (see the *Accessories, Compatible power cords* chapter).

(12) Cart door

Closes the gas bottle compartment.

80180-054_V26539
2025-11

(13) Gas bottle compartment

For holding a gas bottle.

80180-054_V26539
2025-11

To Purchase, Visit Avopus.com or

Checking the cart

⚠ WARNING

Damaged cart or modified cart

Risk of electric shock and other injuries to medical personnel! Risk of material damage.

- ⇨ Check the cart for damage every time before using it. You must not use a damaged cart.
- ⇨ If the cart is damaged, please contact Erbe USA.
- ⇨ For your safety and that of the patient: Never attempt to perform repairs or make changes yourself. Any modification will exclude liability on the part of Erbe Elektromedizin GmbH.

Installation of units, gas bottles, and accessories

The installation is described in the assembly instructions.

Pushing the cart

⚠ CAUTION

The handle on the cart is used for lifting and carrying the cart

The handle can break off. The handle is only designed for pushing and pulling the cart.

Risk of injury to the medical personnel! Risk of material damage.

- ⇨ Do not lift or carry the cart with the handle.

⚠ CAUTION

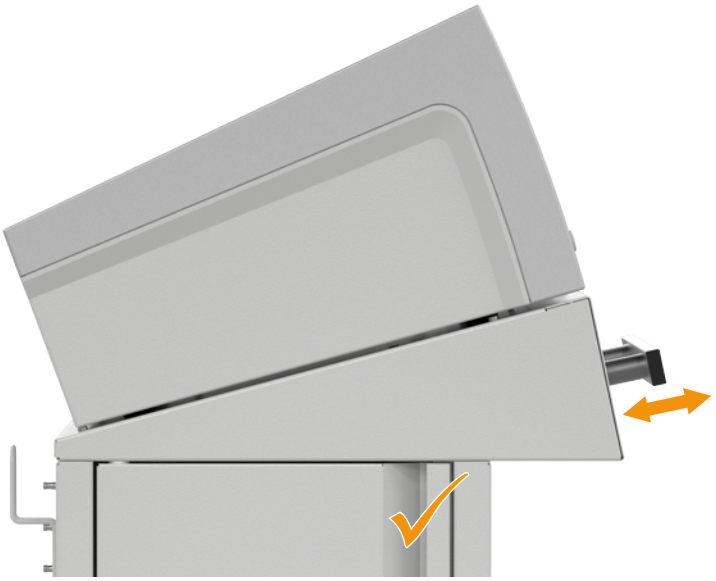
The cart is not pushed or pulled using the handle

Units or accessories may fall off.

Risk of injury to the medical personnel! Risk of material damage.

- ⇨ Close the door before moving the cart.
- ⇨ Pull and push the cart only with the handle. See image below.
- ⇨ Do not push against the units.

80180-054_V26539
2025-11



➢ Close the door before moving the cart.

➢ Push or pull the cart only with the handle. Do not push against the units.

Braking the cart

⚠ CAUTION

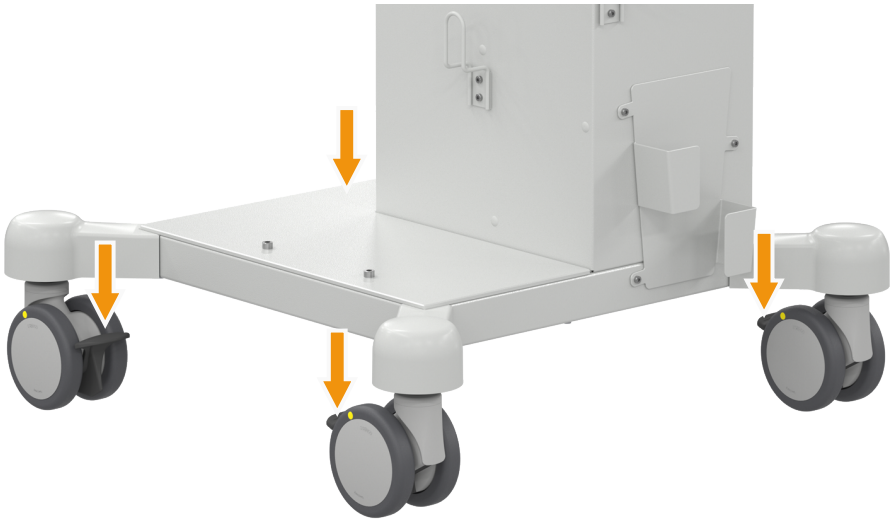
The casters are not fixed with the brakes.

The cart may move unintentionally.

Risk of injury to the medical personnel! Risk of material damage.

⇨ Lock the brakes on all four casters.

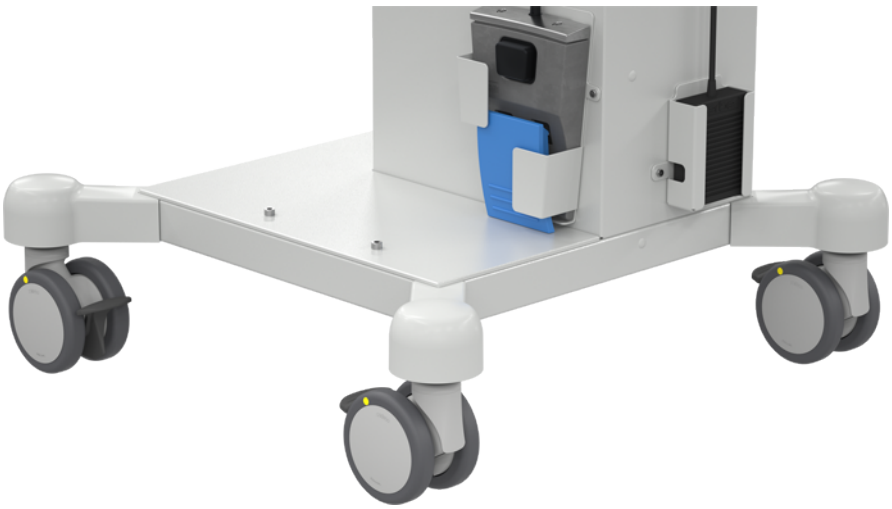
80180-054_V26539
2025-11



➢ Lock all four caster wheels with the brakes when the cart is in the required position.

