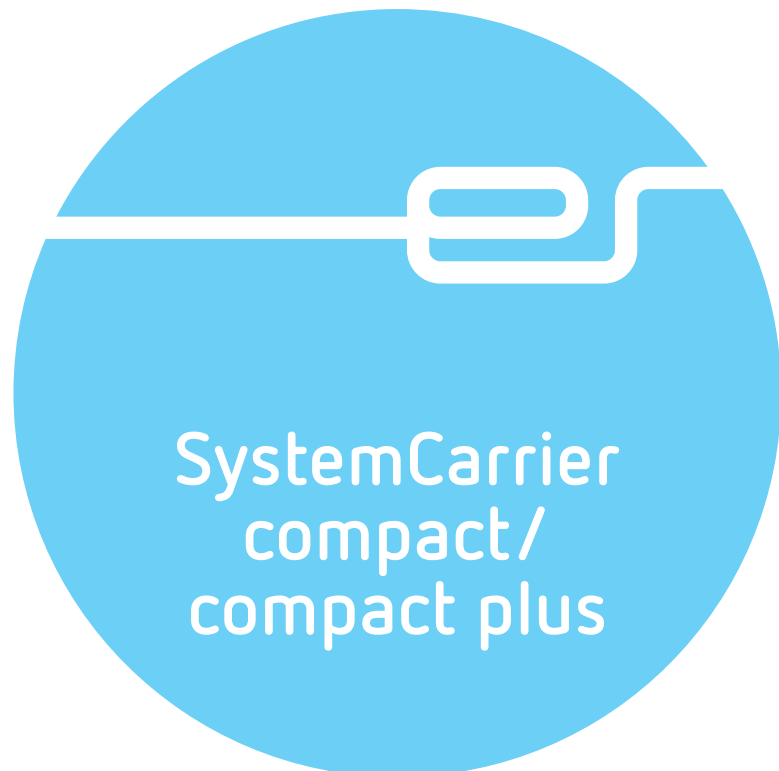


USER MANUAL



USER MANUAL

SystemCarrier compact/
compact plus

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REF No. 20180-100, 20180-101

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Printed by Erbe Elektromedizin

Printed in Germany

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Chapter 1

General Instructions for Use

This User Manual describes the normal use of the cart.

Note: Report serious incidents with the product to your local dealer or Erbe. If you are a user in the European Union, also report incidents to the responsible authority in your Member State.

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 200 D		VIO 300 D		VIO 3	
IES 3	•	•	-	•	-	•	-	•	-	•	-
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 200 D		VIO 300 D		VIO 3	
IES 3	•	-	•	-	•	-	•	-	•	-
EIP 2	-	•	-	•	-	•	-	•	-	•
APC 2	•	•	•	•	•	•	•	•	-	-
APC 3	-	-	-	-	-	-	-	-	•	•

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

Environment

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

Qualification of user

For the intended use, the cart may only be operated by medical professionals 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.

Chapter 2

Safety Instructions

Safety notations

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.

Please pay particular attention to the safety instructions in each chapter.

Compliance with safety information

Working with medical units 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 to a large extent 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 according to 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

Operating errors and incorrect installation by persons without training

WARNING

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

Risk to medical staff and to the installer! Risk of damage to property.

- ⇒ The cart must only be used by persons who have been trained on how to use it 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 the event of uncertainties 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 in transit 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 bad ventilation

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

- ⇒ Install the cart in such a way that there is an unobstructed circulation of air around the unit housings. Installation in confined wall recesses is prohibited.

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 damage to property.

- ⇒ 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 modifications yourself. Any modification will invalidate liability on the part of Erbe Elektromedizin GmbH.

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 damage to property.

- ⇒ 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 supply 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 to 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 burning.

- ⇒ Power fuses for adapting the unit configuration on the cart may only be installed by a qualified technician. Only fuses that have the same rating as the one specified on the rating plate of the cart may 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.
- ⇒ The fuse holder (1) with the fuse is shown below.



Burns

⚠ CAUTION

Dirty casters

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

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

- ⇒ Clean dirty casters.

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 damage to property.

- ⇒ Only install units specified in the section on compatibility.
- ⇒ Only install accessories specified in the section 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 max. (33.1 lbs) 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 section on Compatibility are connected to the auxiliary power sockets. Units not installed on the cart are connected to the auxiliary power sockets.

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

For auxiliary power outlets see Figure below.

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



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 damage to property.

- ⇒ Check the cart for damage every time before using it. You must not use a damaged cart.
- ⇒ If the cart is damaged, please contact our customer service.
- ⇒ For your safety and that of the patient: Never attempt to perform repairs or make modifications yourself. Any modification will invalidate 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 damage to property.

⇒ Do not lift or carry the cart with the handle.

