



Translation of the Original Operating Manual

ID Booth

Powder Coating Booth

Version 04 / 2013



P_00450

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1 GENERAL INFORMATION

1.1 PREFACE

The operating manual contains information about safely operating, maintaining, cleaning and repairing the device.

The operating manual is part of the device and must be available to operating and service staff.

The operating and service staff should be instructed according to the safety instructions.


The device may only be operated in compliance with this operating manual.

This equipment can be dangerous if it is not operated according to the instructions in this operating manual.


1.2 WARNINGS, NOTICES AND SYMBOLS IN THIS OPERATING MANUAL

Warning instructions in this operating manual highlight particular dangers to users and to the device and state measures for avoiding the hazard. These warning instructions fall into the following categories:


Danger - immediate risk of danger.
Non-observance will result in death or serious injury.

	! DANGER
	<p>This notice warns you of a hazard! Possible consequences of not observing the warning instructions. The signal word indicates the hazard level.</p> <p>→ The following are measures which can be taken to prevent the hazard and its consequences.</p>

Warning - possible imminent danger.
Non-observance may result in death or serious injury.

	! WARNING
	<p>This notice warns you of a hazard! Possible consequences of not observing the warning instructions. The signal word indicates the hazard level.</p> <p>→ The following are measures which can be taken to prevent the hazard and its consequences.</p>

Caution - a possibly hazardous situation.
Non-observance may result in minor injury.

	! CAUTION
	<p>This notice warns you of a hazard! Possible consequences of not observing the warning instructions. The signal word indicates the hazard level.</p> <p>→ The following are measures which can be taken to prevent the hazard and its consequences.</p>

Notice - a possibly hazardous situation.
Non-observance may result in material damage.

NOTICE
<p>This notice warns you of a hazard! Possible consequences of not observing the warning instructions. The signal word indicates the hazard level.</p> <p>→ The following are measures which can be taken to prevent the hazard and its consequences.</p>

Note - provides information about particular characteristics and how to proceed.

1.3 LANGUAGES

The operating manual is available in the following languages:

German	3114186	English	3114187
French	3114188	Italian	3114189
Spanish	3311287	Russian	2338719
Swedish	3127993		

1.4 ABBREVIATIONS

Stk	Number of pieces
Pos	Position
K	Marking in the spare parts lists
Order No.	Order number
ET	Spare part

2 CORRECT USE

2.1 DEVICE TYPE

Booth for powder coating work pieces

2.2 CORRECT USE

The ID booth is suitable for powder coating work pieces in manual and automatic operation.

2.3 TECHNICAL EXPLOSION DESIGN

When using the powder coating system as intended, explosive atmospheres can arise. These systems are equipped, with regard to this potentially explosive atmosphere, with corresponding devices, components and protection systems, if applicable according to the ATEX Directive 94/9/EC. These systems are not designed for operation in an extrinsically potentially explosive atmosphere!

According to the European Directive 1999/92/EC, the preparation of the explosion protection document is an operator obligation.

The values of the project-specific versions can be found in the respective project operating manuals.

The shown calculation of the explosion protection technical limit values was made according to DIN EN 12981 - spray booths for organic powder lacquers.



Note:

The required minimum exhaust air volumetric flow, based on the amount of powder used and its ignitability, is to be adhered to by the operator. This must not exceed the nominal exhaust air volumetric flow.

2.4 SAFETY PARAMETERS

The ID booth is only suitable for the powder coating of work pieces.

J. Wagner AG forbids any other use!

Operation of the ID booth is permissible only under the following conditions if:

- the operating staff have previously been trained on the basis of this operating manual,
- the safety regulations listed in this operating manual are observed,
- the operating, maintenance and repair notices in this operating manual are observed,
- and the statutory requirements and accident prevention regulations standards in the country of use are observed.

The ID booth may only be operated if all parameters are set and all measurements/safety checks are carried out correctly.

2.5 REASONABLY FORESEEABLE MISUSE

- coating work pieces which are not grounded,
- use of defective components and accessories and
- working with liquid coating products.

2.6 RESIDUAL RISKS

Residual risks are risks which cannot be excluded even in the event of correct use.

If necessary, warning and prohibition signs at the relevant points of risk indicate residual risks.

Residual risk	Source	Consequences	Specific measures	Lifecycle phase
Skin contact with powder lacquers and cleaning agents	Handling powder lacquers and cleaning agents	Skin irritation, allergies	Wear protective clothing Observe safety data sheets	Operation, maintenance, disassembly
Powder lacquer in air outside the defined working area	Lacquering outside the defined working area	Inhalation of substances hazardous to health	Observe working and operating instructions	Operation, maintenance

Residual risk	Source	Consequences	Specific measures	Lifecycle phase
Falling down of work pieces	Poor hanging of work pieces	Injuries	Use of suitable work piece receivers	Operation, maintenance
	Loosening of screw fittings	Injuries	Regularly check the screw fittings	Operation, maintenance
Powder lacquer on the ground	Carelessness while filling the system with powder lacquer	Falls	Comply with cleaning schedule	Operation, maintenance
	Leakages	Falls	Comply with maintenance plan	Operation, maintenance

3 GENERAL SAFETY INSTRUCTIONS

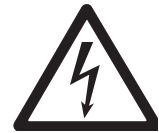
3.1 SAFETY INSTRUCTIONS FOR THE OPERATOR

- Keep this operating manual at hand near the device at all times.
- Always follow local regulations concerning occupational safety and accident prevention.



3.1.1 ELECTRICAL DEVICES AND OPERATING EQUIPMENT

- To be provided in accordance with the local safety requirements with regard to the operating mode and ambient influences.
- May only be maintained by skilled electricians.
- Must be operated in accordance with the safety regulations and electrotechnical regulations.
- Must be repaired immediately in the event of problems.
- Must be decommissioned if they pose a hazard.
- Must be de-energized before work is commenced on active parts.
- Secure the device against being switched back on without authorization. Inform staff about planned work.
- Observe electrical safety regulations.



3.1.2 PERSONNEL QUALIFICATIONS

- Ensure that the device is operated and repaired only by trained persons.

3.1.3 SAFE WORK ENVIRONMENT

- The floor in the working area must be electrostatically conductive (measurements according to EN 1081 and EN 61340-4-1).
- The footwear worn by the operators must comply with the requirements of EN ISO 20344. The measured insulation resistance must not exceed 100 Megohms.
- The protective clothing, including gloves, must comply with the requirements of EN ISO 1149-5. The measured insulation resistance must not exceed 100 Megohms.
- The powder release must be electrically interlocked with the powder spray system's exhaust air equipment.
- Excess coating product (overspray) must be collected up safely.
- Ensure that there are no ignition sources such as naked flames, sparks, glowing wires or hot surfaces in the vicinity. Do not smoke.
- Provide sufficient numbers of suitable fire extinguishers and ensure that they are serviceable.
- The operating company must ensure that the average concentration of powder lacquer in the air does not exceed 50% of the lower explosion limit (LEL = max. permitted concentration of powder to air). If no reliable LEL value is available, the average concentration must not exceed 10 g/m³.



3.2 SAFETY INSTRUCTIONS FOR STAFF

- Always follow the information in this manual, particularly the general safety instructions and the warning instructions.
- Always follow local regulations concerning occupational safety and accident prevention.
- Under no circumstances may people with pacemakers enter the area where the high-voltage field between the spray gun and the work piece to be coated builds up!



3.2.1 SAFE HANDLING OF WAGNER POWDER SPRAY DEVICES

- Do not point spray guns at people.
- Before all work on the device, in the event of work interruptions and functional faults:
 - Switch off the energy/compressed air supply.
 - Secure the spray gun against actuation.
 - Relieve pressure on spray gun and device.
 - In case of functional faults: Identify and correct the problem, proceed as described in the "Fault Rectification" chapter.



3.2.2 GROUNDING THE DEVICE

- The electrostatic charge may, in certain cases, give rise to electrostatic charges on the device. In the event of discharge, this may result in the formation of sparks or flames.
- Ensure that the device is grounded before each coating process.
 - Ground the work pieces to be coated.
 - Ensure that all persons inside the working area are grounded, e.g. by wearing electrostatically conductive shoes.
 - The function of grounding cables must be checked regularly (see EN 60204).



3.2.3 PRODUCT HOSES

- Only use original Wagner powder hose.



3.2.4 CLEANING

- Before starting cleaning or any other manual work, the high-voltage in the spray area must be shut down and locked to prevent it from being switched back on.
- Lock the compressed air supply and decompress the device.
- Secure the device against being switched back on without authorization.
- Use only electrically conducting and grounded tanks for cleaning fluids.
- Preference should be given to non-flammable cleaning fluids.
- If flammable cleaning fluids are used, all parts carrying high-voltage must be discharged to a discharge energy of less than 0.24 mJ, once the high-voltage has been switched off, before they can be reached.

Most flammable solvents have an ignition energy of around 0.24 mJ or 60 nC.



- The cleaning agent's flash point must be at least 15 K above the ambient temperature.
- Only mobile industrial vacuum cleaners of design 1 (see EN 60335-2) may be used to remove dust deposits.

3.2.5 HANDLING POWDER LACQUERS

- When preparing or processing the powder and cleaning the device, take note of the processing regulations, laid down by the manufacturer of the powder lacquers, being used.
- Take note of the manufacturer's instructions and the relevant environmental protection regulations when disposing of powder lacquers.
- Take the prescribed safety measures, in particular the wearing of safety glasses and safety clothing as well as the use of protective hand cream.
- Use a mask or breathing apparatus if necessary.
- To ensure sufficient protection of health and the environment, only operate the device in a powder booth or at a spray wall with activated ventilation (exhaust air).



3.3 PROTECTIVE AND MONITORING EQUIPMENT

	 WARNING
	<p>Protective and monitoring equipment! Risk of injury and damage to the device.</p> <ul style="list-style-type: none"> → Protective and monitoring equipment must not be removed, modified or rendered unusable. → Regularly check for perfect functioning. → If defects are detected on protective and monitoring equipment, the system must not be operated until these defects are remedied.

Naming	Location/ Installation site	Protective function	Manufacturer	Type
Emergency stop button	Coater workstation	Electrical system shut-down	to be supplied by the customer	to be supplied by the customer

3.4 SAFETY FEATURES

Plates bearing information for the user have been attached to the work openings of the powder coating booth.

The plate size corresponds to the standard category Ø 100 mm; 3.94 inches.

The label plates, which must be attached, are shown below:



High-voltage!
In the control cabinet:
(25 mm; 0.98 inch)
Voltage before main
switch



Danger of crushing!



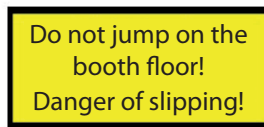
Explosive atmosphere!



Risk of tripping!



Forbidden for persons
with a cardiac
pacemaker!



Smoking, fire, and
naked flames are
prohibited!



Forbidden for
unauthorized persons!



Wear electrostatically
conductive footwear!



Follow the
instructions in the
operating manual!

