

Authorized Specialists

manual

Installation and Operating Instructions

Volume 1

SB-MultiTerminal 300299-DE/UK-A

English



**MultiTerminal
DUO 5in1**



**MultiTerminal
DUO 4in1**



MultiTerminal DUO 6in1

MultiTerminals optional MONO / DUO

Declaration of Conformity

Manufacturer: Ehrle GmbH
Address: Industriestraße 3
D – 89165 Dietenheim
Product: MultiTerminal
Type: 4in1 TireShine, 4in1 Tire Inflator
5in1 Tire Inflator and TireShine
6in1 Tire Inflator, TireShine, Fragrance Sprayer

This product is in conformity with the European Directives:

Relevant EC Directives:

2004/108/EC
2006/42/EC
2014/68/EU
2014/35/EU
2014/30/EU

Applied harmonized standards:

EN 60335-1
EN 60335-2-79
ISO 12100:2013-08
EN 61000-3-2:2019-12
EN 61000-3-3:2008
EN 55014-1:2006+A1 2009+A2: 2011
EN 55014-2:2015
EN 61000-3-11: 2021-03

Conformity procedures applied:

2000/14/EG: Annex V

This product conforms to
the following directives:

UK UK
CA NI

CE

Dietenheim, 01.07.2025

Development



Christoph Nöldner
Head of Development



Reiner Ehrle
CEO

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1 User information

1.1 General



Allgemeine Information

For comprehensive advice and information on the Self-Service MultiTerminal system variants, please contact EHRLE's customer service team at any time.

The Technical Documentation (circuit diagrams, supplier operating instructions, safety data sheets, etc.) is contained in Volume 2.

With the purchase of an EHRLE Self-Service MultiTerminal you are the owner of a quality product, which is characterised by:

- user-friendliness,
- reliability,
- environmental friendliness.

The documentation for the Self-Service MultiTerminal includes:

- Installation and Operating Instructions, Volume 1
- Technical Documentation, Volume 2.

The German manuals are the original editions.

The two manuals are part of the Self-Service MultiTerminal and must be kept at the operating site and available at all times.

The Installation and Operating Instructions (Volume 1) contains information on:

- User information
- Safety
- Product information
- Installation
- Commissioning
- Operation
- Decommissioning
- Maintenance
- Troubleshooting
- Spare parts

The Manual with the Technical Documentation (Volume 2) contains

- circuit diagrams
- hydraulic diagrams
- supplier operating instructions
- safety data sheets for care products and chemicals.

1.2 Operating concept

The Self-Service MultiTerminal is designed for:

- **Maintenance personnel of plant operators**
with access via lockable cabinet doors to
 - system units, device assemblies and components inside the cabinet
 - Ethernet interface for setting system parameters
 - control elements inside the cabinet.
 - pressure regulators and pressure gauges
 - control and indicator elements
 - maintenance components (filter, care product containers etc.)
- **Self-Service operation by customers during opening hours**
with exclusive access to
 - control and display units for accessing and operating the Care Programs and Tire Inflator Station
 - Care Tools and tire valve adapter of the Tire Inflator Station on the Care Tool Panel.

1.3 Terminology

In this manual the terminology listed below is replaced by the relevant short terms whenever possible:

- | | |
|---|---------------|
| • Installation and Operating Instructions | Manual |
| • Self-Service MultiTerminal | MultiTerminal |

If a clear factual reference is required in parts of the description, the full terminology is used.

1.4 Meaning of the emphasis

The emphasis used in this manual have the following meanings:

WARNING

Warning precedes operating procedures, instructions, etc., which, if not strictly observed, could result in personal injury or loss of life. Warning precedes also, when MultiTerminal misuse could result in personal injury or loss of life.







CAUTION





Caution precedes operating procedures, instructions, etc., which, if not strictly observed, could result in damage to the MultiTerminal components. Caution precedes also, when MultiTerminal misuse could result in damage to the system components.



This symbol indicates additional information.

1.5 Meaning of the symbols

Symbol	Meaning
	WARNING Follow instructions! Non-observance or neglecting of prescribed instructions, incorrect operation or misuse of the system may endanger life and limb of persons.
	WARNING Danger of death due to electric shock. Switch off the system and disconnect it from the power supply before starting installation, maintenance and repair work. Protect the system against unintentional restarting. Touching live parts can lead to life-threatening injuries.
	WARNING Risk of burns due to hot surface of units. Units can become very hot during operation. Touching hot surfaces can cause burns to the surface of the skin. Wait until the units have cooled down before touching the surfaces.
	WARNING Risk of injury due to suspended load. No persons may be in the danger zone or under the suspended load. A falling load endangers the life and limb of persons.
	WARNING Danger with heavy loads. A person is not allowed to lift and move loads more than 23 kg. Otherwise the health of persons may be endangered (e.g. overload of the spinal column, injuries from falling loads). For loads of more than 23 kg, use suitable lifting equipment (e.g. forklift truck, lift truck).
	CAUTION Observe instructions for installation, system adjustment, operation, maintenance and repair. Non-observance or neglecting prescribed instructions, incorrect operation or misuse of the system may result in damage to parts, assemblies or components.

Symbol	Meaning
	General Information. General additional information.
	Information on recycling. General information on recycling.
	Information on disposal. General information on the professional and environmentally sound disposal of old appliances, assemblies, components, materials and consumables. The symbol with the crossed-out dustbin indicates that.
	Requires direct action.

1.6 Target group

The Installation and Operating Instructions (Volume 1) and the Technical Documentats (Volume 2) contain information and instructions for:

- Qualified, trained and authorized specialist personnel for the installation and initial commissioning of the Self-Service MultiTerminal.
- Qualified electricians for electrical installation and repair measures in the event of electrical malfunctions.
- Qualified, trained maintenance personnel authorized by the system operator for:
 - supervision of daily commissioning and preparatory measures for self-service operation (opening hours).
 - monitoring of the payment system with emptying of daily cash intake
 - setting and care work
 - maintenance work.

1.7 Warranty and Liability

The Self-Service MultiTerminal may only be used for its intended use.

Intended use includes

- Installation, maintenance and setting work may only be carried out by specialised personnel, who
 - is instructed and trained on the system, or
 - have fully read and understood the information and instructions in this Installation and Operating Instructions and are thereby able to ensure safe handling of the system.
- The information and instructions contained in this Installation and Operating Instructions must be observed.
- Installation, maintenance, repair and setting of the system only by qualified, trained and authorized personnel. For installation, maintenance, repair and setting of the system, the relevant specialist personnel can be consulted and commissioned by the EHRLE Customer Service.
- The system must not be put into operation if the safety systems and protective covers are faulty.
- The system may only be operated with fully functional safety equipment and protective covers. In the event of functional failures during operation, the system must be taken out of operation immediately.
- Faulty, insufficient or defective systems must not be put into operation. Before commissioning, carry out a visual inspection for faulty, inadequate or defective system components.
- No constructive changes may be made to the system.
- The system may only be operated in the configuration certified by the manufacturer. Operation with subsequently installed modules, components or additional devices is not permitted and may endanger life and limb of persons or lead to damage to the system.
- Only original parts from the manufacturer or consumables approved by the manufacturer may be used for maintenance and repair work.
- Only care products or chemicals approved by the manufacturer may be used for the Chemical Dosing Unit operation.

Any warranty and liability claims for personal injury and damage to the system units are void if the system is not used for its intended use.

1.8 Environmental protection



Note on recycling

The packaging materials are recyclable. Please do not throw the packaging into the household waste, but recycle it.



Note on disposal.

Old appliances, assemblies or device parts contain valuable recyclable materials that should be sent for possible recovery.

The old appliances must not be disposed of together with unsorted municipal waste (household waste). The symbol with the crossed-out dustbin on the appliance indicates this obligation.

Therefore, please dispose of discarded devices, assemblies or parts properly via suitable collection systems.

Dispose of used materials in an appropriate and environmentally friendly manner. Observe the local regulations.

Old appliances, assemblies or device parts contain valuable recyclable materials that should be recycled.

According to environmental regulations, lubricants such as oils and greases must not get into the ground, water or sewer system.

Do not allow chemicals and care products to be released into the environment. Protect the soil and dispose of chemicals and care products in an environmentally friendly manner.

The plant operator must comply with environmental, waste, and water protection regulations!

2 Safety

2.1 General safety information

Observe the relevant national regulations of the legislator on accident prevention.

Observe the respective national legal regulations for operating the Self-Service MultiTerminal.

The specialised personnel for installation, maintenance, repair and setting must be able to assess the accident hazards on the system and be aware of the risks.

Maintenance personnel must be regularly trained by means of safety instructions on the danger areas and the warning signs, symbols and instructions attached to the MultiTerminal.

Do not use any aggressive, abrasive cleaning agents or cleaning solutions to clean the MultiTerminal.

Observe the safety instructions provided with the cleaning chemicals used (usually on the packaging label).

Keep cleaning agents out of the reach of unauthorized persons. Risk of poisoning or caustic burns from cleaning agents! Observe the instructions on the cleaning agents.

Perform prescribed maintenance and inspection work in due time (see section 8, Maintenance).

Report safety-relevant defects and faults immediately and commission their rectification without delay.

Observe the warning signs, symbols and instructions on the MultiTerminal and keep it legible.

2.2 Access for persons to the cabinet interior

Only qualified, trained maintenance personnel authorized by the plant operator may have access to the cabinet interior for maintenance, repair and setting work.

2.3 Intended use

The Care Tools and Tire Inflator Station may only be used for their intended purpose.

The Care Tools

- Vacuum Cleaner Nozzle
- Tornado Nozzle
- Cockpit Air Gun
- Fragrance Sprayer

may only be used for care and cleaning the interior and trunk of cars.

The Tornado TireShine may only be used for the care of the visible outer surface of car tires.

The Tire Inflator Station may only be used for tire pressure regulation of cars.

Any other use constitutes improper use. Any warranty and liability claims for personal injury and damage to property are void if the system is used in a manner other than that intended.

2.4 Safety instructions for customer operations

The MultiTerminal is designed for public customer use.

The design of the MultiTerminal, based on the specified operating settings for compressed air and the supply of care products, ensures safe customer operation when used as intended.

The cabinet doors must be closed and locked with a key during self-service opening hours. The keys must be kept in a place accessible only to authorized personnel.

The MultiTerminal can be used by persons aged 14 and over and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance and understand the hazards involved. Children must not play with the MultiTerminal.

The Care Tools

- Vacuum Cleaner Nozzle
- Tornado Nozzle
- Tornado TireShine
- Cockpit Air Gun
- Fragrance Sprayer

must not be directed at yourself, other people, or animals.

Compressed air blown onto the skin or open wounds can cause serious injury. If compressed air enters injured skin or body orifices, it can cause embolisms, which can be fatal in some cases.

Never point compressed air guns in such a way that air is blown through liquids or small particles, thereby endangering other people.

Do not use the Care Tools for cleaning or surface treatment of clothing, equipment, devices, assemblies, or other objects.

Do not point compressed air guns at flammable substances, liquids, or particles.

Do not use the Tornado TireShine to treat the treads of car tires or parts of the brake system. Otherwise, there is a risk to life and limb

Do not use the cleaning tools to clean electrical sockets (interface sockets) or other electrical components. Do not insert the compressed air gun nozzle into electrical sockets for cleaning.

The Tire Inflator Station may only be used for inflating passenger car tires.

The warnings and safety instructions in the manufacturer's operating instructions (see Technical Documentats in Volume 2) for the Care Tools and Tire Inflator Station must be observed:

- Tornado Nozzle
- Tornado TireShine
- Chemical Dosing Unit
- Tire Inflator Station

The safety data sheets (see Technical Documents in Volume 2) and information provided by the care product manufacturers must be observed.

2.5 Duty of care for the plant operator

It is the duty of care of the plant operator to ensure that all safety regulations, instructions and information for comprehensive operation are observed and monitored by the maintenance personnel.

The information in this Installation and Operating Instructions manual and the related documentation must be observed.

The plant operator must ensure:

- The system may only be operated in a technically perfect condition and in accordance with its intended purpose, with an awareness of safety and dangers, and in compliance with this manual.
- Take the system out of operation immediately or do not put it into operation under any circumstances if damage or destruction is found on the system parts, the fastening parts or the power supply or if safe operation cannot be guaranteed.
- If parts are damaged, incorrect operation or other defects, stop operation immediately or do not use the system. Immediately rectify any damage, incorrect operation or function and contact customer service if necessary.
- In order to carry out the maintenance tasks comprehensively, the maintenance personnel must be regularly trained and instructed in relation to occupational safety and environmental protection.
- The areas of responsibility, competences and monitoring of the maintenance personnel must be regulated by the plant operator.
- The currently applicable local accident prevention regulations, the local industrial safety regulations and other safety-related rules and regulations as well as the operating instructions must be observed.
- In addition to this manual, the generally applicable and local regulations for accident prevention and environmental protection must be made available and observed.

2.6 Duty of care for the maintenance personnel

The maintenance personnel have the following duties:

- Monitoring of system operation during opening hours in self-service operation with regard to safety and function.
- Ensure that the cabinet doors are closed and the door locks are locked during self-service opening hours. The keys must be kept in a place accessible only to authorized personnel.
- Wear the appropriate Personal Protective Equipment (PPE) for special maintenance work.
- Carry out maintenance work in accordance with regulations.
- Always keep the area around and inside the cabinet clean. Ensure that the floor and the interior are not dirty and/or smeared with oil or grease. If necessary, clean the areas and remove the oil and grease.
- All instructions, information and safety instructions in this manual must be observed.

- All warning signs, information and notices attached to the MultiTerminal must be observed and kept legible.
- Any use of the system is prohibited for maintenance personnel under the influence of alcohol or drugs. If you are taking medication, a doctor must be consulted before using the system. The medical instructions must be observed.

2.7 Accident prevention regulations

Observe the applicable national regulations of the legislator on accident prevention

2.8 Lifting and moving loads

The MultiTerminals weigh 495 kg respectively 626 kg. Components of the MultiTerminals can have a weight of more than 23 kg.

Lifting and moving loads is permitted for one person up to 23 kg. If the load exceeds 23 kg use suitable lifting equipment (e.g. forklift, lift trucks)

Observe the international standard „ISO 11228-1 Ergonomie - Manuelles Handhaben von Lasten - Teil 1 Heben und Tragen 05/2003“.

2.9 Periodic inspections

The periodic inspections are listed in Section 8 (Maintenance).

2.10 Manufacturer tests

The acceptance test report is part of the scope of delivery.

2.11 Safety regulations electrical connection

When working on electrically live parts:

- Observe accident prevention regulations DGUV V3 (previously BGV A3) and local regulations
- use tools according to DIN EN 60900.

2.12 Design changes to the MultiTerminal

Design changes to the MultiTerminal are not permitted.

When operating a system which has been modified or changed in design, the system will not be used for its intended purpose. If the system is not used for its intended purpose, no liability or warranty will be accepted (see section 1.7, Warranty and Liability).

2.13 Safety devices

Safety devices and protective covers serve to protect personnel or operators and may not be disabled or their function bypassed.

The MultiTerminal has safety and protective covers. All safety and protective covers must be fitted during operation.

The programme STOP button is used to stop an activated programme immediately in order to prevent unforeseen processes, risk of damage to the system or risk of injury to persons.

2.14 Calibration requirement for Tire Inflator Station

If Tire Inflator Stations are accessible for public customer use at gas stations, automotive businesses, car care stations, etc., there may be country-specific laws regarding calibration obligation.

Country-specific laws on calibration requirements must be observed.

A calibration based on country-specific laws must take place:

- during the initial commissioning of a system, the commissioning engineer is responsible.
- according to legally prescribed deadlines.

Authorized for the calibration of Tire Inflator Stations are:

- Measurement offices
- State-approved testing laboratories or calibration laboratories approved by authorities.

3 Product description

3.1 General product overview



General Information

Ehrle's product range for Self-Service MultiTerminals includes both MONO and DUO variants.

Plant operators can choose a tailored solution for their individual needs from the range of product variants offered.

EHRLE customer service can be consulted at any time for detailed advice and information on the product variants.




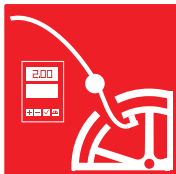
Each product variant is offered in MONO and DUO configurations.

3.2 Product variants





The following table lists the different variants with their equipment and refers to the sections with detailed information.

System designation	Variant	Reference
Self-Service MultiTerminal 4in1 MONO / DUO	Electronic Tire Inflator Station	see section 3.2.1
Self-Service MultiTerminal 4in1 MONO / DUO	TireShine Station	see section 3.2.2
Self-Service MultiTerminal 5in1 MONO / DUO	Electronic Tire Inflator Station and TireShine Station	see section 3.2.3
Self-Service MultiTerminal 6in1 MONO / DUO	Electronic Tire Inflator, TireShine Station and Fragrance Sprayer	see section 3.2.4





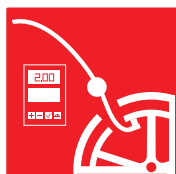
3.2.1 Self-Service MultiTerminal 4in1

Electronic Tire Inflator Station			
Equipment	MONO	DUO	Symbol
Article-No.	195002	195001	-
Vacuum Cleaner	x	2 x	
Tornado Nozzle with cleaning agent dosage	x	2 x	
Cockpit Air Gun 3 bar	x	2 x	
Electronic Tire Inflator Station with Memory	x	2 x	







3.2.2 Self-Service MultiTerminal 4in1

TireShine Station			
Equipment	MONO	DUO	Symbol
Article-No.	195003	195004	-
Vacuum Cleaner	x	2 x	
Tornado Nozzle with cleaning agent dosage	x	2 x	
Cockpit Air Gun 3 bar	x	2 x	
Tornado TireShine Nozzle with TireShine dosing	x	2 x	

3.2.3 Self-Service MultiTerminal 5in1

Electronic Tire Inflator and TireShine Station			
Equipment	MONO	DUO	Symbol
Article-No.	195005	195006	-
Vacuum Cleaner	x	2 x	
Tornado Nozzle with cleaning agent dosage	x	2 x	
Cockpit Air Gun 3 bar	x	2 x	
Tornado TireShine Nozzle with TireShine dosing	x	2 x	
Electronic Tire Inflator Station with Memory	x	2 x	

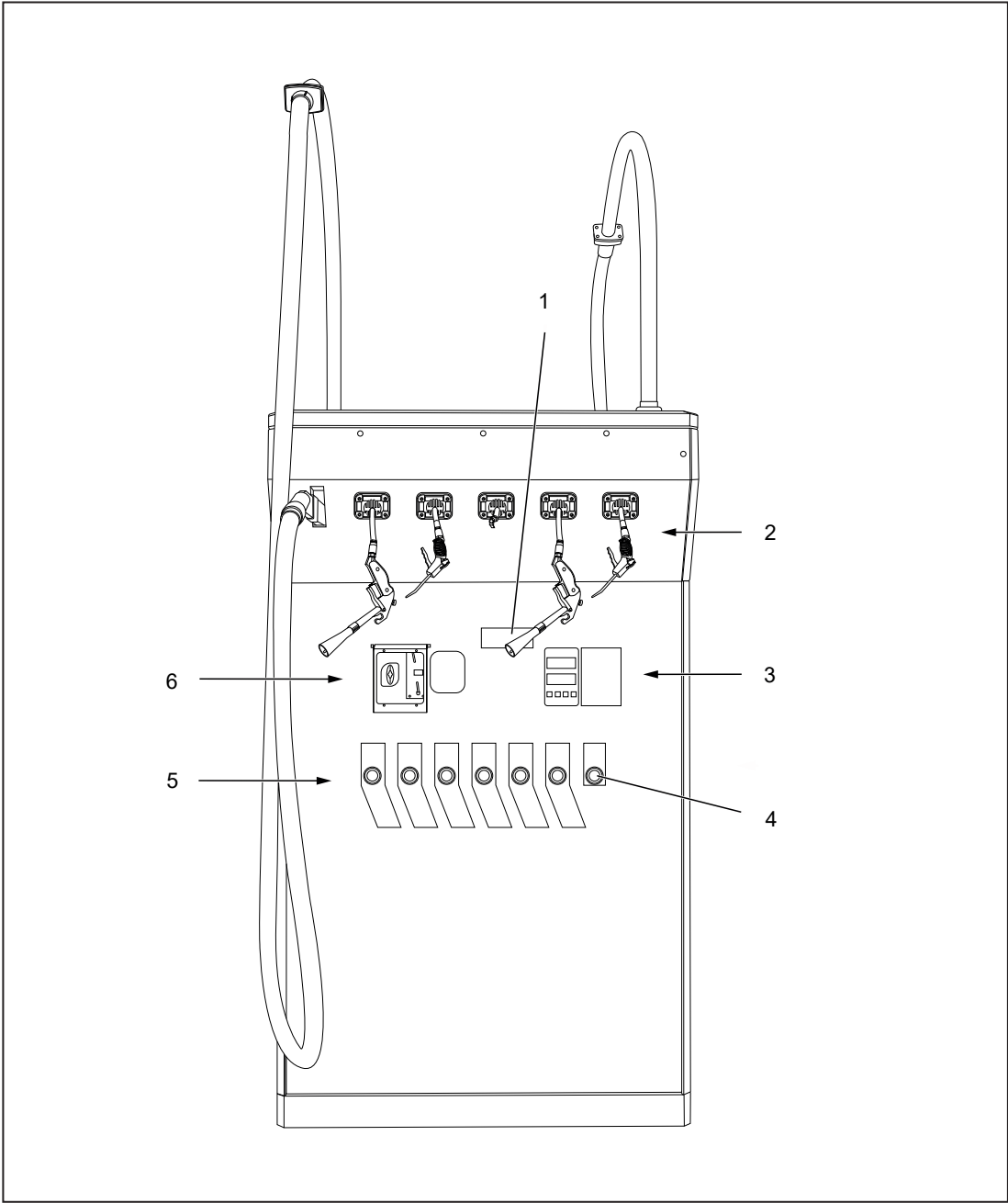
3.2.4 Self-Service MultiTerminal 6in1

Electronic Tire Inflator, TireShine Station and Fragrance Sprayer			
Equipment	MONO	DUO	Symbol
Article-No.	195007	195008	-
Vacuum Cleaner	x	2 x	
Tornado Nozzle with cleaning agent dosage	x	2 x	
Cockpit Air Gun 3 bar	x	2 x	
Fragrance Sprayer	x	2 x	
Electronic Tire Inflator Station with Memory	x	2 x	
Tornado TireShine Nozzle with TireShine dosing	x	2 x	

3.3 MultiTerminal views

3.3.1 Total view of the MultiTerminal 6in1 DUO

The illustration shows the MultiTerminal DUO 6in1 product variant with all possible program equipment (for the different product variants, see section 3.2).

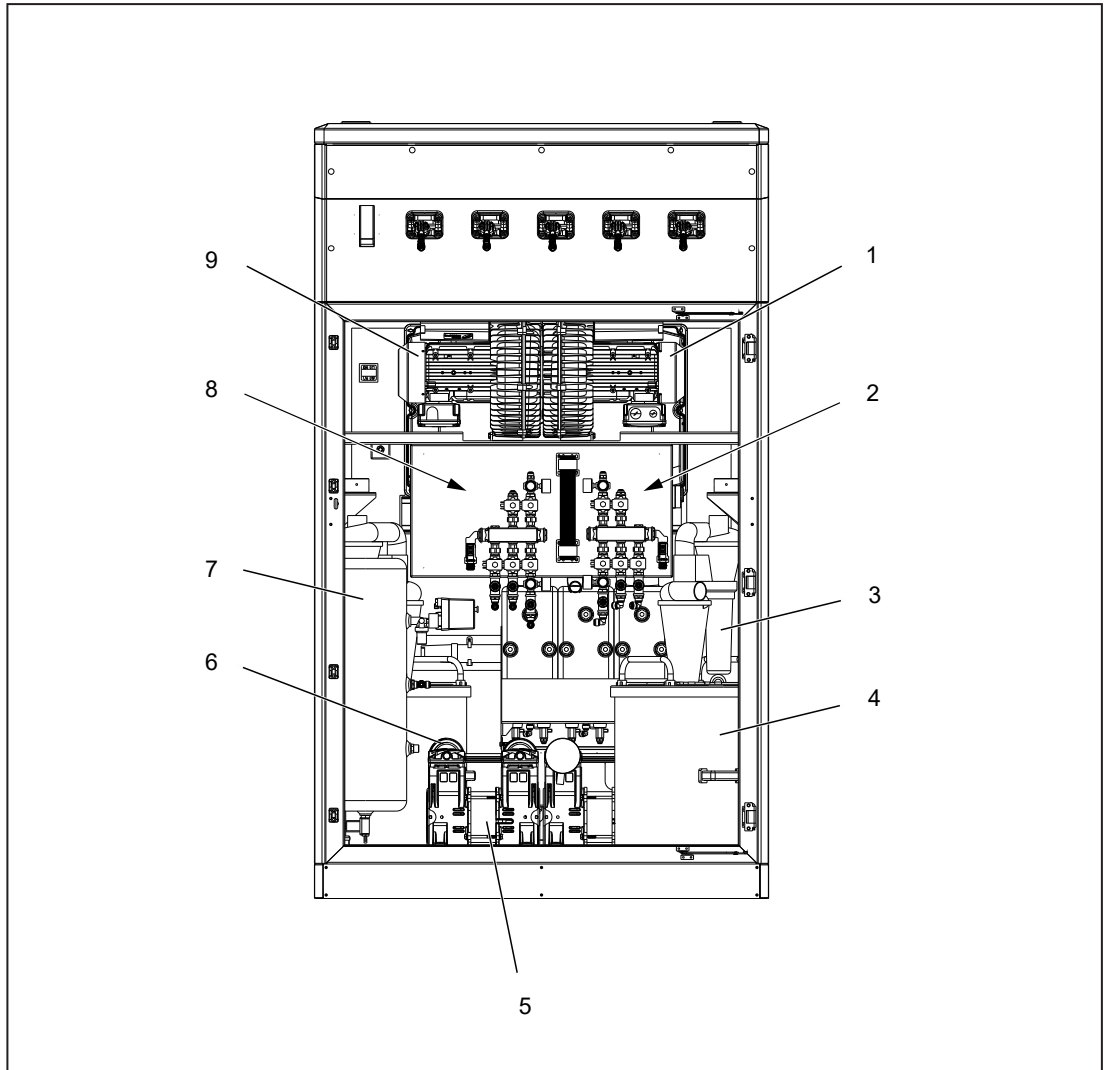


- | | | | |
|---|-------------------------------------|---|--|
| 1 | Care time display unit (4-digits) | 5 | Program selection buttons |
| 2 | Care Tool panel | 6 | CentralPay System (key-reader, coin checker, |
| 3 | Control Panel Tire Inflator Station | | CarWash key, credit card terminal |
| 4 | STOP button | | bank note reader (option)) |

Fig. 3 - 1 Self-Service MultiTerminal 6in1 DUO, front view

3.3.2 MultiTerminal 6in1 DUO interior view Pneumatic Distributor side

The illustration shows the view of the Pneumatic Distributor side with the door open for the MultiTerminal 6in1 product variant with all possible cleaning and care programmes (for product variants, see section 3.2).