Using the shelf for two-pedal footswitch, footswitch holders, and cable holders

➢ Place the two-pedal footswitch on the shelf.



➢ Insert the one-pedal footswitch into the correct footswitch holders.

➢ Wind the footswitch cable and power cord around the cable holders.

Using the SystemCarrier compact storage compartments

Use the storage compartments for suitable items. The maximum load per compartment is 15 kg (33.1 lbs). Close the door before moving the cart.

Using the SystemCarrier compact plus gas bottle compartment

The gas bottle compartment can hold one gas bottle weighing up to maximum 15 kg (33.1 lbs). The maximum diameter is 172 mm (6.77”); the maximum height is 740 mm (29.1”).

80180-054_V26539
2025-11

To purchase, visit Avolus.com or

ION

– risk of burns.

⇨ Power fuses for adapting the unit configuration on the cart must only be installed by a competent technician. Only fuses that have the same rating as the one specified on the rating plate of the cart must be used.

⇨ Blown power fuses may only be replaced by a competent technician. Only use spare fuses with the same rating as specified on the cart rating plate.

⇨ See below for the fuse insert with fuse (1).

80180-054_V26539
2025-11

Chapter 6
Cleaning and disinfection

Safety instructions

⚠ WARNING

Connection of unit/cart and power supply during cleaning and disinfection

Risk of electric shock for the medical personnel!

⇨ Switch off the unit. Unplug the power plug of the unit/cart.

⚠ WARNING

The cart is contaminated

Risk of infection for the medical personnel.

⇨ Make sure no liquid can penetrate the cart.

⇨ Do not place vessels containing liquids on top of the cart.

⇨ Follow the instructions for cleaning and disinfecting the cart.

⚠ WARNING

Alternate use of disinfectant solutions with different active ingredients

The agents may affect one another. The disinfectant action of the disinfectant solutions may be weakened. Risk of infection for the medical personnel.

⇨ Do not alternate the use of these substances.

⚠ CAUTION

Foreign substances on casters

Foreign substances may affect the discharge capacity of the casters. A spark may ignite flammable gases.

Risk of injury to the medical personnel! Risk of material damage.

⇨ Keep casters free of foreign substances.

Selecting a suitable cleaner and disinfectant

The following categories of cleaners and disinfectants should not cause any damage to the surfaces of unit or cart when used properly:

- Alcohol-based agents
- Agents based on guanidine
- Agents based on active oxygen-based per compounds
- Agents based on peracetic acid

80180-054_V26539
2025-11

- Chlorine-based agent with up to 3 % bleach

Frequent use of the above-mentioned agents may cause harmless discoloration of surfaces.

Do not use cleaners or disinfectants containing the following substances:

- Sodium hydroxide, strong organic acids, and strong oxidizing agents

These substances may attack metal parts due to their corrosive effect.

- Quaternary ammonium cations, phenolic compounds (e.g., phenoxyethanol)
- Solvents and benzine

These substances damage plastics.

Supplies

- Ready-for-use wipes with a cleaner or disinfectant solution.

or

- Low-lint single-use wipes moistened before cleaning or disinfection with a suitable product.

Use different wipes for cleaning and disinfecting.

Cleaning

Use only cleaners that comply with relevant national standards. Observe the manufacturer's specifications for the cleaner, particularly regarding material compatibility. If you use different products for cleaning and disinfection, the products must be compatible with each other.

1. Prepare the cleaner solution in a concentration specified by the manufacturer. Moisten low-lint single-use wipes with the cleaner solution.
2. Or use ready-for-use cleaning wipes with a cleaner solution.
3. Wipe the surfaces thoroughly.
4. Ensure that the surfaces are completely wetted.
5. Leave the cleaning agent to work as specified by the manufacturer (exposure time).
6. Keep the surfaces wet throughout the entire exposure time. Use additional wipes if needed.
7. Clean all visible contamination (e.g., blood) off the surfaces. Residual contamination may reduce the effectiveness of the subsequent disinfection.
8. Visually inspect all surfaces after cleaning. If you find any residual contamination, repeat cleaning until all contamination has been removed.

Note: If you cannot carry out a full clean, do not carry out a wipe disinfection. Do not use the unit or the cart. Contact Technical Service.

Disinfection

Use only disinfectants that comply with relevant national standards. Comply with the manufacturer's specifications for the disinfectant, particularly regarding material compatibility. If you use different products for cleaning and disinfection, the products must be compatible with each other.

80180-054_V26539
2025-11

To Purchase, Visit Avolus.com or

gle-use wipes with the disinfectant solution.

fectant wipes with a disinfectant solution.

hly.

re completely wetted.

vork as specified by the manufacturer (exposure time).

6. Keep the surfaces wet throughout the entire exposure time. Use additional wipes if needed.
7. Visually inspect the surfaces for any damage after disinfection.

Note: If the surfaces are damaged, do not use the unit or the cart. Contact Technical Service.

Validated procedure for cleaning and disinfection

Cleaning

Clean with Sani-Cloth Bleach Germicidal Disposable Wipes, PDI, Woodcliff Lake, NJ 07677 USA. Leave the cleaning agent to work for four minutes, making sure it is visibly wetted. Clean all visible contamination (e.g., blood) off the surfaces. Residual contamination may reduce the effectiveness of the subsequent disinfection.

Disinfection

Disinfect with Sani-Cloth Bleach Germicidal Disposable Wipes, PDI, Woodcliff Lake, NJ 07677 USA. Leave the disinfection solution to work for four minutes, making sure it is visibly wetted.

Erbe recommends this processing procedure. Other equivalent procedures are possible. Using appropriate measures, the user must ensure that the procedures used are suitable (e.g., validation, routine monitoring, check of material compatibility).