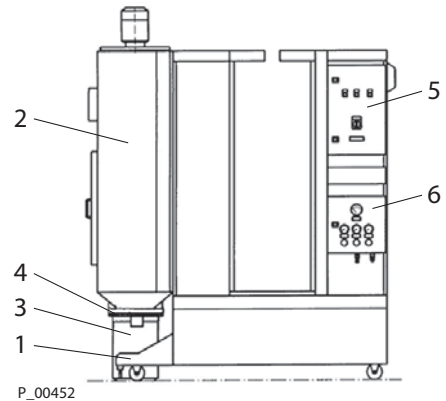
4 DESCRIPTION

4.1 TYPES

4.1.1 ID TRANSFER BOOTH



P_00451



P_00452

Features:

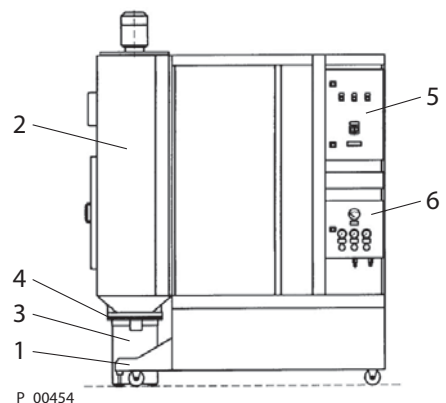
- Suitable for use as single booth for manual and automatic operation or as an alternative booth for special colors
- Ceiling slots and flood gates
- Integrated illumination

- 1 Booth frame
- 2 Suction unit
- 3 Powder trolley
- 4 Vibration sieve
- 5 Electric switching cabinet
- 6 Pneumatic switching cabinet

4.1.2 ID SUSPENSION BOOTH



P_00453



P_00454

Features:

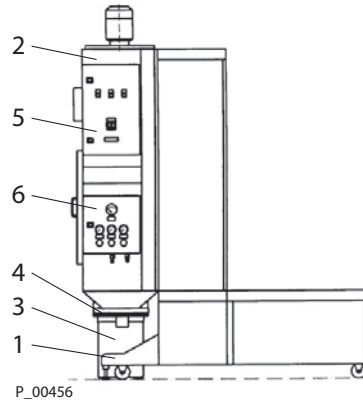
- Spraying area:
(W X H) 1,440 mm x 1,530 mm; 4.72 ft x 5.02 ft
- Ceiling slots and flood gates
- Integrated illumination

- 1 Booth frame
- 2 Suction unit
- 3 Powder trolley
- 4 Vibration sieve
- 5 Electric switching cabinet
- 6 Pneumatic switching cabinet

4.1.3 ID SPRAY STAND



P_00455



P_00456

Features:

- Suitable for coating bulky work pieces
- Slanted air baffles for directing the air current
- Small footprint
- Suitable for integration in a work piece conveyor system
- Option: spray stand with recessed floor

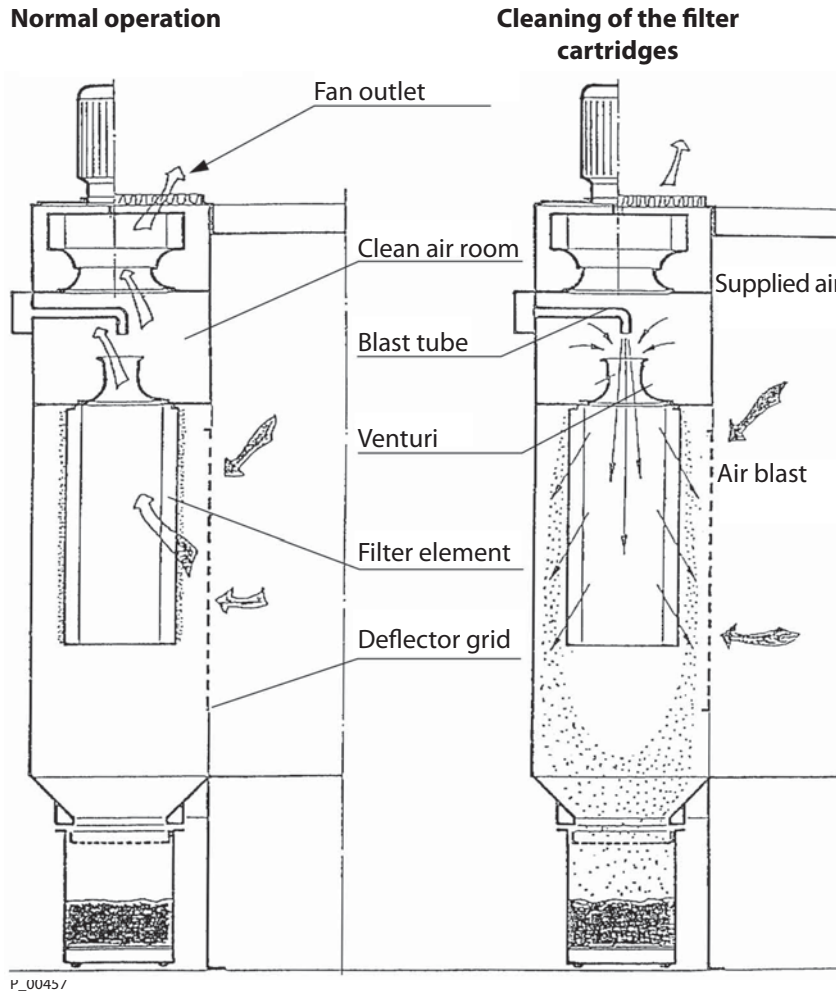
- 1 Booth frame
- 2 Suction unit
- 3 Powder trolley
- 4 Vibration sieve
- 5 Electric switching cabinet
- 6 Pneumatic switching cabinet

With the integrated recovery system, the ID powder coating booth fulfills the requirements of the regulations on electrostatic powder coating and recovery systems. The air that is suctioned off is filtered and can be reintegrated into the ambient air.

Order numbers:

Model		Order No.
ID transfer booth:	Length 3,500 mm; 11.48 ft	3063837
ID transfer booth:	Length 2,500 mm; 8.20 ft	3056730
ID transfer booth:	Length 2,500 mm; 8.20 ft (for mixed powder operation)	3056770
ID suspension booth:	Basic version	3057190
ID suspension booth:	with sliding rails	3082406
ID suspension booth:	for mixed powder operation	3056720
ID spray stand:	basic version	3057870
ID spray stand:	for mixed powder operation	3057905

4.2 FUNCTIONAL DESCRIPTION



The ID powder coating booth is suitable for continuous operation. The air in the booth is suctioned off with the over-spray and guided through the deflector grate to the filters. The filter elements (cartridges) are cleaned automatically; alternately each filter element is put out of operation and cleaned while the other elements remain in operation. The settings of the cleaning cycle depend on the type and quantity of the powder to be separated. The booth only requires a low-output ventilator and the powder deposit is minimal which makes it easy to clean.

Easy to change filter elements, an integrated powder tank with screening unit below the exhaust system and the powder feed injector directly supplying the spray gun, make the booth an excellent choice for multi-color coating operations.

The powder caught on the outside of the filter elements, gathers on the screening unit below, is cleaned of foreign particles and falls back into the powder tank. The powder in the powder tank is fluidized by the fluidized bed and fed through the powder injector to the powder spray gun.



4.3 TECHNICAL DATA

The technical data is the same for all 3 versions of the ID booth.

Dimensions:	
Filter surface area	30 m ² ; 322.9 sft
Number of filter cartridges	3
Booth suction capacity	4,000 m ³ /h; 5,231 cyds
Weight	ca. 550 kg; 1,212.52 lbs

Electrical:	
Input voltage	230 - 380 V
Input frequency	50 Hz
Rated power, drive motor	2.2 kW

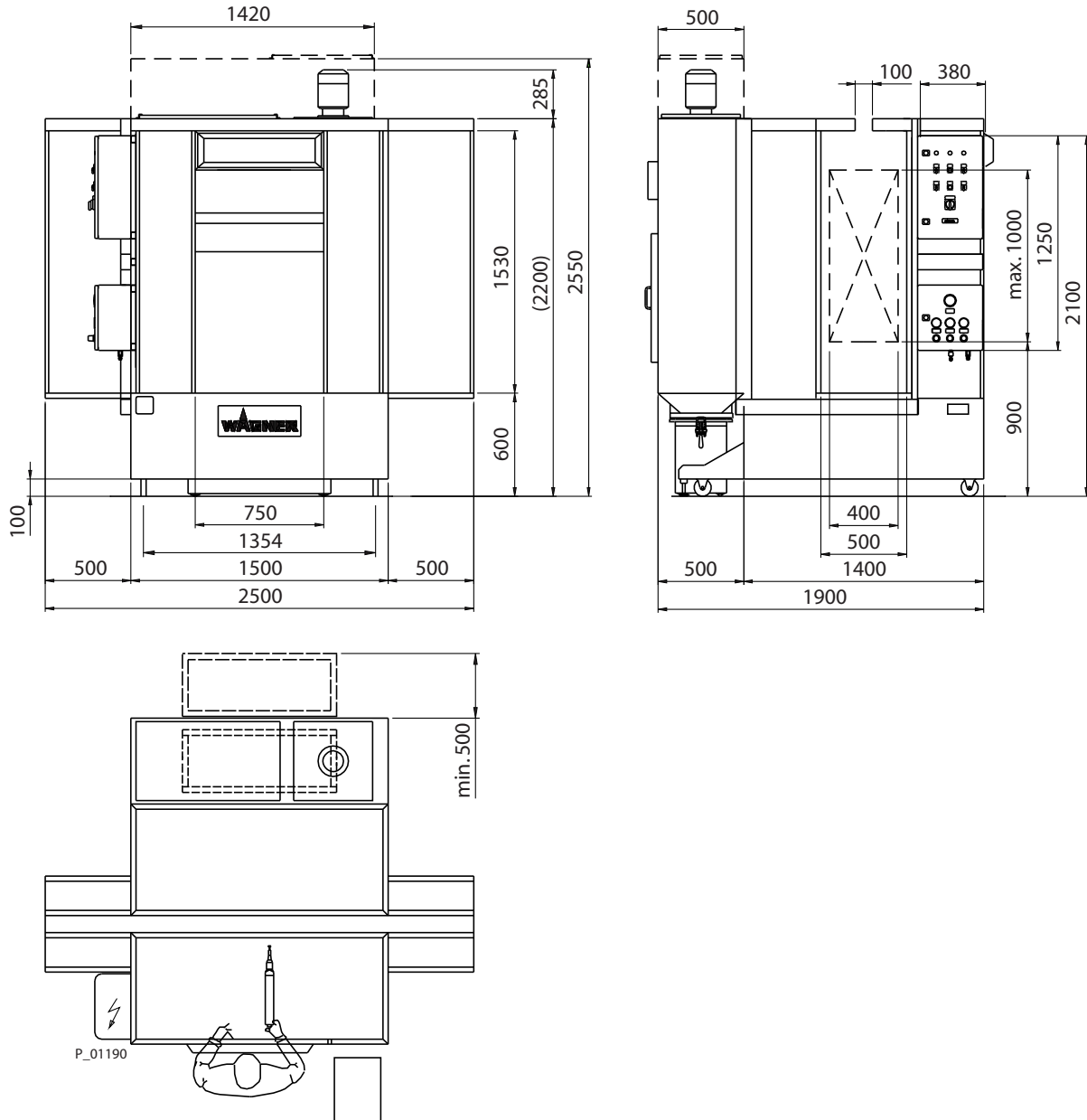
Pneumatically:	
Air input pressure	0.6-0.8 MPa; 6-8 bar; 97-116 psi
Air consumption	20 m ³ /h; 706 cft
Required compressed air quality	as per ISO 8573-1 Class 2 Quality Class 3.5.2

	 WARNING
	<p>Outgoing air containing oil! Risk of poisoning if inhaled.</p> <p>→ Provide compressed air free from oil and water (Quality Standard 3.5.2 according to ISO 8573.1) 3.5.2 = 5 µm / +7 °C; 44.6 °F / 0.1 mg/m³.</p>