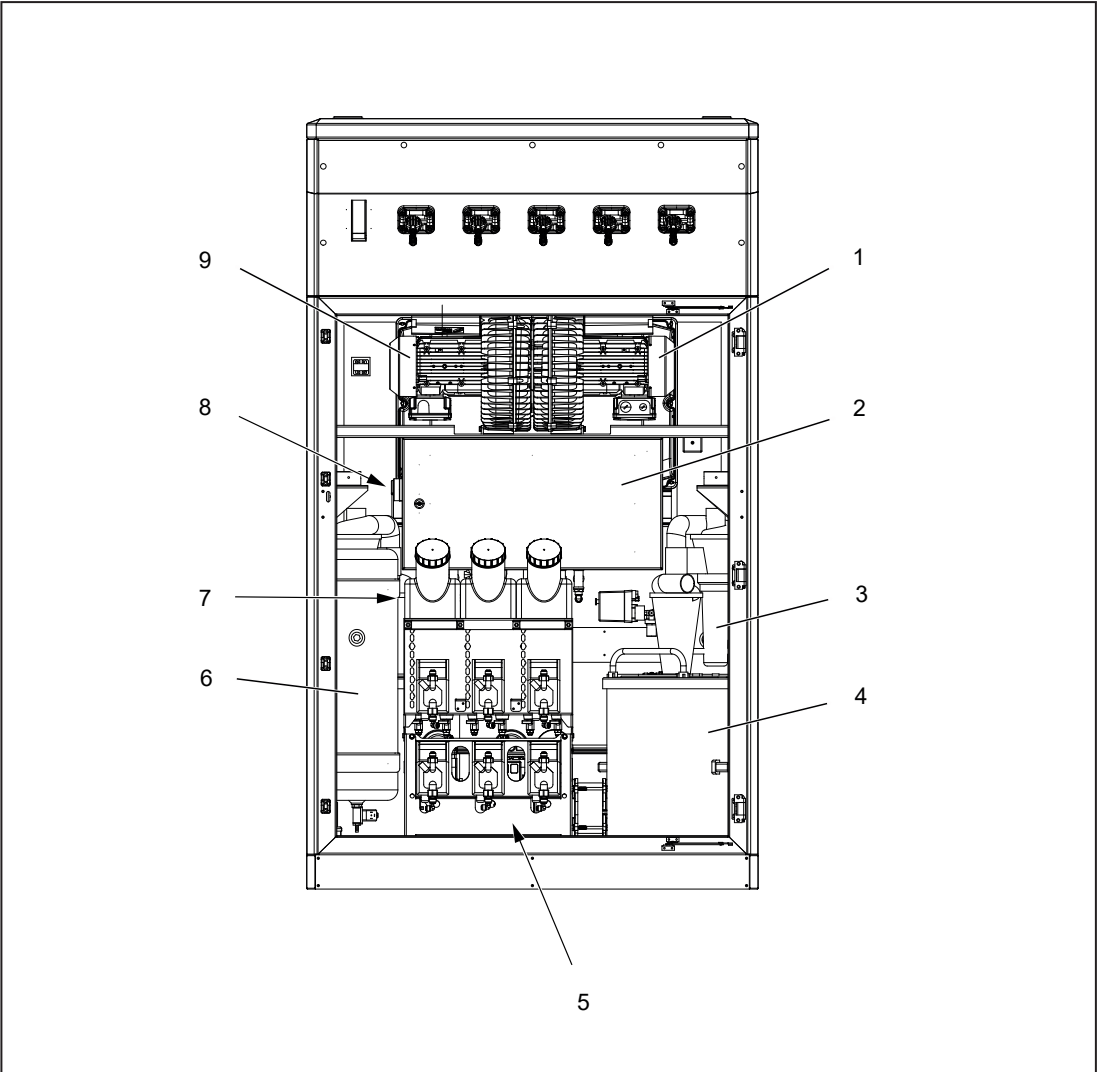


- | | |
|--|--|
| 1 Side Channel Blower (vacuum cleaner) | 6 Filter (2x) for compressor |
| 2 Pneumatic Distributor unit for care tools on this cabinet side | 7 Pressure vessel (care tools) |
| 3 Fine particle filter (dirt container) | 8 Pneumatic Distributor unit for care tools on the Electrical Control Box side |
| 4 Dirt container (vacuum cleaner) | 9 Side Channel Blower (vacuum cleaner) |
| 5 Compressor | |

Fig. 3 - 2 MultiTerminal 6in1, interior view of Pneumatic Distributor side

3.3.3 MultiTerminals 6in1 DUO interior view
control box side

The illustration shows the view of the Electrical Control Box side with the door open for the MultiTerminal 6in1 product variant with all possible cleaning and care programmes (for product variants, see section 3.2).

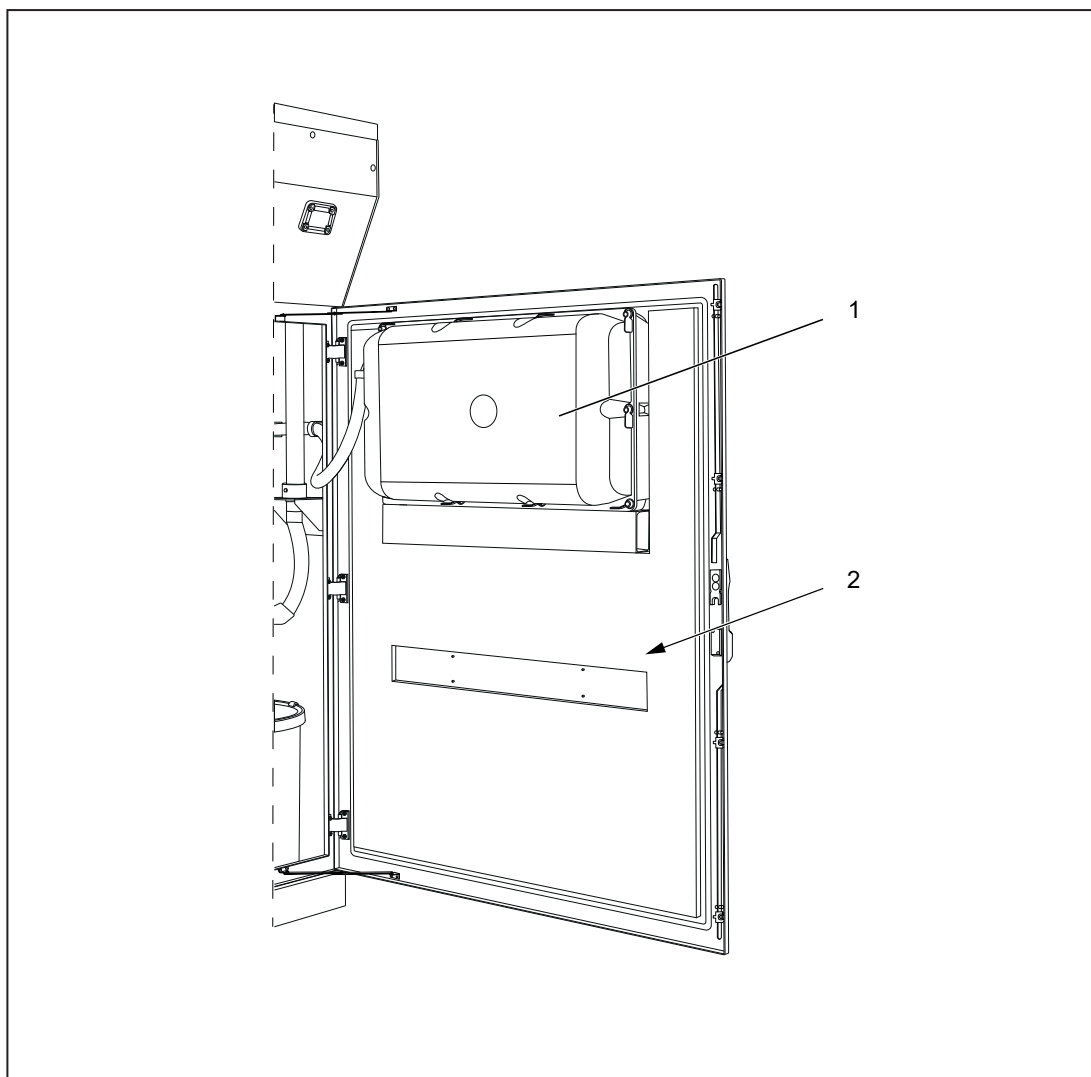


- | | |
|--|--|
| 1 Side Channel Blower (vacuum cleaner) | 6 Pressure vessel (care tools) |
| 2 Electrical Control Box | 7 Care product containers for Chemical Dosing Units, container for Tornado Nozzle, Fragrance Sprayer and Tornado TireShine |
| 3 Fine particle filter (dirt container) | 8 Main switch MultiTerminal |
| 4 Dirt container (vacuum cleaner) | 9 Side Channel Blower (vacuum cleaner) |
| 5 Mounting bracket for Chemical Dosing Units | |

Fig. 3 - 3 MultiTerminal 6in1, interior view of Electrical Control Box side

3.3.4 MultiTerminals 6in1 DUO door rear on Electrical Control Box side

The illustration shows the door rear on the Electrical Control Bbox side.



- 1 Protective cover control-/indicator units and Central Pay System
- 2 Heating element installation location on Electrical Control Box side

Fig. 3 - 4 MultiTerminal 6in1, door rear on the Electrical Control Box side



3.4 Type plates

3.4.1 Tire Inflator Station MONO/DUO 4in1

Type: Self-Service MultiTerminal
MONO 4in1 INOX 195002-XX-A
Variant: Tire inflator

Electrical connection	3/N/PE/AC/50Hz/400V
Connected load	5,2kW
Fuse protection	3x16A
Protection class	IPX3
Operating temperature	-10°C - +35°C
Sound ressure level	76db(A)
Weight	495kg
Compressor	2x2 Cylinder
Compressed air intake capacity	200lpm
Working pressure	8bar/0,8MPa
Air tanks	2x35l
Max. Pressure	10bar/0,10MPa
Suction capacity	3700lpm/160mbar
Dirt container	50l

EAC
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CA
CE
UK
NI

Serial No.: 011111001 90609

EHRLE GmbH | Industriestraße 3 D-89165 Dietenheim
Tel.: 07303 / 1600-0 | Fax: 07303 / 1600-600

Type: Self-Service MultiTerminal
DUO 4in1 INOX 195001-XX-A
Variant: Tire inflator

Electrical connection	3/N/PE/AC/50Hz/400V
Connected load	7,4kW
Fuse protection	3x20A
Protection class	IPX3
Operating temperature	-10°C - +35°C
Sound pressure level	78db(A)
Weight	566kg
Compressor	2x2 Cylinder
Compressed air intake capacity	200lpm
Working pressure	8bar/0,8MPa
Air tanks	2x35l
Max. Pressure	10bar/0,10MPa
Suction capacity	3700lpm/160mbar
Dirt container	2x50l

EAC
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UK
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Serial No.: 010111001 90609

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3.4.2 TireShine Station MONO/DUO 4in1

Type: Self-Service MultiTerminal
MONO 4in1 INOX 195003-XX-A
Variant: Tire shine



Electrical connection	3/N/PE/AC/50Hz/400V
Connected load	5,2kW
Fuse protection	3x16A
Protection class	IPX3
Operating temperature	-10°C - +35°C
Sound pressure level	76db(A)
Weight	495kg
Compressor	2x2 Cylinder
Compressed air intake capacity	200lpm
Working pressure	8bar/0,8MPa
Air tanks	2x35l
Max. Pressure	10bar/0,10MPa
Suction capacity	3700lpm/160mbar
Dirt container	50l



Serial No.: 101111000 90609

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Type: Self-Service MultiTerminal
DUO 4in1 INOX 195004-XX-A
Variant: Tire shine



Electrical connection	3/N/PE/AC/50Hz/400V
Connected load	7,4kW
Fuse protection	3x20A
Protection class	IPX3
Operating temperature	-10°C - +35°C
Sound pressure level	78db(A)
Weight	585kg
Compressor	2x2 Cylinder
Compressed air intake capacity	200lpm
Working pressure	8bar/0,8MPa
Air tanks	2x35l
Max. Pressure	10bar/0,10MPa
Suction capacity	3700lpm/160mbar
Dirt container	2x50l



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3.4.3 Tire Inflator Station and TireShine Station
MONO/DUO 5in1

Type: Self-Service MultiTerminal
MONO 5in1 INOX 195005-XX-A



Electrical connection	3/N/PE/AC/50Hz/400V
Connected load	5,2kW
Fuse protection	3x16A
Protection class	IPX3
Operating temperature	-10°C - +35°C
Sound pressure level	76db(A)
Weight	501kg
Compressor	2x2 Cylinder
Compressed air intake capacity	200lpm
Working pressure	8bar/0,8MPa
Air tanks	2x35l
Max. Pressure	10bar/0,10MPa
Suction capacity	3700lpm/160mbar
Dirt container	50l



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Type: Self-Service MultiTerminal
DUO 5in1 INOX 195006-XX-A



Electrical connection	3/N/PE/AC/50Hz/400V
Connected load	7,4kW
Fuse protection	3x20A
Protection class	IPX3
Operating temperature	-10°C - +35°C
Sound pressure level	78db(A)
Weight	591kg
Compressor	2x2 Cylinder
Compressed air intake capacity	200lpm
Working pressure	8bar/0,8MPa
Air tanks	2x35l
Max. Pressure	10bar/0,10MPa
Suction capacity	3700lpm/160mbar
Dirt container	2x50l



Serial No.: 011111001 90609

EHRLE GmbH | Industriestraße 3 D-89165 Dietenheim
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3.4.4 Tire Inflator Station, TireShine Station and
Fragrance Sprayer MONO/DUO 6in1

Type: Self-Service MultiTerminal
MONO 6in1 INOX 195007-XX-A



Electrical connection	3/N/PE/AC/50Hz/400V
Connected load	5,2kW
Fuse protection	3x16A
Protection class	IPX3
Operating temperature	-10°C - +35°C
Sound pressure level	76db(A)
Weight	524kg
Compressor	2x2 Cylinder
Compressed air intake capacity	200lpm
Working pressure	8bar/0,8MPa
Air tanks	2x35l
Max. Pressure	10bar/0,10MPa
Suction capacity	3700lpm/160mbar
Dirt container	50l



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Type: Self-Service MultiTerminal
DUO 6in1 INOX 195008-XX-A



Electrical connection	3/N/PE/AC/50Hz/400V
Connected load	7,4kW
Fuse protection	3x20A
Protection class	IPX3
Operating temperature	-10°C - +35°C
Sound pressure level	78db(A)
Weight	626kg
Compressor	2x2 Cylinder
Compressed air intake capacity	200lpm
Working pressure	8bar/0,8MPa
Air tanks	2x35l
Max. Pressure	10bar/0,10MPa
Suction capacity	3700lpm/160mbar
Dirt container	2x50l



Serial No.: 011111001 90609

EHRLE GmbH | Industriestraße 3 D-89165 Dietenheim
Tel.: 07303 / 1600-0 | Fax: 07303 / 1600-600

3.5 Serial number

The serial number on the nameplate uniquely identifies the product. It is required for Ehrle customer service.

Ser. No. _____

3.6 Technical data

3.6.1 Tire Inflator Station

		MultiTerminal 4in1	
		MONO	DUO
Electrical connection			
Mains voltage	V	400	400
Phase	~	3	3
Mains frequency	Hz	50	50
Connected load	kW	5,2	7,4
Current (max.)	A	12,5	15,5
Degree of protection	IP	IPX3	IPX3
Main fuse (slow blowing)	A	3 x 16	3 x 20
Chemical Dosing Unit (equipment dosing pump)			
Chemical suction quantity	l/h	1,5	1,5
Pressure	Bar	12	12
Suction height max. (from bottom of chemical tank)	m	1,5	1,5
Vacuum Cleaner			
Suction capacity	lpm	3700	2 x 3700
Vacuum	mbar	160	160
Dirt container	l	40	2 x 40

Tab. 3 - 1 Technical data for MultiTerminal 4in1, Tire Inflator Station

		MultiTerminal 4in1	
		MONO	DUO
Compressed air production			
2 x 2 cylinder piston compressor (oil-free)			
Compressed air intake capacity	lpm	200	200
Operating pressure	bar	8	8
Aluminium compressed air tanks	l	2 x 35	2 x 35
Pressure max.	bar	10	10
Pressure reducer for high and low pressure system			
Hose lengths			
Suction hose Vacuum Cleaner	m	4,5	2 x 4,5
Pressure hose Tornado Nozzle	m	10	2 x 10
Pressure hose Cockpit Air Gun	m	10	2 x 10
Pressure hose Tire Inflator Station	m	10	2 x 10
Environmental conditions			
Temperature	°C	-10 to +35	-10 to +35
Noise emission			
Noise level	dB (A)	76	78
Weights and dimensions			
Weight	kg	495	566
Length	mm	1090	1090
Width	mm	1200	1200
Height without suction mast	mm	2210	2210
Height with suction mast	mm	3280	3280

Tab. 3 - 1 Technical data for MultiTerminal 4in1, Tire Inflator Station

3.6.2 TireShine Station

		MultiTerminal 4in1	
		MONO	DUO
Electrical connection			
Mains voltage	V	400	400
Phase	~	3	3
Mains frequency	Hz	50	50
Connected load	kW	5,2	7,4
Current (max.)	A	12,5	15,5
Degree of protection	IP	IPX3	IPX3
Main fuse (slow blowing)	A	3 x 16	3 x 20
Chemical Dosing Unit (equipment dosing pump)			
Chemical suction quantity	l/h	1,5	1,5
Pressure	Bar	12	12
Suction height max. (from bottom of chemical tank)	m	1,5	1,5
Vacuum Cleaner			
Suction capacity	lpm	3700	2 x 3700
Vacuum	mbar	160	160
Dirt container	l	40	2 x 40
Compressed air production			
2 x 2 cylinder piston compressor (oil-free)			
Compressed air intake capacity	lpm	200	200
Operating pressure	bar	8	8
Aluminium compressed air tanks	l	2 x 35	2 x 35
Pressure max.	bar	10	10
Pressure reducer for high and low pressure system			

Tab. 3 - 2 Technical data for MultiTerminal 4in1, TireShine Station



		MultiTerminal 4in1	
		MONO	DUO
Hose lengths			
Suction hose Vacuum Cleaner	m	4,5	2 x 4,5
Pressure hose Tornado Nozzle	m	10	2 x 10
Pressure hose Cockpit Air Gun	m	10	2 x 10
Pressure hose Tire Inflator Station	m	10	2 x 10
Environmental conditions			
Temperature	°C	-10 to +35	-10 to +35
Noise emission			
Noise level	dB (A)	76	78
Weights and dimensions			
Weight	kg	495	585
Length	mm	1090	1090
Width	mm	1200	1200
Height without suction mast	mm	2210	2210
Height with suction mast	mm	3280	3280

Tab. 3 - 2 Technical data for MultiTerminal 4in1, TireShine Station

3.6.3 Tire Inflator Station and TireShine Station

		MultiTerminal 5in1	
		MONO	DUO
Electrical connection			
Mains voltage	V	400	400
Phase	~	3	3
Mains frequency	Hz	50	50
Connected load	kW	5,2	7,4
Current (max.)	A	12,5	15,5
Degree of protection	IP	IPX3	IPX3
Main fuse (slow blowing)	A	3 x 16	3 x 20
Chemical Dosing Unit (equipment dosing pump)			
Chemical suction quantity	l/h	1,5	1,5
Pressure	Bar	12	12
Suction height max. (from bottom of chemical tank)	m	1,5	1,5
Vacuum Cleaner			
Suction capacity	lpm	3700	2 x 3700
Vacuum	mbar	160	160
Dirt container	l	40	2 x 40
Compressed air production			
2 x 2 cylinder piston compressor (oil-free)			
Compressed air intake capacity	lpm	200	200
Operating pressure	bar	8	8
Aluminium compressed air tanks	l	2 x 35	2 x 35
Pressure max.	bar	10	10
Pressure reducer for high and low pressure system			

Tab. 3 - 3 Technical data for MultiTerminal 5in1, Tire Inflator Station and TireShine Station



		MultiTerminal 5in1	
		MONO	DUO
Hose lengths			
Suction hose Vacuum Cleaner	m	4,5	2 x 4,5
Pressure hose Tornado Nozzle	m	10	2 x 10
Pressure hose Cockpit Air Gun	m	10	2 x 10
Pressure hose Tire Inflator Station	m	10	2 x 10
Environmental conditions			
Temperature	°C	-10 to +35	-10 to +35
Noise emission			
Noise level	dB (A)	76	78
Weights and dimensions			
Weight	kg	501	591
Length	mm	1090	1090
Width	mm	1200	1200
Height without suction mast	mm	2210	2210
Height with suction mast	mm	3280	3280

Tab. 3 - 3 Technical data for MultiTerminal 5in1, Tire Inflator Station and TireShine Station

3.6.4 Tire Inflator Station, TireShine Station and Fragrance Sprayer

		MultiTerminal 6in1	
		MONO	DUO
Electrical connection			
Mains voltage	V	400	400
Phase	~	3	3
Mains frequency	Hz	50	50
Connected load	kW	5,2	7,4
Current (max.)	A	12,5	15,5
Degree of protection	IP	IPX3	IPX3
Main fuse (slow blowing)	A	3 x 16	3 x 20
Chemical Dosing Unit (equipment dosing pump)			
Chemical suction quantity	l/h	1,5	1,5
Pressure	Bar	12	12
Suction height max. (from bottom of chemical tank)	m	1,5	1,5
Vacuum Cleaner			
Suction capacity	lpm	3700	2 x 3700
Vacuum	mbar	160	160
Dirt container	l	40	2 x 40
Compressed air production			
2 x 2 cylinder piston compressor (oil-free)			
Compressed air intake capacity	lpm	200	200
Operating pressure	bar	8	8
Aluminium compressed air tanks	l	2 x 35	2 x 35
Pressure max.	bar	10	10
Pressure reducer for high and low pressure system			

Tab. 3 - 4 Technical data for MultiTerminal 6in1, Tire Inflator Station, TireShine Station and Fragrance Sprayer



		MultiTerminal 6in1	
		MONO	DUO
Hose lengths			
Suction hose Vacuum Cleaner	m	4,5	2 x 4,5
Pressure hose Tornado Nozzle	m	10	2 x 10
Pressure hose Cockpit Air Gun	m	10	2 x 10
Pressure hose Tire Inflator Station	m	10	2 x 10
Environmental conditions			
Temperature	°C	-10 to +35	-10 to +35
Noise emission			
Noise level	dB (A)	76	78
Weights and dimensions			
Weight	kg	524	626
Length	mm	1090	1090
Width	mm	1200	1200
Height without suction mast	mm	2210	2210
Height with suction mast	mm	3280	3280

Tab. 3 - 4 Technical data for MultiTerminal 6in1, Tire Inflator Station, TireShine Station and Fragrance Sprayer

4 Installation



WARNING

Ensure professional installation.

For the installation of the MultiTerminal, the personnel must

- have read this manual and understood, that error-free installation can be guaranteed
- be specially trained and instructed.

Otherwise, the life and limb of persons may be endangered.



General Information

For detailed advice and information on the installation of the MultiTerminal, please contact EHRLE customer service.

If required, EHRLE customer service can commission appropriately qualified personnel to carry out a wide range of installation work.

4.1 Selection of the operating location



WARNING

Select an appropriate and permissible operating location for the MultiTerminal.

The local regulations regarding the installation and operation of the MultiTerminal must be observed.

The MultiTerminal must not be installed or operated in rooms or areas where there is a risk of fire or explosion.

When selecting the operating location for the MultiTerminal, take the permissible environmental conditions into account (see Technical Data, section 3.6)

Preferred operating locations are gas stations and car washes. Select a operational reliable location for the MultiTerminal.

Do not set up the MultiTerminal in hazardous areas, e.g.

- on tank shafts (not even those connected to the petrol separator)
- areas where fine dust or corrosive gases occur
- explosion and fire hazard areas.

Fig. 4 - 1 to Fig. 4 - 3 show the foundation plans and required space for car parking.

The foundation must

- have a horizontal and flat surface
- be designed for the load caused by the weight of the MultiTerminal.

The site must have a mains power connection. The electrical connection (building mains connection) must be designed for trouble-free operation (see also Section 3.6, Technical Data).

Fig. 4-1 shows the rising surface with the fixing points and the connection feed-through for the power supply cable.

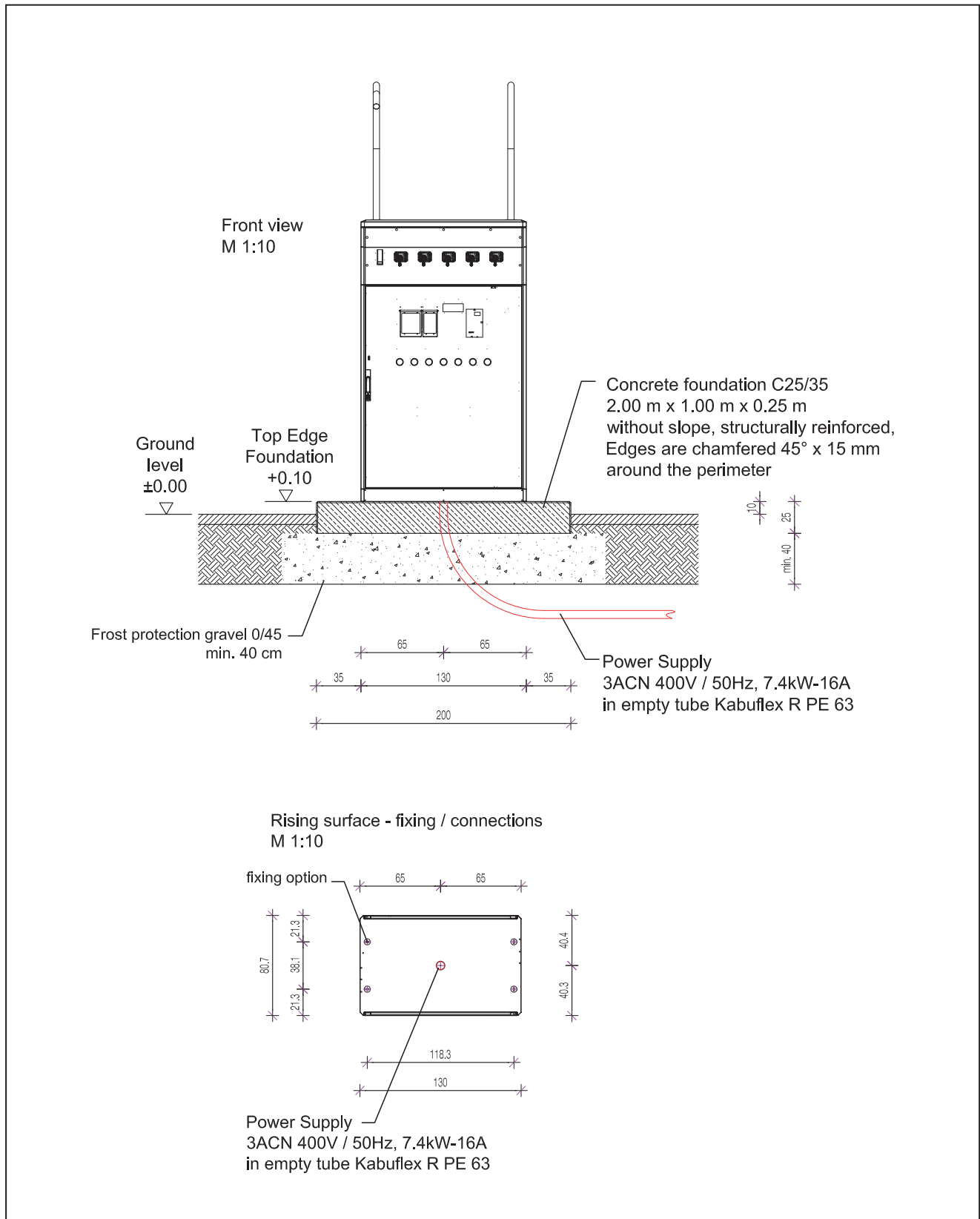


Fig. 4 - 1 Dimensions for foundation, MultiTerminal front view (general example)

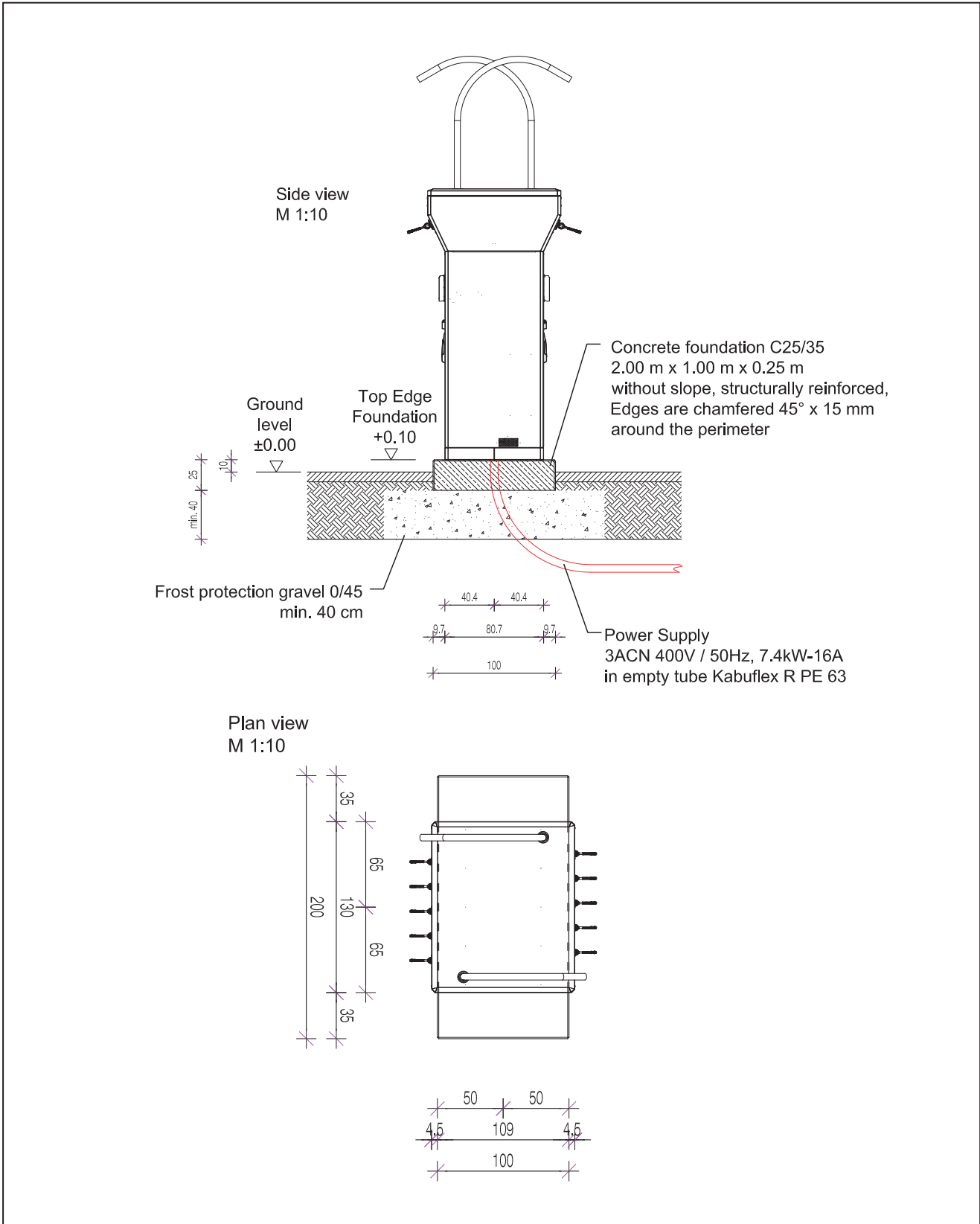


Fig. 4 - 2 Dimensions for foundation, MultiTerminal side view (general example)