80180-054_V26539
2025-11

80180-054_V26539
2025-11

Chapter 7
Technical data for SystemCarrier compact

Terminal for grounding (potential equalization)	Yes (3 units)
Caster wheel diameter	100 mm (3.94")
The caster wheels are conductive.	
Width × height × depth	615 × 955 × 615 mm (24.2" x 37.6" x 24.2")
Weight	26 kg (57.3 lbs)
Maximum load	40 kg (88.2 lbs)
Maximum basket load	5 kg (11 lbs)
Maximum load per hook	1 kg (2.2 lbs)
Maximum shelf load	15 kg (33.1 lbs)

Ambient conditions for transport and storage of the cart	
Temperature	-29 to +60 °C (-20.2 to +140 °F)
Relative humidity	15 – 85 %, non-condensing

Ambient conditions for operation of the cart	
Temperature	+10 to +40 °C (+50 to +104 °F)
Relative humidity	15 – 80 %, non-condensing

Standards	
Classification according to Regulation (EU) 2017/745	I

80180-054_V26539
2025-11

To Purchase, Visit Avopus.com or

80180-054_V26539
2025-11

Chapter 8
Technical data for SystemCarrier compact plus

Rated supply voltage	100 – 120 V AC (±10 %)/ 220 – 240 V AC (±10 %)
Mains rated input current	12.5 A / 10 A
Rated supply frequency	50 / 60 Hz
Power fuses for 100 – 120 VAC units	2 x T 12.5 A H / 250 V
Power fuses for 220 – 240 VAC units	2 x T 10 A H / 250 V
Power inputs / power outputs	1 power input / 3 power outputs
Terminal for grounding (potential equalization)	Yes (4 units)
Caster wheel diameter	100 mm (3.94")
The caster wheels are conductive.	
Width × height × depth	615 × 955 × 615 mm (24.2" x 37.6" x 24.2")
Weight	26 kg (57.3 lbs)
Maximum load	55 kg (121 lbs)
Maximum basket load	5 kg (11 lbs)
Maximum load per hook	1 kg (2.2 lbs)
Maximum load of the gas bottle compartment	15 kg (33.1 lbs)
Maximum size of the gas bottle	Diameter 172 mm (6.77"), height 740 mm (29.1")

Ambient conditions for transport and storage of the cart	
Temperature	-29 to +60 °C (-20.2 to +140 °F)
Relative humidity	15 – 85 %, non-condensing

Ambient conditions for operation of the cart	
Temperature	+10 to +40 °C (+50 to +104 °F)
Relative humidity	15 – 80 %, non-condensing

80180-054_V26539
2025-11

If you transport, store or operate the cart together with gas bottles, observe the specific ambient conditions for the gas bottles.

Standards	
Classification according to Regulation (EU) 2017/745	I

80180-054_V26539
2025-11

To Purchase, Visit Avopus.com or

Service, Warranty, Disposal

Maintenance

Authorized persons

Modifications and repairs may only be carried out by Erbe or by persons expressly authorized by Erbe. Erbe accepts no liability if modifications and repairs to the unit or accessories are made by unauthorized persons. This will also void the warranty.

Modifications and repairs

Modifications and repairs are to be completed by Erbe or persons expressly authorized by Erbe.

Customer service

If you are interested in a service contract, please contact Erbe (Technical Services).

Servicing

Procure service work as follows:

1. Contact the Technical Services Department at Erbe USA, Inc. for a Service Call or to obtain a Return Authorization Number. This Number must appear on all correspondences.

   Telephone:
   770-955-4400 or 1-800-778-3723
   E-Mail: technicalservice@erbe-usa.com

2. Address:
   Erbe USA, Inc. – Kennesaw
   3095 Chastain Meadows PKWY NW,
   BLDG 200, Suite D,
   Kennesaw, GA 30144

3. If the product is being returned to Erbe USA, Inc.; the shipment must be insured as well as safely and securely packed, preferably in the original shipping carton, and should include a letter explaining the problem and make reference to the Return Authorization Number. All transportation and insurance charges and risk of loss are the responsibility of the customer and must be prepaid. A purchase order must be issued to Erbe USA, Inc. to cover all transportation and insurance charges for the return shipment after service.

Authorization from the Erbe USA, Inc. Customer Service or Technical Services Departments must be obtained prior to the return of equipment and/or accessory(ies) for servicing. To obtain an appropriate Return Authorization Number (R.A. #), please be prepared to give the following information when contacting Erbe:

1. The customer name.
2. The name and telephone number of the contact person. The REF number, or model number, and serial number of the involved equipment and/or accessory(ies). The REASON or problem.

80180-054_V26539
2025-11

The R.A. #, and the name and telephone number of the contact person at your location MUST be clearly indicated on the packing list you send with the equipment and/or accessory(ies).

The user must decontaminate any item being returned that possesses a risk of transmitting disease.

Erbe USA, Inc. reserves the right to refuse and/or return, transportation charges collect, any return item(s) that does not have an appropriate R.A. # as issued by the Customer Service or Technical Services Departments. All shipments must be insured, and safely and securely packed, preferably in the original shipping carton. All transportation and insurance charges and risk of loss are the responsibility of the customer and must be prepaid.

Additional Information needed?

Please contact Erbe with any concerns regarding the equipment or this Manual. Also, as requested and available, copies of scientific publications will be provided.

Warranty

Erbe warrants the material and workmanship of the equipment (i.e., the SystemCarrier compact and compact plus) for a period of 90 days from the delivery date.

At installation, the equipment should be inspected for transportation damage and any other deficiency. A report should be prepared with the information being brought to Erbe's attention. If this product should become inoperable due to a defect in material or workmanship during warranty period; Erbe will, at its option, repair or replace the product. This action will be performed by Erbe authorized personnel. This limited warranty does not include replacement or service to repair damage from improper installation, external electrical fault, accident, disaster, use for a purpose other than that for which originally designed or indicated in this Manual, negligence, modification, unauthorized service by non Erbe personnel, or normal wear. The sole and exclusive remedy under this warranty shall be repair or replacement. In no event will Erbe be liable for any damages arising out of the loss of use, or any other incidental or consequential damages. No person, agent, distributor, dealer, or company is authorized to change or modify the terms of this warranty.

80180-054_V26539
2025-11

Disposal

Your product bears a crossed-out garbage can icon (see image). Meaning: In all EU countries this product must be disposed of separately in accordance with the national laws implementing EU Directive 2012/19/EU of 07/04/2012, WEEE.

In non-EU countries the local regulations must be observed.

If you have any questions about disposal of the product, please contact Erbe Elektromedizin or your local distributor.