4.4 DIMENSIONS

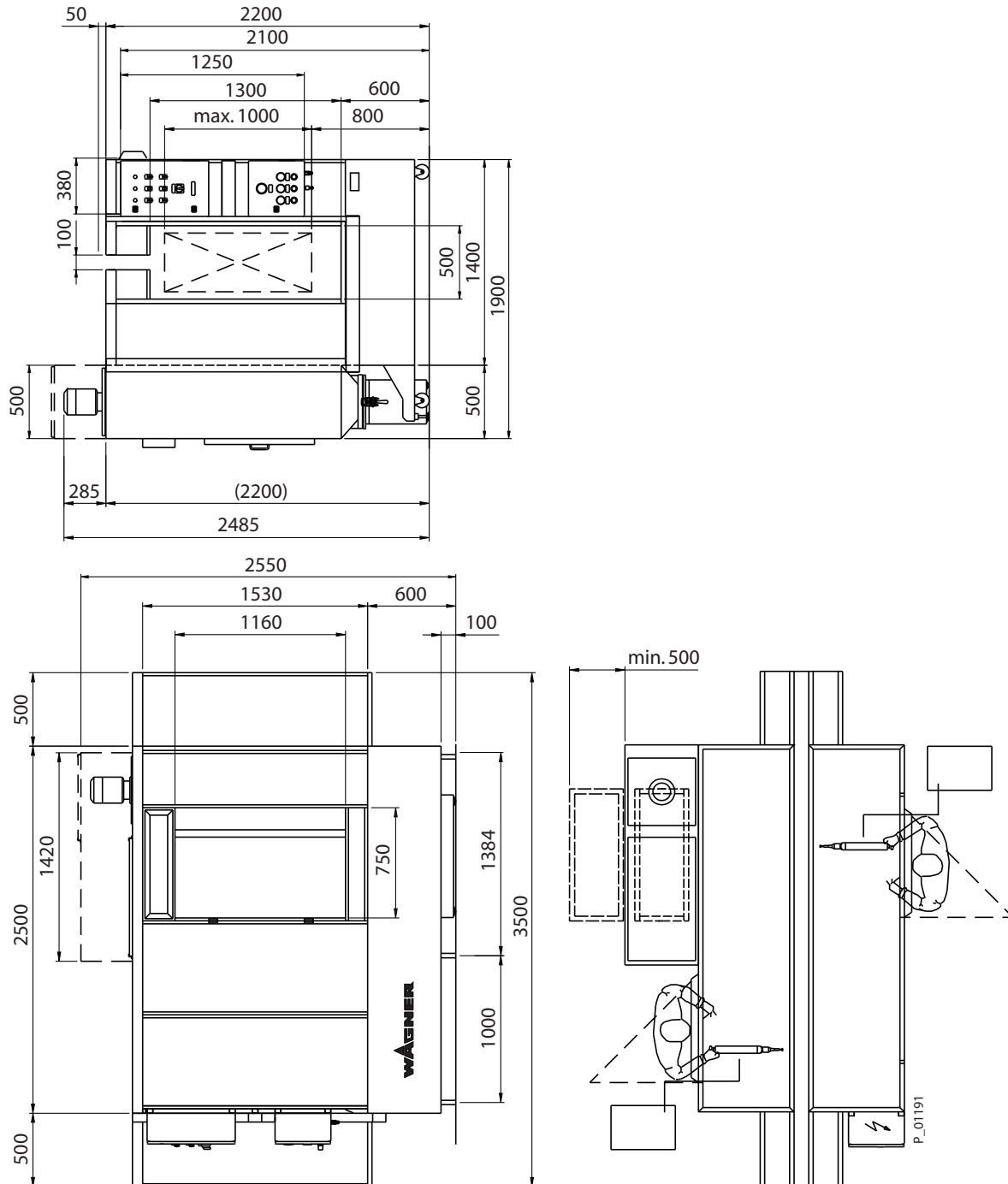
4.4.1 TRANSFER BOOTH 2,500 MM; 8.20 FT

Article No. 3056730, 3056770

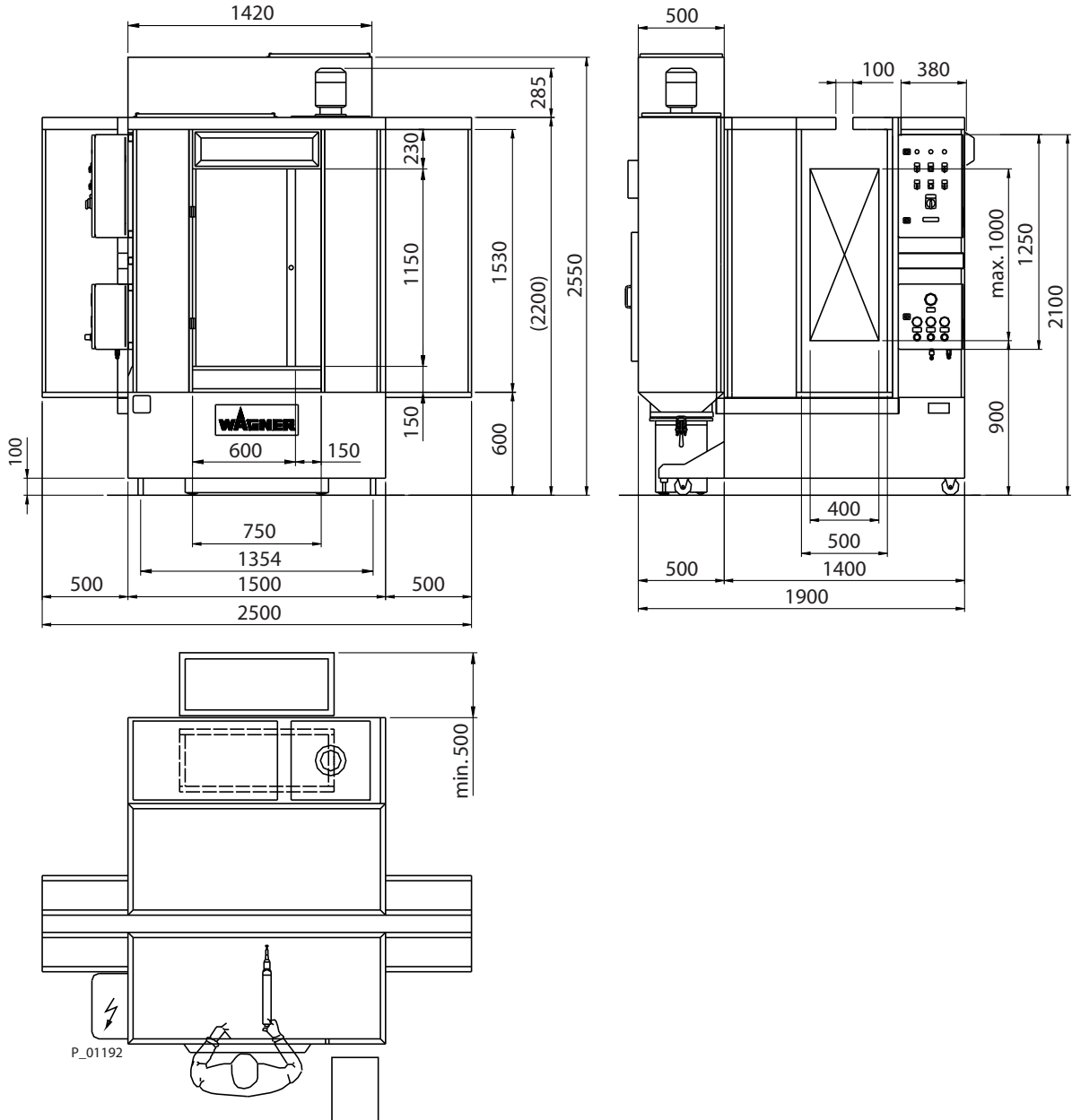


4.4.2 TRANSFER BOOTH 3,500 MM; 11.48 FT

Article No. 3063837

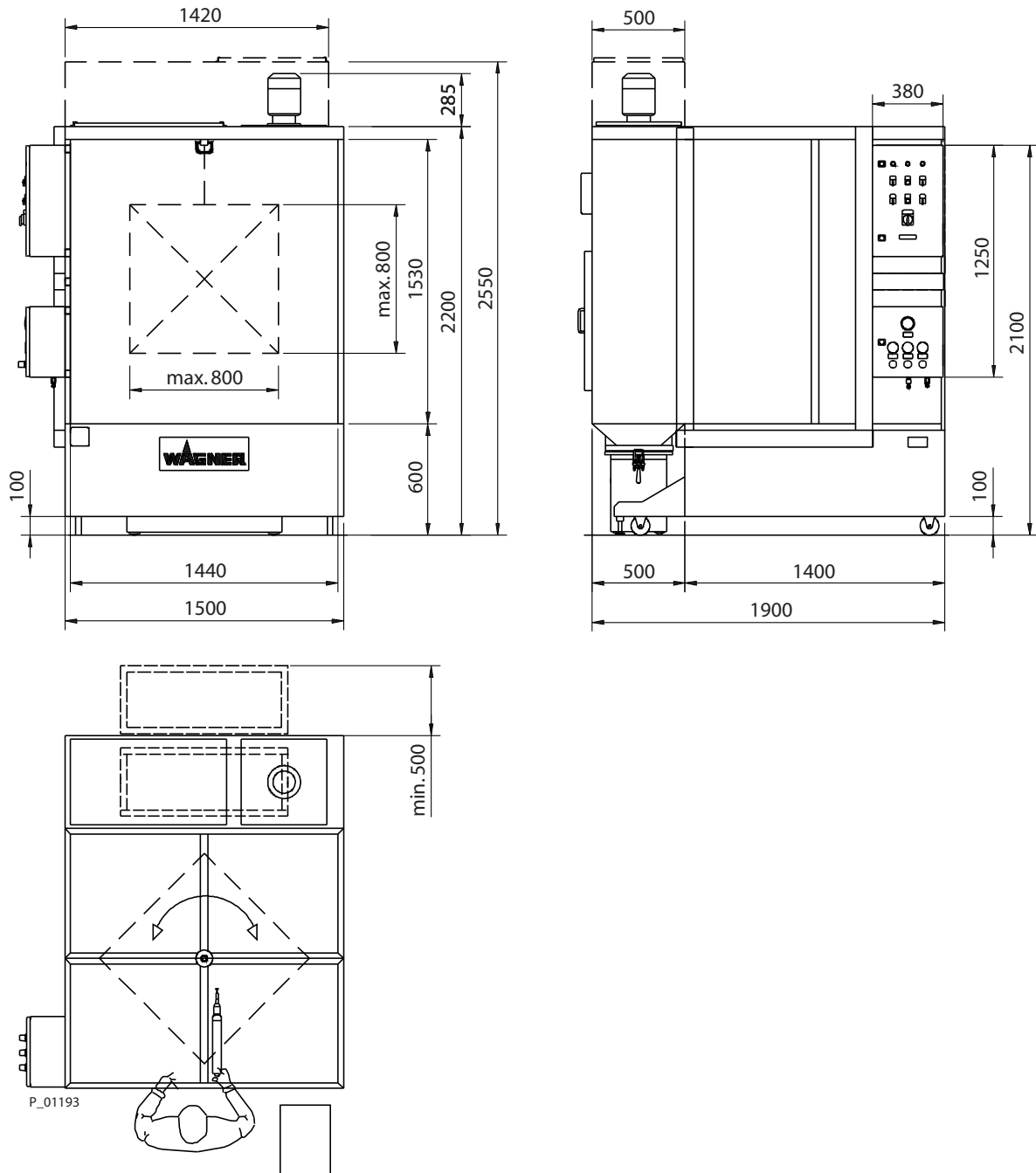


4.4.3 TRANSFER BOOTH WITH MANUAL COATING DOOR



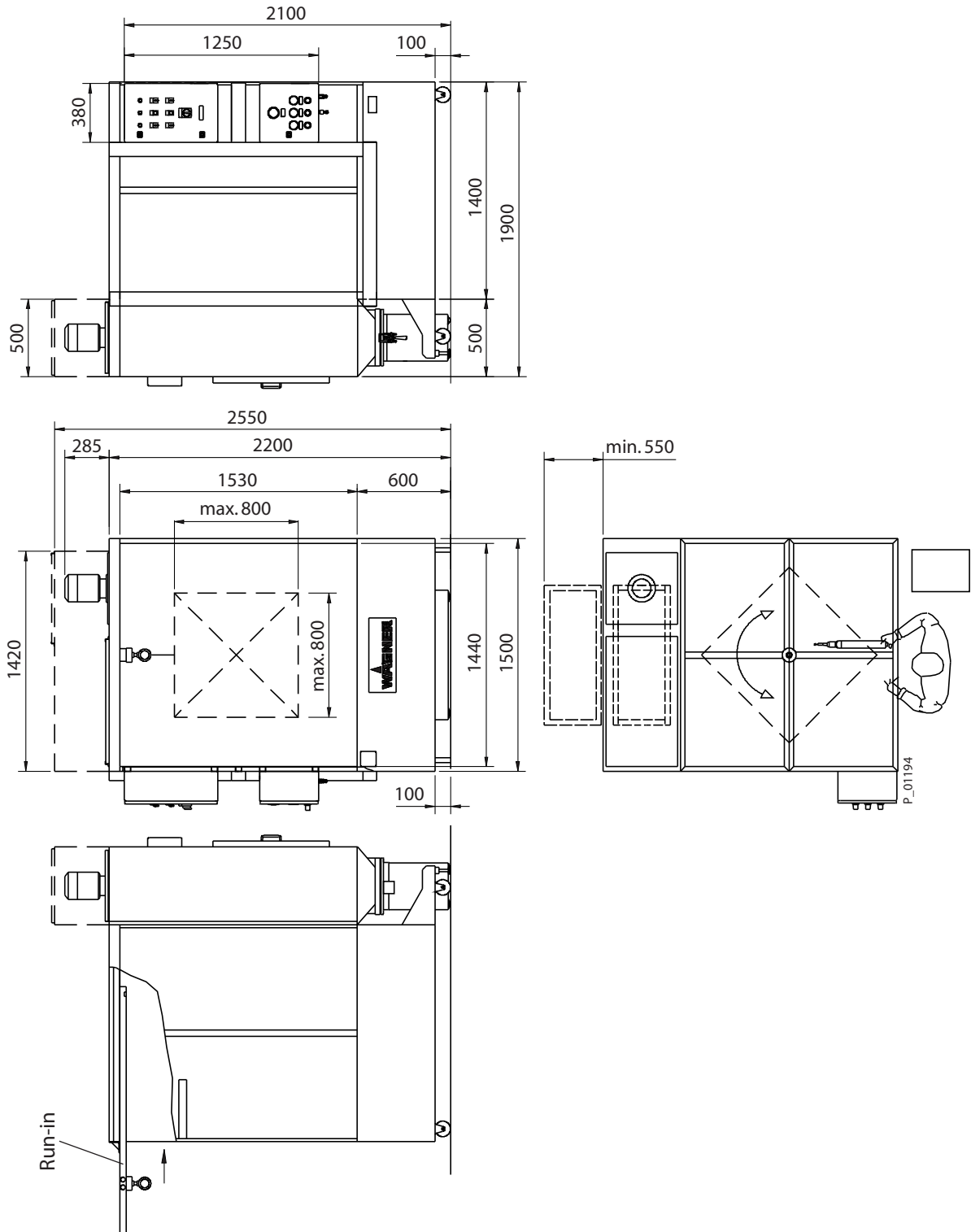
4.4.4 SUSPENSION BOOTH

Article No. 3056720, 3057190



4.4.5 SUSPENSION BOOTH WITH RUN-IN

Article No. 3082406, 3131277





4.5 SCOPE OF DELIVERY

Stk	Order No.	Designation
1		ID booth
The standard equipment includes:		
1	3304086	Conformity certificate
1	3114186	Operating manual, German
1	see Chapter 1.3	Operating manual in local language

5 ASSEMBLY

5.1 TRAINING THE ASSEMBLY STAFF

	 WARNING
	<p>Incorrect installation/operation! Risk of injury and damage to the device.</p> <ul style="list-style-type: none"> → The assembly staff must have all of the technical skills to safely undertake start up. → When putting into operation and for all work, read and follow the operating manual and safety regulations for the additionally required system components.

5.2 STORAGE CONDITIONS

Until the assembly, the ID booth must be stored in a dry location, free from vibrations and with a minimum of dust. The ID booth must be stored in closed rooms.

The air temperature at the storage location must be between 0 - 45 °C; 32 - 113 °F.



The relative air humidity must be between 10 - 95% (non condensing).

5.3 ASSEMBLY CONDITIONS

The air temperature at the assembly site must be between 5 - 45 °C; 41 - 113 °F.

Depending on the powder lacquer used, the maximum permissible ambient temperature for reliable operation can be significantly below +40 °C; 104 °F.

5.4 BOOTH ASSEMBLY

	 WARNING
	<p>Parts have high weights and centers of gravity! Risk of injury and damage to the device.</p> <ul style="list-style-type: none">→ Only use appropriate lifting tackle (crane, fork lift) for assembly.→ Secure the parts against tipping during transport.→ Cordon off assembly area to keep out unauthorized persons.



The ID powder coating booth is delivered disassembled to the site of installation. Final assembly is performed on-site.

Transportation and warehouse operations may only be performed by qualified personnel, especially in the use of industrial trucks, ladders and cranes.

The selected means of transport must be suitable and permissible for the respective component weights.

For the insertion of parts at the installation site, an opening width of at least 2,500 mm; 8.20 ft must exist. Before and after the opening, there must be enough space for maneuvering long parts up to 3,500 mm, 11.48 ft long.

5.5 GROUNDING

	 WARNING
	<p>Defective grounding will result in high levels of powder mist! Danger of poisoning. Insufficient paint application quality.</p> <p>→ Ground all device components. → Ground the work pieces to be coated.</p>

The powder coating system must be perfectly grounded for safety reasons. Wagner recommends the use of copper cable of at least 16 mm² with sufficient mechanical stability for the connection to the operating ground. It is important for systems safety and to achieve an optimum coating, that all system components such as work pieces, conveyors, paint supply system, control unit and booth or spray stand are perfectly grounded.