⚠ CAUTION

The cart is not pushed or pulled using the handle

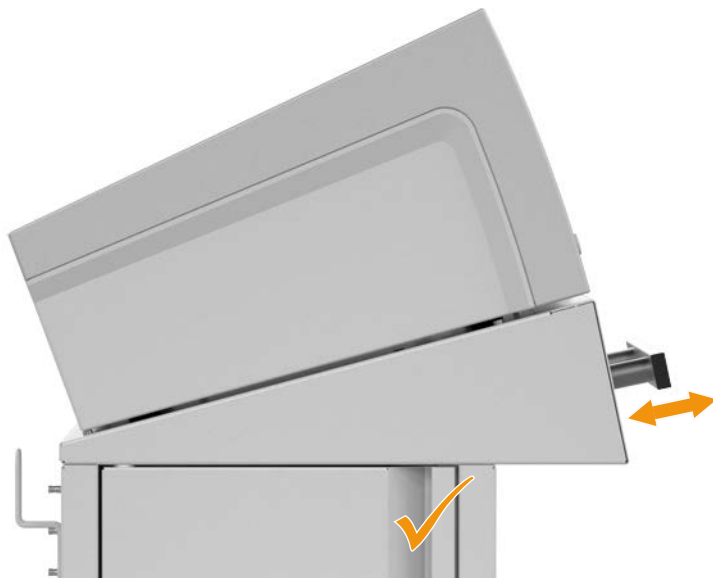
Units or accessories may fall off.

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

⇒ Close the door before moving the cart.

⇒ Pull and push the cart only with the handle. See Figure below.

⇒ Do not push against the units.



⚠ CAUTION

The casters are not fixed with the brakes.

The cart may move unintentionally.

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

⇒ 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 damage to property.

⇒ Secure the gas bottle with the fixing strap.

Risk of infection

⚠ WARNING

The cart is contaminated

Risk of infection for the medical staff.

- ⇒ 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 based on different active ingredients

The agents may affect one another. The disinfection effect of the disinfectant solution may be weakened. Risk of infection for the medical staff.

- ⇒ Do not use these substances alternately.

Notes

Grounding

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

Chapter 3

Description of the elements of the SystemCarrier compact



(1) Handle

For pushing or pulling the cart.

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2023-04



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

(2) Brakes

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

(3) Footswitch holder for one-pedal footswitch of IES 3 or VIO electrosurgical units

For holding one-pedal footswitches of the units IES 3, VIO 200 S, VIO 300 S, VIO 200 D, VIO 300 D, VIO 3.

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

For holding one-pedal footswitches of the units EIP 2, VIO C.

(5) Shelf for two-pedal footswitch

For holding two-pedal footswitches of the units VIO C, VIO 200 S, VIO 300 S, VIO 200 D, VIO 300 D, VIO 3.

(6) Cable holder for footswitch cable and power cord

For winding up footswitch cable or power cord.

(7) Potential equalization terminals

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



(8) Cart door

Closes the storage compartments.

(9) Storage compartments

For holding suitable items. Maximum load per compartment is 15 kg (33.1 lbs).

3 • Description of the elements of the SystemCarrier compact

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Chapter 4

Description of the elements of the SystemCarrier compact plus



(1) Handle

For pushing or pulling the cart.

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2023-04



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

(2) Brakes

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

(3) Footswitch holder for one-pedal footswitch of IES 3 or VIO electrosurgical units

For holding one-pedal footswitches of the units IES 3, VIO 200 S, VIO 300 S, VIO 200 D, VIO 300 D, VIO 3.

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

For holding one-pedal footswitches of the unit EIP 2.

(5) Shelf for two-pedal footswitch

For holding two-pedal footswitches of the units VIO 200 S, VIO 300 S, VIO 200 D, VIO 300 D, VIO 3.

(6) Cable holder for footswitch cable and power cord

For winding up footswitch cable or power cord.

(7) Potential equalization terminals

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

(8) Opening

For feeding through the pressure line 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 section).

(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 section).



(12) Cart door

Closes the gas bottle compartment.

(13) Gas bottle compartment

For holding a gas bottle.

4 • Description of the elements of the SystemCarrier compact plus

Chapter 5

Operation

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2023-04

Checking the cart

WARNING

Damaged cart or modified cart

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

- ⇒ 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 modifications yourself. Any modification will invalidate 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 damage to property.

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

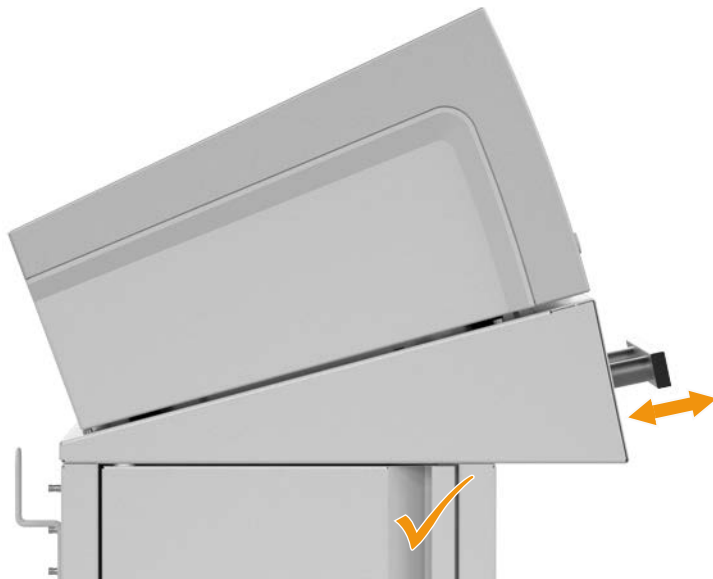
CAUTION

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 damage to property.