Chapter 10
Accessories

Accessories for SystemCarrier compact, compact plus

Use only the following accessories with these REF No.:

- 20180-463 One-pedal footswitch mount VIO footswitch
- 20180-464 One-pedal footswitch mount EIP 2 / VIO C footswitch
- 20180-460 Cable holder
- 20180-465 Hook for cable storage for SystemCarrier
- 20325-002 Hook for irrigation-liquid bag on bracket / VIO Cart
- 20180-150 Fastening set device
- 20180-151 Fastening set VIO C on SystemCarrier compact
- 20180-153 Fastening set EIP 2 on SystemCarrier compact
- 20180-510 Accessory basket for SystemCarrier compact

Approved combinations of basket and hook

The basket can be attached as follows:

- 20180-510 single

In addition to the basket the following hooks can be attached:

- 20180-465 single

or

- 20325-002 single

or

- 20180-465 and 20325-002 together

80180-054_V26539
2025-11

Compatible power cords

Use the following Erbe power cords for the mains connection of the cart to the grounded power outlet of the procedure room.

Alternatively, an equivalent power cord can be used for this purpose. The power cord must bear the applicable national test symbol.

REF No. (supplied with the unit)	REF No. (spare part)	Length, amperage	Power plug (Erbe designation)	Power plug (international designation)
51704-037	52704-037	2.5 m (8.2 ft), 10 A	303 A	E+F
51704-038	52704-038	2.5 m (8.2 ft), 10 A	404	G
51704-039	52704-039	4 m (13.1 ft), 15 A	NEMA 5-15 P	B

To Purchase, Visit Avopus.com or

REF (sup… unit			designation)	(international desig-nation)
517…				L
517…				E+F
51704-043	52704-043	5 m (16.4 ft), 10 A	404	G
51704-045	52704-045	5 m (16.4 ft), 10 A	403	L
51704-050	52704-050	4 m (13.1 ft), 10 A	PRC/3	I
51704-051	52704-051	4 m (13.1 ft), 10 A	RA/3	I
51704-052	52704-052	4 m (13.1 ft), 10 A	512	J
51704-053	52704-053	4 m (13.1 ft), 10 A	DK3	K
51704-054	52704-054	4 m (13.1 ft), 10 A	BR/3	N
51704-057	52704-055	5 m (16.4 ft), 10 A	VII	E+F
51704-058	52704-058	5 m (16.4 ft), 10 A	IL/3G	H
51704-075	52704-075	5 m (16.4 ft), 10 A	I	I

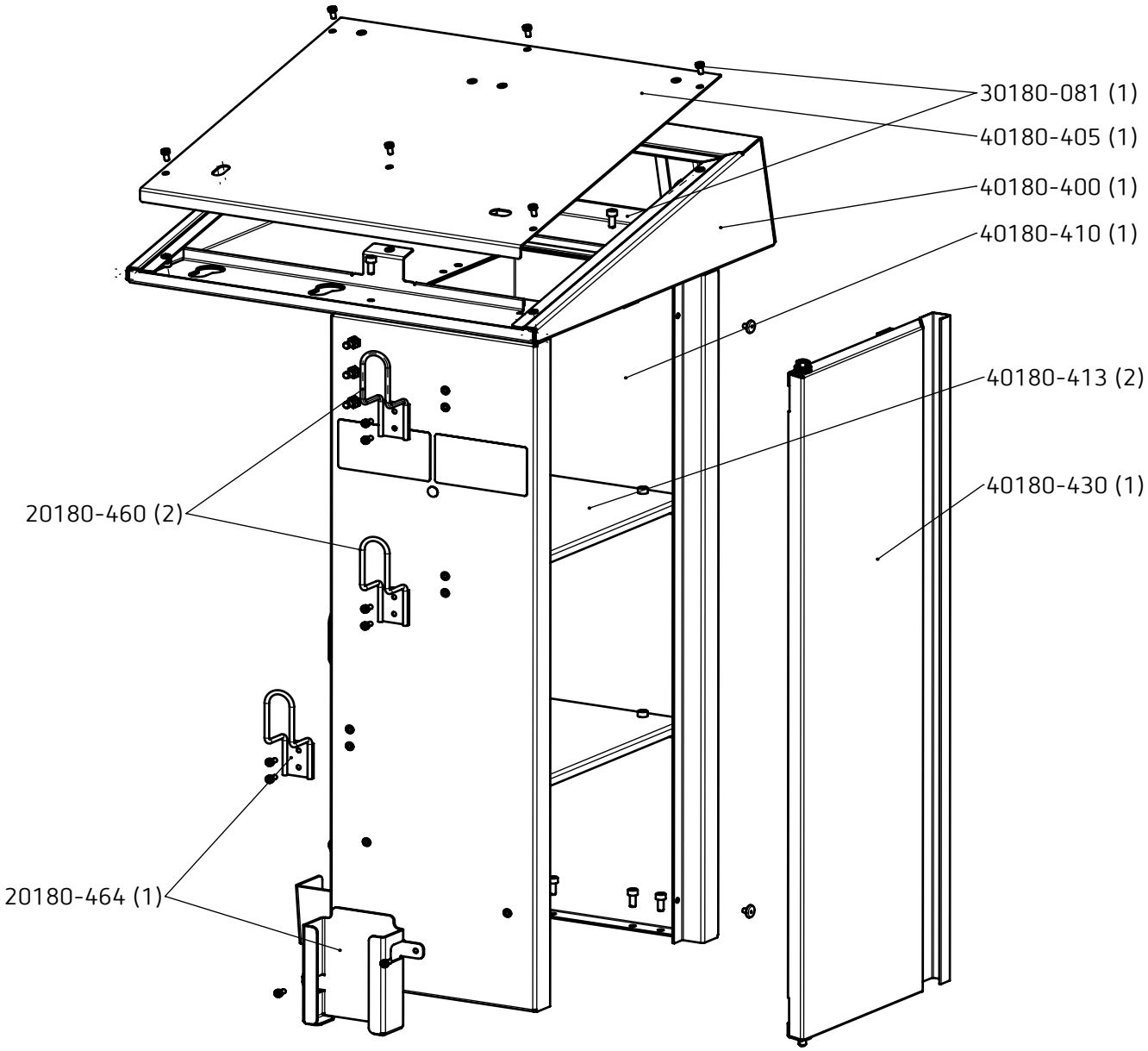
Use the following Erbe power cord for the mains connection of the connected unit to the auxiliary outlet of the cart.