To achieve optimum powder coating, a flawless grounding of the work piece is also imperative.

A poorly grounded work piece causes:

- dangerous electric charging of the work piece,
- very bad wrap around,
- uneven coating and
- back-spray to the spray gun, i.e. contamination.

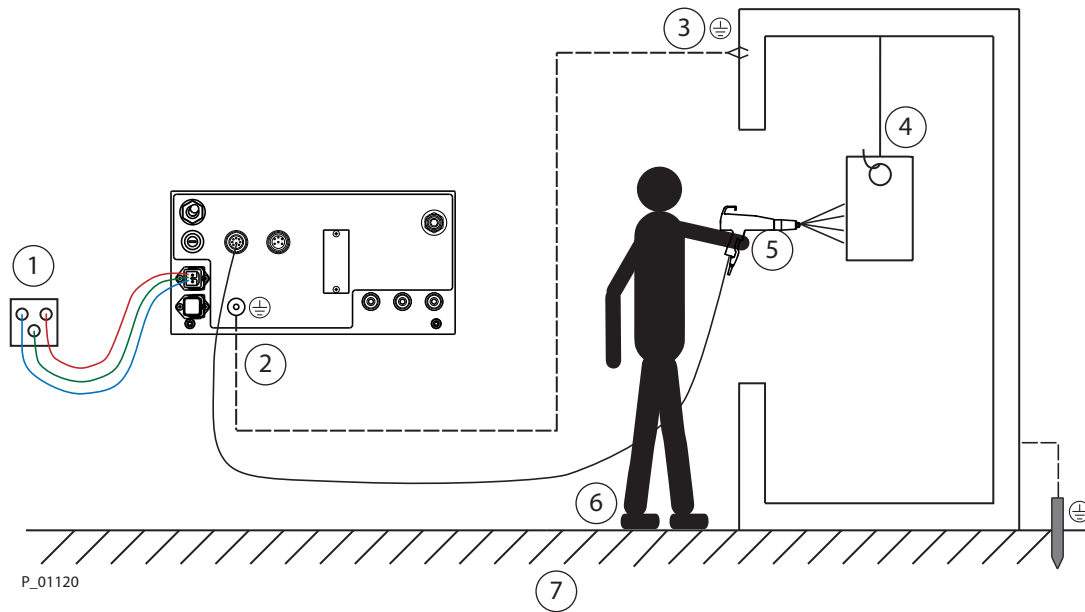
Prerequisites for perfect grounding and coating are:

- clean suspension of the work piece to be coated,
- grounding of spraying booth, conveyor system and suspension on site in accordance with the operating manual or the manufacturer's information and
- grounding of all conductive parts within the working area.
- The grounding resistance of the work piece may not exceed 1 Megohm. (Resistance to ground measured at 500 V or 1,000 V).
- The footwear worn by the operators must comply with the requirements of EN ISO 20344. The measured insulation resistance must not exceed 100 MΩ (megohms).
- The protective clothing, including gloves, must comply with the requirements of EN ISO 1149-5. The measured insulation resistance must not exceed 100 MΩ (megohms).

Sparks between conveyor, conveyor hooks (hangers) and work piece can occur if electric contact points between conveyor, conveyor hooks (hangers) and work piece are not sufficiently cleaned and therefore the work pieces are not sufficiently grounded!

These sparks can cause severe radio frequency interference (electro-magnetic compatibility = EMC).

5.5.1 GROUNDING THE POWDER COATING SYSTEM



P_01120

- 1 Only use mains cables with grounding strand!
- 2 Connect grounding cable with booth and system ground!
- 3 Connect grounding cable to an uncoated metal part of the booth!
- 4 Remove all paint from hooks and other hanger parts!
- 5 Do not wear non-conducting gloves!
- 6 Wear electrostatically conductive footwear!
- 7 The floor must be electrostatically conductive!

5.6 CHECKING INPUT AND OUTPUT SIGNALS

In the electro switching cabinet, input signals and external output signals are to be provided for on-site.

"On-site" input signals:

Signal	Function	Clamp strip	Clamp	Contact / Signal type
EMERGENCY STOP	Control voltage OFF	=C1-X3	5/6/7 (PE)	Potential-free NCC
Fire extinguishing system alarm	Control voltage OFF	=C1-X9	1/2	Potential-free NCC
Fire extinguishing system OK	Control voltage ON	=C1-X9	3/4/5 (PE)	Potential-free NOC
Earthing check alarm or not OK	Manual systems OFF	=C1-X9	6/7/8 (PE)	Potential-free NCC or NOC
Conveyor operating	Manual systems OFF	=C1-X9	9/10/11 (PE)	Potential-free NOC

NOTICE

Equipment damage!

→ Should these on-site input signals not be required, they must be bridged in the electro switching cabinet!

"External" output signal:

Signal	Function	Clamp strip	Clamp	Contact / Signal type
Fan ON	Purge detector ON	=C1-X3	12/13/14 (PE)	Potential-free NOC



DANGER



Explosive powder/air mixes!

Danger to life and damage to the device.

→ If the customer has installed a shock-proof socket at the site, then for safety reasons it must be located outside the explosion-hazard area!