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



- 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 damage to property.

⇒ Lock the brakes on all four casters.



- 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 holder.
- Coil the footswitch cable and power cord around the cable holders.

Using the SystemCarrier compact storage compartments

Use the storage compartments for suitable items. 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 gas bottles weighing up to maximum 15 kg (33.1 lbs). The maximum diameter is 172 mm (6.8"); the maximum height is 740 mm (29.1").

SystemCarrier compact plus power fuses

⚠ CAUTION

Incorrect power fuse

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

- ⇒ Power fuses for adapting the unit configuration on the cart may only be installed by a qualified technician. Only fuses that have the same rating as the one specified on the rating plate of the cart may 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.
- ⇒ The fuse holder (1) with the fuse is shown below.



The cart as delivered has 2 T 10 A H / 250 V fuses for connecting units with a voltage between 220 V to 240 V.

If you wish to connect units with a voltage between 100 V to 120 V, a qualified technician must replace the fuses with the two included T 12.5 A H / 250 V fuses. If the fuses are not changed, they may blow.

Chapter 6

Cleaning and disinfection

Safety Instructions

WARNING

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

Risk of electric shock to 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 staff.

⇒ 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 based on different active ingredients

The agents may affect one another. The disinfection effect of the disinfectant solution may be weakened. Risk of infection for the medical staff.

⇒ Do not use these substances alternately.

CAUTION

Dirty casters

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

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

⇒ Clean dirty casters.

Selecting a suitable cleaning and disinfection agent

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

- Alcohol-based agents
- Agents based on guanidine
- Agents based on active oxygen-based per compounds
- Agents based on peracetic acid
- Chlorine-based agent with up to 3% bleach

Frequent use of the abovementioned agents may cause harmless discoloration to surfaces.

Do not use a cleaning and disinfection agent 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 benzene

These substances cause damage to plastics.

Supplies

- Ready-for-use wipes with a cleaning agent 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 cleaning agents that comply with relevant national standards. Observe the manufacturer's specifications for the cleaning agent, particularly regarding material compatibility. If you use different products for cleaning and disinfection, the products must be compatible with each other.

1. Prepare the cleaning agent solution in a concentration specified by the manufacturer. Moisten low-lint single-use wipes with the cleaning agent solution.
2. Or use ready-for-use cleaning wipes with a cleaning agent 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.

1. Mix the disinfectant in a concentration specified by the manufacturer. Moisten low-lint single-use wipes with the disinfectant solution.
2. Or use ready-for-use disinfectant wipes with a disinfectant solution.
3. Wipe the surfaces thoroughly.
4. Ensure that the surfaces are completely wetted.
5. Leave the disinfectant 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. 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 for the unit, the cart, and the mounting bracket. Other equivalent procedures are possible. The user must ensure that the procedures used are suitable by means of suitable measures (e.g., validation, routine monitoring, check of material compatibility).

Chapter 7

Technical data for SystemCarrier compact

Terminal for grounding (potential equalization)	Yes (3 units)
Caster wheel diameter	100 mm (3.9")
The caster wheels are conductive.	
Width x height x depth	615 x 955 x 615 mm (24.2" x 37.6" x 24.2")
Weight	26 kg (57.3 lbs)
Maximum load	34 kg (75 lbs)
Maximum shelf load	15 kg (33.1 lbs)

Ambient conditions for transport and storage of the cart

Temperature	-29 °C to +60 °C (-20.2 °F to +140 °F)
Relative humidity	15%–85%, non-condensing

Ambient conditions for operation of the cart

Temperature	+10 °C to +40 °C (50 °F to 104 °F)
Relative humidity	15%–80%, non-condensing

Standards

Classification according to Regulation (EU) 2017/745	I
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Chapter 8

Technical data for SystemCarrier compact plus

Rated supply voltage	100 - 120 VAC ($\pm 10\%$) / 220 - 240 VAC ($\pm 10\%$)
Mains rated input current	12.5 A / 10 A
Rated supply frequency	50 Hz / 60 Hz
Power fuses for 100 - 120 VAC units, included for replacement	2 x T 12.5 A H / 250 V
Power fuses for 220 - 240 VAC units, installed on delivery	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 (3.9")
The caster wheels are conductive.	
Width x height x depth	615 x 955 x 615 mm (24.2" x 37.6" x 24.2")
Weight	26 kg (57.3 lbs)
Maximum load	49 kg (108 lbs)
Maximum load of the gas bottle compartment	15 kg (33.1 lbs)
Maximum size of the gas bottle	Diameter 172 mm (6.8"), height 740 mm (29.1")

Ambient conditions for transport and storage of the cart

Temperature	-29 °C to +60 °C (-20.2 °F to +140 °F)
Relative humidity	15%–85%, non-condensing

Ambient conditions for operation of the cart

Temperature	+10 °C to +40 °C (50 °F to 104 °F)
Relative humidity	15%–80%, non-condensing

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

Chapter 9

Maintenance, Customer Service, Warranty, Disposal

Maintenance

Modifications and repairs

Modifications and repairs must not impair the safety of the unit or cart and accessories for the patient, user and the environment. This condition is met when changes to the structural and functional characteristics are not detrimental to safety.