Alternatively, an equivalent power cord can be used for this purpose. The power cord must bear the applicable national test symbol.

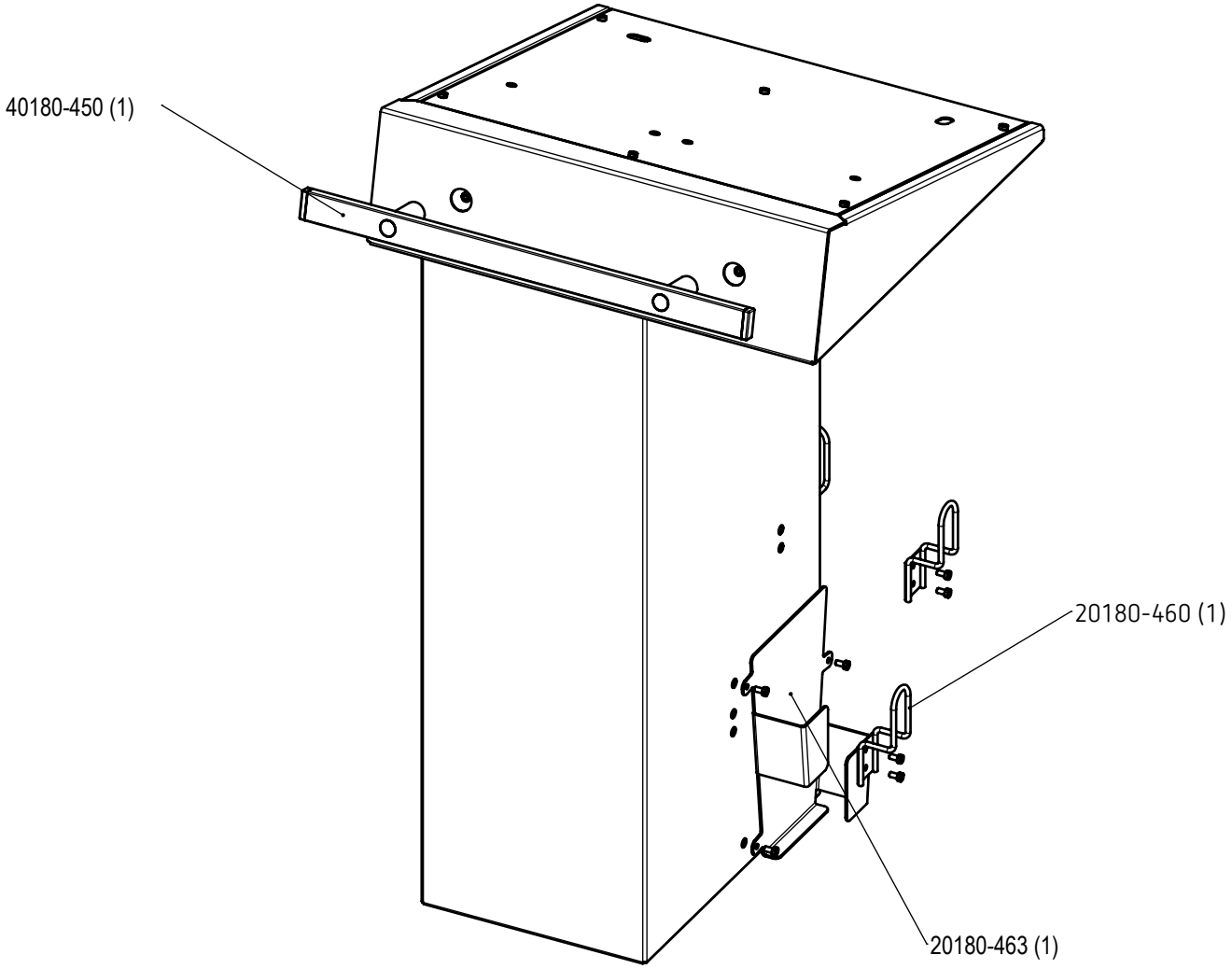
REF No. (supplied with fastening set)	REF No. (spare part)	Length, amperage	Power plug (Erbe designation)	Power plug (international designation)
51704-041	51704-041	0.48 m (1.6 ft), 10 A	C14W	C14

80180-054_V26539
2025-11

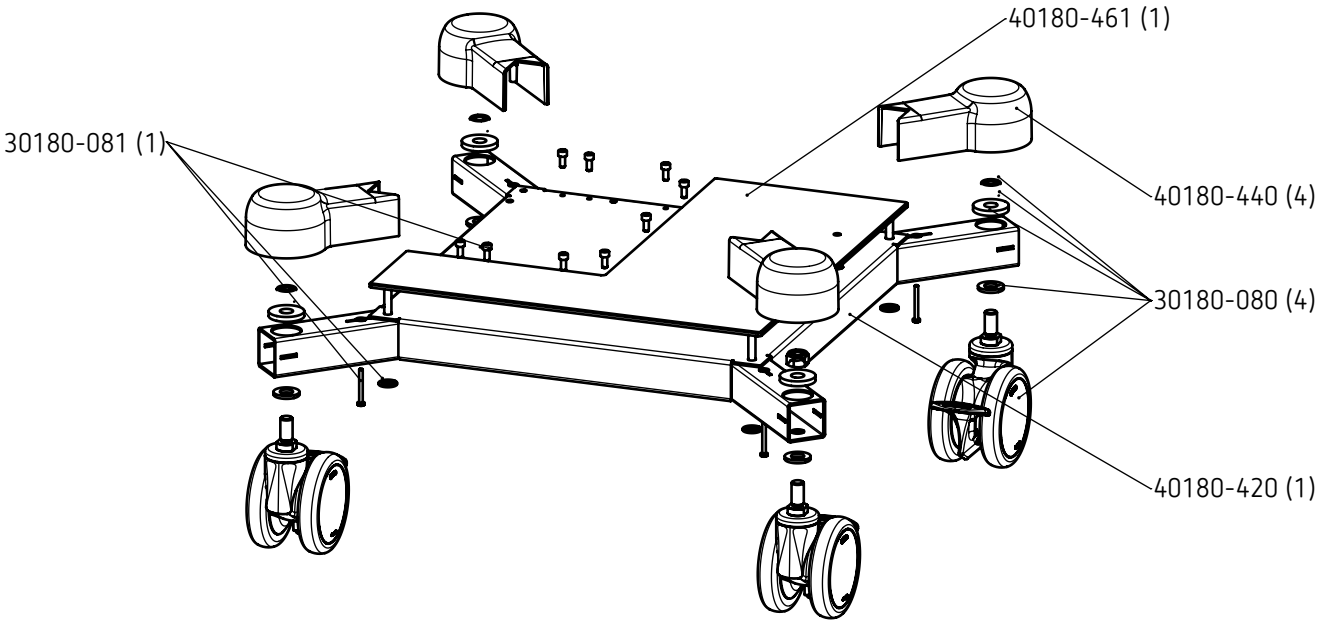
Chapter 11
Spare parts for SystemCarrier compact