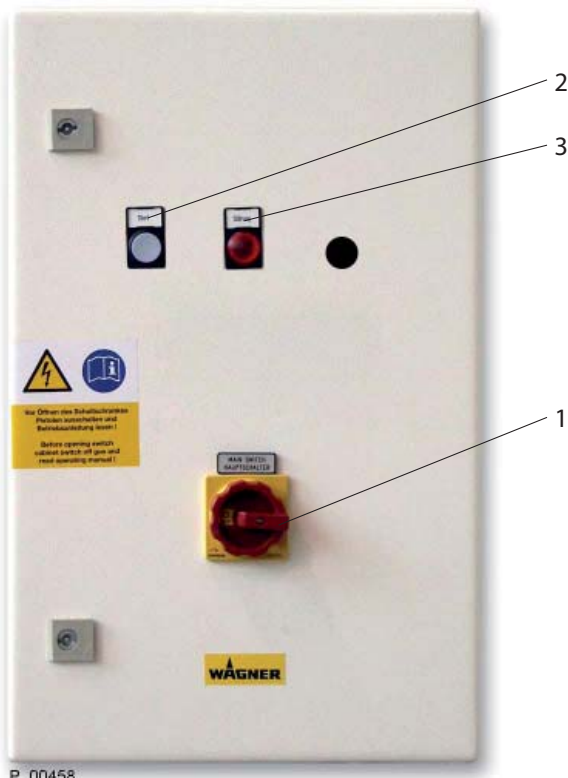
6 COMMISSIONING

6.1 TRAINING COMMISSIONING STAFF

	 WARNING
	<p>Incorrect installation/operation! Risk of injury and damage to the device.</p> <p>→ The commissioning staff must have the technical skills to safely undertake commissioning.</p> <p>→ When putting into operation and for all work, read and follow the operating manual and safety regulations for the additionally required system components.</p>

6.2 OPERATING AND DISPLAY ELEMENTS

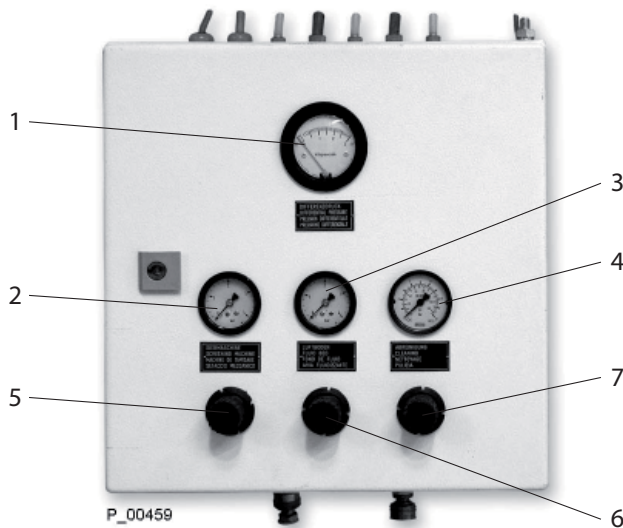
Electric switching cabinet:



- 1 Main switch:
Switches the system on and off
- 2 Ventilator ON/OFF
- 3 Lights up red when the pressure difference of the filter cleaning operation has become excessive or a malfunction at the ventilator motor occurs.

(see Chapter 11)

Pneumatic switching cabinet:





- 1 Pressure differential gauge of the filter cleaning operation in kPa between the pressure in front of the filter and behind the filter *
- 2 Pressure indication in bar for the vibrator motor of the vibrating sieve
- 3 Pressure indication in bar for the fluid air of the fluidized bed
- 4 Pressure indication in bar for the compressed air tank of the filter cleaning operation
- 5 Setting the compressed air for the vibrator motor of the vibrating sieve
- 6 Setting the compressed air for the fluid air of the fluidized bed
- 7 Setting the compressed air for the compressed air tank of the filter cleaning operation



* When the set value of 1.2 ... 1.3 kPa (kilo Pascal) is exceeded, the display lights up red (pos. 3 on the electric switching cabinet).

7 OPERATION

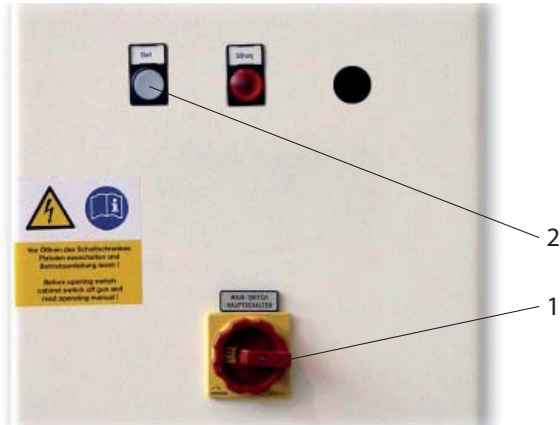
7.1 TRAINING THE OPERATING STAFF

	 WARNING
	<p>Incorrect operation! Risk of injury and damage to the device.</p> <ul style="list-style-type: none"> → The operating staff must be qualified to operate the entire system. → Before work commences, the operating staff must receive appropriate system training.

7.2 SAFETY INSTRUCTIONS

	 WARNING
	<p>Incorrect operation! Risk of injury and damage to the device.</p> <ul style="list-style-type: none"> → If contact with powder products or cleaning agents causes skin irritation, appropriate precautionary measures must be taken, e.g. wearing protective clothing. → The footwear worn by operating staff must comply with EN ISO 20344. The measured insulation resistance must not exceed 100 megohms. → The protective clothing, including gloves, must comply with EN ISO 1149-5. The measured insulation resistance must not exceed 100 megohms.

7.3 SWITCHING ON THE SYSTEM



P_00460

Procedure:

1. Switch on the compressed air.
2. Switch on the main switch 1.
3. Switch on the ventilator 2.

The spray gun is released for coating in the booth, if all the necessary signals provided by the customer are present.

NOTICE

Insufficient air volume!

→ If the cleaning operation is not activated, the nominal exhaust output is not reached.



7.4 SWITCHING OFF THE SYSTEM

During every interruption of operation, all powder feeding parts of the entire coating system should be cleaned of residual powder.

Procedure:

1. Switch off the powder feed and the high-voltage for the spray gun and secure them against being switched on unintentionally.
2. Clean the inside of the booth.
3. Remove dirt from the screening unit.
4. Switching off the main switch.

7.5 PERFORMING A PAINT CHANGE

	 WARNING
	<p>Dust formation! Danger of poisoning. Danger due to escaping dust, contamination of device and device components.</p> <p>→ During every paint change, the suction system of the booth and the filter cleaning system must remain activated!</p>

In the case of a paint change, powder residues must be thoroughly removed from all the powder feeding parts throughout the complete coating system. When cleaning the system, the recovered powder is fed back into the powder trolley. Check first whether the powder trolley has enough space for the recovered powder, if not empty the tank.

Procedure:

1. Keep the suction system of the booth with the filter cleaning system activated.
2. Switch off the powder feed and the high-voltage for the spray gun and secure them against being switched on unintentionally.
3. Clean the parts of the powder feed system and the interior of the booth.
4. Scrape the paint powder from the booth walls with a rubber scraper and push it into the screening unit of the powder trolley.
5. Remove the three filter elements from the exhaust system.
6. Loosen the quick-action clamp on the powder trolley, remove the compressed air hose and pull out the powder trolley.
7. Move the new powder trolley in, connect pressure hoses and close the quick-acting clamp at the powder trolley.
8. Coating can be continued with the new paint powder.

8 CLEANING AND MAINTENANCE

8.1 CLEANING



8.1.1 CLEANING STAFF



Cleaning work should be regularly and carefully undertaken by qualified and trained staff. They should be informed of specific hazards during their training.

The following hazards may arise during cleaning work:

- Health hazard from inhaling powder lacquer
- Use of unsuitable cleaning tools and aids

8.1.2 SAFETY INSTRUCTIONS

	<p> DANGER</p> <p>Explosive powder/air mixes! Danger to life and damage to the device.</p> <ul style="list-style-type: none">→ Before starting cleaning or other manual work, the high-voltage must be shut down and locked to prevent it from being switched back on!→ The spray gun must be separated from the high-voltage supply before any cleaning work is started!→ Use only electrically conductive tanks for cleaning liquids! Ground the tanks!→ Preference should be given to non-flammable cleaning fluids.→ If flammable cleaning fluids are used, all parts carrying high-voltage must be discharged to a discharge energy of less than 0.24 mJ, once the high-voltage has been switched off, before they can be reached. Most flammable solvents have an ignition energy of around 0.24 mJ or 60 nC.→ The cleaning agent's flash point must be at least 15 K above the ambient temperature.→ Only mobile industrial vacuum cleaners of design 1 (see EN 60335-2) may be used to remove dust deposits.
---	---

	 WARNING
	<p>Incorrect maintenance! Risk of injury and damage to the device.</p> <ul style="list-style-type: none"> → If contact with powder products or cleaning agents causes skin irritation, appropriate precautionary measures must be taken, e.g. wearing protective clothing. → The footwear worn by operating staff must comply with EN ISO 20344. The measured insulation resistance must not exceed 100 megohms. → The protective clothing, including gloves, must comply with EN ISO 1149-5. The measured insulation resistance must not exceed 100 megohms.

8.1.3 CLEANING PROCEDURES

The cleaning intervals should be adapted by the operator depending on the level of use and if necessary the level of soiling.

In doubt, we recommend contacting J. Wagner AG's specialist personnel.

The valid health and safety specifications and the safety instructions provided in Chapter 3 must be adhered to for all cleaning work.

Designation	Controls	Note
Compressed air quality	at intervals	The compressed air connection at the electrical cabinet must be free of water, oil and dirt (see Chapter 4.3).
Screening unit	Check for dirt daily.	Remove and clean the sieve.

8.2 SETTING THE CLEANING INTERVALS

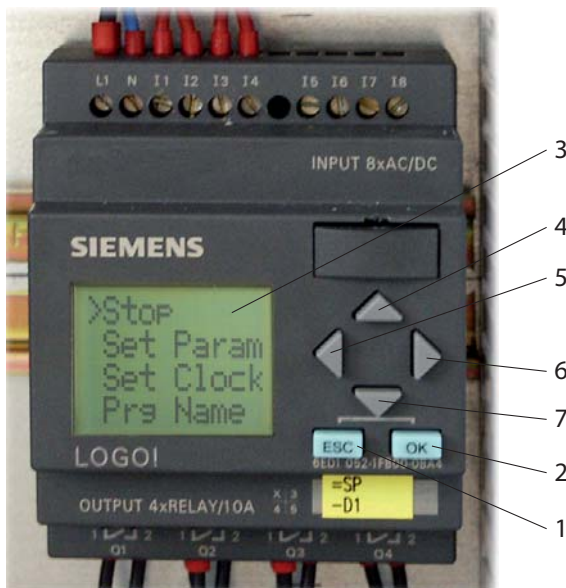
There is a LOGO controller in the ID booth's electrical cabinet, for controlling the cleaning intervals.

The basic functions are described on the following pages.

The detailed description of this control unit is in a separate Settings Manual (Order No. 3305994).

Normally, no settings have to be made on the LOGO-control unit and if required, must only be made by qualified technicians.

8.2.1 BASIC FUNCTIONS



- | | | |
|---|---------------------|---|
| 1 | ESC | to change to another menu or to discard the input |
| 2 | OK | to select the parameters or to close the input |
| 3 | Display | Menu display |
| 4 | Arrow button | Increases the value |
| 5 | Arrow button | Switches to another parameter |
| 6 | Arrow button | Switches to another parameter |
| 7 | Arrow button | Reduces the value |

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8.3 MAINTENANCE

8.3.1 MAINTENANCE STAFF



Maintenance work should be regularly and carefully undertaken by qualified and trained staff. They should be informed of specific hazards during their training.