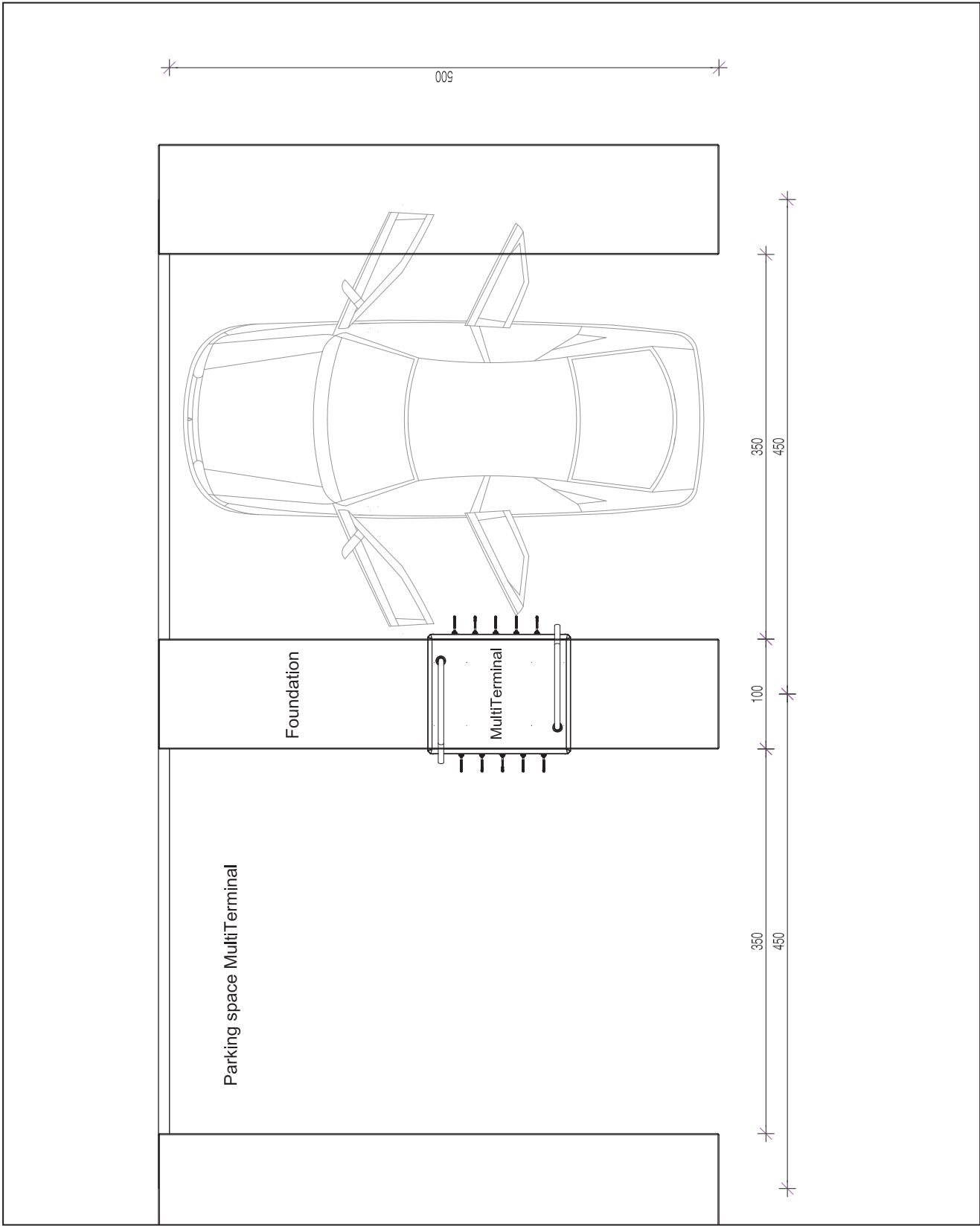


Fig. 4 - 3 Dimensions for parking space clearance (general example)

4.2 Installation at the operation location

4.2.1 Delivery



WARNING

Carry out transport work professionally.

Transport work with the MultiTerminal may only be carried out by qualified, trained and authorized specialist personnel.



WARNING

Risk of injury due to heavy load.

When loading and transporting, observe the relevant safety regulations and applicable accident prevention regulations.

Observe the safety regulations for the means of transport, conveyor vehicles and lifting equipment.

The means of transport, conveyor vehicles or lifting equipment (e.g. forklifts) must have a load-bearing capacity that can safely withstand the total weight of the MultiTerminal with transport packaging.

When attaching the lifting devices, lifting gear and aids, take into account the center of gravity of the MultiTerminal.

People must not step under the suspended load or stay in the danger area.

Falling heavy loads endanger life and limb.



General Information

Upon receipt of the MultiTerminal, device parts or accessories, carry out a visual inspection for transport damage.

In the event of transport damage, notify the transport company immediately.

If necessary, have the transport damage assessed by independent specialists.

Before delivery, the MultiTerminal is subjected to a final inspection for correct function and safety, as well as a final visual inspection for mechanical damage.

The transport pallet, transport packaging or the transported goods may be damaged unintentionally during transport.

Generally immediately after receipt of the delivery

- Carry out a visual inspection for damage to the transport pallet and transport packaging.
- Use the delivery note to check that the transported goods are complete.
- Visually inspect the MultiTerminal and supplied appliance parts for damage.
- Using the type plate on the MultiTerminal and any device parts supplied, check that they have been delivered correctly as ordered. In the event of incorrect delivery, notify Ehrle or customer service immediately.

Any damage to the transport pallet, the MultiTerminal or the supplied appliance parts must be noted on the delivery note and reported to the transport company.

The extent of any relevant damage or missing system parts must be recorded in writing and reported immediately to Ehrle or the customer service department.

Never put damaged MultiTerminals into operation.

4.2.2 Fastening at the operating location



WARNING
Risk to injury due to suspended load.

No persons may be in the danger zone or under the suspended load.
Be careful when lifting, moving and setting down the MultiTerminal.
A falling load endanger life and limb of persons.

When lifting, moving and setting down the MultiTerminal at the operating location, only use lifting equipment and load-carrying devices with sufficient load capacity (weight of the MultiTerminal see type plate).

Position the MultiTerminal securely at the prepared operating location.

When subsequently moving the positioned MultiTerminal on the foundation, ensure that the power supply cable routed into the interior cannot be damaged by the edges of the floor plate.

Anchor the MultiTerminal at the attachment points (see Fig. 4 - 1, rising surface) using dowels and screws. Depending on the nature of the foundation, special dowels may need to be used.

4.2.3 Electrical installation



WARNING
Ensure proper installation of the electrical connection.

The installation work for the electrical connection of the MultiTerminal may only be carried out by qualified, trained and authorized electrical specialists.
Observe the IEC-regulations for electrical cable laying.
Only connect the MultiTerminal to voltage sources grounded in accordance with safety regulations.
Improper installation of the electrical connection can endanger life and limb of persons.



WARNING
Danger of electric shock.

The power supply from the building's mains connection may only be established after all electrical installation work has been completed.
Otherwise, the life and limb of persons may be endangered.



CAUTION

Observe the direction of rotation of the Side Channel Blower motor.

Observe the direction of rotation of the Side Channel Blower motor during electrical installation.

Otherwise the device may be damaged during operation.

The electrical mains connection (building connection) for the supply voltage of the MultiTerminal must be designed for trouble-free constant operation (see section 3.6, Technical Data).

The electrical mains connection from the building (or infrastructure) must correspond to the electrical values specified on the type plate of the MultiTerminal (see also section 3.6, Technical data).

Depending on the equipment of the MultiTerminal, the electrical mains connection must be appropriately fused on site (see project-specific circuit diagram)

Connect the power supply cable to the mains connection of the building (or infrastructure) and to the Electrical Control Box (see 2, Fig. 3 - 3) inside the MultiTerminal in accordance with the project-specific circuit diagram.

Ensure compliance with the provisions of IEC 60364-1.

4.3 Initial commissioning after installation



WARNING

Carry out initial commissioning professionally after installation.

The measures for initial commissioning may only be carried out by qualified, trained and authorized specialist personnel.

Otherwise, the life and limb of persons may be endangered.

The EHRLE MultiCleaners are subjected to a final test for correct function and safety before delivery.

The initial commissioning and the first operation after installation serve to check that the system is functioning correctly if transport has caused damage to assemblies or components that is not immediately visible.

In the event of a faulty system function, consult EHRLE customer service immediately.

For initial commissioning, proceed as follows

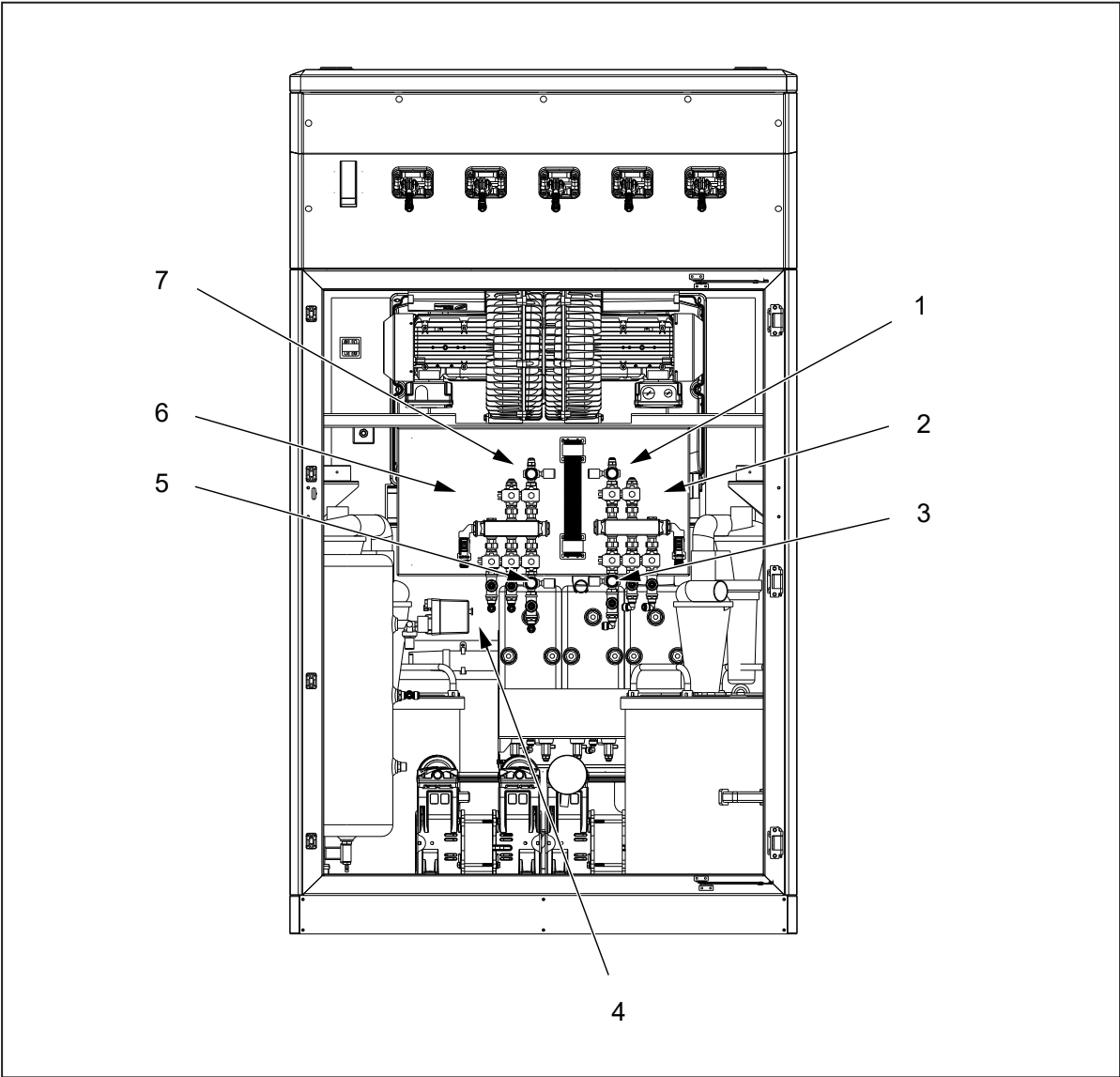
- Section 5: Commissioning
- Section 6: Operation

4.4 MultiTerminal settings

After initial commissioning, make or check the following settings

- Pressure switch, see section 4.4.1
- Cockpit Air Gun, see section 4.4.2
- Fragrance Sprayer, see section 4.4.3
- Chemical Dosing Units (dosage adjustment), see section 4.4.4

Fig. 4 - 4 shows the adjustment options for the compressed air of the Care Tools and Tire Inflator Station as well as the corresponding pressure gauges.



- | | |
|--|---|
| 1 Pressure regulator and pressure gauge for Cockpit Air Gun (Pneumatic Distributor side) | 5 Pressure regulator and pressure gauge for Fragrance Sprayer (Electrical Control Box side) |
| 2 Pneumatic Distributor unit for Care Tools on this cabinet side | 6 Pneumatic Distributor unit for Care tools on Electrical Control Box side |
| 3 Pressure regulator and pressure gauge for Fragrance Sprayer | 7 Pressure regulator and pressure gauge for Cockpit Air Gun (Electrical Control Box side) |
| 4 Pressure switch | |

Fig. 4 - 4 Pressure regulators and pressure gauges of Pneumatic Distributor Unit for the, Care Tools, interior view of Pneumatic Distributor side

4.4.1 Pressure switch setting

Pressure switch setting (firmly set):

- Switch-off pressure: 8 bar
- Switch-on pressure: 6 bar

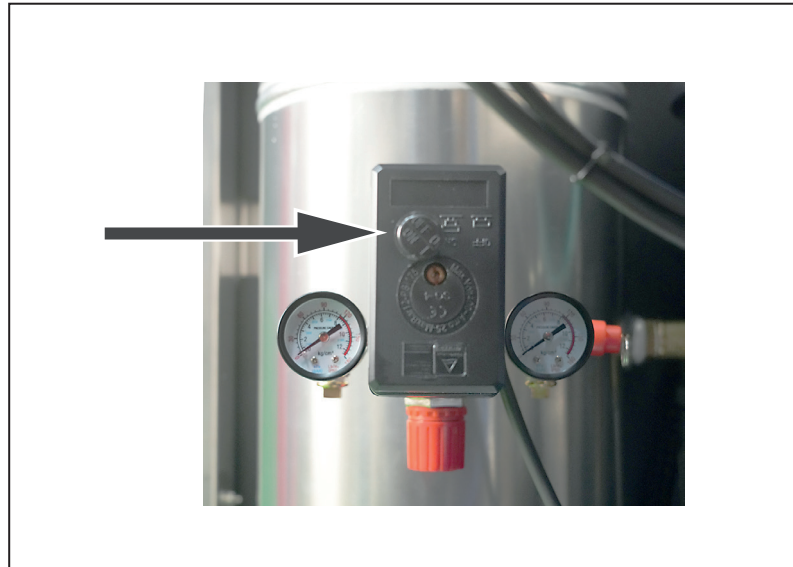


Fig. 4 - 5 Pressure switch, front view

4.4.2 Pressure setting for Cockpit Air Gun

Setting value for the Cockpit Air Gun:

- Operating pressure: 3 - 4 bar

Adjust air consumption under operating conditions.

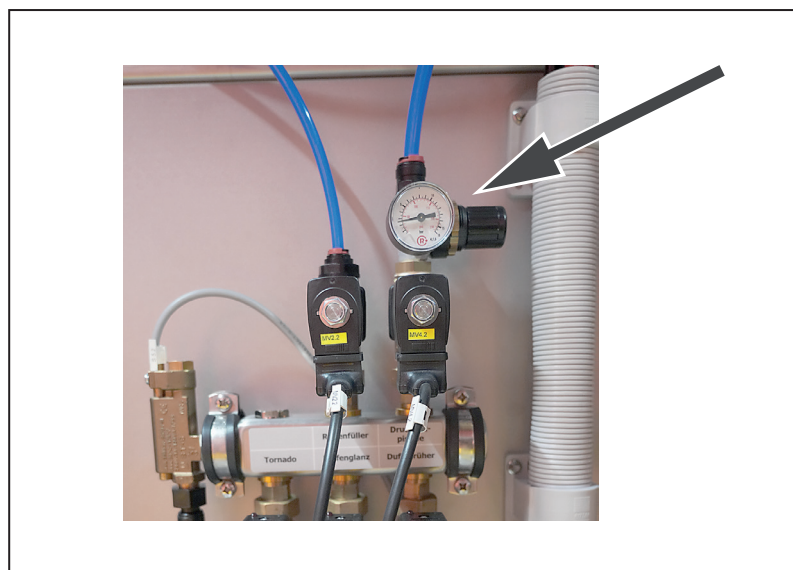


Fig. 4 - 6 Pressure regulator and pressure gauge for operating adjustment, Cockpit Air Gun

4.4.3 Pressure setting for Fragrance Sprayer

Setting value for Fragrance Sprayer:

- Operating pressure: 2 - 3 bar

Adjust air consumption under operating conditions.

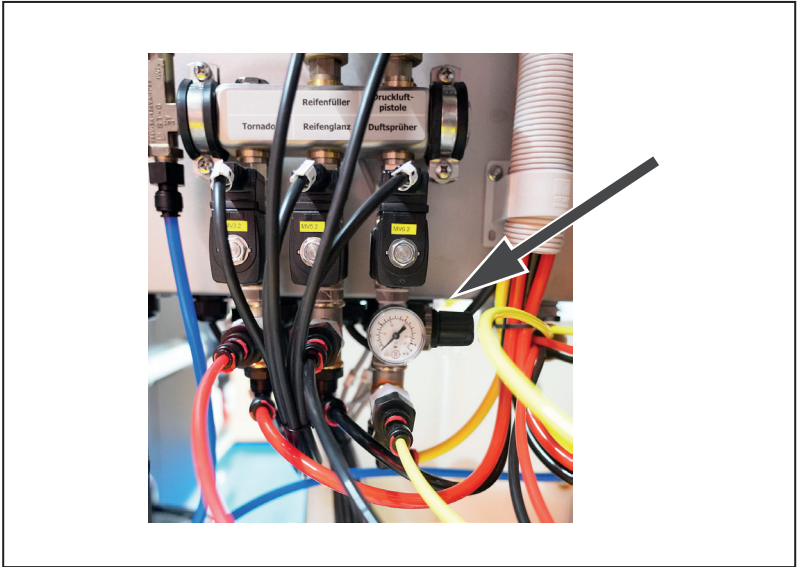


Fig. 4 - 7 Pressure regulator and pressure gauge for operating adjustment, Fragrance Sprayer

4.4.4 Chemical Dosing Unit

4.4.4.1 General operation of Chemical Dosing Unit



WARNING

Only use permitted care products.

Only use care products (chemicals) approved by the company EHRLE for the supply of care products.

Observe the safety data sheets (refer to Technical Documents, Volume 2) and information provided by the care product manufacturers. Keep care products out of reach of unauthorized persons.

The use of unauthorized care products can endanger the health of persons.

The Chemical Dosing Units supply care products for comprehensive car care.

When filling the chemical containers (see 7, Fig. 3 - 3), only use care products approved by company EHRLE (refer to Technical Documents, Volume 2).

Observe the safety instructions provided with the care products used (usually on the packaging label).

The control and indicator elements of the Chemical Dosing Unit are shown in Figs. 4 - 8.

For the settings to be made by maintenance personnel, see section 4.4.4.2.

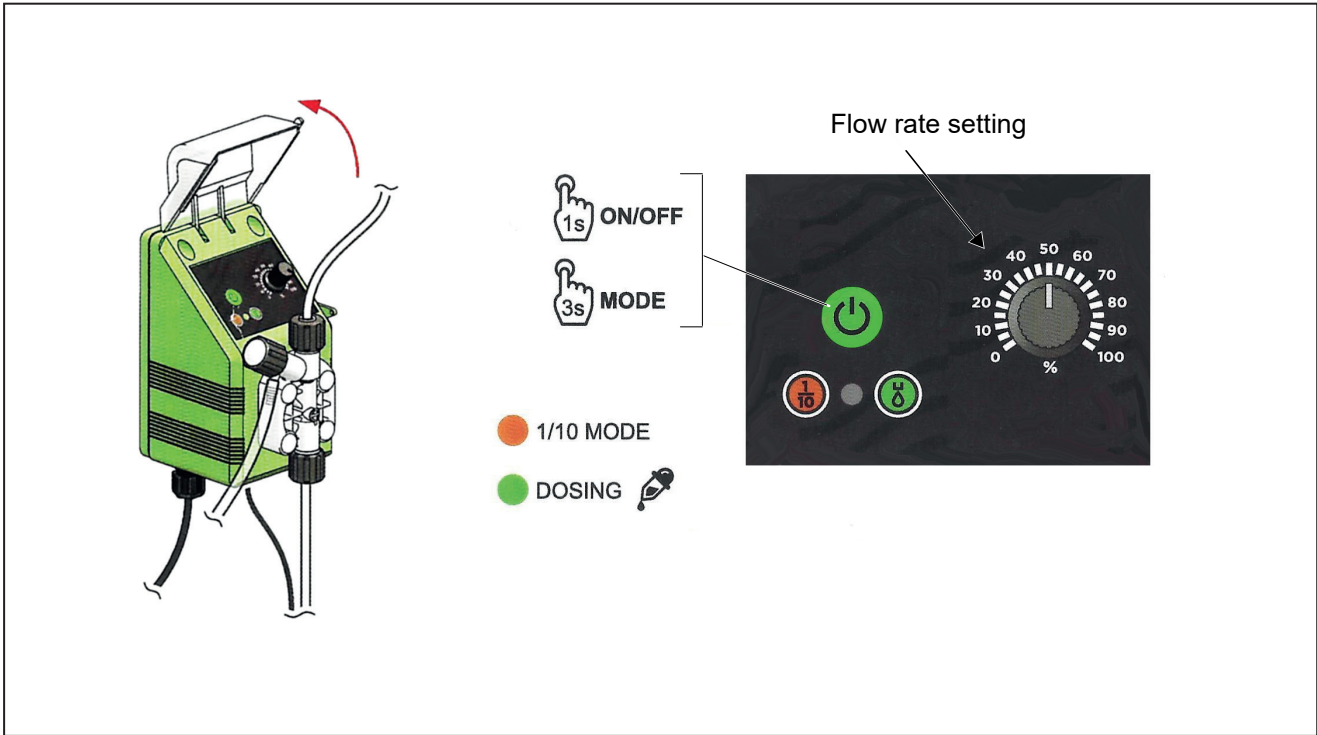


Fig. 4 - 8 Control and indicator elements of the Chemical Dosing Unit

4.4.4.2 Settings for Chemical Dosing Units

Setting value for the Tornado Nozzle care product supply on the Chemical Dosing Unit:

- Setting value: 5 %



Fig. 4 - 9 Dosing controller for operating setting of Tornado Nozzle dosing pump

Setting value for the Tornado TireShine care product supply on the Chemical Dosing Unit:

- Setting value: 30 %

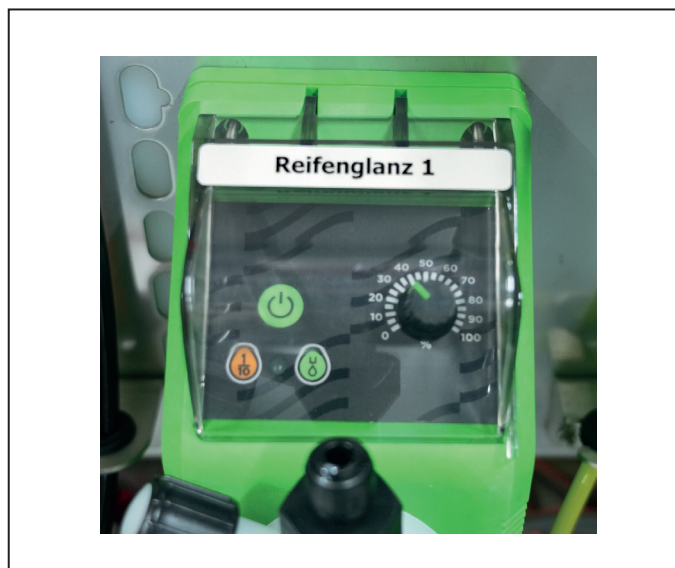


Fig. 4 - 10 Dosing controller for operating setting of Tornado TireShine dosing pump

Setting value for the Fragrance Sprayer care product supply on the Chemical Dosing Unit:

- Setting value: 20 %

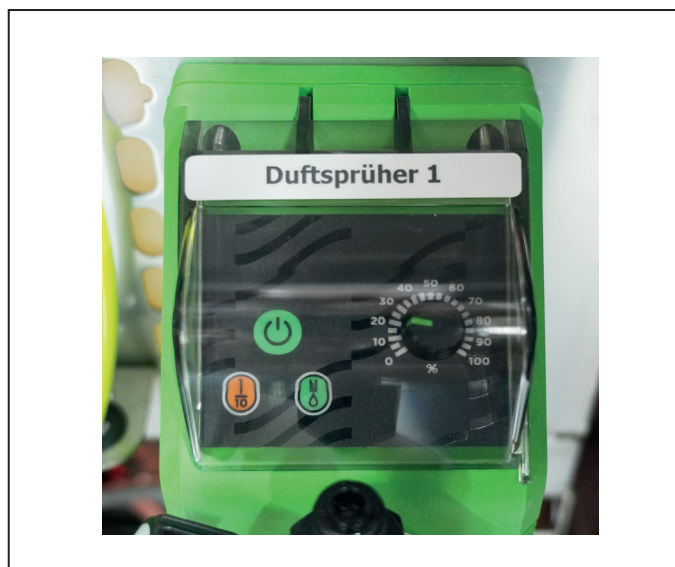


Fig. 4 - 11 Dosing controller for operating setting of Fragrance Sprayer dosing pump

5 Commissioning

5.1 Measures prior to commissioning

The plant operator must provide qualified and trained maintenance personnel for

- daily commissioning and monitoring of self-service operations during opening hours
- daily emptying of coin cassettes
- daily inspection of the system condition (care products filling, malfunctions, mechanical damage)
- daily care measures
- system setting checks in the cabinet
- perform periodically scheduled maintenance tasks and if necessary, perform adjustment work or repair defective system components
- regular scheduled maintenance, such as checking the system settings and, if necessary, correcting the settings or replacing defective system components.

If necessary, unlock and open the facility doors with the key by authorized maintenance personnel.

5.2 Obligatory calibration for Tire Inflator Station

For tire filling devices, country-specific laws regarding calibration obligations may apply.

Before initial commissioning of the MultiTerminal, check the country-specific laws and, if necessary, have the commissioning engineer arrange for calibration by

- state-approved calibration office
- testing center recognized by the state or authorities.

5.3 Fill level of care product container

Depending on the product variant, the MultiTerminals are equipped with the following containers (see 7, Fig. 3 - 3) for the supply of care products (chemicals or fragrances):

- TireShine product for Tornado TireShine
 - Care product TireShine
- Care product for Tornado Nozzle
 - Care product Tornado
- Fragrance product for Fragrance Sprayer
 - Aromatic
 - Leather
 - Papaya
 - Peppermint

For the care product safety data sheets, refer to Technical Documents in Volume 2.



WARNING
Only use permitted care products.

Only use care products (chemicals) approved by the company EHRLE for the supply of care products.

Observe the safety data sheets (refer to Technical Documents, Volume 2) and information provided by the care product manufacturers. Keep care products out of reach of unauthorized persons.

The use of unauthorized care products can endanger the health of persons.

Fill the care product containers with the appropriate care products.

An up-to-date list of approved care products can be requested from manufacturer EHRLE

Observe the safety instructions provided with the cleaning detergents used (usually on the packaging label).

5.4 Settings by maintenance personnel

For the adjustment and inspection of the system by maintenance personnel, see section 4.4.

5.5 Commissioning by plant operator



WARNING
During self-service opening hours, the cabinet doors must be closed and the door locks locked.