80180-054_V26539
2025-11

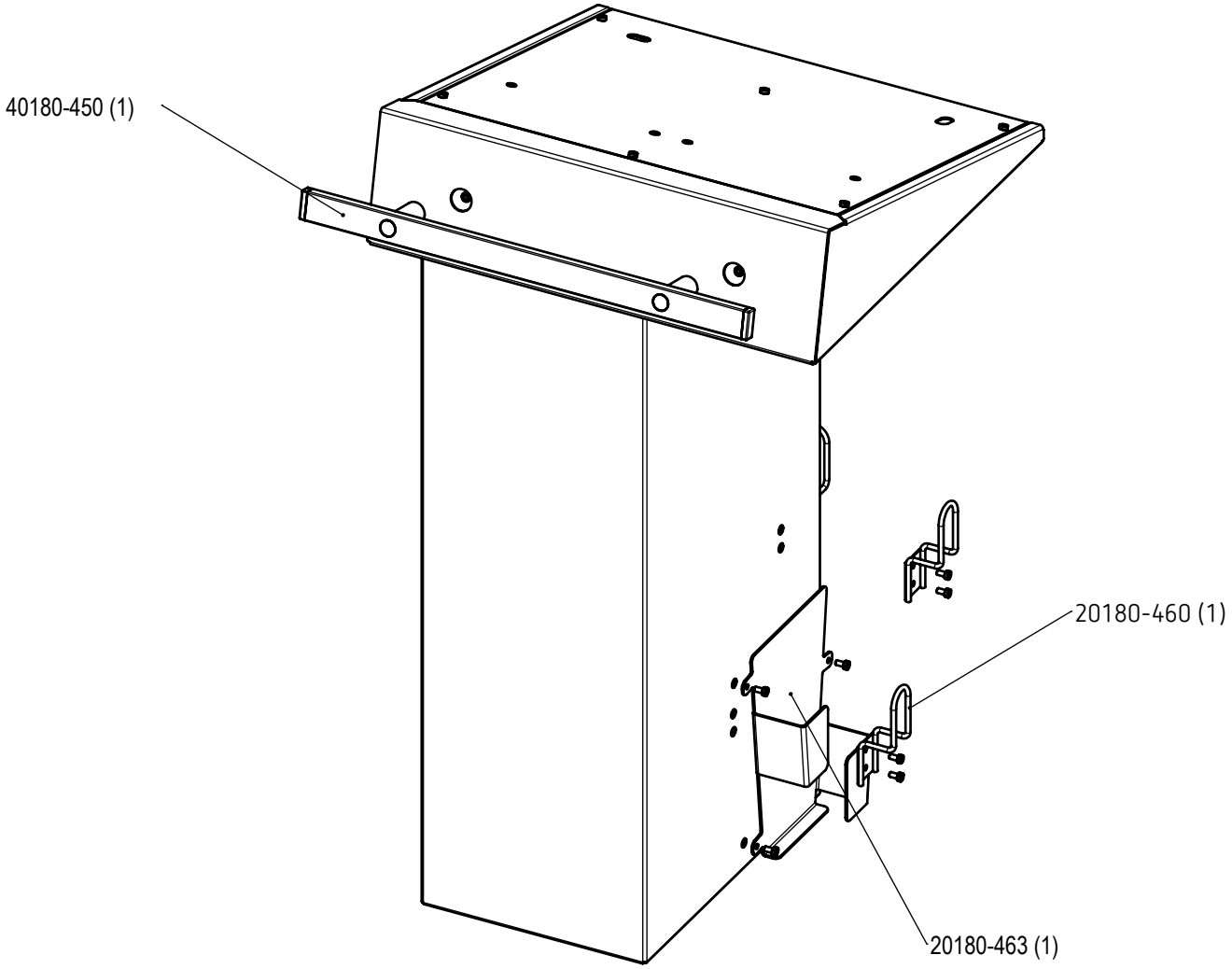


80180-054_V26539
2025-11

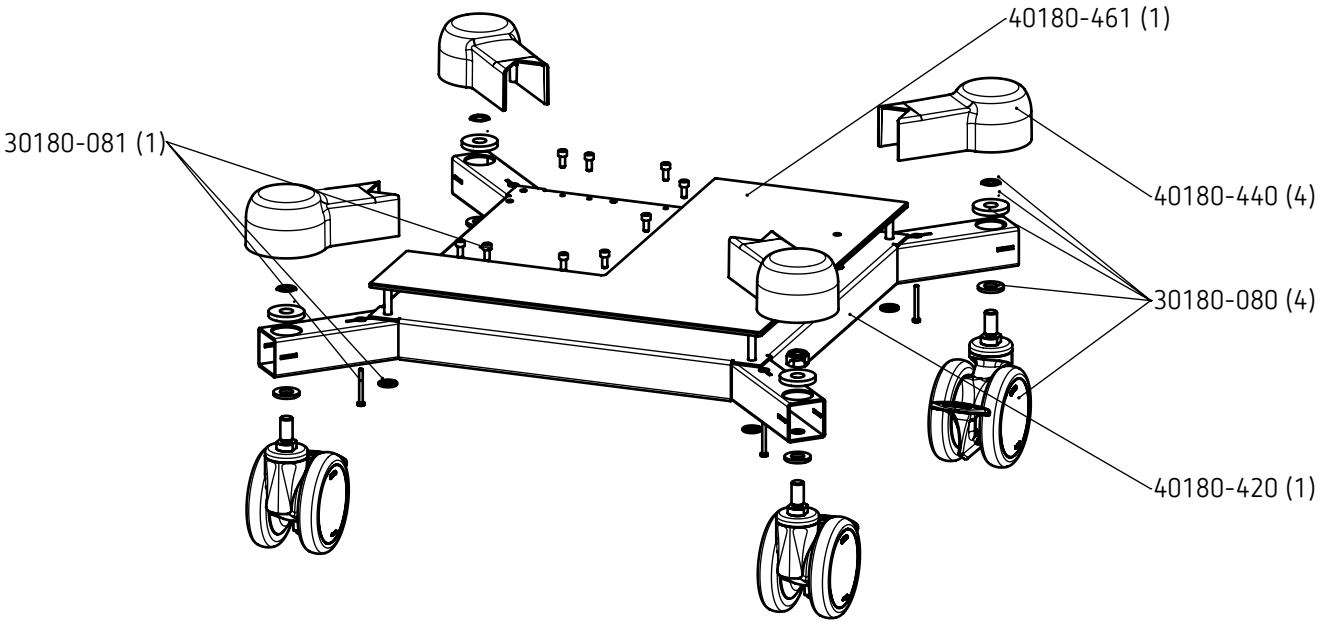


To Purchase, Visit Avopus.com or

80180-054_V26539
2025-11



80180-054_V26539
2025-11



Chapter 13
Symbols

Individual details of the symbols in this chapter may deviate from your product. Not all symbols may necessarily appear on your unit or its packaging.

Standard	Ref. no.	Symbol	Title	Explanation
ISO 15223-1 Medical devices – Symbols to be used with information to be supplied by the manufacturer	5.4.4		Caution	Before switching the unit on or performing another action related to the unit, read the safety instructions in the user manual.
ISO 15223-1 Medical devices – Symbols to be used with information to be supplied by the manufacturer	5.4.3		Consult instructions for use or consult electronic instructions for use	Indicates the need for the user to consult the instructions for use.
ISO 15223-1 Medical devices – Symbols to be used with information to be supplied by the manufacturer	5.1.6		Catalogue number	Indicates the manufacturer's catalogue number so that the medical device can be identified.
ISO 15223-1 Medical devices – Symbols to be used with information to be supplied by the manufacturer	5.1.7		Serial number	Indicates the manufacturer's serial number so that a specific medical device can be identified.
ISO 15223-1 Medical devices – Symbols to be used with information to be supplied by the manufacturer	5.1.5		Batch code	Indicates the manufacturer's batch code so that the batch or lot can be identified.
ISO 15223-1 Medical devices – Symbols to be used with information to be supplied by the manufacturer	5.1.1		Manufacturer	Indicates the medical device manufacturer.
ISO 15223-1 Medical devices – Symbols to be used with information to be supplied by the manufacturer	5.1.3		Date of manufacture	Indicates the date when the medical device was manufactured.
ISO 15223-1 Medical devices – Symbols to be used with information to be supplied by the manufacturer	5.3.2		Keep away from sunlight	Indicates a medical device that needs protection from light sources.
ISO 15223-1 Medical devices – Symbols to be used with information to be supplied by the manufacturer	5.3.4		Keep dry	Indicates a medical device that needs to be protected from moisture.

80180-054_V26539
2025-11