Authorized persons

Modifications and repairs may only be undertaken 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 invalidate the warranty.

Customer Service

If you are interested in a service contract, please contact Erbe.

Servicing

Procure service work as follows:

1. Contact the Technical Service 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

FAX: 770-955-2577

Address:

Erbe USA, Inc.

2225 Northwest Parkway

Marietta, GA 30067

2. 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.

Merchandise Return

Authorization from the Erbe USA, Inc. Customer or Technical Service Departments must be obtained prior to the return of any merchandise. To obtain an appropriate Return Authorization Number (R.A. #), please be prepared to give the following information when contacting Erbe:

1. The customer name and/or number as it appears on the original invoice for the merchandise involved.
2. The name and telephone number of the contact person.

3. The catalog number, or model number, and serial number of the merchandise.
4. The REASON for your request to return the merchandise.

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 merchandise.

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

Erbe USA, Inc. reserves the right to refuse and/or return, transportation charges collect, any merchandise that does not have an appropriate R.A. # as issued by the Customer or Technical Service Department. 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.

Merchandise returned within 30 days of the invoice date may be eligible for full credit, if unused and in resaleable condition, in the original packaging. Merchandise returned after 30 days from the invoice date will be subject to a minimum 15% restocking charge.

Merchandise returned (excluding warranty situations) in the following circumstances is NOT eligible for credit:

1. More than 90 days has transpired since the invoice date.
2. Special order items.
3. Discontinued items.
4. Engraved or marked items.
5. Items that have been used, or are not in the original packaging, or are damaged in any way, or are not complete as originally shipped.

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 VIO Cart) 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.

Disposal



Your product bears a crossed-out garbage can icon (see picture). 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 Nos.:

- 20180-463 One-pedal footswitch mount VIO footswitch
- 20180-464 One-pedal footswitch mount EIP 2 / VIO C footswitch
- 20180-460 Cable holder
- 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
- 20180-152 Fastening set IES 3 on SystemCarrier compact
- 20180-153 Fastening set EIP 2 on SystemCarrier compact

Compatible power cords

Use the following Erbe power cords for the mains connection of the cart to the ground-
ed power outlet of the operating room.

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	303A	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), 10 A	NEMA 5-15 P	B
51704-040	52704-040	2.5 m (8.2 ft), 10 A	403	L
51704-042	52704-042	5 m (16.4 ft), 10 A	303A	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

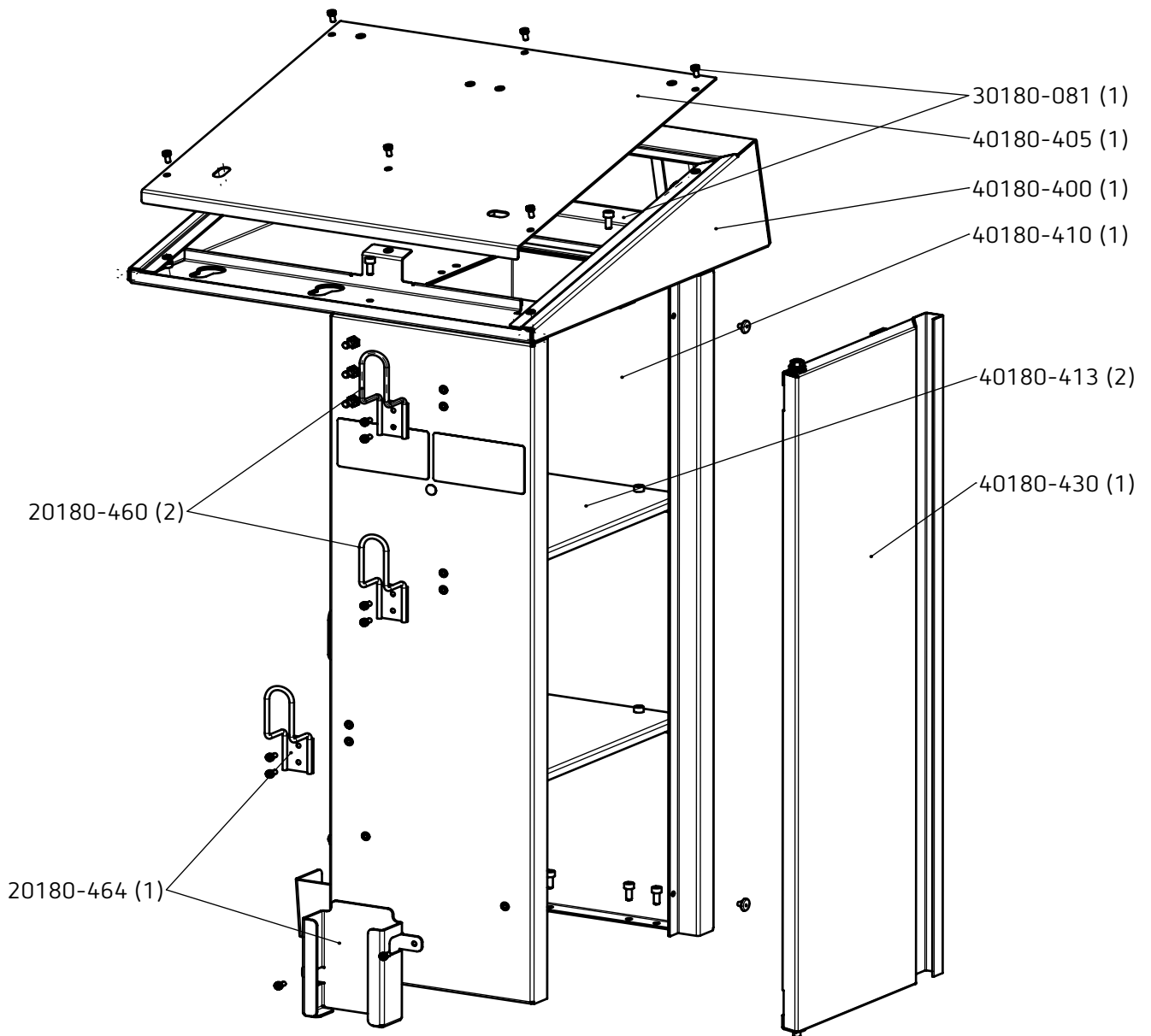
REF no. (supplied with the unit)	REF no. (spare part)	Length, amperage	Power plug Erbe designation	Power plug international designation
51704-051	52704-051	4 m (13.1 ft), 10 A	RA/3	I
51704-052	52704-052	4 m (13.1 ft), 10 A	512	J
51704-053	52704-053	4 m (13.1 ft), 10 A	DK3	K
51704-054	52704-054	4 m (13.1 ft), 10 A	BR/3	N
51704-057	52704-057	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.