After commissioning by the operating personnel, close the cabinet doors and lock the door locks with the key.

Store the keys so that only authorized personnel have access.

Access to the interior of the MultiTerminal cabinet by unauthorized persons can endanger life and limb.



WARNING
Risk of burns due to hot surface of the Side Channel Blower.

The surface of the Side Channel Blower may become hot during vacuum cleaner operation. Do not touch the surface during vacuum cleaner operation. Wait until the surface has cooled down after operation.

Touching the hot surface can burn people's skin.

For commissioning with all product variants:

- If necessary, switch on the circuit breaker or main switch of the building mains connection (respectively infrastructure).
- Unlock the lock on the cabinet door (Electrical Control Box side) and open the door.
- Switch on the main switch (8, Fig. 3 - 3) of the MultiTerminal.
- Close the door and lock the lock with the key. Store the key so that only authorized maintenance personnel have access.
- During operating hours, the button lighting appears as a running light in standby mode.

To set operating parameters via the Ethernet interface, proceed as follows:

- After initial commissioning by maintenance personnel, set up the web-based user interface (see section 5.6.1).
- Set operating parameters via the web-based user interface (see section 5.6.2).
- For information on MultiTerminal operation, see section 6..

5.6 Web-based user interface



CAUTION

Setup and settings via the web-based user interface only when care programs are not activated.

Ensure that the care programmes cannot be activated unintentionally. Otherwise, unintentional damage to the MultiTerminal may occur.

The means that you can use the web-based user interface for system settings, proceed as follows:

- To access the Ethernet cable connection, open the cabinet door on the Electrical Control Box side (see Fig. 3 - 3).
- An Ethernet cable is routed out of the bottom of the Electrical Control Box.
- Connect laptop (or PC) with Ethernet cable to the Ethernet cable connection.
- Set up web-based user interface, see section 5.6.1.
- Set operating parameters via the web-based user interface, see section 5.6.2.

5.6.1 Set up web-based user interface for maintenance personnel

Before you can open the web-side from Siemens Plc, you must be configure your pc-network card to a fixed IP address, in the same range as Siemens PLC (e.g. 192.168.99.50).

Proceed as follows for the configuration.

In the window Network Connection, select the drop-down menu via the PLC network adapter icon and call up the PLC network properties window.

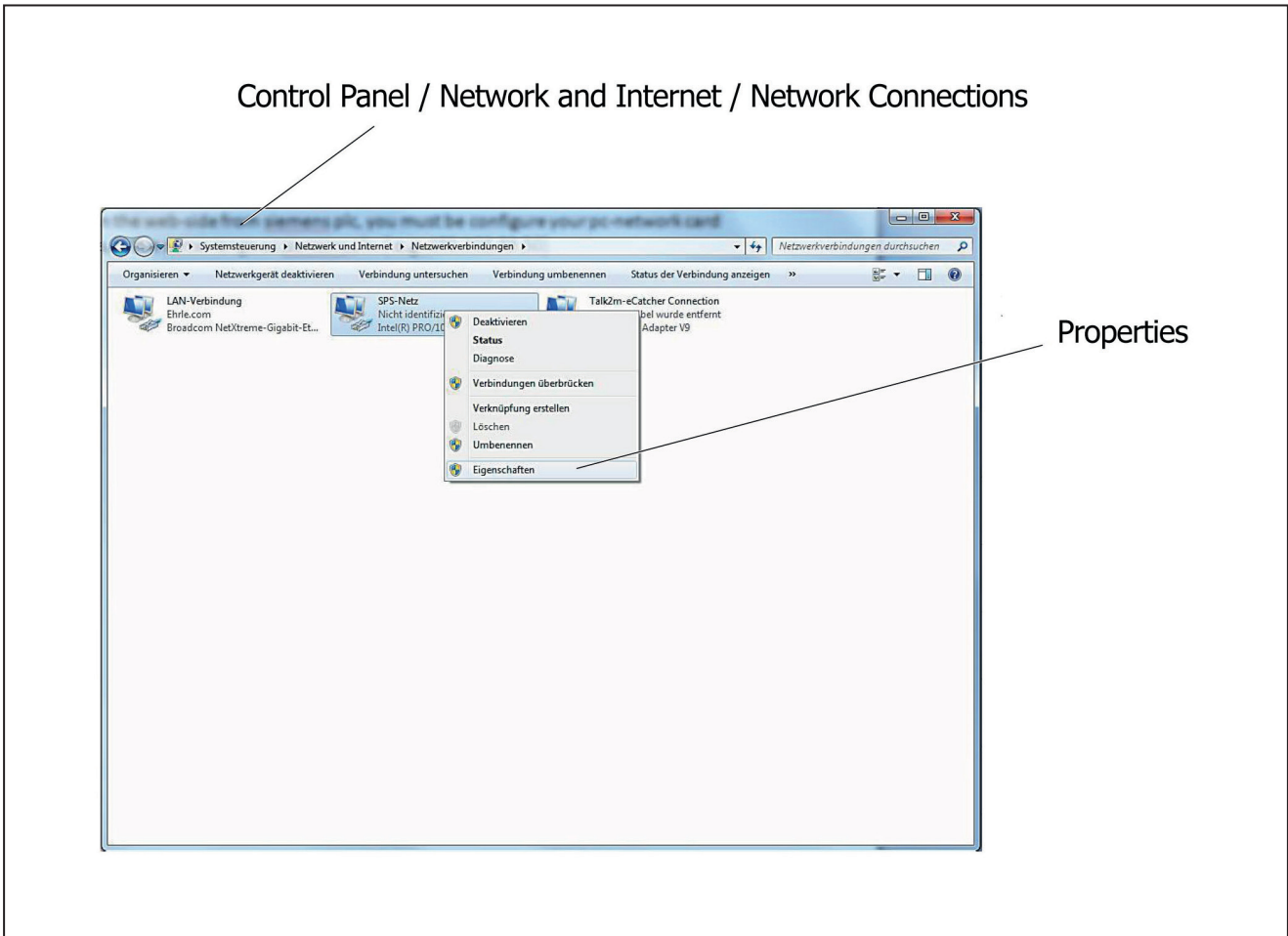


Fig. 5 - 1 Open the PLC network properties window

Select Internet Protocol Version 4 and call up Properties.

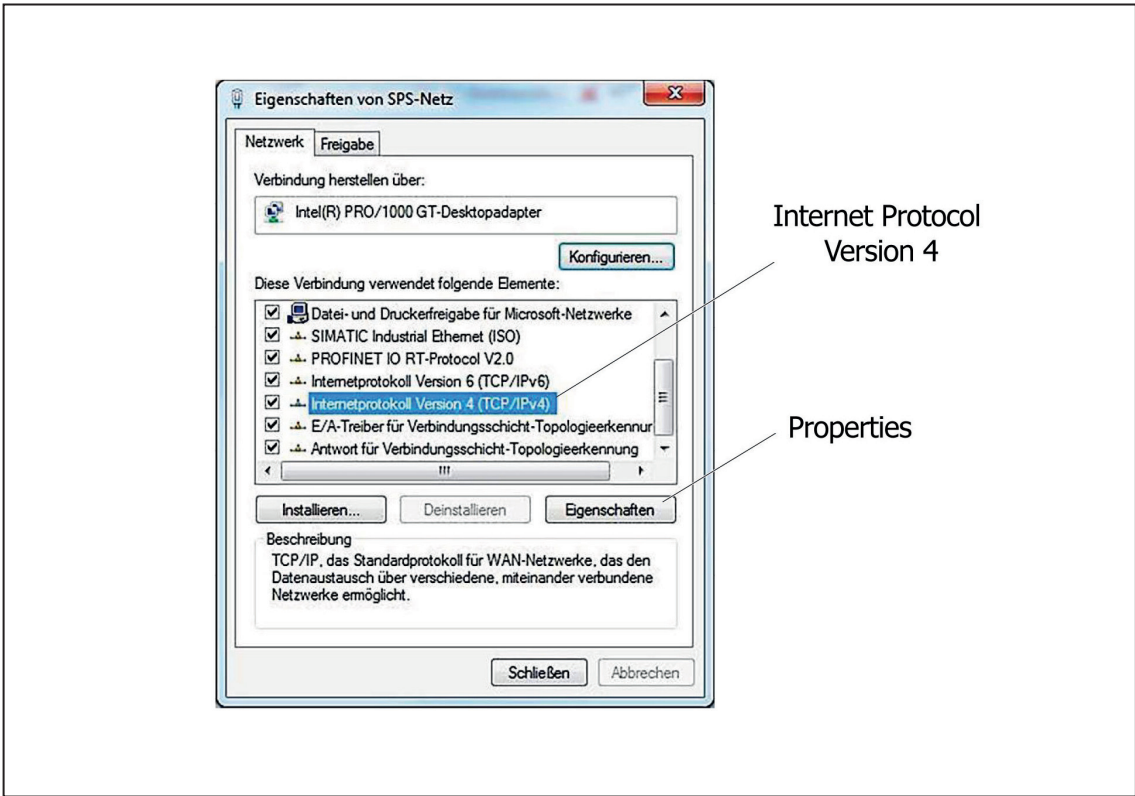


Fig. 5 - 2 PLC network properties window

Change selection to: Use the following IP-Adress
enter IP-Adress and Subnet mask

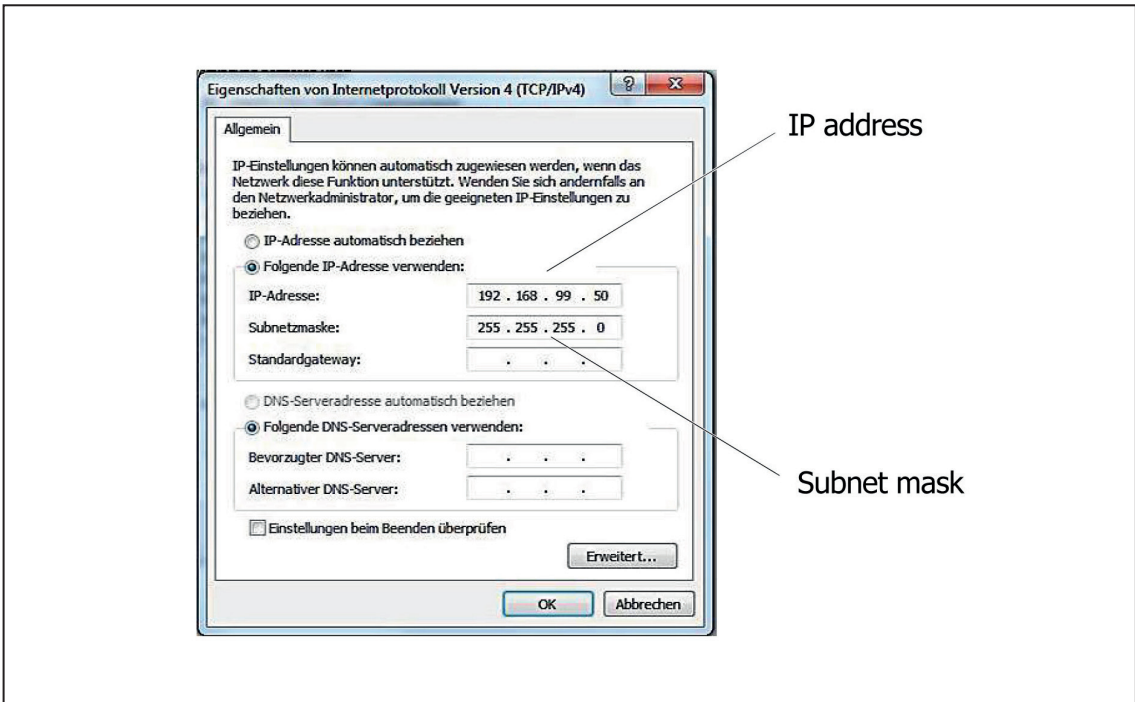


Fig. 5 - 3 Internet Protocol Version 4 Properties window, IP settings

Open web-based application SIMATIC S7-1200..



Fig. 5 - 4 Open the SIMATIC S7-1200 window

Download and open certificate.

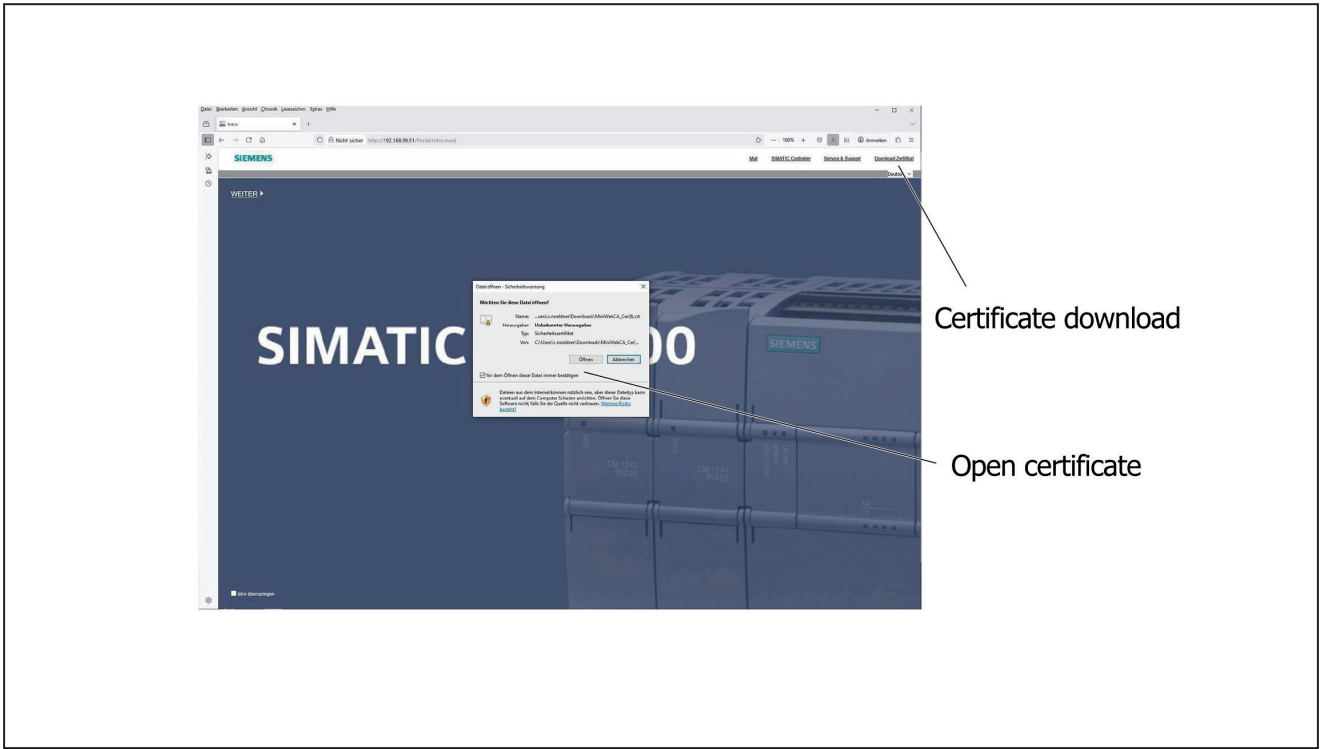


Fig. 5 - 5 Download and open certificate

Installation of the certificate.

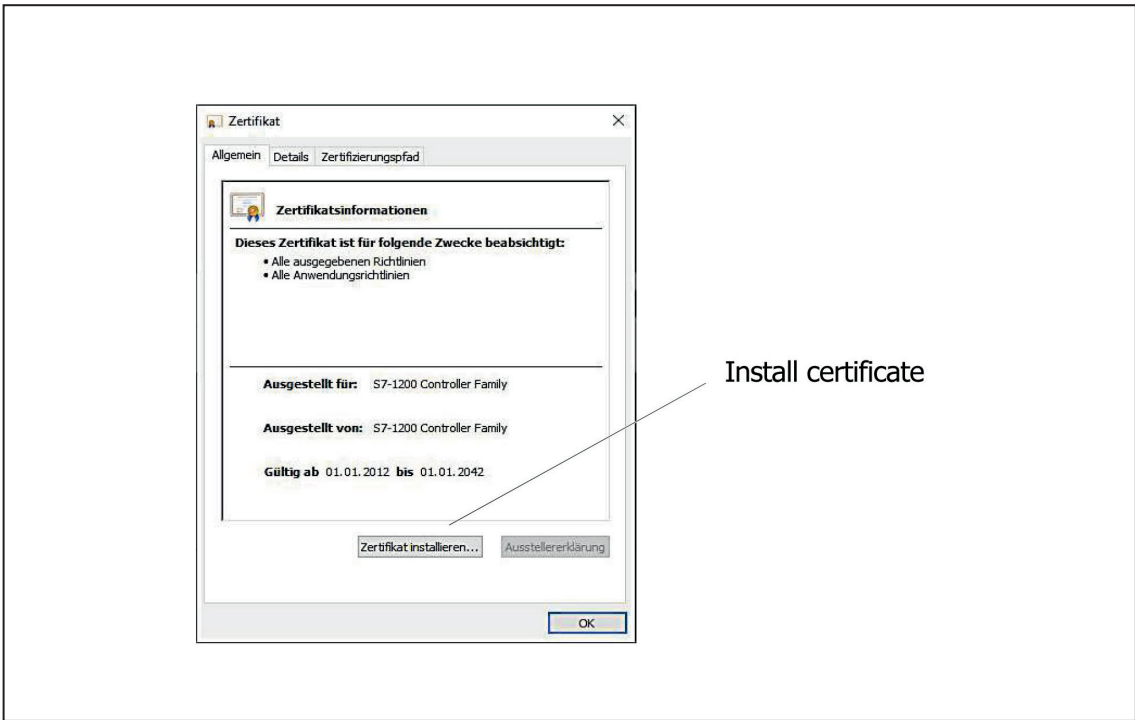


Fig. 5 - 6 Installation of the certificate

Confirming the certificate import wizard.

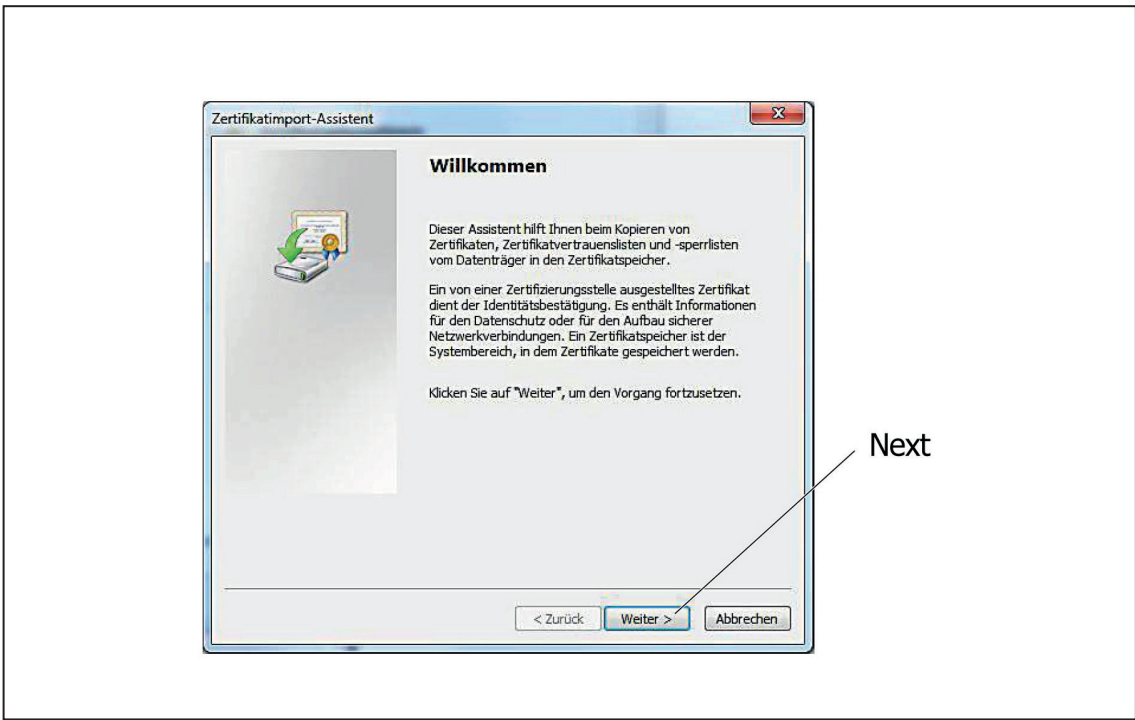


Fig. 5 - 7 Calling up the certificate import wizard

Select certificate store.

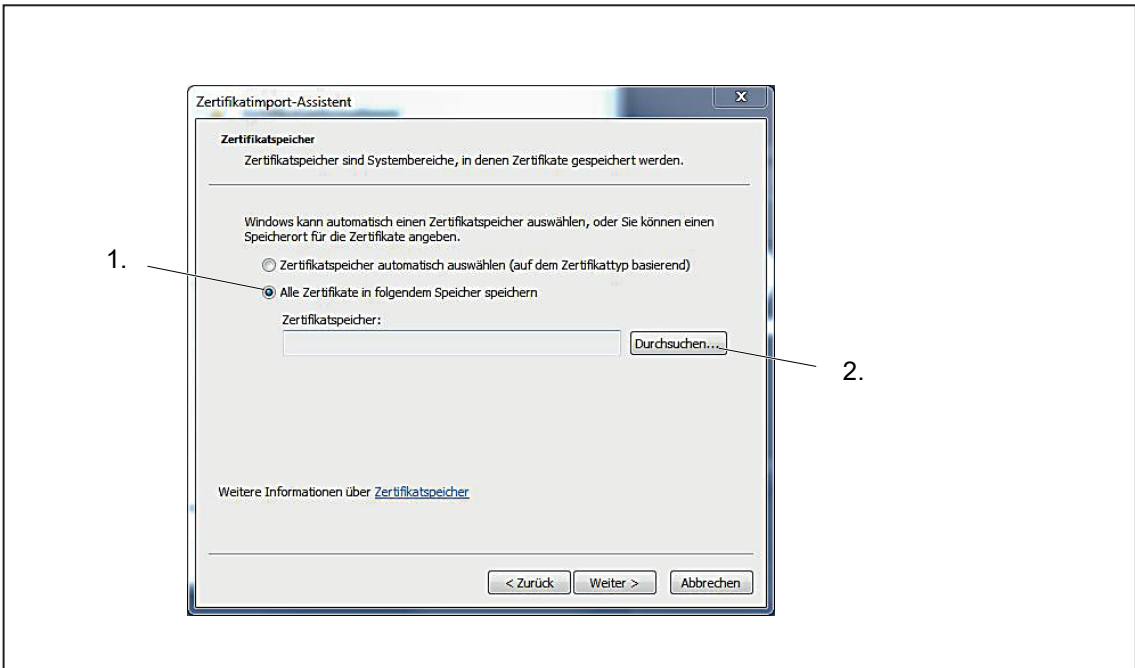


Fig. 5 - 8 Certificate Import Wizard window, saving the certificate

Save certificate.

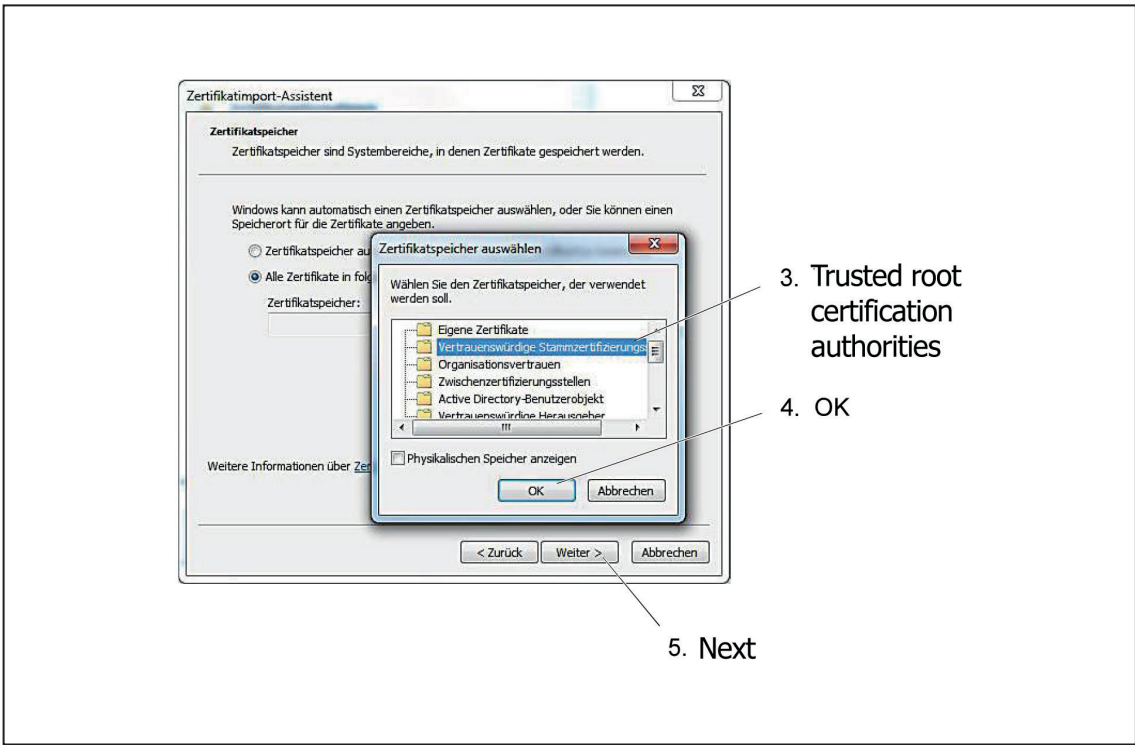


Fig. 5 - 9 Select certificate store window

Complete the Certificaion Import Wizard.

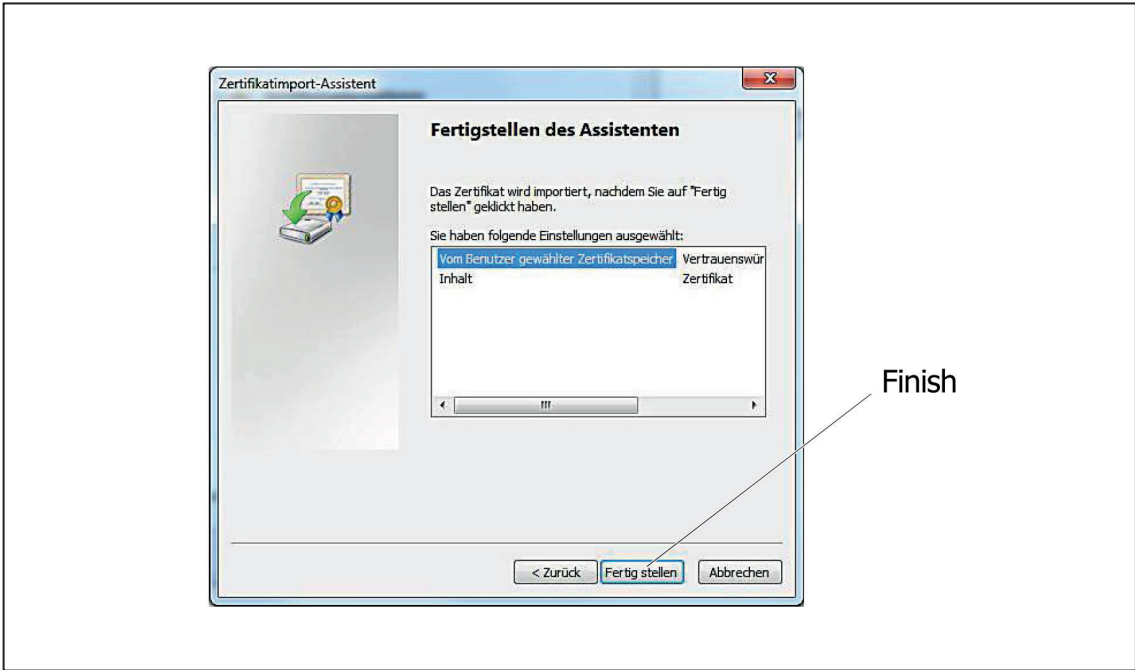


Fig. 5 - 10 Confirm successful import

Confirm Safety warning.