To Purchase, Visit Avopus.com or
AVOPUS EQUIPMENT

Sta				
ISO Sym mat man				Indicates the temperature limits to which the medical device can be safely exposed.
ISO 15223-1 Medical devices – Symbols to be used with information to be supplied by the manufacturer	5.3.8		Humidity limitation	Indicates the range of humidity to which the medical device can be safely exposed.
ISO 15223-1 Medical devices – Symbols to be used with information to be supplied by the manufacturer	5.3.9		Atmospheric pressure limitation	Indicates the range of atmospheric pressure to which the medical device can be safely exposed.
ISO 15223-1 Medical devices – Symbols to be used with information to be supplied by the manufacturer	5.7.7		Medical device	Indicates the item is a medical device.
ISO 7000 Graphical symbols for use on equipment – Registered symbols	1107		Write and read data into and from store	To identify the control or the indicator for writing or reading (retrieving) data to/from a storage device.
ISO 7010 Graphical symbols - Safety colours and safety signs - Registered safety signs	M002		Refer to instruction manual/booklet	To signify that the instruction manual/booklet must be read.
ISO 7010 Graphical symbols - Safety colours and safety signs - Registered safety signs	W012		Warning; Electricity	To warn of electricity.
ISO 7010 Graphical symbols - Safety colours and safety signs - Registered safety signs	W001		General warning sign	To signify a general warning.
IEC 60417 Graphical Symbols for Use on Equipment	5021		Equipotentiality	To identify the terminals which, when connected together, bring the various parts of an equipment or of a system to the same potential, not necessarily being the earth (ground) potential, e.g. for local bonding.
IEC 60417 Graphical Symbols for Use on Equipment	5140		Non-ionizing electromagnetic radiation	To indicate generally elevated, potentially hazardous, levels of non-ionizing radiation, or to indicate equipment or systems e.g. in the medical electrical area that include RF transmitters or that intentionally apply RF electromagnetic energy for diagnosis or treatment.
IEC 60417 Graphical Symbols for Use on Equipment	5336		Defibrillation-proof type CF applied part	To identify a defibrillation-proof type CF applied part complying with IEC 60601-1. Note 1 – C = Cardial. Note 2 – F = Floating applied part.