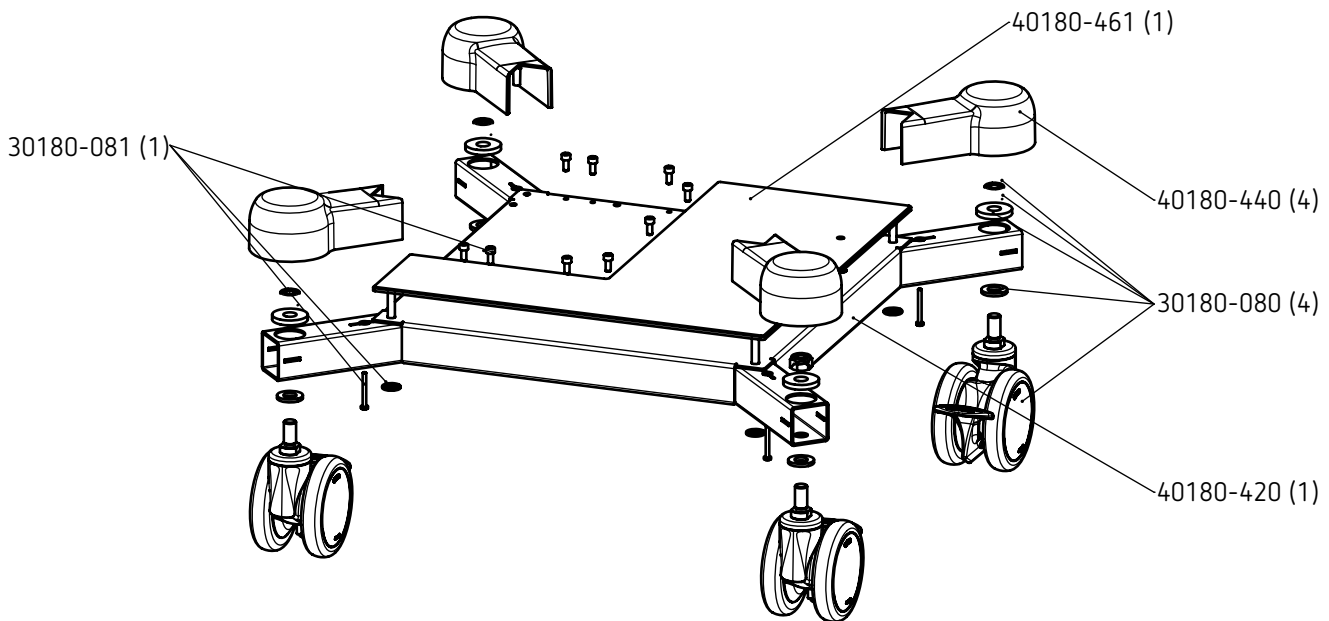
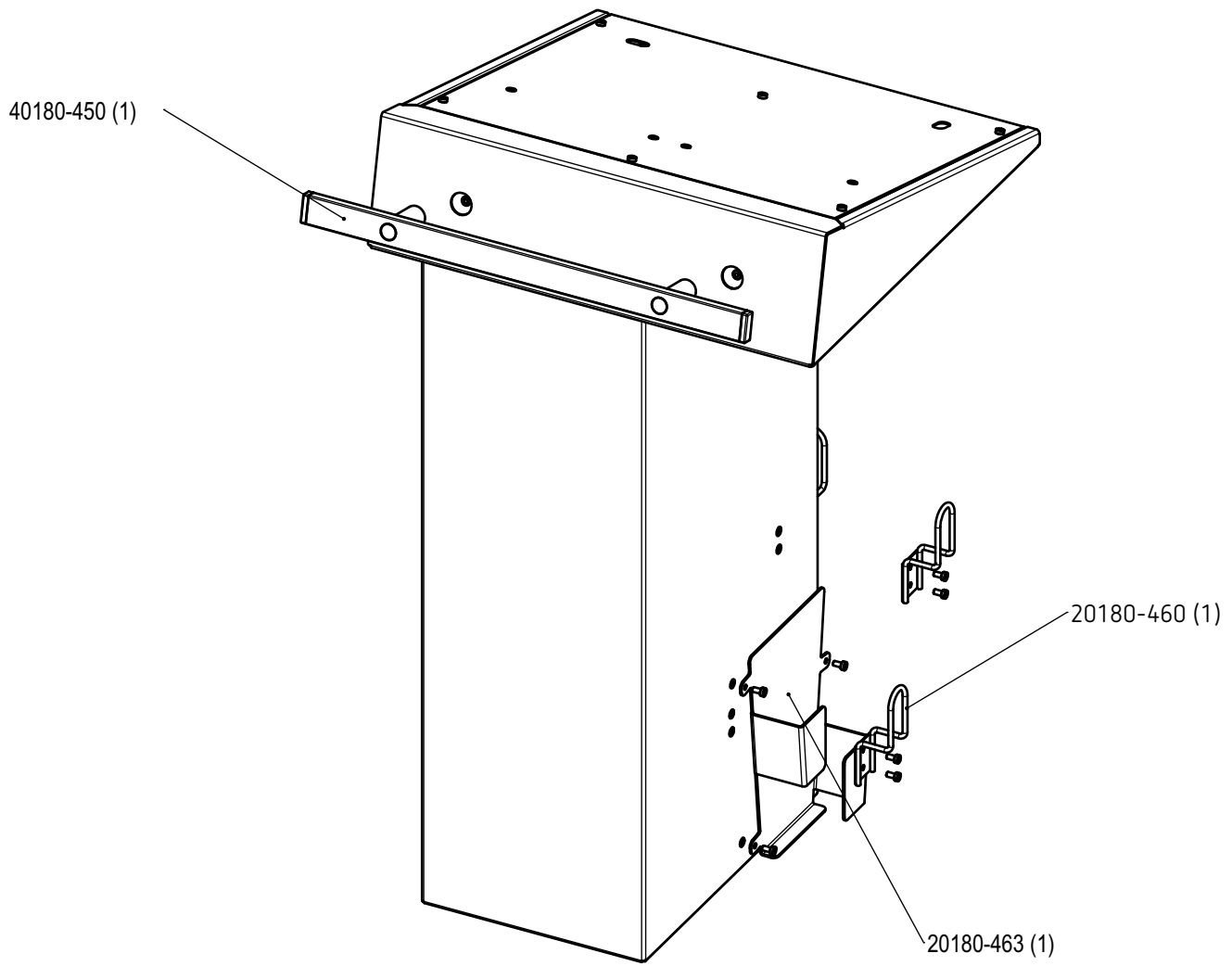
REF no. (supplied with fastening set)	REF no. (spare part)	Length, amperage	Power plug Erbe designation	Power plug international designation
51704-041	51704-041	0.48 m (1.6 ft), 10 A	C14W	C14