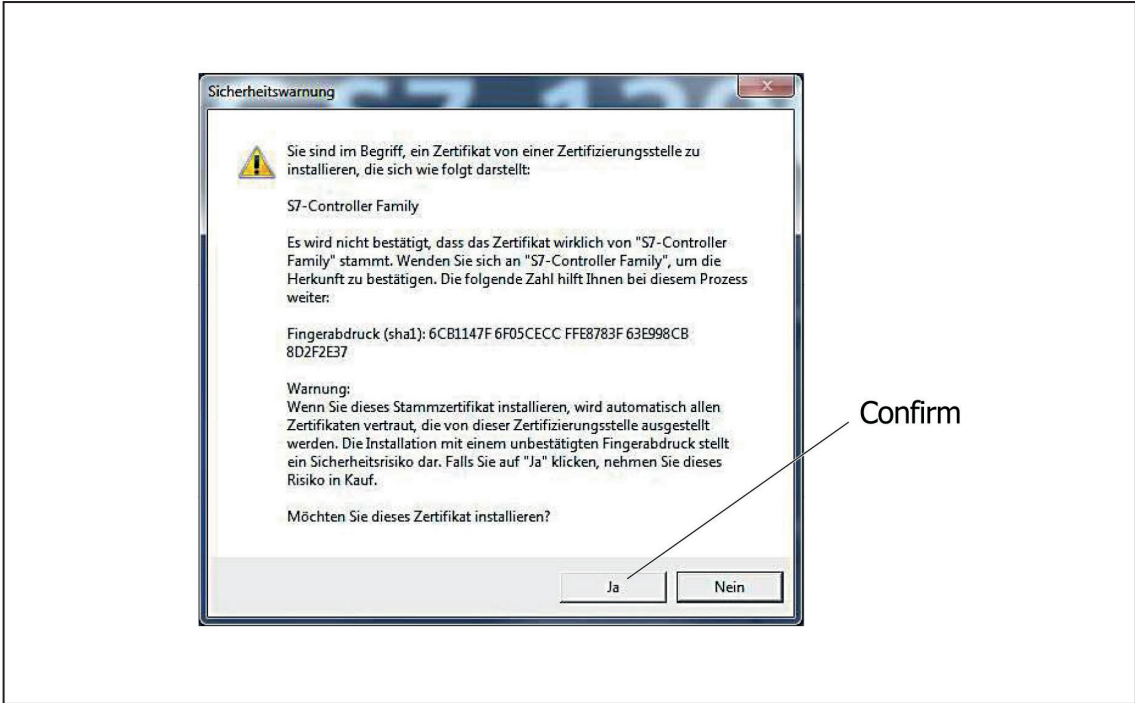


Fig. 5 - 11 Safety warning

Confirm certificate information.

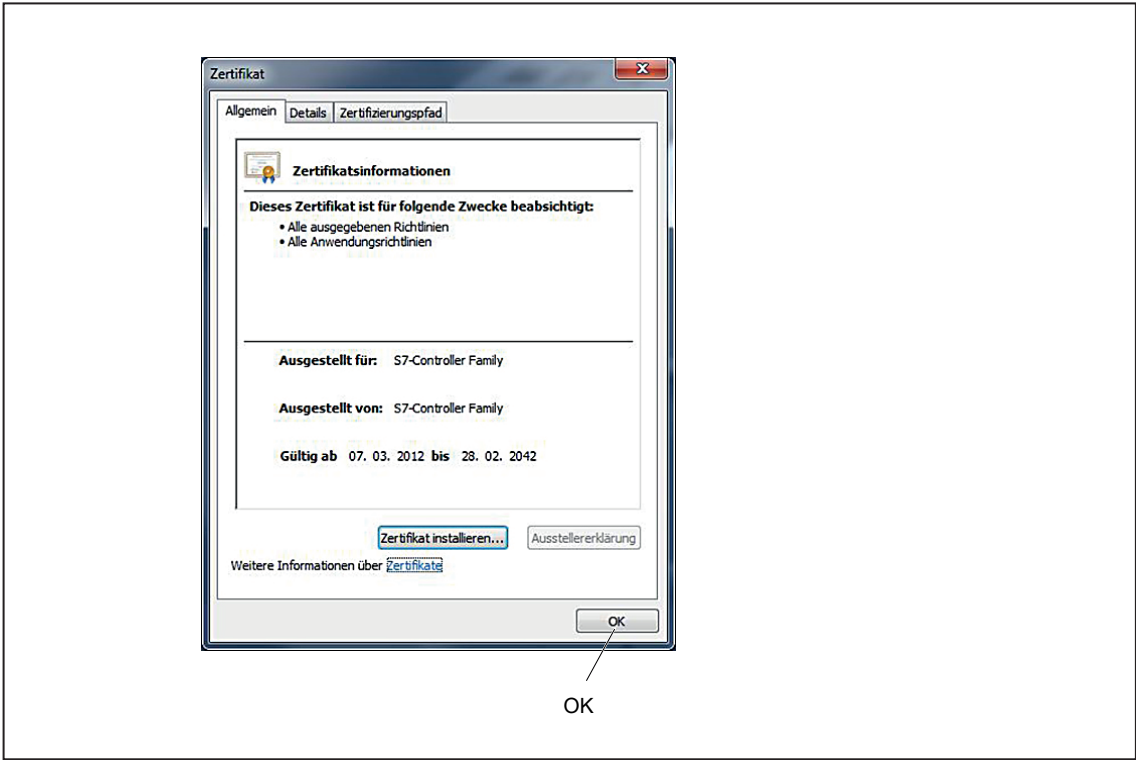


Fig. 5 - 12 Confirm certificate information

For information on how maintenance personnel can access the web-based user interface for the device settings, see section 5.6.2.

5.6.2 Web-based user interface for system settings by maintenance personnel

Call up the SIMATIC S7-1200 start page and click ENTER.



Fig. 5 - 13 Start page

Click on the User Pages menu on the Start Page.

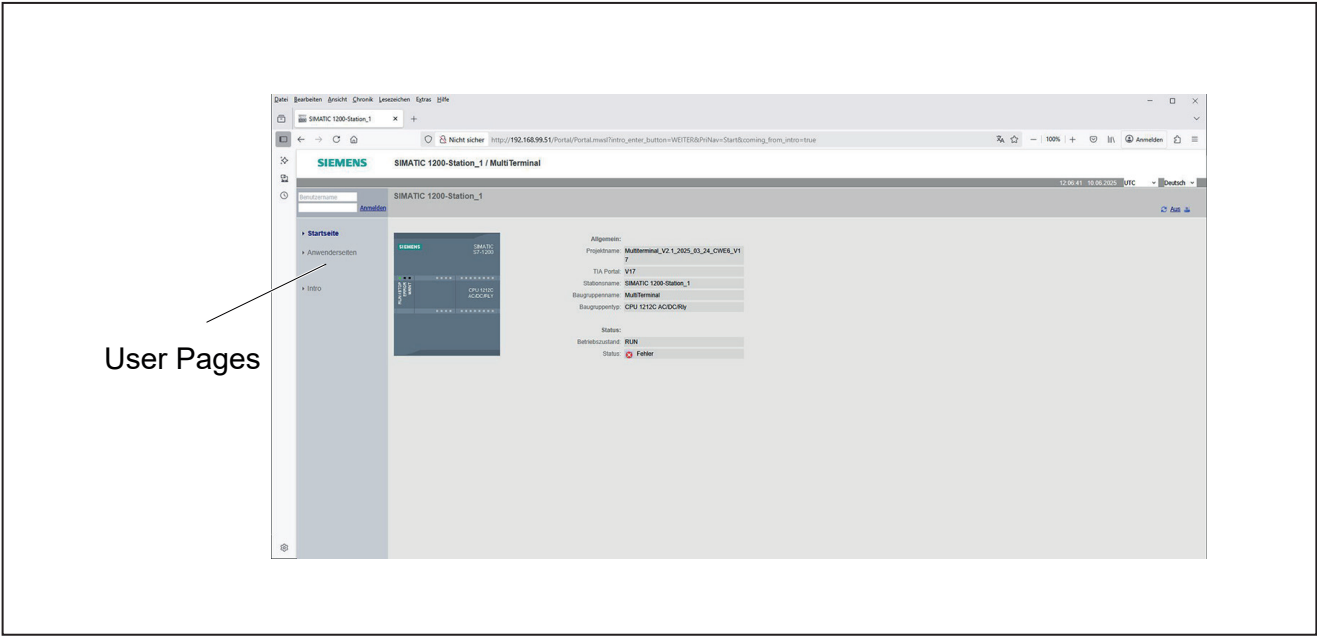


Fig. 5 - 14 Start Page

Click on the link on the start page to call up the system settings menus

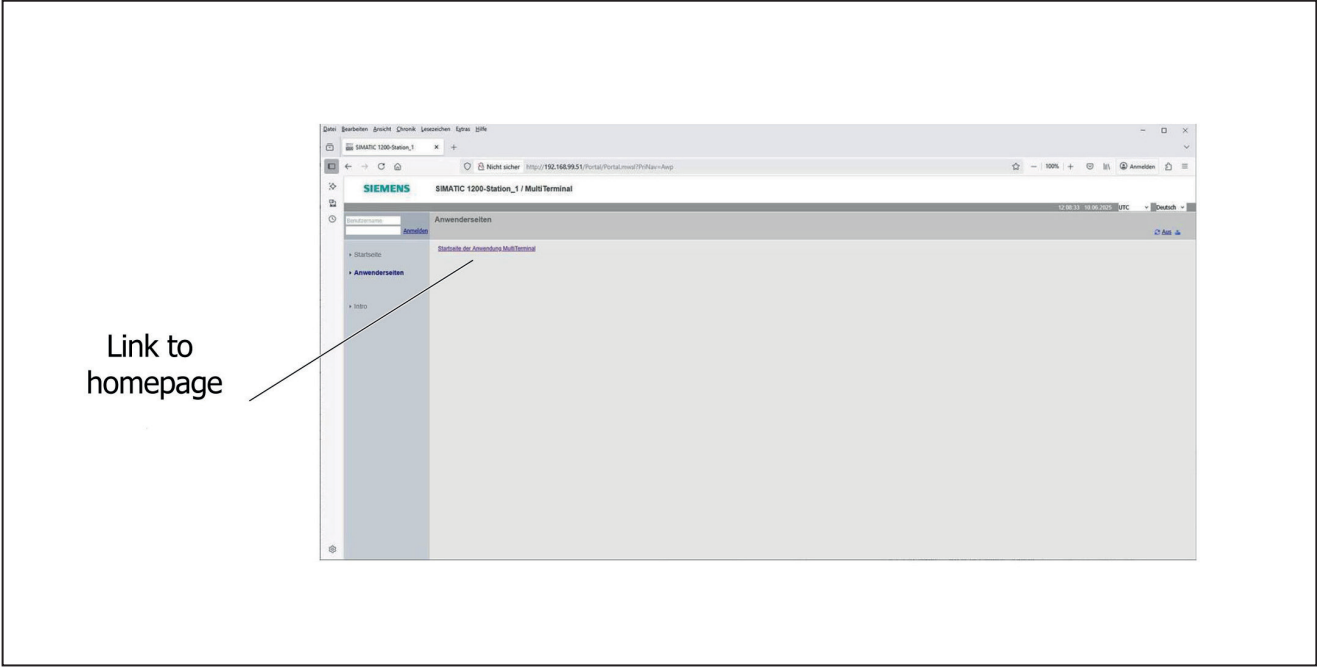


Fig. 5 - 15 Open the User Pages Settings window

Start page for selecting menus for system settings and system information.



Fig. 5 - 16 Start page for menu window Device settings and information

The following menus can be selected on the start page:

- Economics (ECO) for sales displays (see section 5.6.2.1):
 - Total revenue for DUO versions
 - appliance related revenue
- Software for information on the software version (see section 5.6.2.2)
- Settings for appliance and programme settings via the menus (see section 5.6.2.3):
 - OPH: Setting opening hours
 - Credit: Programme-dependent user fee
 - DTGT: Setting system parameters (period of time, happy hour multiplier, frost protection temperature).

5.6.2.1 Menu Economics

The total revenue for MTT1 resp. MTT2 (DUO versions) appears under the Total menu.

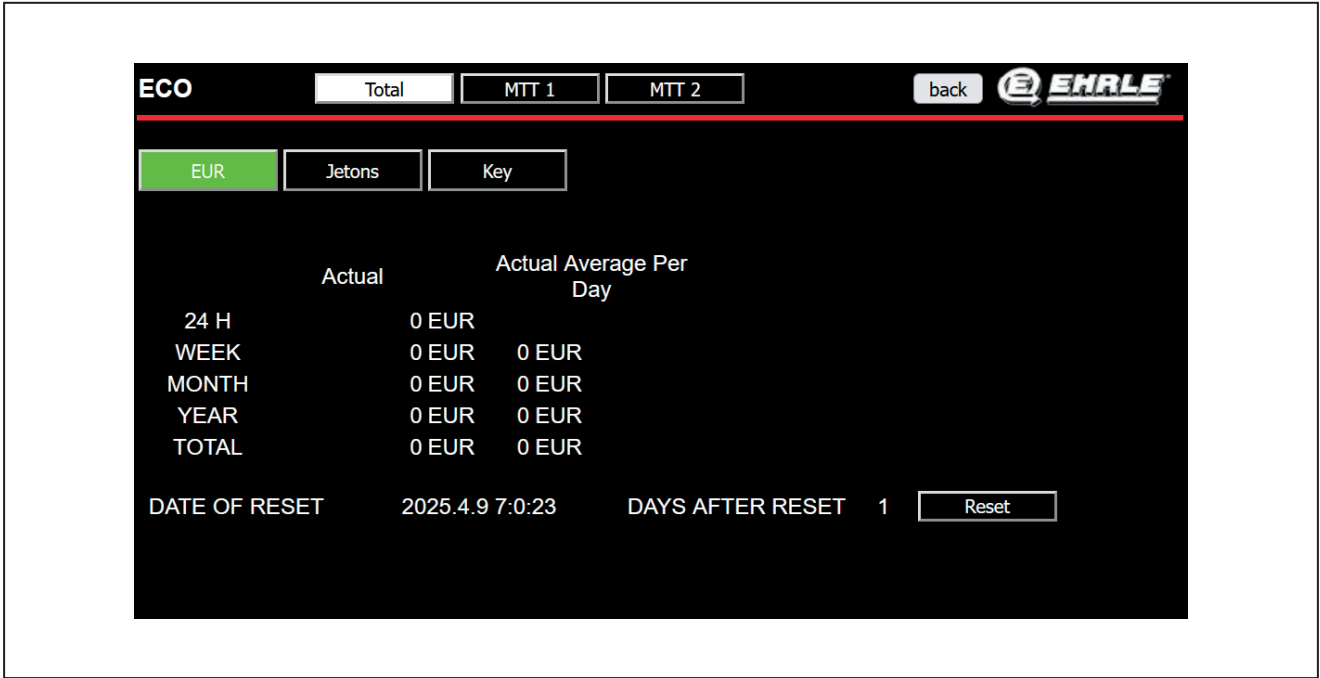


Fig. 5 - 17 Total revenue for several MultiTerminals

Under menu MTT1 resp. MTT2, the revenue appears system-related (DUO version).

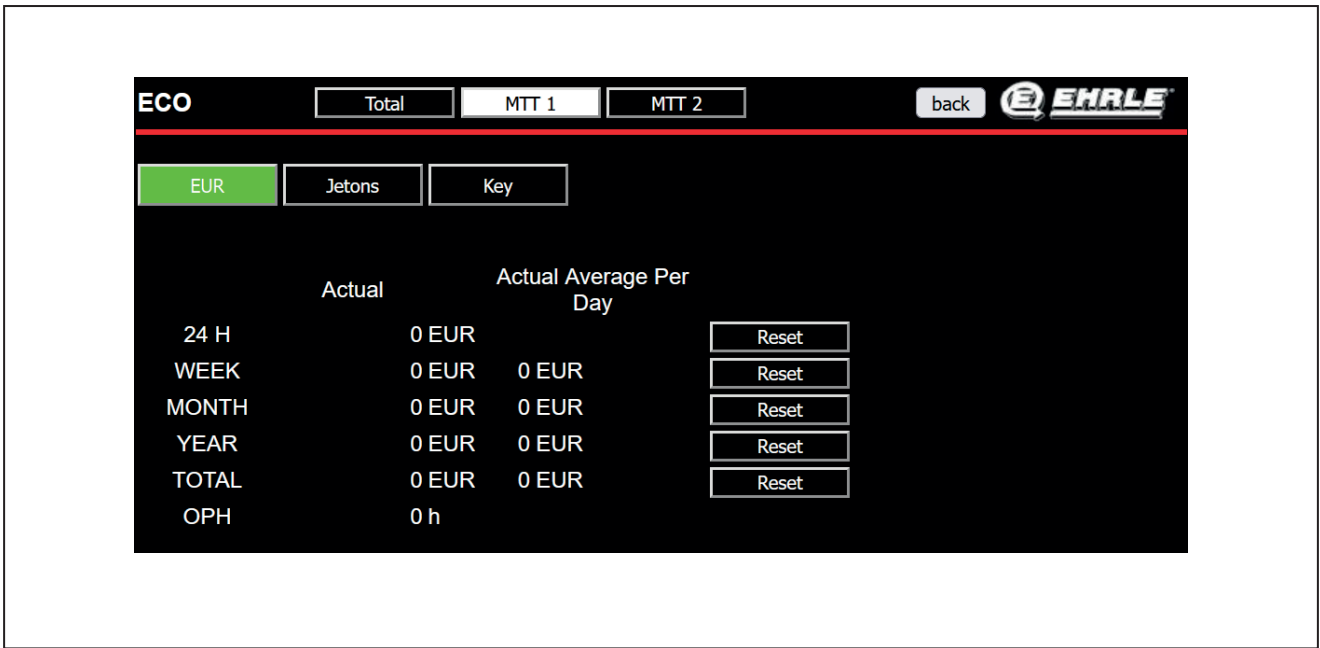


Fig. 5 - 18 Revenue from a MultiTerminal location

5.6.2.2 Window Software-Version

Information window for software version.



Fig. 5 - 19 Window Software-Version

5.6.2.3 Settings

The settings for the opening hours can be made under the OPH menu. In the bottom line Set Time, the time of the timer for the opening time is set.

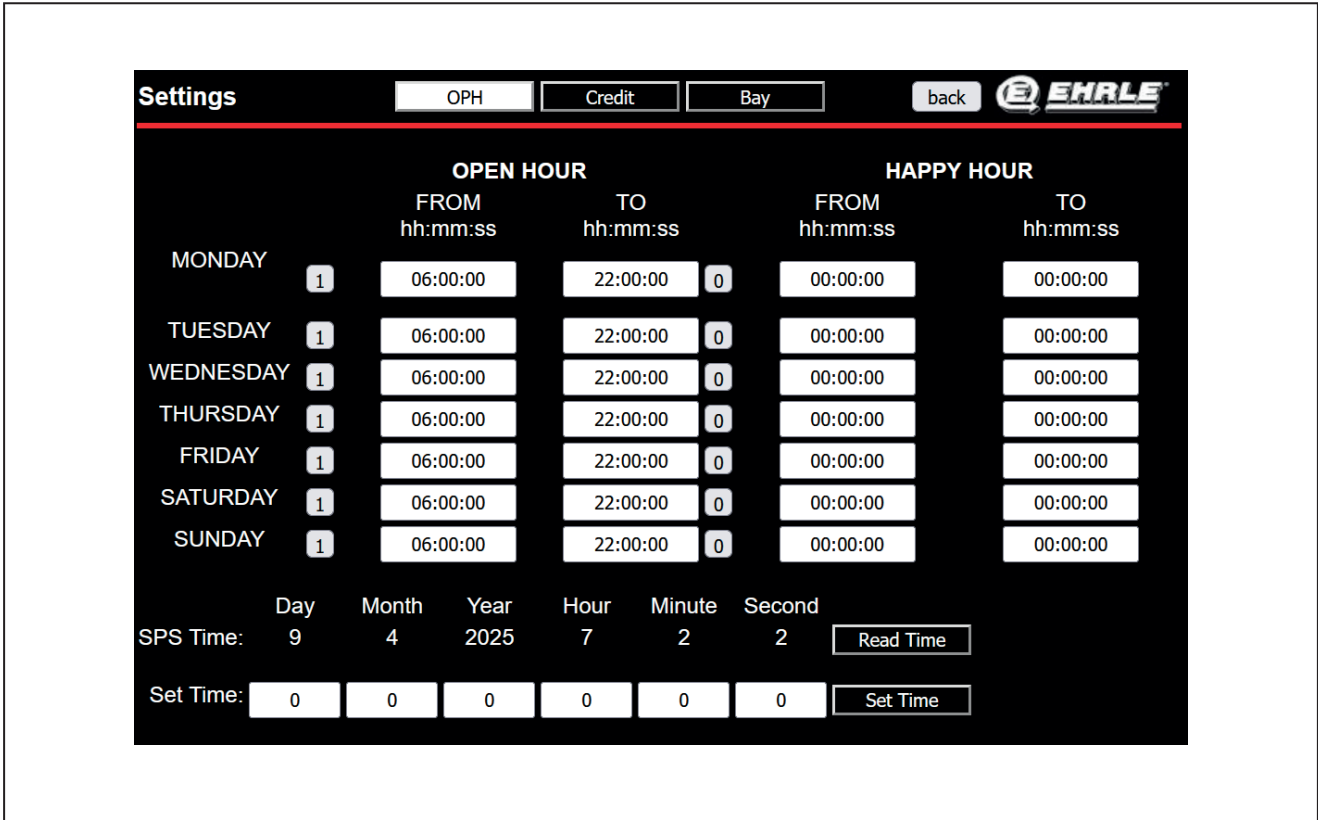


Fig. 5 - 20 Menu window Settings for opening hours

The user fee can be set under the Credit menu depending on the programme.

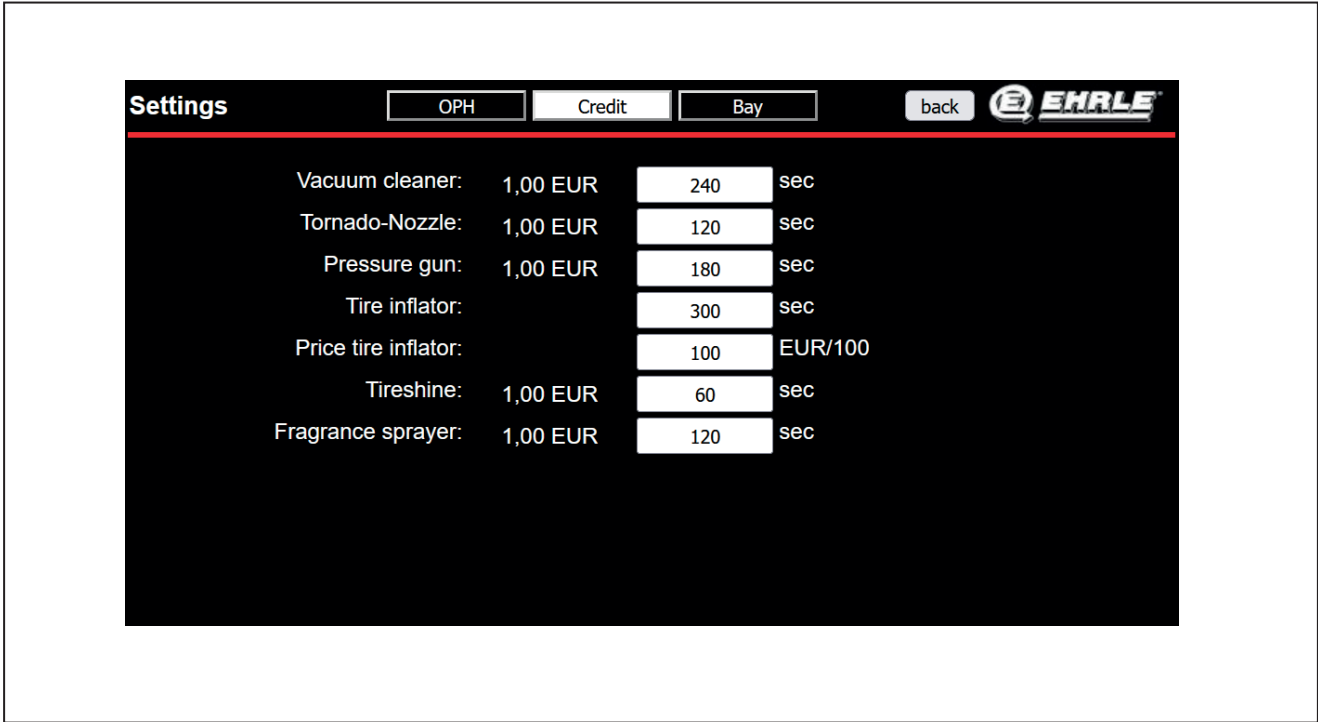


Fig. 5 - 21 Timer control menu for programmes

DGTH menu for setting programme parameters (time sequences, frost protection temperature, happy hour multiplier, etc.),

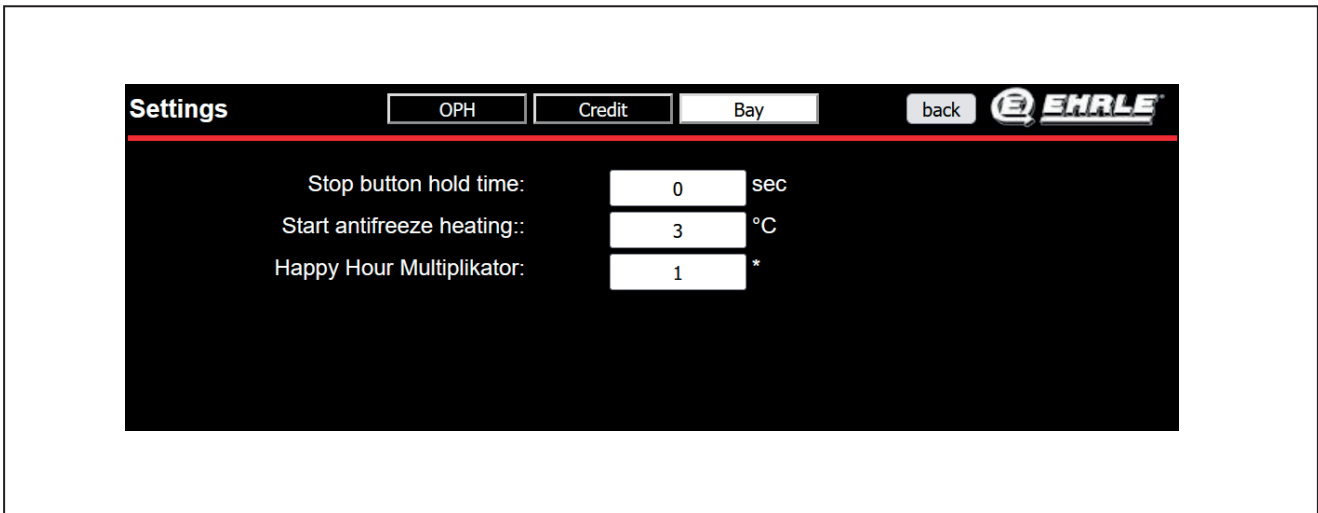
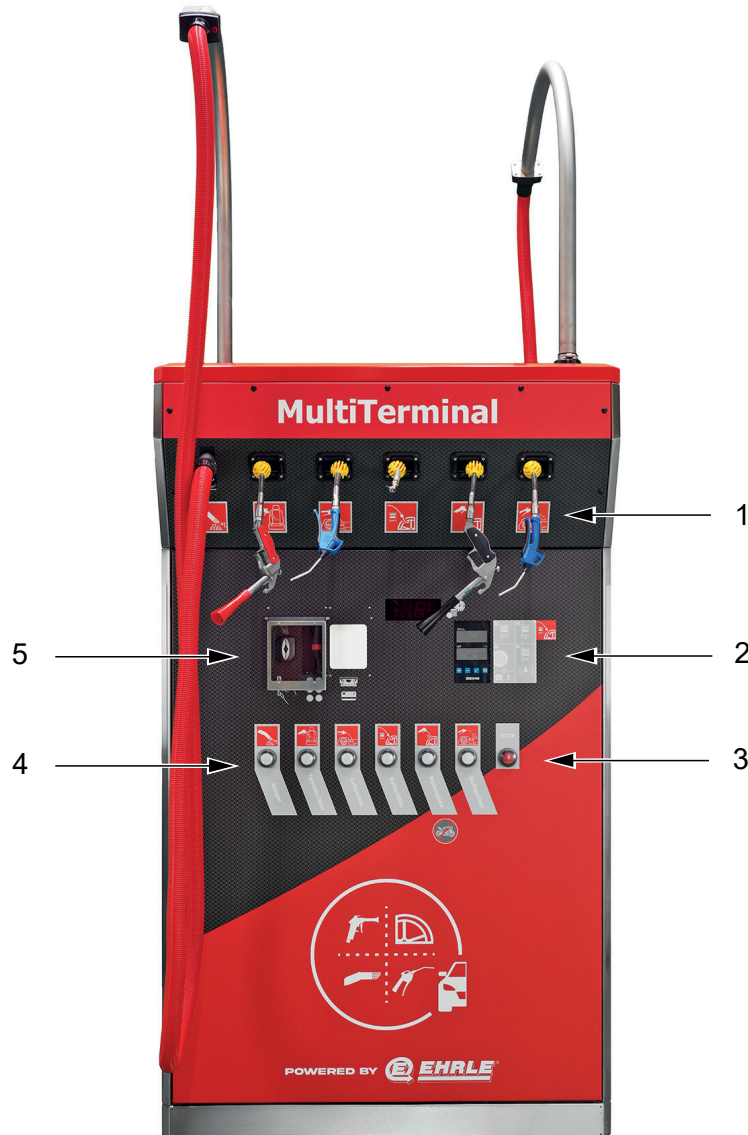


Fig. 5 - 22 DTGT menu, programme parameter settings

6 Operation

6.1 MultiTerminal control/indicator units

The illustration shows the control/indicator units of the MultiTerminal DUO 6in1. This product variant provides all possible program equipment (for the different product variants, see section 3.2



- | | | | |
|---|-------------------------------------|---|---|
| 1 | Care Tool panel | 5 | CentralPay system (Key reader, coin checker, CarWash Key, credit card terminal bank note reader (option)) |
| 2 | Control panel Tire Inflator Station | | |
| 3 | STOP button | | |
| 4 | Programme buttons | | |

Fig. 6 - 1 Control/indicator units of the MultiTerminal DUO 6in1, front view

6.2 Instruction for comprehensive car care

The self-explanatory symbols on the MultiTerminal provide an easy and user-friendly guide through the available programmes to achieve quick and optimal care results.