80180-054_V26539
2025-11

Standard	Ref. no.	Symbol	Title	Explanation
IEC 60417 Graphical Symbols for Use on Equipment	5998		Computer network	To identify the computer network itself or to indicate the connecting terminals of the computer network.
IEC 60417 Graphical Symbols for Use on Equipment	5034		Input	To identify an input terminal when it is necessary to distinguish between inputs and outputs.
IEC 60417 Graphical Symbols for Use on Equipment	5009		Stand-by	To identify the switch or switch position by means of which part of the equipment is switched on in order to bring it into the stand-by condition, and to identify the control to shift to or to indicate the state of low power consumption. Each of different states of power consumption may be indicated using a corresponding colour.
IEC 60601-2-2 Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories	–		HF isolated patient circuit	The risk of leakage currents and therefore the risk of burns is substantially reduced for the patient.
IEC TR 60878 Graphical symbols for electrical equipment in medical practice	1853, 5114		Foot switch	To identify a foot switch or the connection for a foot switch.
IEC TR 60878 Graphical symbols for electrical equipment in medical practice	5269, 5268		„OUT"/"IN" position of a bi-stable push control	To associate the "OUT" position of a bi-stable push control with the corresponding function. To associate the "IN" position of a bi-stable push control with the corresponding function.
MDD 93/42/EEC, Annex XII	–		European conformity marking	Confirmation from the manufacturer that the product meets the requirements of the applicable European guidelines.
EN 50419 Marking of electrical and electronic equipment in accordance with Article 11(2) of Directive 2002/96/EC (WEEE)	–		Separate disposal	The product must be disposed of separately.
–	–		Quantity (x)	Quantity of the product. x pieces of the product are supplied in one packaging unit.
–	–		Erbe Communication Bus	Indicates an ECB connection. ECB is a system for transferring data between Erbe units.

80180-054_V26539
2025-11

Standard	Ref. no.	Symbol	Title	Explanation
–	–		Air inlet	Indicates an air inlet.
–	–		Air outlet	Indicates an air outlet.

80180-054_V26539
2025-11

Kontakt, Contact, Contacto, 联系我们

Manufacturer

Erbe Elektromedizin GmbH
Waldhörnlestraße 17
72072 Tübingen, Germany
erbe-med.com

Service Hotline

Tel +49 7071 755 437
Fax +49 7071 755 189
techservice@erbe-med.com

Service Hotline USA

Tel +1 770 955 4400 or +1 800 778 3723
Fax 770 955 2577
technicalservice@erbe-usa.com

Contacts worldwide

België/Belgique/Belgien

Erbe Belgium b.v.b.a.
Ikaroslaan 19
1930 Zaventem, België
Tel +32 2 254 88 60
info@erbe-belgium.com

中国

爱尔博 （上海）医疗器械有限公司
上海市长宁区延安西路 2201 号 3002 室
电话：+86 21 62758 440
传真：+86 21 62758 874
E-Mail: info@erbechina.com

Deutschland

Erbe Elektromedizin GmbH
Waldhörnlestraße 17
72072 Tübingen, Germany
Tel +49 7071 755 400
Fax +49 7071 755 188
Vertrieb-Deutschland@erbe-med.com

España

Erbe España Soluciones Médicas, S.L.
C. Sta. Leonor 65, Edificio B Bajo Derecha
28037 Madrid, España
Tel +34 91 954 38 61
info@erbe-spain.com

France

Erbe Médical SARL
ZAC Sans Souci
470 Allée des Hêtres
69760 Limonest, France
Tél +33 4 78 64 92 55
Fax +33 4 78 66 16 43
erbe@erbe-france.com

India

Erbe Medical India Private Ltd.
396, Office Block, 3rd Floor
Vegas Mall, Pocket 1, Sector-14, Dwarka,
New Delhi - 110078, India
Tel +91 11 4100 9808
erbe@erbe-india.com

Italia

Erbe Italia S.r.l.
Viale Sarca 336/f
20126 Milano, Italia
Tel +39 02 647468 1
Fax +39 02 647468 30
info@erbe-italia.com

LATAM

Erbe do Brasil Ltda.
Av. Andrômeda, 885 – Of. 2501/2502
Alphaville Empresarial
06473-000 – Barueri – SP, Brasil
Tel +55 11 4191 4146
info@erbe-brasil.com

Middle-East/Africa

Erbe Elektromedizin GmbH
Representative Office, MEA
Kaslik Étoile Center, 5th Floor
Kaslik roundabout, Zouk Mikael
Beirut, Lebanon
Tel +961 9 211 277
Fax +961 9 213 713
info@erbe-lebanon.com

Nederland

Erbe Nederland B.V.
Velsenstraat 10
4251 LJ Werkendam, Nederland
Tel +31 183 509 755
klantenservice@erbe-nederland.com

Österreich

Erbe Elektromedizin Ges.m.b.H.
Modecenterstraße 14 / Top B1
1030 Wien, Österreich
Tel +43 1 893 24 46
Fax +43 1 893 24 46 3
info@erbe-austria.com

Polska

Erbe Polska Sp. z o.o.
Al. Rzeczypospolitej 14 lok. 2.8
02-972 Warszawa, Polska
Tel +48 22 642 25 26
Faks +48 22 642 88 99
sales@erbe.pl

Россия

ООО «Эрбе Электромедицин»
ул. Хамовнический вал, 12
119270, Москва, Россия
Телефон: +7 495 256 00 52
Факс: +7 495 256 00 52
info@erbe-russia.com

Schweiz/Suisse/Svizzera

Erbe Swiss AG
Deisrütistrasse 7
8472 Oberohringen, Schweiz
Tel +41 52 233 37 27
Fax +41 52 233 33 01
info@erbe-swiss.ch

Sverige

Erbe Sweden AB
Enebybergsvägen 16
182 36 Danderyd, Sverige
Tel +46 8 442 88 00
info.se@erbe-med.com

South-East Asia

Erbe Singapore Pte. Ltd.
25 International Business Park
#02-61/64 German Centre
Singapore 609916, Singapore
Tel +65 65 6283 45
Fax +65 65 6283 46
info@erbe-singapore.com

대한민국

에르베메디칼코리아 (유),
서울시 송파구 올림픽로 35 다길 42, 4 층
(신천동 , 한국루터회관) 05510
Tel + 82 2 6475 1883
Fax + 82 2 6475 1884
info@erbe-korea.com

United Kingdom

Erbe Medical UK Ltd
The Antler Complex
1A Bruntcliffe Way, Morley
Leeds LS27 0JG, United Kingdom
Tel +44 113 253 0333
Fax +44 113 253 2733
sales@erbe-uk.com

USA

Erbe USA, Inc.
2225 Northwest Parkway
Marietta, GA 30067, USA
Tel +1 770 955 4400
Fax +1 770 955 2577
Customer Support: +1 800 778 3723
info@erbe-usa.com

80103-161_V25541 2024-04

AVOBUS EQUIPMENT
To Purchase, Visit Avobus.com or call 1-800-674-3655