Chapter 11

Spare parts for SystemCarrier compact



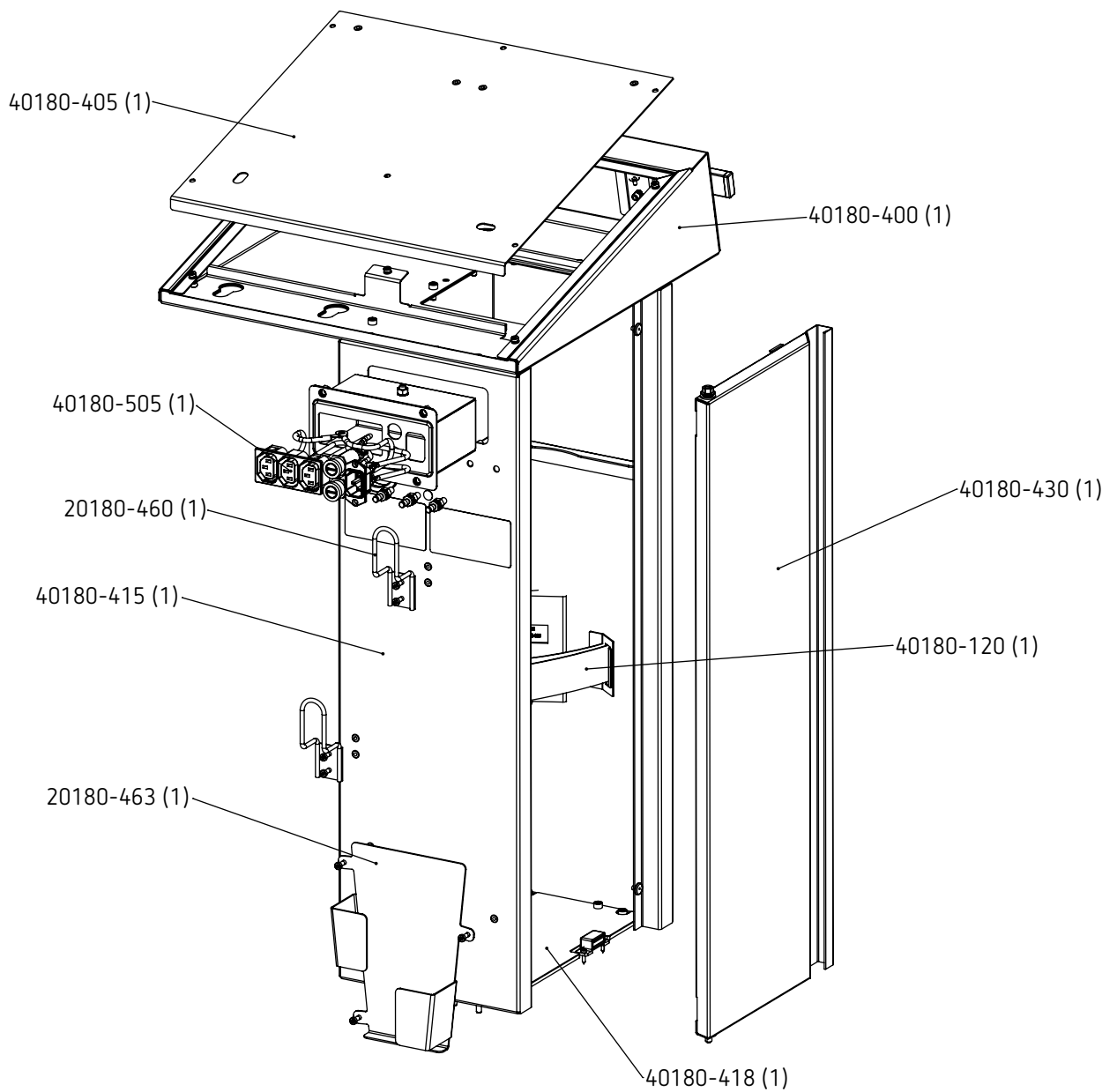
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