The Care Tools and tire valve adapter of the Tire Inflator Station are ergonomically arranged on the Care Tool panel.




The programmes and their functions are listed in the table in section 6.2.1, where their functions are also described.




The general procedure for car care:

- Pay the care amount via the CentralPay system, see section 6.2.2.
- Use of the care tools, see section 6.2.3.
- Operation of the Tire Inflator Station, see section 6.2.4

6.2.1 Care programmes and Tire Inflator Station

The table lists the care programmes as well as the Tire Inflator Station programme and describes their possible applications.

Programme	Symbol	Care features
Vacuum Cleaner		Vacuumping without filters or dust bags. Completely mechanical, based on the principle of a tornado. Specially rotating suction nozzles with By-Pass openings on the side to prevent the nozzle from being sucked into the interior.
Tornado Nozzle with care product dosage		Thorough cleaning and care of the car interior. Quick and easy cleaning of particularly hard to reach areas such as ventilation slots, seat rails, door sills, upholstery etc. A small amount of cleaning solution is added to the air flow of the tornado and the resulting film of moisture greatly enhances the cleaning and care performance. The Tornado Nozzle impresses with its high air flow rate and very intensive pulse effect.
Cockpit Air Gun (3 bar)		Excellent for cleaning vehicle interiors, cockpits and ventilation systems. Effortless removal of dust and dirt particles in hard-to-reach areas. The nozzle tube is made of stainless steel and rounded on the nozzle side so that the car interior cannot be damaged.

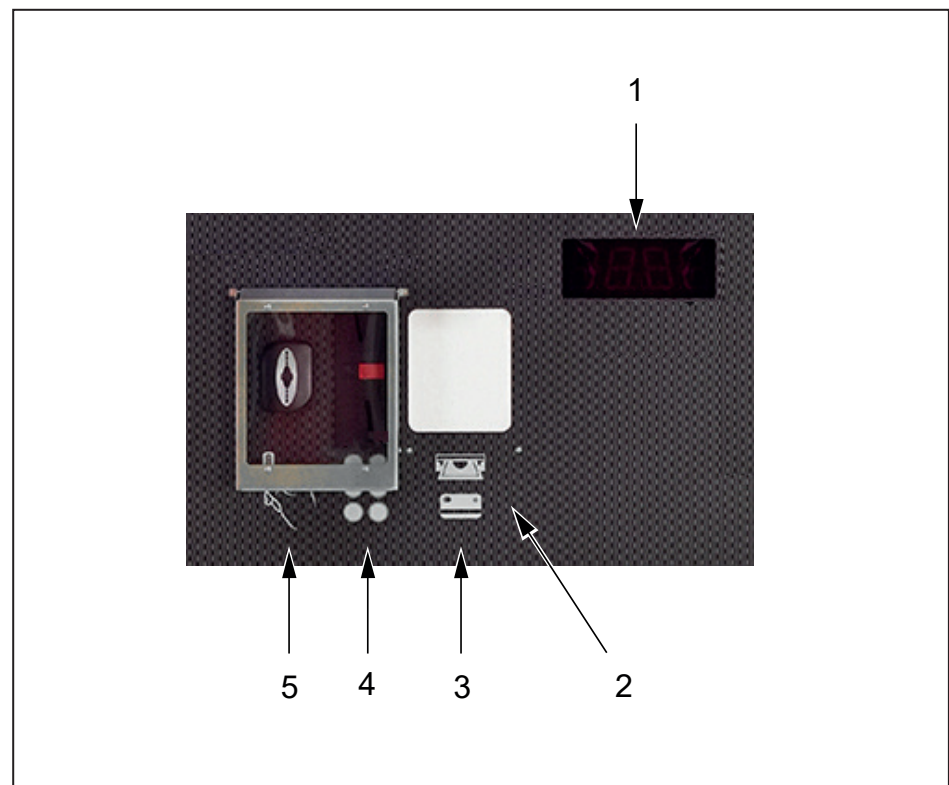
Programme	Symbol	Care features
Fragrance Sprayer		<p>The fragrance sprayer can be used to dispense and distribute the fragrance throughout the car interior. Intensity can be selected by varying the amount of care product used.</p> <p>Ensures a pleasant and subtly scented atmosphere in the car interior.</p> <p>Pleasant, anti-allergenic and ecologically optimised fragrances.</p>
Electronic Tire Inflator Station with Memory		<p>The tire pressure is preset using push buttons and remains unchanged for all subsequent inflations. Simply attach the tire valve adapter to the tire valve and the air pressure in the tire is automatically balanced.</p> <p>After the tire inflation process is complete, an acoustic signal sound will be heard.</p> <p>The pressure value can be read accurately on the built-in LCD display, even in poor lighting conditions.</p>
Tornado TireShine Nozzle with care product dosage		<p>Easy and quick application of the care product TireShine to the visible outer surface of the car tire using the Tornado TireShine Nnozzle.</p> <p>Cleans, cares for and protects the visible outer surface of car tires, ensuring a long-lasting, rich, deep shine.</p> <p>The rubber is cared for and, with regular use, protected against cracking and premature ageing.</p> <p>UV protection prevents premature fading.</p> <p>The deep black shiny finish lasts for several weeks and is suitable for all types of car tires.</p>

6.2.2 Payment of care costs via CentralPay system

The CentralPay operating terminal includes the following components:

- LCD Display (4-digits) (1, Abb. 6 - 2)
 - displays the value for the amount entered
 - after care programme start, the remaining running time is displayed
- CentralPay system (2 bis 5, Abb. 6 - 2) with
 - Key reader
 - coin checker for entering coins
 - credit card reader or bank note reader (option)

The amount paid is displayed on the LCD Display.



- | | |
|----------------------|----------------|
| 1 Care time display | 4 Coin checker |
| 2 Bank note reader | 5 Key-reader |
| 3 Credit card reader | |

Fig. 6 - 2 CentralPay System with LCD Display for car care time

6.2.3 Use of the Care Tools



WARNING

The Care Tools may only be used for car interior and trunk.

The Care Tools

- Vacuum Cleaner Nozzle
- Tornado Nozzle
- Cockpit Air Gun
- Fragrance Sprayer

are for care and cleaning the interior and trunk of cars.

Any use of the care tools that does not correspond to the intended purpose can lead to injuries and life-threatening situations.



WARNING

Only use the Tornado TireShine on the visible outer surface of car tires.

Do not use the Tornado TireShine for the treatment of

- car tire treads or parts of the braking system
- motorbike tires, bicycle tires or other tires

Otherwise, the life and limb of persons may be endangered.



WARNING

Only use the Care Tools for their intended purpose.

The care tools must not be directed at yourself, other people or animals.

Do not use the Care Tools for cleaning or surface treatment of clothing, equipment, devices, assemblies or other objects.

Never point compressed air guns in such a way that air is blown through liquids or small particles, thereby endangering other people.

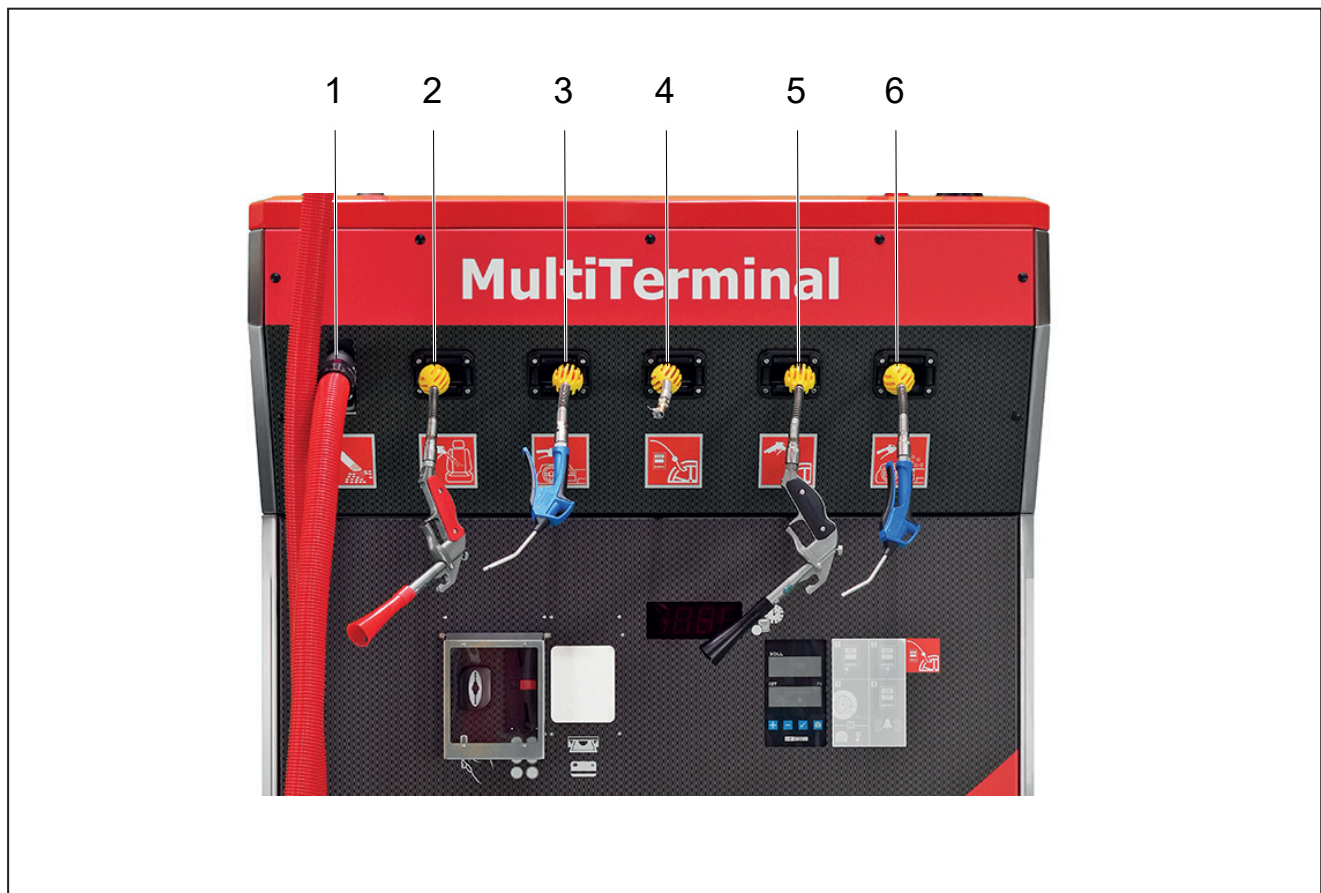
Do not point compressed air guns at flammable substances, liquids or particles.

Do not use Care Tools to clean electrical sockets (interface sockets) or other electrical components. Do not insert the compressed air gun nozzle into electrical sockets for cleaning.

Any use of the care tools that does not correspond to the intended purpose may lead to damage to system components or personal injuries.

The following Care Tools are available on the MultiTerminal 6in1 (see Fig. 6 - 3):

- Vacuum Cleaner nozzle
- Tire valve adapter
- Tornado Nozzle
- Tornado TireShine
- Cockpit Air Gun
- Flagrance Sprayer.



- | | |
|-------------------------|----------------------|
| 1 Vacuum Cleaner Nozzle | 4 Tire valve adapter |
| 2 Tornado Nozzle | 5 Tornado TireShine |
| 3 Cockpit Air Gun | 6 Flagrance Sprayer |

Fig. 6 - 3 Care Tool panel, total view

The programme selection button (see Fig. 6 - 4) illumination appear as a running light in standby mode.

Select the desired care programme using the programme selection button. The running light of the programme selection buttons stops and only the button of the selected care programme is on.

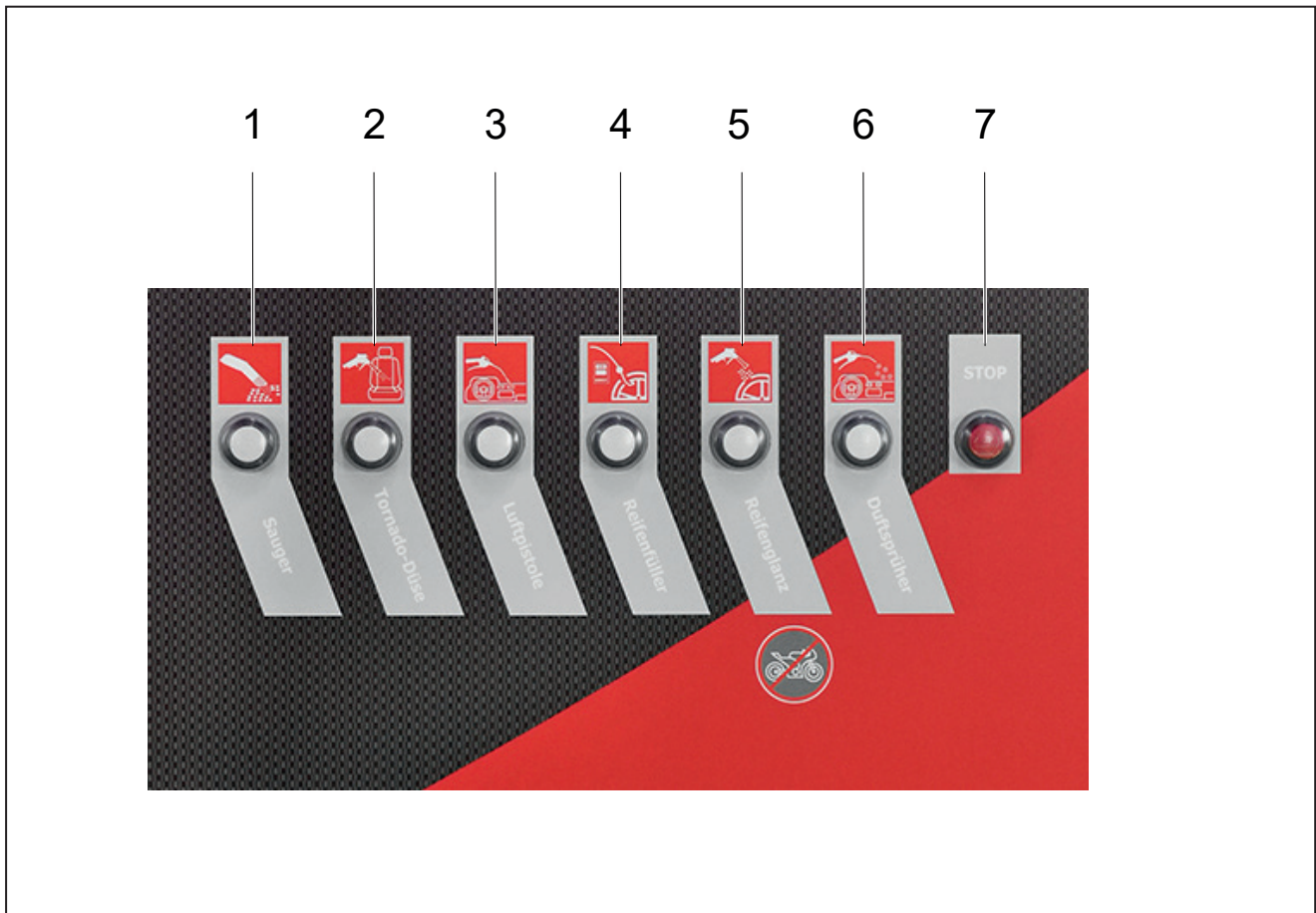
Perform the car care measures as follows with the selected program:

- remove the corresponding Care Tool from the panel
- position the Care Tool at the desired location to be treated
- the hose that has rolled out of the storage compartment behind the Care Tool panel is locked in place.

After the care measures have been completed, the hose can be unlocked by briefly pulling and will automatically be rolled up in the storage compartment when the Care Tool is returned to the Care Tool panel.

During a running care programme, it is possible to switch to another care programme at any time. The STOP button can be used to immediately terminate an activated care programme. The remaining care time of the selected programme is retained.

If the button is pressed for more than 3 seconds, the remaining time is deleted. To restart a programme, select the button for the desired care programme.



- | | |
|-------------------------|----------------------------|
| 1 Vacuum Cleaner | 5 Tornado TireShine Nozzle |
| 2 Tornado Nozzle | 6 Fragrance Sprayer |
| 3 Cockpit Air Gun | 7 STOP button |
| 4 Tire Inflator Station | |

Fig. 6 - 4 Programm selection buttons and STOP button, front view

6.2.4 Operation of the Tire Inflator Station



WARNING

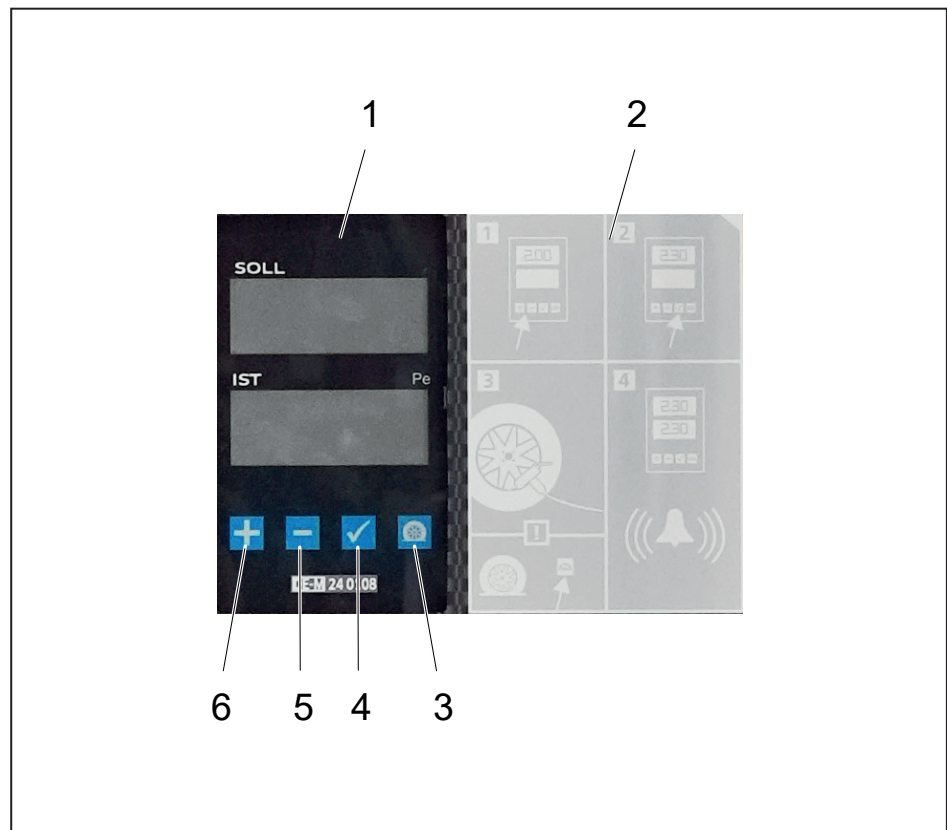
Only use the Tire Inflator Station for car tires.

The Tire Inflator Station may only be used to check tire pressure or inflate car tires.

The Tire Inflator Station must not be used to inflate bicycle tires, pram tires, handcart tires, etc. with bicycle valves and adapters.

Any use of the Tire Inflator Station that does not correspond to the intended purpose may result in damage to system components or personal injury.

The pictograms next to the control/display unit show the operating steps for checking the tire pressure or inflating the tires (see 2, Fig. 6 - 5).



- | | | | |
|---|-----------------------------------|---|------------------------------|
| 1 | Display setpoint and actual value | 4 | Acknowledge button |
| 2 | Operating menu (pictograms) | 5 | Decrease input value (minus) |
| 3 | Completely deflated tire button | 6 | Increase input value (plus) |

Fig. 6 - 5 Tire Inflator Station, view to control/display unit

The Tire Inflator Station is ready for operation when the initial setpoint value of 2,0 bar (passenger cars) is shown on the upper LCD Display.

To inflate the tires, proceed as follows (see Fig. 6 - 5):

- Set the setpoint using the „+“ resp. „-“ button.
- Acknowledge setpoint with „✓“ button.
- Remove the tire valve adapter from the Care Tool panel and connect it to the tire valve of the car tire
 - the filling process starts automatically
 - for filling completely deflated car tires, press the „Completely Deflated Tire button“ (see 3, Fig. 6 - 5).
- The tire pressure value is shown on the lower LCD Display.
- A signal tone indicates that the target value has been reached.

7 Decommissioning

7.1 Temporary decommissioning by maintenance personnel

To temporarily decommission for maintenance or for several days, proceed as follows:

- ▶ Unlock the lock on the cabinet door (Electrical Control Box side, see Fig. 3 - 3) and open the door.
- ▶ Switch off the MultiTerminal main switch (8, Fig. 3 - 3).
- ▶ Close the door and lock with the key.
- ▶ If necessary, switch off the main switch or circuit breaker of the building mains connection (resp. infrastructure).

7.2 Decommissioning for a longer period of time

For decommissioning and storage for a period of more than 6 months:

- Empty the care product containers (care product and chemical containers, see 7, Fig. 3 - 3) and rinse. Empty the chemical dosing pumps with water.
- Take the MultiTerminal out of operation in accordance with section 7.1.
- If necessary, uninstall and remove the MultiTerminal from the operating location and store it in a frost-protected storage location.
- Cover the MultiTerminal or components with a protective tarpaulin.

8 Maintenance



WARNING

Carry out maintenance measures professionally.

Maintenance of the MultiTerminal may only be carried out by qualified, trained and authorized personnel.

Before carrying out any maintenance work, take the MultiTerminal out of operation. If necessary, switch off the main switch or circuit breaker of the power supply from the infrastructure (e.g. building connection).

8.1 General Information

The maintenance measures must be carried out professionally as well as regularly and mean for the MultiTerminal:

- guarantee of operational safety
- achieving a long service life
- Maintaining the performance.

8.2 Maintenance work

Components which show increased wear or whose design duration has been exceeded or is exceeded before the next maintenance must be replaced as a precaution.

The following table contains the periodical maintenance work for the MultiTerminal.



General info on draining condensation water.

No maintenance work is required to drain the condensation water. The condensation water is drained down to the outside. The compressor operates oil-free, meaning that no harmful substances are emitted.

The compressed air system vents for three seconds every 60 minutes.



General information on operating instructions from suppliers.

For maintenance instructions for Care Tools and Tire Inflator Station, please also refer to the operating manuals provided by the suppliers (see Technical Documents in Volume 2):

- Chemical Dosing Unit
- Tornado Nozzle
- Tornado TireShine
- Tire Inflator Station

The maintenance instructions in the suppliers' operating manuals must be observed.

Period	Component	Measure	Authorized Personnel
Daily	CentralPay system coins	empty	Maintenance personnel
	Tire Inflator Station	Check for leaks (feed hose, tire valve adapter)	Maintenance personnel
	Heating element (see Fig. 3 - 4)	Check daily during frost periods to ensure proper functioning.	Maintenance personnel
	Cabinet inside/outside	Visual inspection for contamination, damage and wear on the system cabinet and components.	Maintenance personnel
		Clean dirty surfaces with water or mild cleaning agents if necessary; replace damaged parts.	Maintenance personnel resp. Customer Service
	Care Tools	Visual inspection for contamination, wear and tear, damage to Care Tools as well as to extendable tool hoses (compressed air hoses), suction hose of Vacuum Cleaner and nozzle, check locking mechanism of the tool hoses, check that the screw connections are secure.	Maintenance personnel
		Clean contaminated surfaces, if necessary, with mild cleaning agents; replace damaged parts, tighten loose screws.	Maintenance personnel resp. Customer Service
	Cabinet inside/outside	Checking for leaks	Maintenance personnel
		Eliminate leaks, replace damaged and leaking parts.	Maintenance personnel resp. Customer Service
	Hoses inside the cabinet (compressed air hoses, care product hoses, vacuum cleaner suction hose).	Visual inspection for damage and wear.	Maintenance personnel
		Replace damaged or worn parts.	Maintenance personnel
	Care product container for Tornado Nozzle, Tornado TireShine, Fragrance Sprayer.	Check the fill level and top up if necessary; completely empty containers must be vented after filling, see section 8.3.	Maintenance personnel
Weekly	Cleaning guns of Tornado Nozzle and Tornado TireShine.	Remove dirt and deposits, see section 8.7.	Maintenance personnel

Tab. 8 - 1 List of periodical maintenance work

Period	Component	Measure	Authorized Personnel
Monthly	Power supply cable to cabinet	Visual inspection for damage.	Maintenance personnel
		Replace damaged cables.	Electrical Specialist resp. ggf. Customer Service
	Cabinet door lock.	If necessary, re-lubricate with Teflon spray.	Maintenance personnel
	Check operating settings (pressure values) on the pressure gauges	Check that the operating settings are correct; readjust the operating settings if necessary (see section 4.4).	Maintenance personnel
	Check operating settings of the Chemical Dosing Units (Tornado Nozzle, Tornado TireShine, Fragrance Sprayer).	Check that the operating settings are correct; readjust the operating settings if necessary (see section 4.4).	Maintenance personnel
	Care programmes.	Perform function test.	Maintenance personnel
	Display units (LCD Displays for car care time and Tire Inflator Station, programme button illumination.	Check function.	Maintenance personnel
	Dirt container for Vacuum Cleaner	Check the fill level, empty and clean if necessary (see section 8.4).	Maintenance personnel
	Fine particle filter (dirt container Vacuum Cleaner).	Check for contamination, empty and clean if necessary (see section 8.5).	Maintenance personnel
	Filter for compressor (2x)	Check for contamination and clean or replace the filter if necessary (see section 8.6).	Maintenance personnel
3 Month	Tornado Nozzle Tornado TireShine	Replace if necessary, depending on usage time and wear.	Maintenance personnel
	Vacuum Cleaner nozzle	Visual inspection for contamination and wear; clean if contaminated or replace if damaged.	Maintenance personnel
6 Month	Fixing screws for the system cabinet and components in the cabinet.	Visual check for corrosion or damage; check for tight fit, retighten fixing screws if necessary; repair damaged screw connections.	Maintenance personnel

Tab. 8 - 1 List of periodical maintenance work

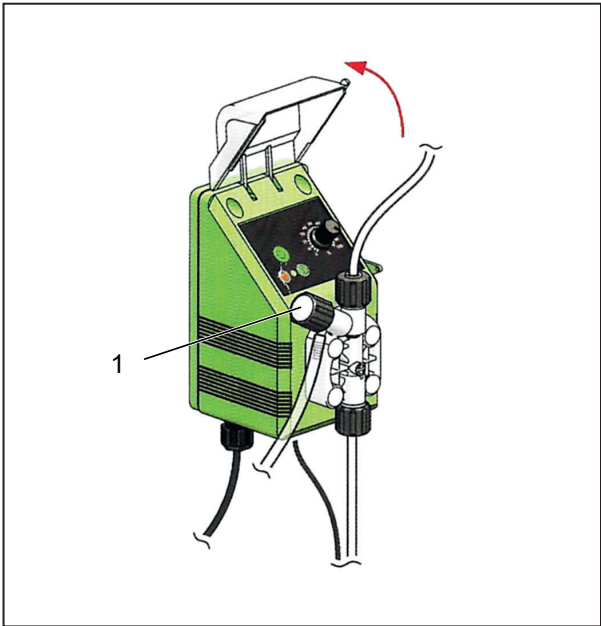
Period	Component	Measure	Authorized Personnel
Annually	Compressor	Check for mechanical wear and leaks; replace seals if leaks are found (repair kit for piston compressor); replace the compressor in case of function losses or failures due to mechanical wear	Maintenance personnel
Statutory deadline	Tire Inflator Station	Observe country-specific laws on the calibration of tire inflators. Comply with legally prescribed deadlines.	Measurement office, state-approved laboratories or calibration laboratories approved by authorities.

Tab. 8 - 1 List of periodical maintenance work

8.3 Vent the Chemical Dosing Unit

After filling a new or completely empty care product container or chemical container, vent the Chemical Dosing Unit as follows:

- open the vent valve slightly
- switch on the Chemical Dosing Unit until no more air escapes
- close the vent valve.