The following hazards may arise during maintenance work:



- Health hazard from inhaling powder lacquer
- Use of unsuitable tools and aids

Once the maintenance work is complete, the device must be checked by a qualified person to ensure a reliable condition.

8.3.2 SAFETY INSTRUCTIONS

	 DANGER
	<p>Incorrect maintenance/repair! Danger to life and damage to the device.</p> <p>→ Repair or replacement of devices or parts of devices may only be performed outside the hazard area by specialist personnel.</p>

	 DANGER
	<p>Incorrect maintenance/repair! Risk of injury and damage to the device.</p> <p>→ Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.</p> <p>→ Before all work on the device and in the event of work interruptions:</p> <ul style="list-style-type: none"> - Switch off the energy/compressed air supply. - Decompress spray gun and device pressure. - Secure the spray gun against actuation. <p>→ Observe the operating and service instructions at all times when carrying out work.</p>

	 WARNING
	<p>Incorrect maintenance! Risk of injury and damage to the device.</p> <ul style="list-style-type: none"> → If contact with powder products or cleaning agents causes skin irritation, appropriate precautionary measures must be taken, e.g. wearing protective clothing. → The footwear worn by operating staff must comply with EN ISO 20344. The measured insulation resistance must not exceed 100 megohms. → The protective clothing, including gloves, must comply with EN ISO 1149-5. The measured insulation resistance must not exceed 100 megohms.

8.3.3 MAINTENANCE PROCEDURES

The maintenance intervals should be adapted by the operator depending on the level of use and if necessary the level of soiling.

In doubt, we recommend contacting J. Wagner AG's specialist personnel.

The valid health and safety specifications and safety instructions provided in Chapter 3 must be adhered to for all maintenance work.

Maintenance work	Point in time	
	Per shift	weekly
Blow out gun and check for sintering	x	
Check gun settings	x	
Check gun discharge pressure	x	
Blow out powder hoses	x	
Check grounding		x
Check compressed air quality		x
Check gun voltage		x
Check powder hoses for bends and sintering		x

9 INSPECTIONS IN ACCORDANCE WITH DIN EN 50177: 2010

If the system is used for electrostatic coating with flammable coating powders, testing should be undertaken in accordance with DIN EN 50177: 2010-04 as per Table 3 and Table 4.

OPERATING MANUAL



Section	Type of inspection	Requirements	Inspection by	Type of inspection	Inspection interval
1	Effectiveness of technical ventilation check	Effectiveness of technical ventilation check	TP/CP	ME Measurements of air flow speed / air quantities Check the differential pressure indicator.	continuously
2	Interlock between technical ventilation and high-voltage, compressed air and coating product supply	The technical ventilation should be interlocked such that the high-voltage cannot be switched on while the technical ventilation is not working effectively.	CP	FI Test whether the system is safely stopped and the product supply, supply air and high-voltage are switched off when the ventilation is shut down.	annually
3	Parts carrying high-voltage outside the spray area	Parts carrying high-voltage outside the spray area must be routed such that discharges which put people at risk do not occur.	CP	FI Inspect and test (e.g. by measurement) whether all parts carrying high-voltage do not result in discharge which puts people at risk.	weekly

Key:
 MA = Manufacturer
 EM = Employer
 CP = Capable person
 FSE = Fire safety engineer
 ELC = Electrician
 TP = Trained person

FI = Function inspection
 ME = Measurement
 SI = Standard inspection
 VI = Visual inspection
 CI = Continuous inspection
 TI = Technical inspection

OPERATING MANUAL



Section	Type of inspection	Requirements	Inspection by	Type of inspection	Inspection interval
4	Effectiveness of grounding measures	All the system's conductive elements, such as floors, walls, ceilings, protective grating, transport devices, work pieces, powder tanks, machines or construction parts etc. in the spray area, with the exception of parts which carry high-voltage during operation, must be connected to the grounding system. Parts of the booth must be grounded in accordance with EN 12215.	CP	VI/ME/CI Visual check of ground connections, perform function test on grounding switch, measurement of grounding resistors.	weekly
5	Measures to take if conductive components are insufficiently grounded	If sufficient grounding of conductive parts cannot be ensured, their discharge energy must not exceed the permissible value.	CP	ME/CI Measurement of discharge energy	weekly
6	Resistance to ground of work piece's locating point	The resistance to ground of every work piece's locating point must not exceed 1 megohm (measurement voltage must be 1,000 V). The design of the work piece receiver must ensure that the adapters remain grounded during coating.	CP	ME/CI Measure resistance to ground (work piece receiver - ground potential) max. 1 MOhm @ 1,000 V.	weekly

Key:
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 EM = Employer
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 SI = Standard inspection
 VI = Visual inspection
 CI = Continuous inspection
 TI = Technical inspection



Section	Type of inspection	Requirements	Inspection by	Type of inspection	Inspection interval
7	Measures to take if the work pieces are insufficiently grounded	If sufficient work piece grounding in accordance with section 6 cannot be ensured, appropriate equipment, e.g. ionizers, must be used to discharge electric charges on the work piece. Such equipment must not exceed the permitted discharge energy of the spray systems with which it is used. In terms of permitted discharge energy, this equipment must be put through the same inspections as the powder spray systems used with it. The discharge equipment must be interlocked with the spray system such that the high-voltage is switched off and that coating cannot take place if the discharge equipment malfunctions.	CP	ME/FU/SÜ Measurement of discharge energy, check the monitoring equipment's test function by triggering it.	weekly
8	Effectiveness of the manually or automatically actuated fire extinguishing systems (room protection system)	Effectiveness of the manually or automatically actuated fire extinguishing systems (room protection system).	HE/BSB	FI Trigger fire extinguishing system, observe manufacturer's requirements.	6 months

Key:
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 TP = Trained person

FI = Function inspection
 ME = Measurement
 SI = Standard inspection
 VI = Visual inspection
 CI = Continuous inspection
 TI = Technical inspection

10 DISASSEMBLY AND DISPOSAL

10.1 DISASSEMBLY

We recommend having the Wagner system disassembled by Wagner or another specialist.

Before starting disassembly, all supply media (electricity, compressed air) must be disconnected at the connection points. All powder lacquer lines must be thoroughly emptied and then rinsed. Lacquer residues must be disposed of in line with statutory requirements.

Before starting disassembly, check whether the supply lines have actually been interrupted and have been depressurized and/or de-energized if necessary.

The empty system should be thoroughly cleaned. In particular fire loads such as unused lacquers in exhaust air pipes etc. should be removed to keep the risk of fire during disassembly as low as possible.

We recommend reporting to the public authorities the fact that systems with mandatory approval requirements are decommissioned.

Separate all materials encountered during disassembly as clearly as possible in line with statutory requirements. Take appropriate actions to ensure that no dangerous substances enter the system during disassembly. All waste produced must be separated and disposed of in line with local requirements.

Used materials are:

- Steel
- PVC synthetic material
- Cable ...

11 TROUBLESHOOTING AND RECTIFICATION



DANGER

Incorrect maintenance/repair!

Risk of injury and damage to the device.

- Have repairs and part replacements be carried out only by specially trained staff or a WAGNER service center.
- Before all work on the device and in the event of work interruptions:
 - Switch off the energy/compressed air supply.
 - Decompress spray gun and device pressure.
 - Secure the spray gun against actuation.
- Observe the operating and service instructions at all times when carrying out work.



DANGER

Incorrect maintenance/repair!

Danger to life and damage to the device.

- Wagner devices, protective systems and safety, monitoring and control equipment may only be maintained/repared as defined in Directive 94/9/EC (ATEX) by trained Wagner service personnel or capable persons in accordance with TRBS 1203! Note national regulations!
- Repair or replacement of devices or parts of devices may only be performed outside the hazard area!

Malfunction	Cause	Remedy
Suction capacity is too weak (safety stop triggers)	<ul style="list-style-type: none"> • The fuses are defective. • The filter cleaning system is not activated. • The solenoid valves in the filtering system are defective. • The cleaning filters are clogged. 	<ul style="list-style-type: none"> • Replace the fuses. • Start and shorten the cleaning intervals if required (interval program in the control cabinet). • Replace the solenoid valves. • Clean or replace the filter cartridges.
Dust is exhausted from the blower.	<ul style="list-style-type: none"> • Filter cartridges are incorrectly installed. • The seal of the filter cartridge is defective. • Filter cartridges are damaged. 	<ul style="list-style-type: none"> • Mount the filter cartridges correctly. • Replace the foam rubber gasket. • Replace filter cartridges
Excessive noise and/or vibrations from the housing	<ul style="list-style-type: none"> • The ventilator bearings are defective. • Dust deposits on the ventilator blades 	<ul style="list-style-type: none"> • Replace the bearings • Clean the ventilator blades.
The sieve does not catch any dirt	<ul style="list-style-type: none"> • The frame of the sieve is defective 	<ul style="list-style-type: none"> • Replace the frame and screen mesh of the sieve.
The sieve does not let any powder through	<ul style="list-style-type: none"> • The screen mesh is clogged • The powder forms into lumps (e.g. due to oil, air humidity or initial polymerization caused by excessively high temperatures) • The rubber pad on the frame of the sieve is defective 	<ul style="list-style-type: none"> • Clean the mesh using a vacuum cleaner with a soft nozzle attachment • If required replace all the powder • Replace the round rubber spring
No powder feed	<ul style="list-style-type: none"> • Not enough powder is circulating • The fluid base of the powder carriage is dirty or damaged • The injector is clogged or worn. • The powder hose is dirty or bent. • The spray guns are clogged. • Insufficient feed or dosing air 	<ul style="list-style-type: none"> • Fill up the powder • Check, if the air supply is sufficient, clean and/or replace the fluid base if required • Clean the injector and if required replace worn parts. • Clean the powder hose and check the hose for bends. • Clean the spray guns. • Check the air supply system.
Dust build up around the powder tank	<ul style="list-style-type: none"> • Too much fluid air 	<ul style="list-style-type: none"> • Reduce the fluid air volume at the pneumatic switching cabinet.

12 SPARE PARTS

12.1 HOW CAN SPARE PARTS BE ORDERED?

To ensure proper spare parts delivery, the following information is necessary:

Order number, designation and quantity

The quantity does not have to be identical to the numbers in the "Stk" columns of the lists. This number merely indicates how many of the respective parts are used in each component.



The following information is also required to ensure smooth processing of your order:

- Billing address
- Delivery address
- Name of the person to be contacted in the event of any queries
- Type of delivery (normal mail, express delivery, air freight, courier etc.)