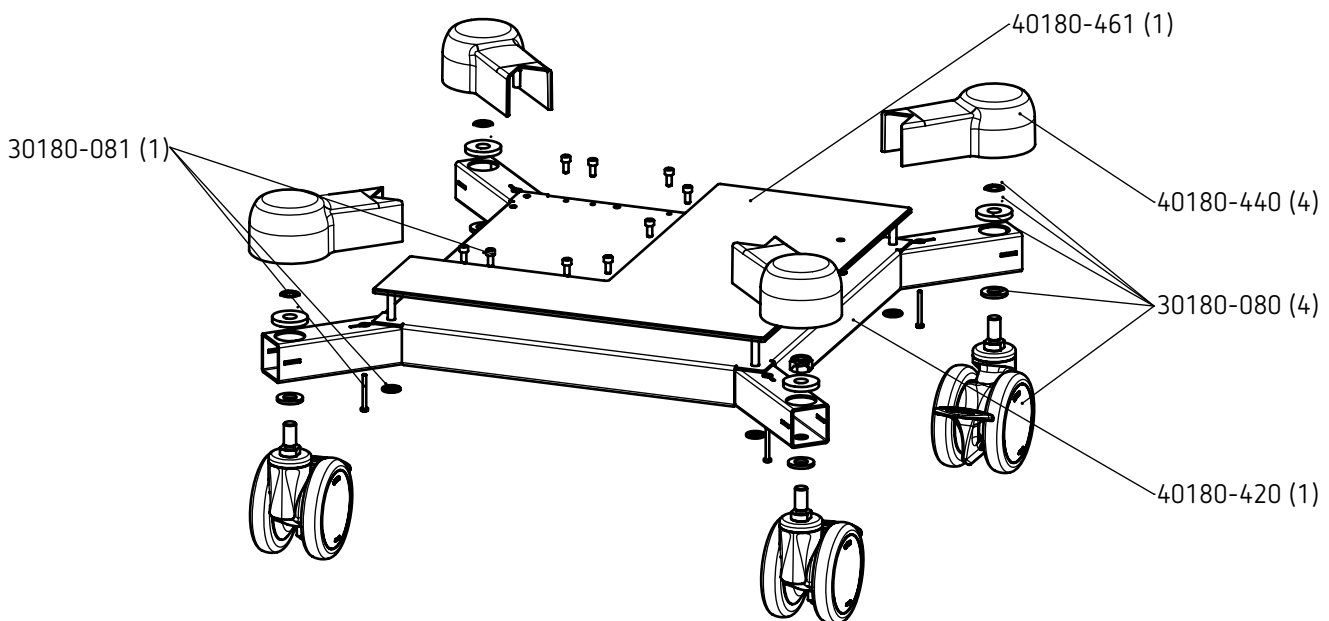
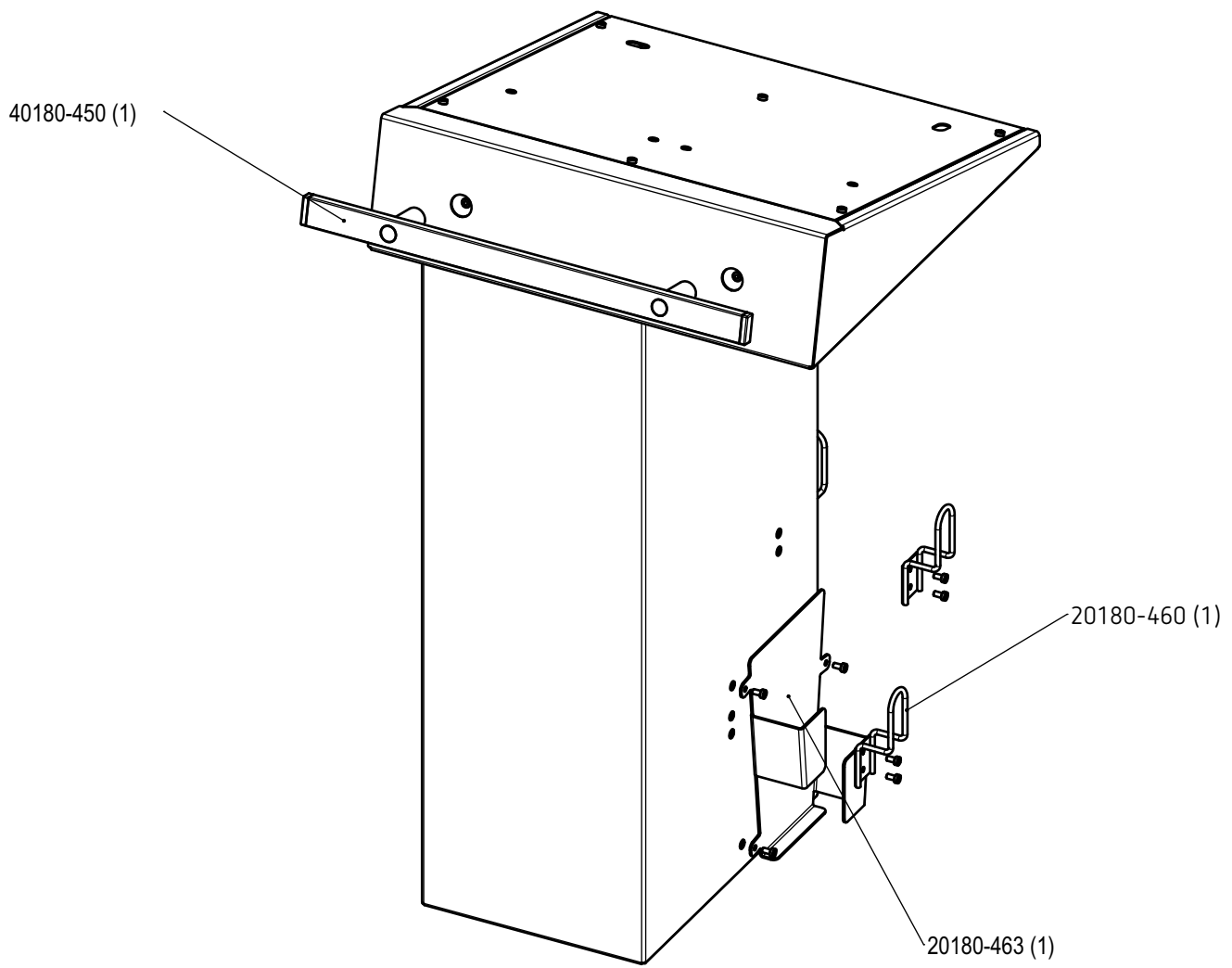
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Chapter 12