1 Vent valve

Fig. 8 - 1 Chemical Dosing Unit, vent valve

8.4 Dirt container for Vacuum Cleaner

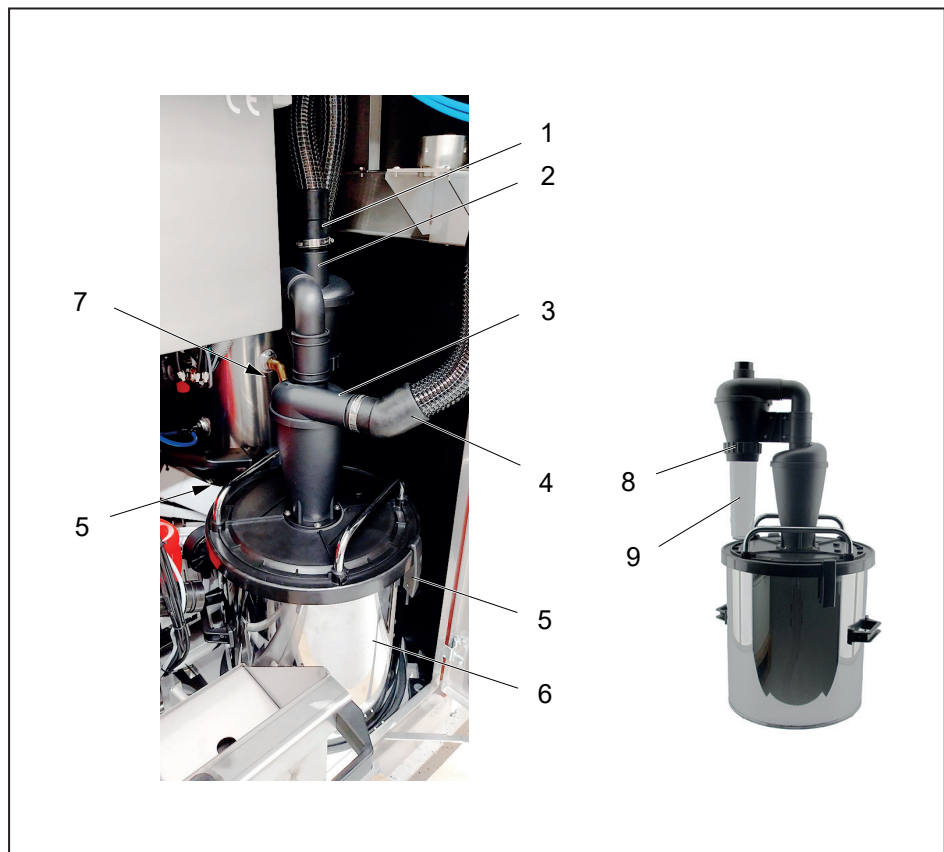


General information on emptying the dirt container.

The two hose clamps do not need to be loosened to empty the dirt containers.
The hose reductions are inserted into the hose adaptations of the dirt container.

To empty the dirt container, proceed as follows:

- remove the Vacuum Cleaner hose and Suction hose from the container adaptations
- Open both latches on the container
- Remove the lid from the dirt container



- | | | | |
|---|--------------------------------------|---|--|
| 1 | Hose (exhaust duct) | 5 | Latch (2x) |
| 2 | Container hose adapter (exhaust air) | 6 | Dirt container |
| 3 | Container hose adapter | 7 | Fine particle filter (installation location) |
| 4 | Vacuum Cleaner hose | 8 | Screw connection fine particle filter |
| | | 9 | Fine particle filter |

Fig. 8 - 2 Dirt container, component view

8.5 Clean fine particle filter

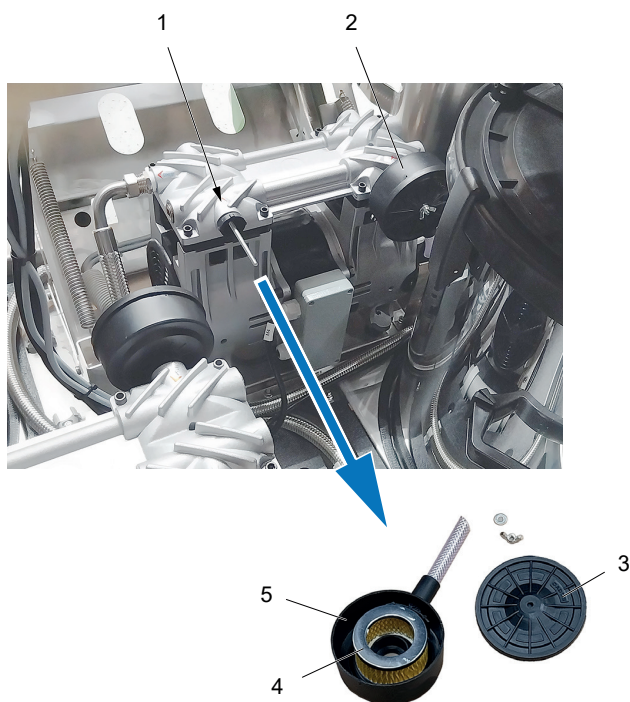
To clean the fine particle filter, proceed as follows:

- loosen the screw connection of the fine particle filter (see 8, Fig. 8 - 2)
- remove and clean the filter
- visually inspect the gasket, if damaged replace it
- when installing the filter, ensure that the seal is correctly positioned.

8.6 Clean compressor filter

To clean the compressor filter, proceed as follows:

- unscrew the wing nut on the filter cover (see 3, Fig. 8 - 3) and remove it together with the washer
- remove the filter housing from the installation location
- clean the filters or replace damaged filters if necessary.



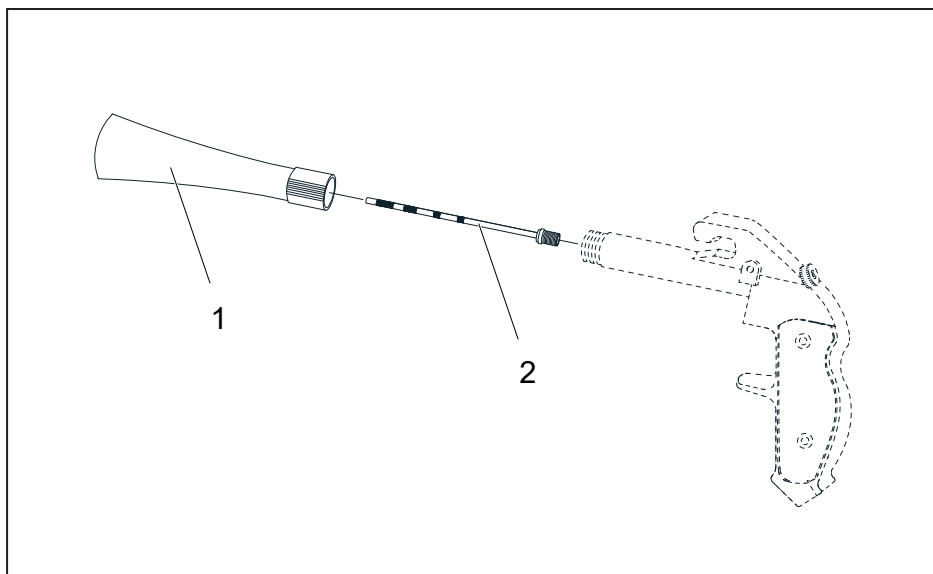
- | | | | |
|---|--------------------------------|---|----------------|
| 1 | Installation location Filter 1 | 4 | Filter |
| 2 | Installation location Filter 2 | 5 | Filter housing |
| 3 | Filter cover | | |

Fig. 8 - 3 Compressor filter, component view

8.7 Clean the Tornado gun nozzles

To clean the gun unit nozzles of the Tornado Nozzle and Tornado TireShine, proceed as follows

- Unscrew the tube assy and tube assy housing
- Place the tube assy and tube assy housing in clean water for 8 to 12 hours and remove any dirt and deposits.
- Reassemble in the reverse order of disassembly.



- 1 Tube assy housing
- 2 Tube assy

Fig. 8 - 4 Tornado tube assy and housing, total view



9 Troubleshooting



WARNING
Carry out troubleshooting and rectification properly.
Troubleshooting of the MultiTerminal may only be carried out by qualified, trained and authorized personnel.
Before troubleshooting, take the MultiTerminal out of operation using the main switch inside the cabinet.

9.1 Troubleshooting table

For troubleshooting purposes, possible error causes are listed in the following table.
Clean the contaminated parts (filter, pipes, nozzles etc.) to eliminate possible faults. Replace defective parts.



General information on operating instructions from suppliers.
For troubleshooting instructions for Care Tools and Tire Inflator Station, please also refer to the operating manuals provided by the suppliers (see Technical Documents in Volume 2):

- Chemical Dosing Unit
- Tornado Nozzle
- Tornado TireShine
- Tire Inflator Station

The troubleshooting instructions in the suppliers' operating manuals must be observed.

Error	Possible cause	Remedying	Authorized personnel
MultiTerminal cannot be switched on	MultiTerminal main switch or circuit breaker of the infrastructure (building connection) switched off or has tripped.	Switch on the main switch or circuit breaker again.	Maintenance personnel
	Circuit breaker from the infrastructure trips again after repeated switching on.	If building power supply OK, MultiTerminal defective; leave main switch off, inform customer service.	Customer service
	Power supply cable damaged or defective.	Replace damaged or defective cable.	Electrical Specialist

Tab. 9 - 1 Troubleshooting table

Error	Possible cause	Remedying	Authorized personnel
MultiTerminal cannot be switched on	MultiTerminL control or components defective.	Replace defective components.	Customer service
Programm selection buttons	No running light in standby mode.	Repair push-button lighting.	Customer service
	When the care programme is activated, the button does not light up.	Defective system control or indicator light.	Customer service
MultiTerminal switched off during operation.	Switch the MultiTerminal on again.	If the MultiTerminal switches off several times during operation, leave system switched off and inform customer service.	Customer service
MultiTerminal switched off during stand-by mode.	Switch the MultiTerminal on again.	If the MultiTerminal switches off several times during standby mode, leave system switched off and inform customer service.	Customer service
Poor care results with a care tool or functional failure.	Care tools mechanically damaged or defective	Replace damaged care tool.	Maintenance personnel
	Clogging in the compressed air supply system or care tool.	Eliminate clogging, and replace defective parts if necessary.	Maintenance personnel resp. Customer service
	Leak in the feed hose or care tool.	Eliminate leakage, replace damaged parts if necessary.	Maintenance personnel resp. Customer service
	Technical malfunction	See the manufacturer's operating instructions (Technical Documents in Volume 2).	Maintenance personnel resp. Customer service
Tire Inflator Station	Leakage in the supply hose or tire valve adapter.	Eliminate leakage in the pressure supply system or replace the tire valve adapter.	Maintenance personnel resp. Customer service
	Error code display on the control/display unit of the Tire Inflator Station.	See the manufacturer's operating instructions of Tire Inflator Station (Technical Documents in Volume 2).	Maintenance personnel resp. Customer service

Tab. 9 - 1 Troubleshooting table

Error	Possible cause	Remedying	Authorized personnel
No care product supply with the Tornado Nozzle, Tornado TireShine or Fragrance Sprayer.	Care product container empty.	Check the fill level and top up if necessary. Completely empty containers must be vented after filling, see section 8.3.	Maintenance personnel
No care product supply with the Tornado Nozzle, Tornado TireShine or Fragrance Sprayer	Hoses from the care product system clogged or defective.	Eliminate clogs or replace defective parts.	Maintenance personnel
	Setting at the Chemical Dosing Unit is not correct.	Make the desired setting at the Chemical Dosing Unit.	Maintenance personnel
	Chemical Dosing Unit defective.	For troubleshooting, see the manufacturer's operating instructions (Technical Documents in Volume 2); replace the defective Chemical Dosing Unit if necessary.	Maintenance personnel
Malfunction of Tire Inflator Station, care programmes, CentralPay system.	System control defective.	Repair system control units.	Customer service
Vacuum Cleaner cleaning performance inadequate or malfunction	Suction nozzle or Vacuum Cleaner hose is clogged or defective.	Eliminate clogs or replace defective parts.	Maintenance personnel
	Dirt container full or fine particle filter contaminated	Empty the dirt container (see section 8.4) or clean the fine particle filter (see section 8.5).	Maintenance personnel
	Vacuum Cleaner system hoses clogged or malfunctioning.	Eliminate cloggings or replace defective components in the event of a malfunction.	Maintenance personnel resp. Customer service
	Functional failure with Vacuum Cleaner.	Replace defective components or parts.	Maintenance personnel resp. Customer service

Tab. 9 - 1 Troubleshooting table

9.2 Replacement of components and parts

Replace the defective components and parts.

Only use spare parts recommended and approved by the manufacturer.



10 Spare parts logistic

10.1 MultiTerminal assembly overview

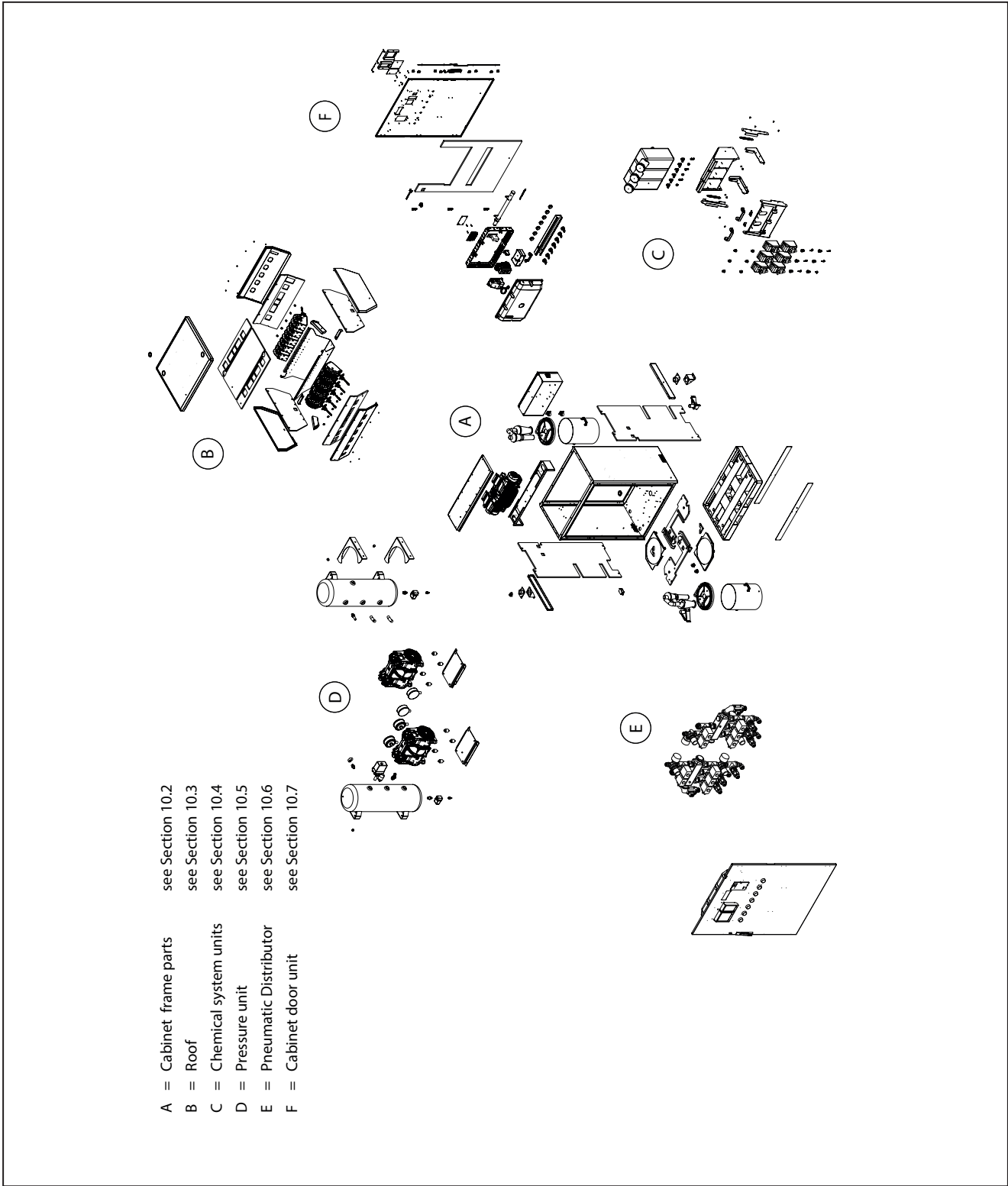


Fig. 10 - 1 MultiTerminal, assembly overview



Pos-No.	Article No.	Drawing number	Designation 1	Designation 2	Qty
1	593603000 00000	STB-099-292-001	Kabelschlauchhalter Ø36mm	cable hose bracket Ø 36 mm	2
2	570019	-1	Schmutzbehälter Ø400mm	Dirt container Cyclon Ø400mm"	2
3	603219	BT-006-003-001	Kantteil, Auflager Mantel, 1.4301, GK	edgepart, support coat, 1.4301, CA	2
4	603640	BT-006-013-001	Schweißteil, Schaltkastenauf- hängung, 1.4301, SCH	weldpart, switch box mount, 1.4301, WEL	1
5	5147058	-1	Aussen-Thermometer	Thermometer Outside	1
6	800734	Sa-003-012-003	Schweißteil, Schlauchgalgen- halterung 2, 1.4301,SCH"	weldpart, hosegallow mount 2, 1.4301, WEL	2
7	800735	Sa-000-003-002	Schweiß-Bg, Schlauchgalgen Lager, 1.4301, SCH	welded-assembly, hosegal- low bracket, 1.4301, WEL	2
8	603226	BT-006-012-002	Schweißteil, Auflager Seitenverdichter, 1.4301,SCH	weldpart, support side compressor, 1.4301, WEL	1
9	569800	STB-099-495-001	Seitenkanalverdichter 3AC 400V 50Hz	Side channel blower 3AC 400V 50Hz	2
10	579024	BT-006-900-001	Dämmmattenzuschnitt Noise- flex Proof PU20mm	Pipe Insulation	2
11	570016	STB-099-641-001	Cyclon Filter	Cyclone Filter	2
12	603383	BT-006-070-001	Fräßteil, Deckel Saugbehälter, PVC, GF	millpart, vacuum lid, PVC, mil	2
13	603319	BT-006-020-001	Laserteil, Sockelblende, 1.4301, GS	laserpart, socket cover, 1.4301, SA	2
14	603276	BT-000-063-001	Schweiß-Bg, Abluftkanal, 1.4301, SCH	welded assembly, exhaust, 1.4301, WEL	2
15	603310	BT-000-062-001	Kantteile 1.4301 geschweißt	bending sheet 1.4301 welded	1
16	603313	BT-006-032-001	Kantteil, Halterung Staubbe- hälter, 1.4301, GK	edgepart, dustbin bracket, 1.4301, CA	2
17	603216	BT-000-056-001	Schweiß-Bg, Mantel komplett, 1.4301, GSO	welded assembly, complete coat, 1.4301, SAS	1
18	593605000 00000	STB-099-293-001	Kabelschlauchhalter Ø29mm	cable hose bracket Ø29 mm	3
19	579024	BT-006-906-001	Dämmmattenzuschnitt Noise- flex Proof PU20mm	Pipe Insulation	1
20	x	ES-001-019-001	Schweißteil, Schaltschrank MultiTerminal,1.4301,ST	weldpart, switch cabinet MFG, 1.4301, SB	1
21	528902	STB-099-649-001	Membran-Durchführungsstülle 59x69x80mm"	Membrane-grommet 59x69x80	1

Tab. 10 - 1 Parts list cabinet frame parts

10.3 Roof

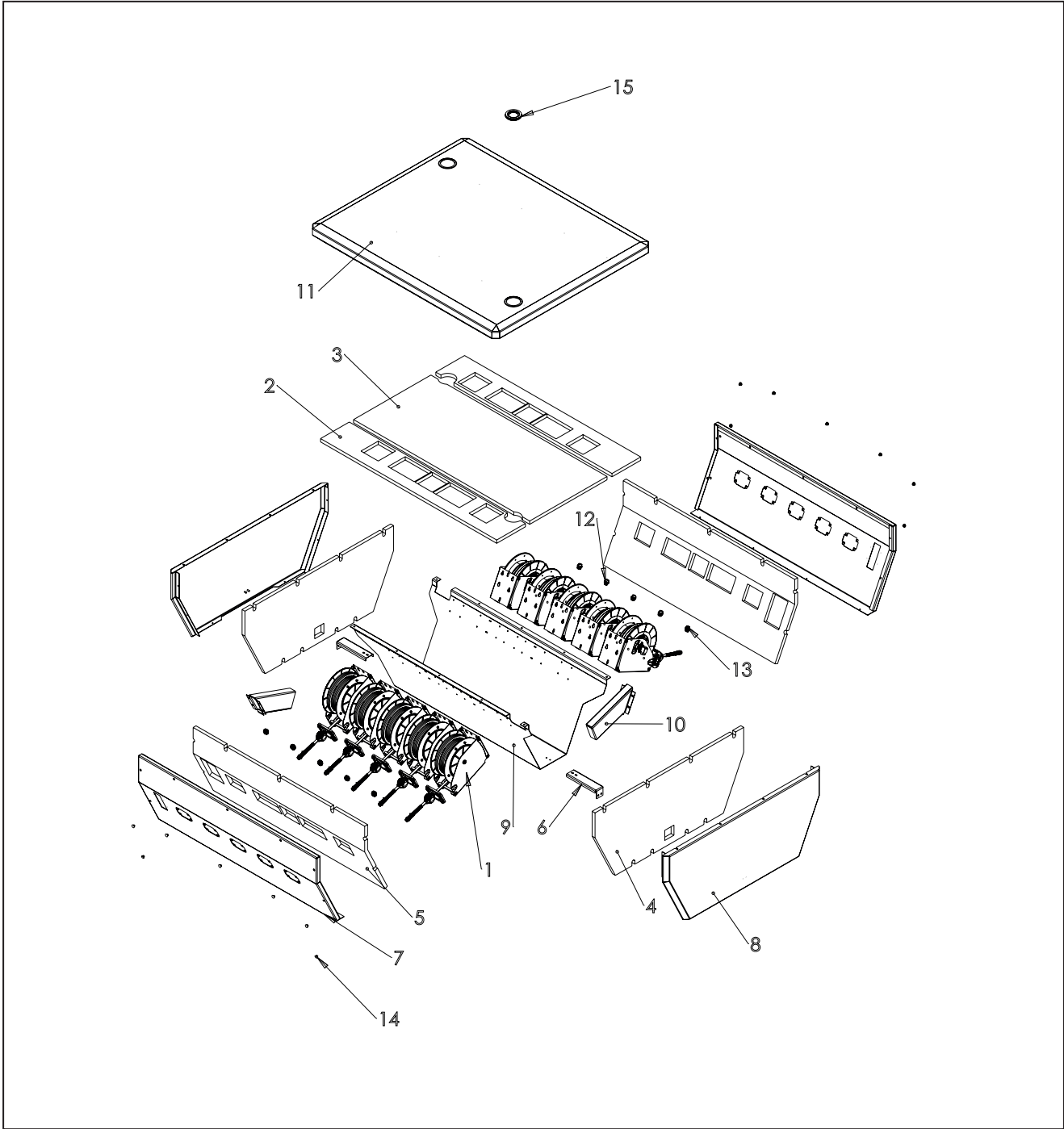


Fig. 10 - 3 Roof, exploded view

Pos-No.	Article No.	Drawing number	Designation 1	Designation 2	Qty
1	265220	STB-099-595-001	Schlauchtrommel pulverbeschichtet	Hose reel powder coated"	10
2	579024	BT-006-903-001	Dämmmattenzuschnitt Noise-flex Proof PU20mm	Pipe Insulation	2
3	579024	BT-006-904-001	Dämmmattenzuschnitt Noise-flex Proof PU20mm"	Pipe Insulation	1
4	579024	BT-006-902-001	Dämmmattenzuschnitt Noise-flex Proof PU20mm	Pipe Insulation	2
5	579024	BT-006-901-001	Dämmmattenzuschnitt Noise-flex Proof PU20mm	Pipe Insulation	2
6	603265	BT-006-025-001	Kantteil, Abstandshalter Seitenwand, 1.4301, GK	edgepart, placeholder sidewall, 1.4301, CA	2
7	603601	BT-006-071-001	Kantteil, Durchführungstafel 6 in 1, 1.4301, BO	edgepart, implementation board 6 in 1, 1.4301, BO"	2
8	603269	BT-006-026-001	Schweißteil, Seitenteil, 1.4301, GSO	weldpart, sidewall, 1.4301, SAS	2
9	603250	BT-006-073-001	Kantteil, Halter Schlauchtrommel Faicom, 1.4301,GK	edgepart, hosedrum holder, 1.4301, CA	1
10	603247	BT-000-058-001	Schweiß-Bg, Düsenhalterung komplett, 1.4301, SCH	welded assembly, nozzle holder complete, 1.4301,WEL	2
11	603240	BT-000-057-001	Schweiß-Bg, Dach, 1.4301, PB	welded assembly, roof, 1.4301, PC	1
12	531351	STB-099-621-001	POM-Steckverbinder Gerade Einschraubverschraubung	POM plug connector straight screw fitting	2
13	531512	STB-099-624-001	POM-Steckverbinder Gerade Aufschraubverschraubung	POM plug connector straight screw connector	8
14	266290	STB-099-639-001	Karosserie Blindstopfen M10	Body plugs M10	14
15	528902	STB-099-649-001	Membran-Durchführungsstülle 59x69x80mm	Membrane-grommet 59x69x80	2

Tab. 10 - 2 Parts list roof

10.4 Chemical system units

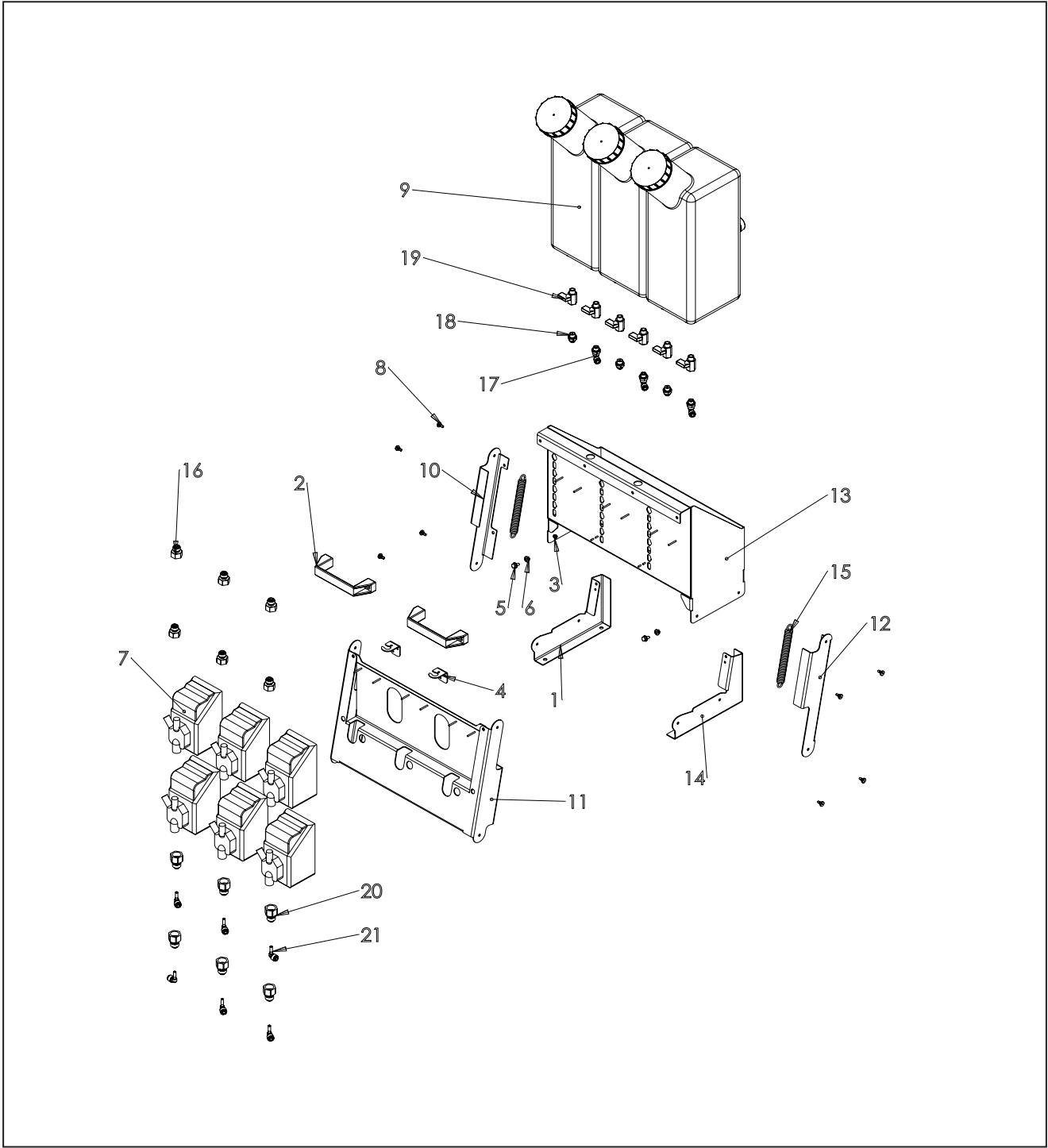


Fig. 10 - 4 Chemical system units, exploded view

Pos-No.	Article No.	Drawing number	Designation 1	Designation 2	Qty
1	603632	BT-006-105-001	Schweißteil, Chemiehalterung Fuß rechts, 1.4301, SCH	weldpart, chemical mount foot right, 1.4301, WEL	1
2	2290	STB-099-005-001	Micropulverdosierer Griff 150mm	Micropowderdosing handle 150mm	2
3	576703	-xxx	Sechskantsicherungsmutter mit Kunststoffring	Prevailing torque type hexagon nut nylon insert	4
4	603652	BT-006-097-001	Kantteil, Chemiehalt. Schlauchführ., 1.4301, GK	edgepart, chemical mount hosebracket, 1.4301, CA	2
5	386211	-xxx	Sechskantschraube mit Flansch und Sperrverzahnung	Hexagon head screw serrated with flange	2
6	386307	-xxx	Sechskantmutter mit Flansch und Sperrverzahnung	Hexagon flange nut serrated	2
7	349909	STB-099-603-001	Magnet-Membrandosierpumpe 1,5l/h	Magnetic-Membrane Dosing Pump 1,5l/h	6
8	384661	STB-099-606-001	Bundschraube GN732.1-M5-6-5-NI INOX	Collar screw GN732.1-M5-6-5-NI INOX	8
9	393804	STB-099-564-001	Chemiebehälter 10,5 L Waagrecht	Tank Chemical 10,5l right/left	3
10	603646	BT-006-107-001	Kantteil, Chemiehalterung Elle 2, 1.4301, GK	edgepart, chemical mount ell 1, 1.4301, CA	1
11	603658	BT-006-108-001	Kantteil, Chemiehalterung Speiche, 1.4301, BO	edgepart, chemical mount spoke, 1.4301, BO	1
12	603643	BT-006-106-001	Kantteil, Chemiehalterung Elle 1, 1.4301, GK	edgepart, chemical mount ell 1, 1.4301, CA	1
13	603624	BT-000-500-001	Schw.-Bg. Chemiebehälter Multiterminal	welded-assembly, chemical mount, 1.4301, SAS	1
14	603628	BT-006-104-001	Schweißteil, Chemiehalterung Fuß links, 1.4301, SCH	weldpart, chemical mount foot left, 1.4301, WEL	1
15	561893	STB-099-604-001	Zugfeder V2A Ø2,41 Multiterminal	Tension spring Ø2.41 Multiterminal	2
16	531514	STB-099-614-001	POM-Steckverbinder Gerade Aufschraubverschraubung	POM plug connector straight screw connector	6
17	531518	STB-099-625-001	POM Steckverbinder Winkel-Einschraubverschraubung	POM plug connector elbow screw fitting	3
18	531519	STB-099-619-001	POM-Steckverbinder Gerade Einschraubverschraubung	POM plug connector straight screw fitting	3
19	569401	STB-099-630-001	Kugelhahn Chemie 1/4"IG/AG	Ball valve chemistry 1/4 ""IG/AG	6
20	531511	STB-099-615-001	POM-Steckverbinder Gerade Aufschraubverschraubung	POM plug connector straight screw connector	6
21	531515	STB-099-618-001	POM Steckverbinder Winkelstecker	POM plug connector angled plug	6