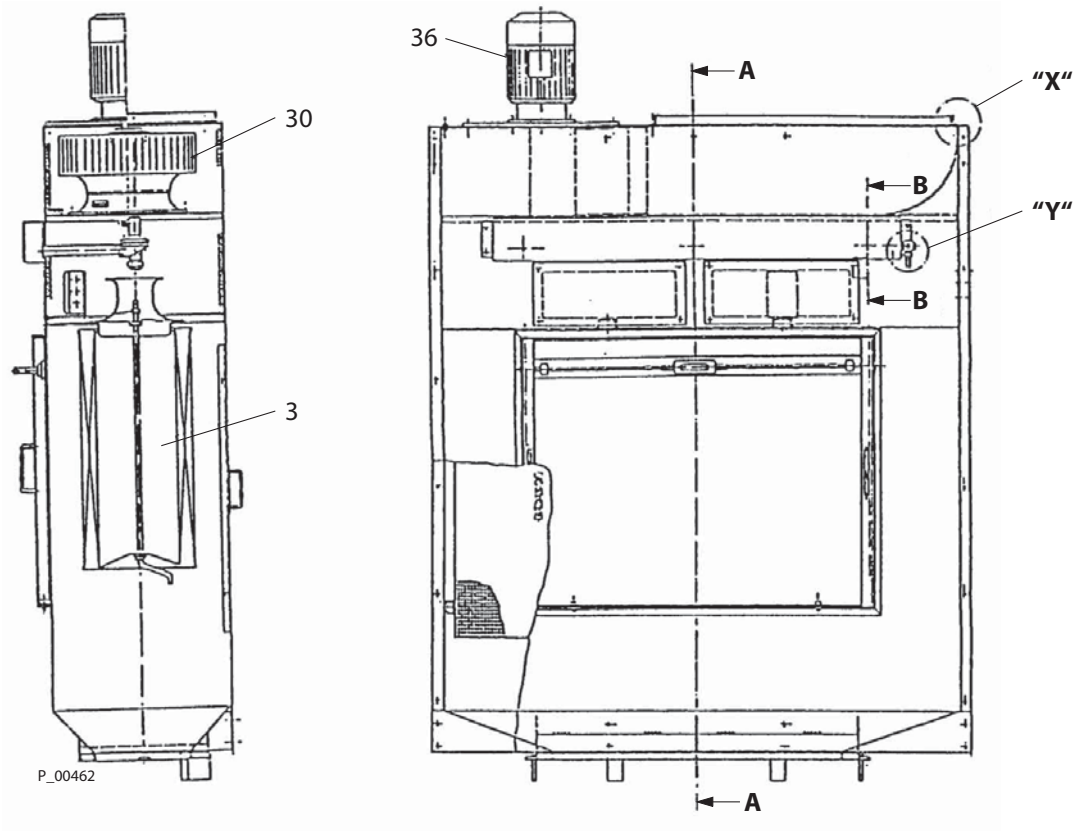
Identification in spare parts lists

Explanation of column "K" in the following spare parts lists.

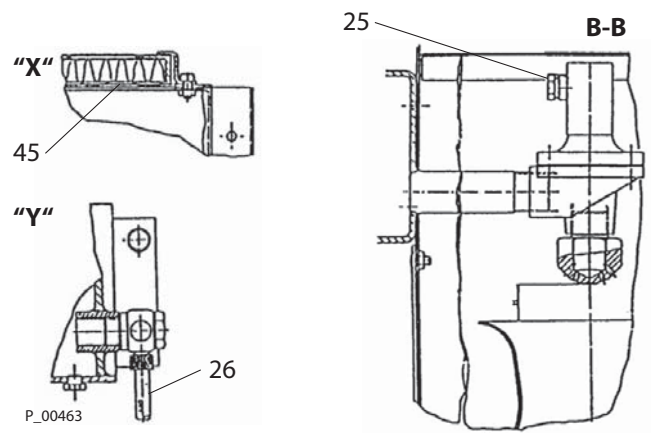
- ◆ = Wearing parts
Note: No liability is assumed for wearing parts.
- = Not part of standard equipment, available, however, as special accessory.

	 WARNING
	<p>Incorrect maintenance/repair! Risk of injury and damage to the device.</p> <p>→ Have repairs and part replacements be carried out by specially trained staff or a Wagner service center.</p> <p>→ Before all work on the device and in the event of work interruptions:</p> <ul style="list-style-type: none"> - Switch off the energy/compressed air supply. - Ensure that all system components are grounded. - Secure the device against being switched back on without authorization. <p>→ Observe the operating and service manual when carrying out all work.</p>

12.2 EXHAUST SYSTEM SPARE PARTS LIST



P_00462

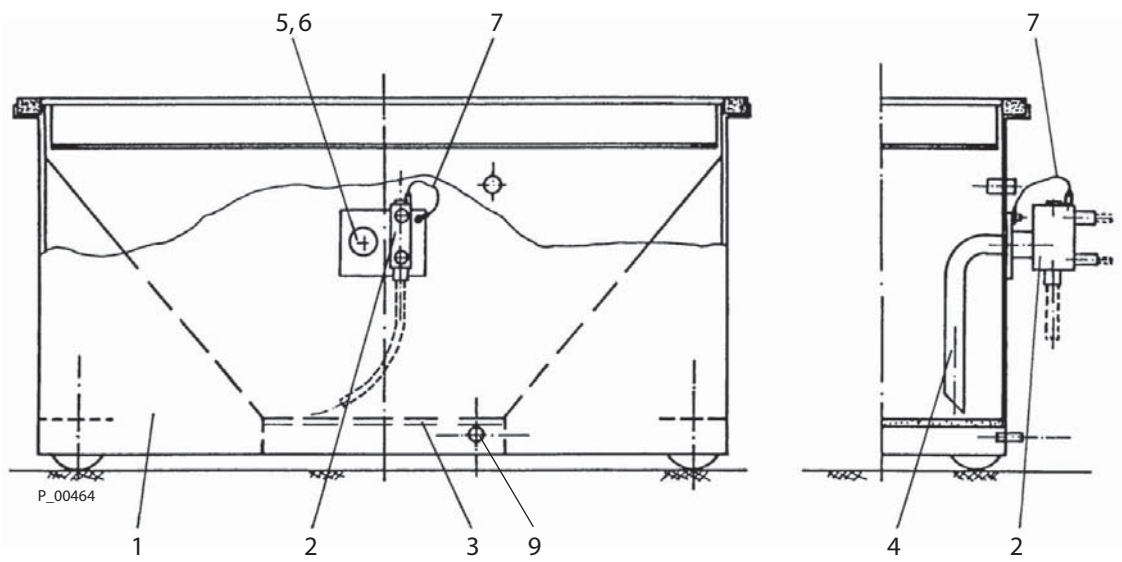


P_00463

Pos	K	Stk	Order No.	Designation
3			3131045	Filter cartridge with sealing washer
25			3303998	Solenoid valve, 2/2 way 3/4" connection thread 24 VDC
26			3051701	PVC hose D8/10.5
30			3054920	Clockwise rotating impeller
36			3055965	FDR Motor, 90L/2P 2.2 kW (3.0 kW) ¹
45			3055969	Viledon filter mat

¹ See "Technical Data", Chapter 4.3

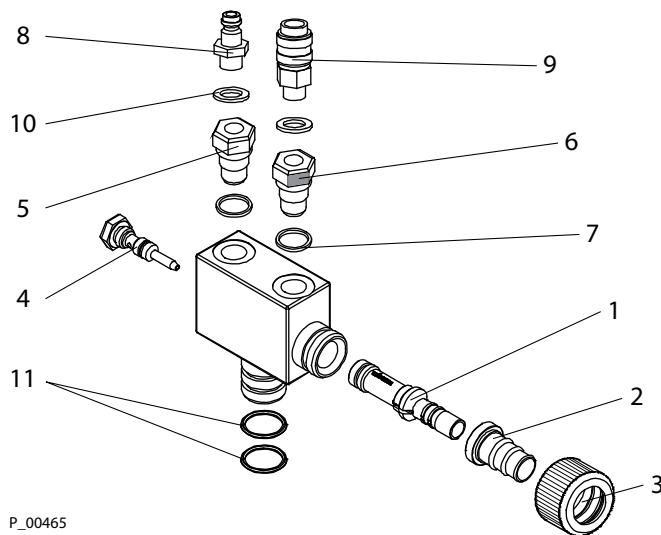
12.3 POWDER TROLLEY WITH POWDER INJECTOR SPARE PARTS LIST



Pos	K	Stk	Order No.	Designation
			3104860	Powder carriage with vibrating sieve and one powder injector
			3105976	Powder carriage with vibrating sieve and two powder injectors
1			3104861	Powder tank
2			241621	Powder injector PI-P1
3	◆		3055938	Air base plate
4			3101533	Suction system
5			3052494	Blind plug
6			3050056	lock nut
7			3105965	Ground wire
8			3060567	Vibration sieve
9			2318312	Ex-Proximity switch (preadjusted) M32x1.5

◆ Wearing part

12.4 POWDER INJECTOR PI-P1 SPARE PARTS LIST



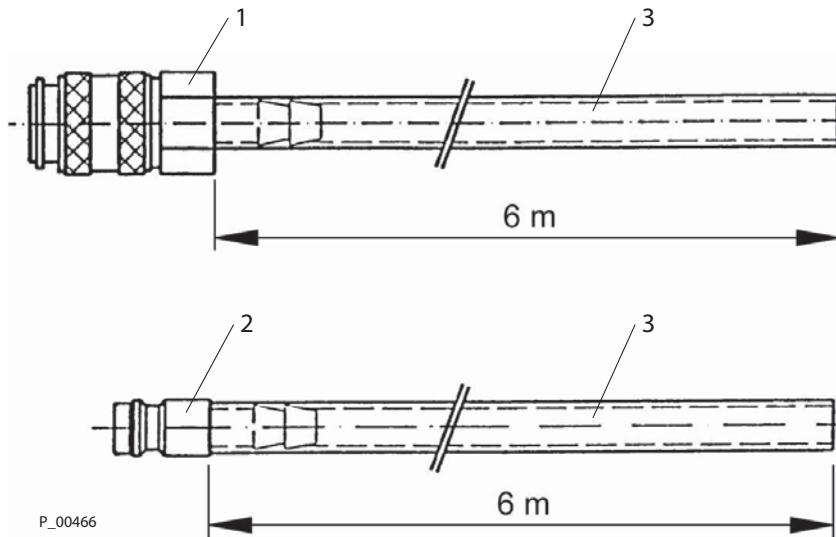
CAUTION

During operation, the powder injector must be grounded via the installed grounding lug.

Pos	K	Stk	Order No.	Designation
			241621	Powder injector PI-P1
1	◆		241225	Collector nozzle PI-xx
2			241476	Conductive sleeve
3			241466	Union nut
4	◆		241923	Air nozzle ET
5			241460	Spring check valve
6			241461	Spring check valve with choke (marked in black)
7			9970149	Sealing ring
8			9992709	Quick-release plug
9			9992710	Quick-release socket
10			9970150	Sealing ring
11	◆		9974023	O-ring, electrically conductive