Spare parts for SystemCarrier compact plus



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

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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 medical device labels, labelling and information to be supplied	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 medical device labels, labelling and information to be supplied	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 medical device labels, labelling and information to be supplied	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 medical device labels, labelling and information to be supplied	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 medical device labels, labelling and information to be supplied	5.1.1		Manufacturer	Indicates the medical device manufacturer.
ISO 15223-1 Medical devices – Symbols to be used with medical device labels, labelling and information to be supplied	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 medical device labels, labelling and information to be supplied	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 medical device labels, labelling and information to be supplied	5.3.4		Keep dry	Indicates a medical device that needs to be protected from moisture.
ISO 15223-1 Medical devices – Symbols to be used with medical device labels, labelling and information to be supplied	5.3.7		Temperature limit	Indicates the temperature limits to which the medical device can be safely exposed.

Standard	Ref. no.	Symbol	Title	Explanation
ISO 15223-1 Medical devices – Symbols to be used with medical device labels, labelling and information to be supplied	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 medical device labels, labelling and information to be supplied	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 medical device labels, labelling and information to be supplied	5.7.7		Medical device	Indicates the item is a medical 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			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.
IEC 60417 Graphical Symbols for Use on Equipment	5988		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.

Standard	Ref. no.	Symbol	Title	Explanation
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 danger of leakage currents and therefore the danger 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.
–	–	ECB	Erbe Communication Bus	Indicates an ECB connection. ECB is a system for transferring data between Erbe units.
–	–		Air inlet	Indicates an air inlet.
–	–		Air outlet	Indicates an air outlet.

Kontakt, Contact, Contacto, 联系我们

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