Tab. 10 - 3 Parts list chemical system units

10.5 Pressure unit

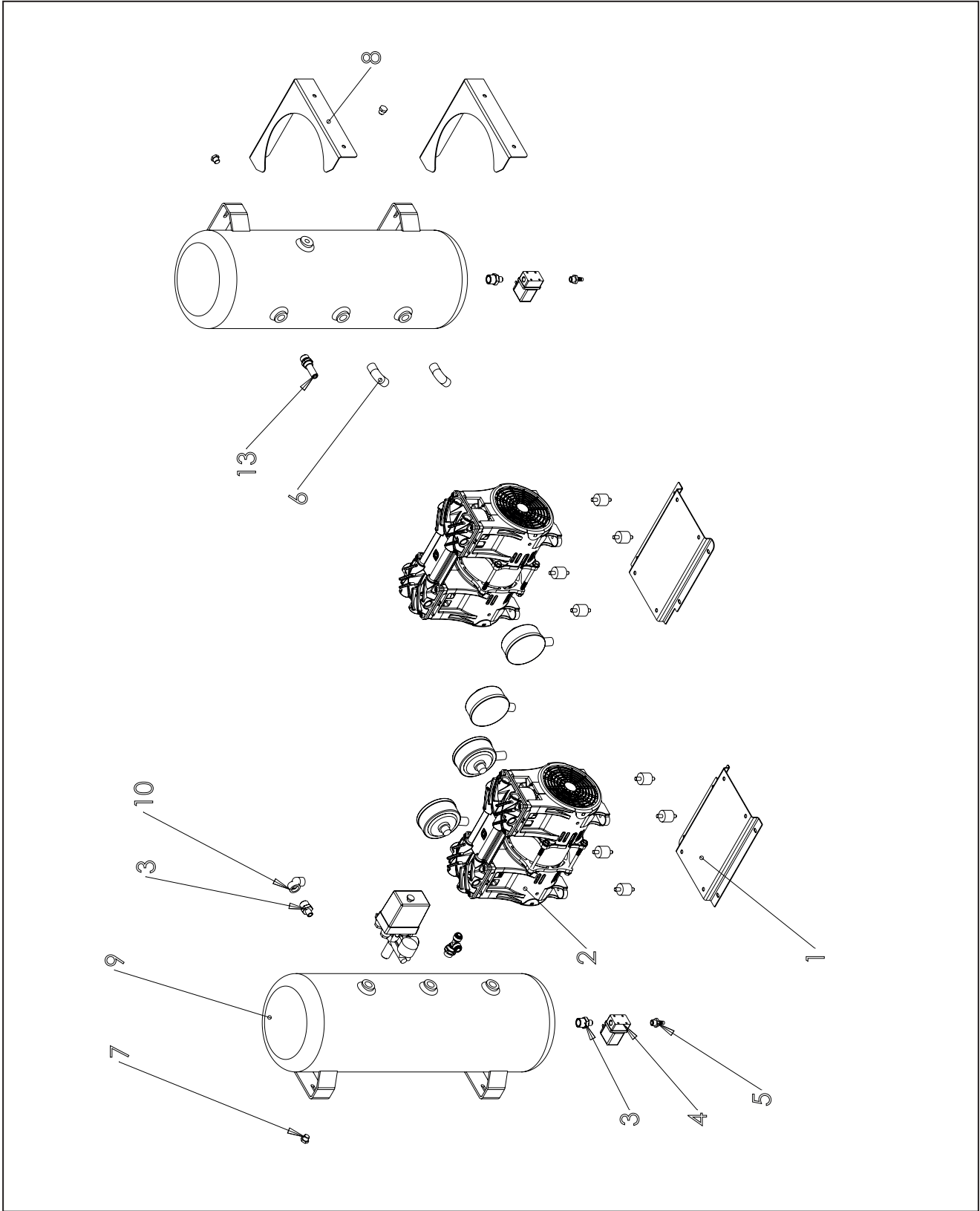


Fig. 10 - 5 Pressure unit, exploded view

Pos-No.	Article No.	Drawing number	Designation 1	Designation 2	Qty
1	603225	BT-006-016-001	Kantteil, Motorkonsole, 1.4301, GK	edgepart, engine mount, 1.4301, CA	2
2	560881	STB-099-642-001	Kolbenverdichter ZW1100C-103/8	Piston compressor ZW1100C-103/8	2
3	37594	STB-099-516-001	Fitting-Reduziernippel Messing SKT SW24	Fitting-Reducing nipple brass hex SW24	3
4	536701	STB-099-643-001	Magnetventil DN2 1/4" 0-10bar Viton MS	Magnetic-valve DN2 1/4" 0-10bar Viton brass	2
5	209301	STB-099-559-001	Fitting-Schlauchtülle Messing-VN SKT	Fitting-Hose nipple brass-NP hex"	2
6	207701	STB-099-541-001	Fitting-Winkel 90° Messing	Fitting-Elbow 90° brass	2
7	53258	STB-099-700-001	Fitting-Stopfen Messing SKT SW17	Fitting-Plug brass hex SW17	3
8	603612	BT-006-099-001	Kantteil, Presslufttankauflager, 1.4301, BO	edgepart, pneumatic tank mount, 1.4301, BO	2
9	560882	STB-099-600-001	Druckbehälter Aluminium 35 ltr.	Pressure vessel 35 ltr	2
10	579808	STB-099-341-001	Winkel 1/2" IG/AG	angle 1/2" F/M	1
11	531520	STB-099-627-001	POM Steckverbinder L-Einschraubverschraubung	POM plug-in connector L-screw fitting	1
12	560891	STB-099-612-001	Druckschalter Druckregler Kombiinstrument 1/2"	Pressureswitch pressure regulator combined 1/2"	1
13	560892	STB-099-646-001	Sicherheitsventil Druckluft	Safety valve compressed air	1

Tab. 10 - 4 Parts list pressure unit

10.6 Pneumatic Distributor

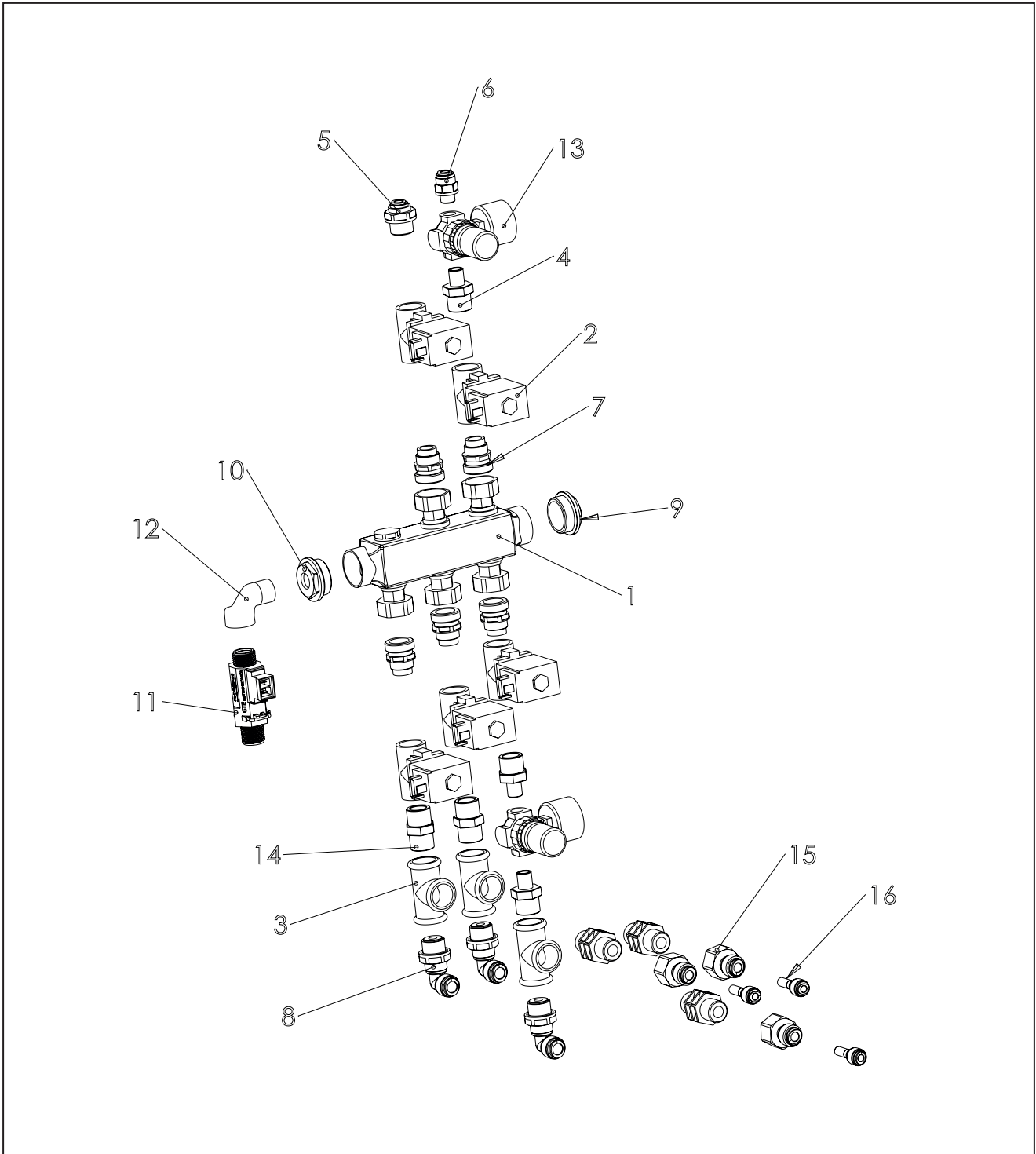


Fig. 10 - 6 Pneumatic Distributor, exploded view

Pos-No.	Article No.	Drawing number	Designation 1	Designation 2	Qty
1	5062	-1	Sonderverteiler - Waschprogramme	Special distributor for washprogram	1
2	536602	STB-099-498-001	Magnetventil DN10 1/2" 0-10bar EPDM MS	Magnetic-valve DN10 1/2" 0-10 bar EPDM brass	5
3	2076	STB-099-540-001	Fitting-T-Stück Messing	Fitting-T-connection brass	3
4	37594	STB-099-516-001	Fitting-Reduziernippel Messing SKT SW24	Fitting-Reducing nipple brass hex SW24	3
5	531510	STB-099-622-001	POM-Steckverbinder Gerade Einschraubverschraubung	POM plug connector straight screw fitting	1
6	531350	STB-099-620-001	POM-Steckverbinder Gerade Einschraubverschraubung	POM plug connector straight screw fitting	1
7	579818	STB-099-631-001	Anschlussnippel für Strawa Verteiler	Connection nipple Strawa	5
8	53142	STB-099-626-001	POM Steckverbinder Winkel-Einschraubverschraubung	POM plug connector elbow screw fitting	3
9	593901300 00000	STB-099-635-001	Verschlußstopfen Messing 1" AG	Plug brass 1" male with seal 30x3	1
10	593910	STB-099-636-001	Verschlußstopfen Messing 1" AG 3/8" IG	Plug brass with seal 30x3	1
11	x	STB-099-638-001	Strömungswächter FLC745A20	FlowSwitch FLC745A20	1
12	579808	STB-099-341-001	Winkel 1/2" IG/AG	angle 1/2" F/M	1
13	560895	STB-099-644-001	Druckregler inkl. Manometer 0,5-10 bar G1/4	Pressure regulator with pressure gauge	2
14	505707	STB-099-388-001	Fitting-Doppelnippel Messing SKT SW24	Fitting-Double nipple brass hex SW24	2
15	531511	STB-099-615-001	POM-Steckverbinder Gerade Aufschraubverschraubung	POM plug connector straight screw connector	3
16	531513	STB-099-617-001	POM Steckverbinder Gerader Reduzierstecker	POM connector Straight reducing connector	3

Tab. 10 - 5 Parts list Pneumatic Distributor

10.7 Cabinet door unit

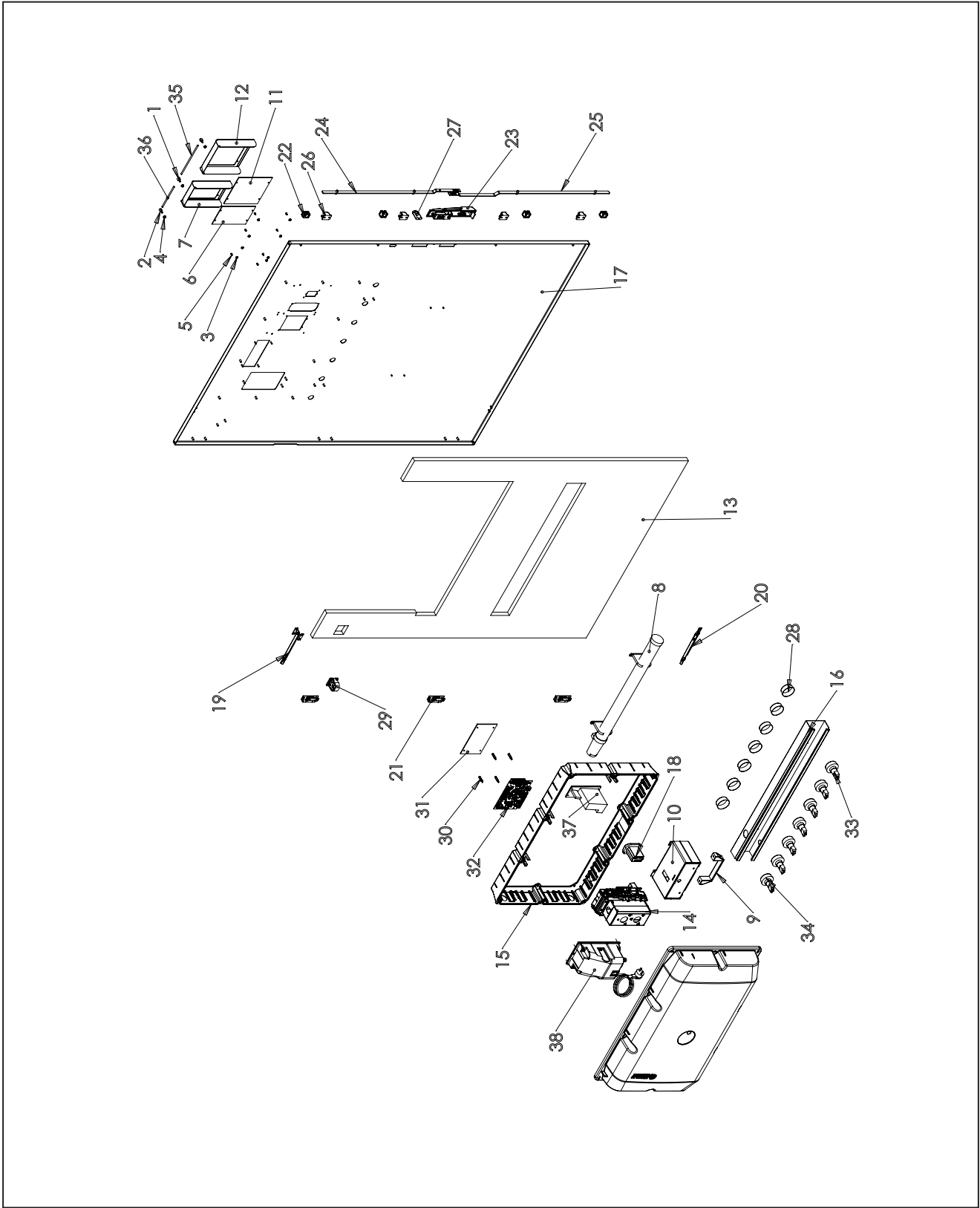


Fig. 10 - 7 Cabinet door unit, exploded view

Pos-No.	Article No.	Drawing number	Designation 1	Designation 2	Qty
1	534200	STB-099-565-001	Münzprüferabdeckung Drehgelenk	coin acceptor swivel	1
2	534201	STB-099-123-001	Münzprüferabdeckung Drehgelenk	coin acceptor swivel	2
3	386305	-xxx	Sechskantmutter mit Flansch und Sperrverzahnung	Hexagon flange nut serrated	8
4	386306	-xxx	Sechskantmutter mit Flansch und Sperrverzahnung	Hexagon flange nut serrated"	3
5	5831	STB-099-216-001	Münzprüferschraube schlitzlos	Screw for coin acceptor without slit	8
6	573570	SWS-007-055-001	Zuschnitt Plexiglas 3x178x-108mm	Plexiglass 3x178x108mm	1
7	534242	SWS-007-053-001	Kantteil, Spritzschutzklappe uni, 1.4301, GK	Edge part, splash guard flap plain, 1.4301, GK	1
8	283707	STB-099-413-001	Heizung Anti-Frost AC230V/50Hz 80W	Heating Anti-Freeze AC230V/50Hz 80W	1
9	2290	STB-099-005-001	Micropulverdosierer Griff 150mm	"Micropowderdosing handle 150mm	1
10	595902	Sa-000-008-002	Einheit, Gehäuse und Einschub, INOX	Unit, Housing and insert, INOX	1
11	573569	SWS-007-054-001	Zuschnitt Plexiglas 3x178x160mm	Plexiglass 3x178x160mm	1
12	534241	SWS-007-052-001	Kantteil, Spritzschutzklappe uni, 1.4301, GK	Edge part, splash guard flap plain, 1.4301, GK	1
13	579024	BT-006-905-001	Dämmmattenzuschnitt Noise-flex Proof PU20mm	Pipe Insulation	1
14	531626	-1	Scheinleser NV9 CC-Talk 104-USB	Note reader NV9 cc-talk 104-USB	1
15	603332	STB-099-572-001	Bohrteil, Schaltkasten Unterteil offen, PVC, GB	drillpart, switchbox open bottom, PVC, DR	1
16	603321	BT-006-033-001	Bohrteil, Kabelkanal 6 in 1 MT, PVC, GB	drillpart, cable channel 6 in 1, PVC, DR	1
17	603258	BT-006-001-001	Kantteil, Tür 6 in 1, 1.4301, schäumen	edgepart, door, 1.4301, Foam	1
18	601188	-1	Schlüsselleser Eurokey Next	Key-Reader Next Worldkey	1
19	400602	STB-099-629-001	Klappenaufsteller links V2A	Flap stand left stainless steel	1
20	400601	STB-099-628-001	Klappenaufsteller rechts V2A	Flap stand right stainless steel	1
21	399603	STB-099-237-001	Anschraubscharnier	Hinge	3

Tab. 10 - 6 Parts list cabinet door unit

Pos-No.	Article No.	Drawing number	Designation 1	Designation 2	Qty
22	4004	STB-099-239-001	Stangenführung	Metal-Bar Lock	4
23	39971	STB-099-238-001	Schwenkgriff mit Druckknopf 2400-u4	Handle with push button	1
24	583503	STB-099-611-001	Flachstange oben	Barrier above	1
25	583504	STB-099-610-001	Flachstange unten	Barrier down	1
26	583402	STB-099-240-001	Verschlusshalter 1121-18-02	Catch owner	4
27	395403	STB-099-142-001	Vorhängeschlossbügel 1.4301 Edelstahl	pad lock st.st. like drawing RAH-03-010	1
28	51612	-1	Leuchttaster Abdeckung glasklar	Push button cover	7
29	59360500 000000	STB-099-293-001	Kabelschlauchhalter Ø29mm	cabl hose bracket Ø29 mm	1
30	253902	STB-099-114-001	Abstandhalter M4x25,0mm SW7	plate M4x25,0mm SW7 brass for control	4
31	57360	STB-099-118-002	Zuschnitt Plexiglas 180 x 105 mm rot	plexiglass slitting 180x 105 mm red for	1
32	350960	STB-099-520-001	Steuerungs- u. Anzeigenplatine CWE6 4-stellig	Control- and display board CWE6 4-digit	1
33	516104	STB-099-112-001	Leuchttaster weiß inkl. LED double12VDC	push-button white incl. LED double 12VDC	6
34	516115	STB-099-112-001	Leuchttaster rot ohne LED	push-button red without LED"	1
35	534302	SWS-007-058-001	Münzprüferabdeckung Zylinderstift VA	Coin selector cover cylinder pin VA	1
36	534301	SWS-007-059-001	Münzprüferabdeckung Zylinderstift VA	Coin selector cover cylinder pin VA	1
37	400100	STB-099-161-001	Elektronischer Münzprüfer EMP800.13 V6 CC-TALK"	Electronic coin-acceptor EMP800.13 V6 CC-TALK	1
38	525311	-001	Reifenfüllgerät PKW AutoAir Anzeigenträger"	Tire inflator, electronic display	1

Tab. 10 - 6 Parts list cabinet door unit

10.8 Care tools and repair kit piston compressor

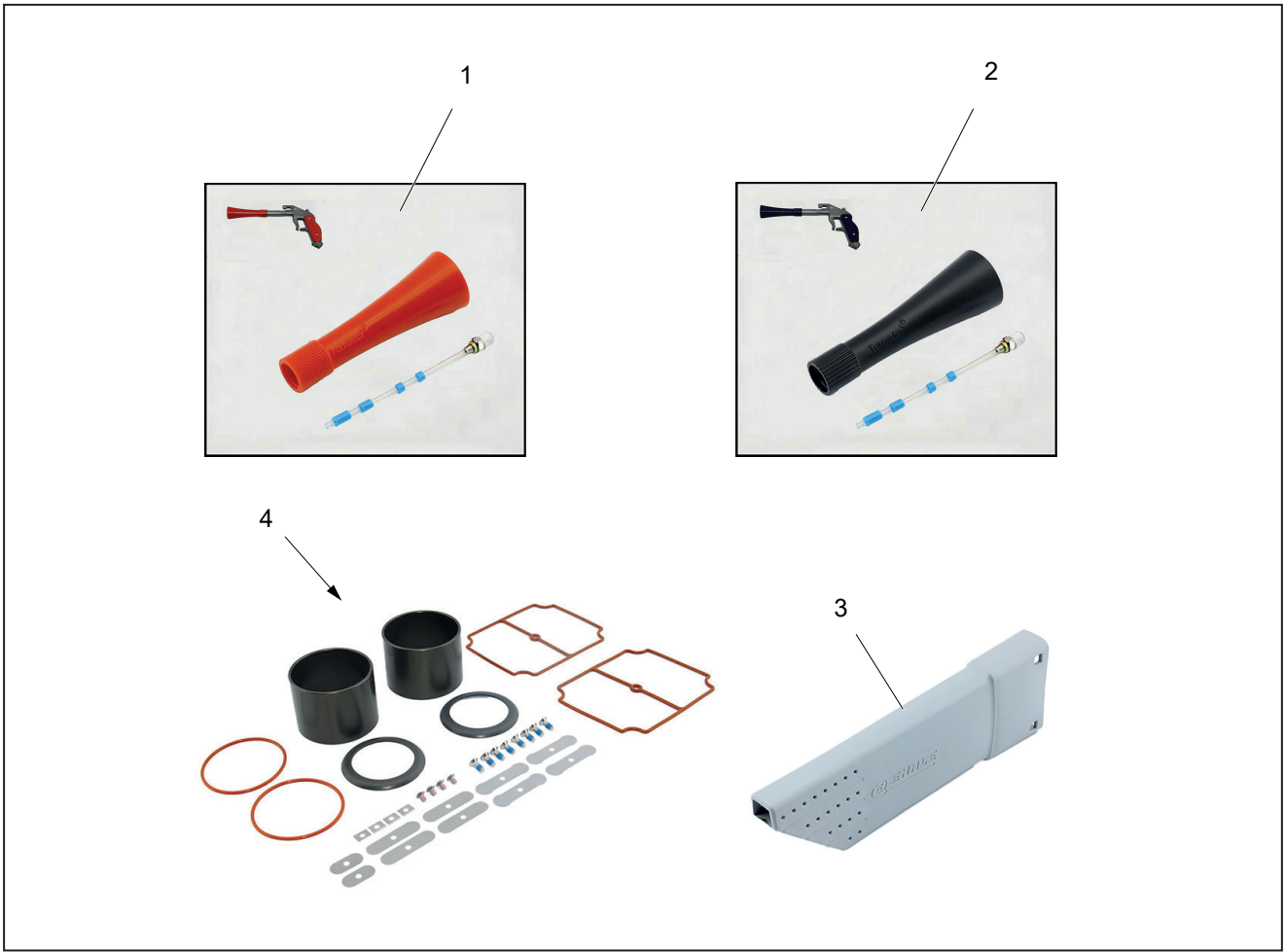


Fig. 10 - 8 Care tools and repair kit piston compressor, total views

Pos-No.	Article No.	Drawing number	Designation 1	Designation 2	Qty
1	595514	-1	Rep. Satz Sprühdüsen Aufsatz rot inkl. Schlauch	Rep. Kit spray nozzle attachment red incl. hose	1
2	595515	-1	Rep. Satz Sprühdüsen Aufsatz schwarz inkl. Schlauch	Rep. Kit spray nozzle attachment black incl. hose	1
3	236101	-1	Fugendüse mit Bypass Öffnungen PE HD grau UN7007	Crevice nozzle with Bypass openings PE HD grey UN7007	1
4	561896	-1	Rep.Satz Kolbenverdichter ZW1100C-103/8	Rep.Kit Piston compressor ZW1100C-103/8	1

Tab. 10 - 7 Care tools and repair kit piston compressor



11 Notes



Proof of customer service

Device type	Manufacturer no.:	Commissioning on:
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Inspection carried out on:
Findings:

Signature

Inspection carried out on:
Findings:

Signature

Inspection carried out on:
Findings:

Signature

Inspection carried out on:
Findings:

Signature

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