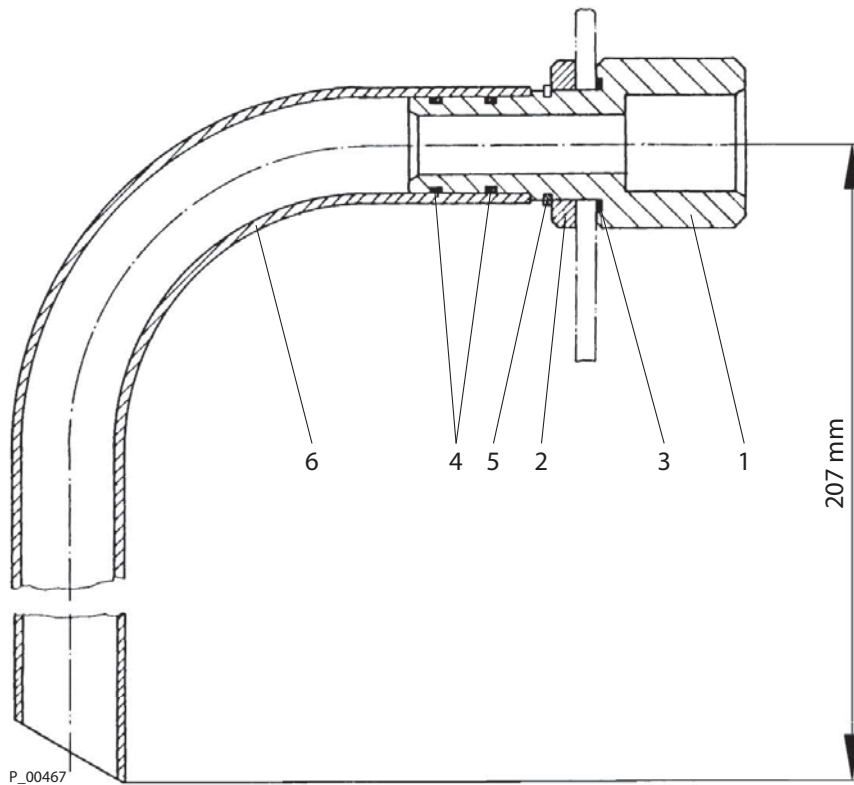
◆ Wearing part

12.5 CONNECTION SET SPARE PARTS LIST



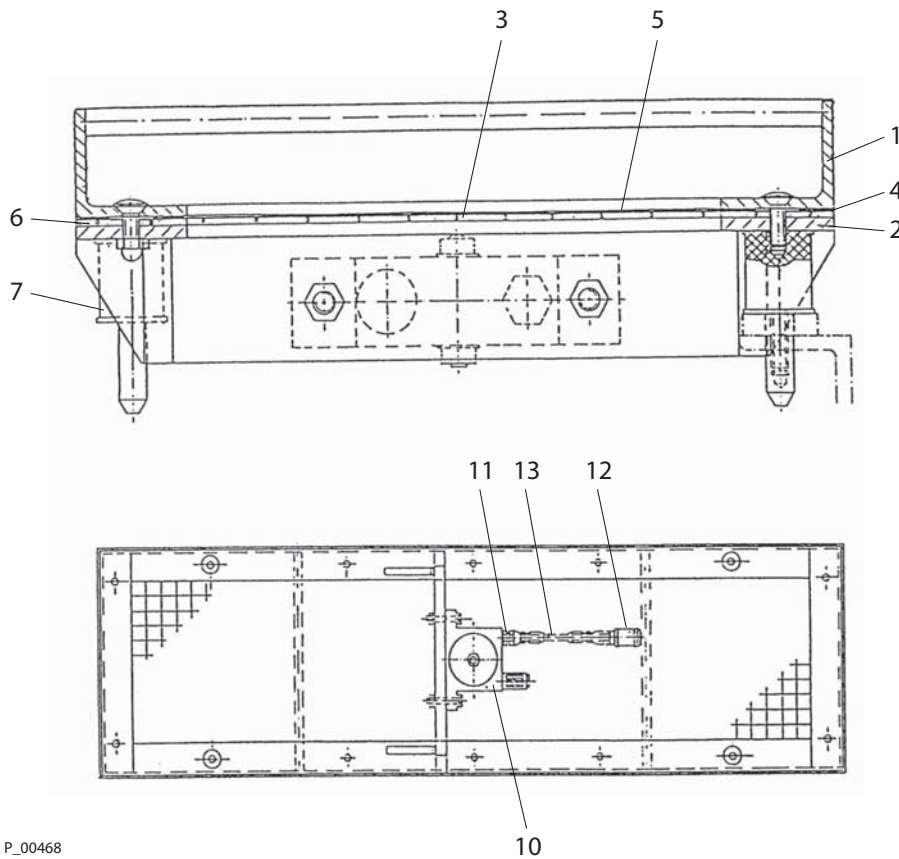
Pos	K	Stk	Order No.	Designation
			3105966	Connection set 2020 ID
1			9992711	Coupling
2			9992200	Plug-in nipple
3			3050061	Hose 8/6
4			3051199	Cable binders (not shown, are included)

12.6 SUCTION SYSTEM SPARE PARTS LIST



Pos	K	Stk	Order No.	Designation
			3101533	Suction system
1			701431	Intake connector
2			701432	Clamping ring
3			9971009	O-ring
4			9971178	O-ring
5			701433	Securing ring
6			3101532	Suction tube length = 207 mm; 8.15 inches

12.7 VIBRATION SIEVE SPARE PARTS LIST



P_00468

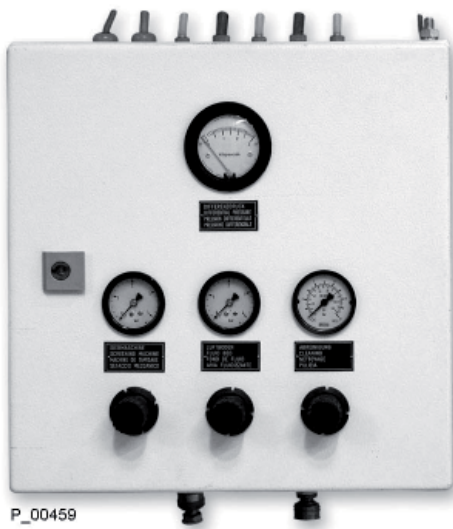
Pos	K	Stk	Order No.	Designation
			3060567	Vibration sieve
1			3055943	Sieve frame, dust gray
2			3060566	Clamping frame
3			3056291	Support mesh
4			3054629	Two-sided self-adhesive tape (Tesa Fix)
5			3107859	Nylon fabric 300 µm (standard)
6			3054634	Foam rubber tape, one-sided self-adhesive
7			3054635	Round rubber element
10			3020188	Turbine vibrator
11			3050149	Aluminum sealing ring 14 x 18 x 1.3
12			3050996	Quick-action coupling
13			3054640	Air hose

12.8 ID WALL MOUNTING CABINET



P_00458

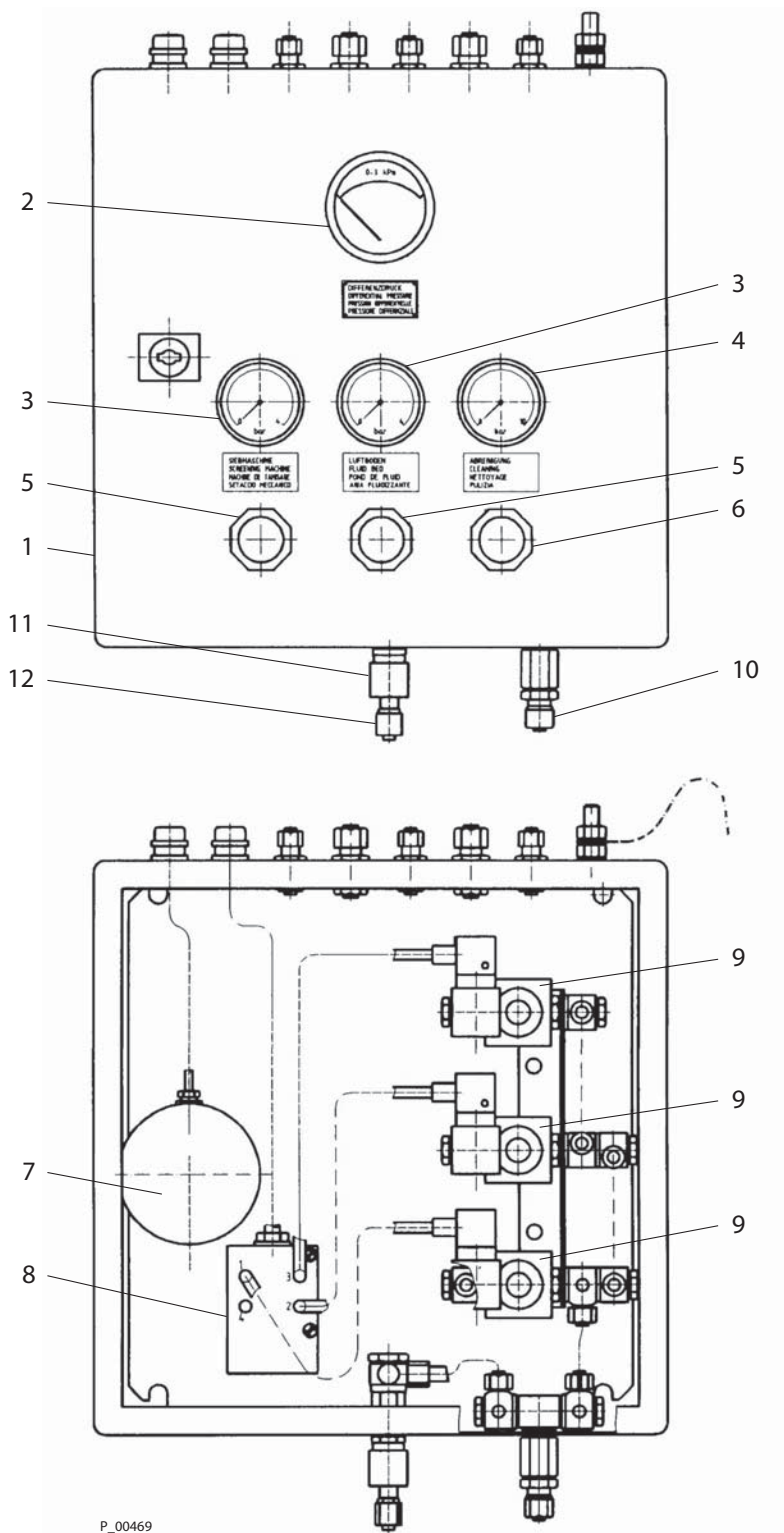
Electric switching cabinet
Order No. 3114407



P_00459

Pneumatic switching cabinet
Order No. 3133764

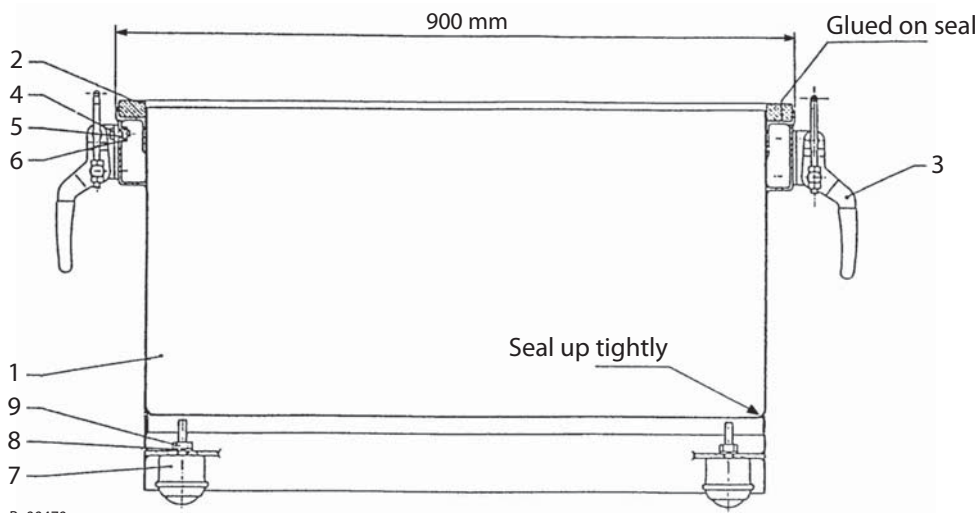
12.9 PNEUMATIC SWITCHING CABINET SPARE PARTS LIST



P_00469

Pos	K	Stk	Order No.	Designation
1			3133765	Switch box
2			3058798	Differential pressure gauge
3			3055347	Pressure gauge 0 - 4 bar; 0 - 58 psi
4			3051234	Pressure gauge 0 - 10 bar, 0 - 145 psi
5			3060189	Pressure regulator 0 - 4 bar; 0 - 58 psi
6			3060190	Pressure regulator 0 - 8.5 bar, 0 - 123.5 psi
7			3025456	Differential pressure monitor
8			3110347	Solenoid valve distributor
9			3303997	Solenoid valve, 2/2 way 3/8" connection thread
10			3058703	Threaded fitting
11			3053234	Quick-action coupling
12			3056316	Plug-in nipple fitting

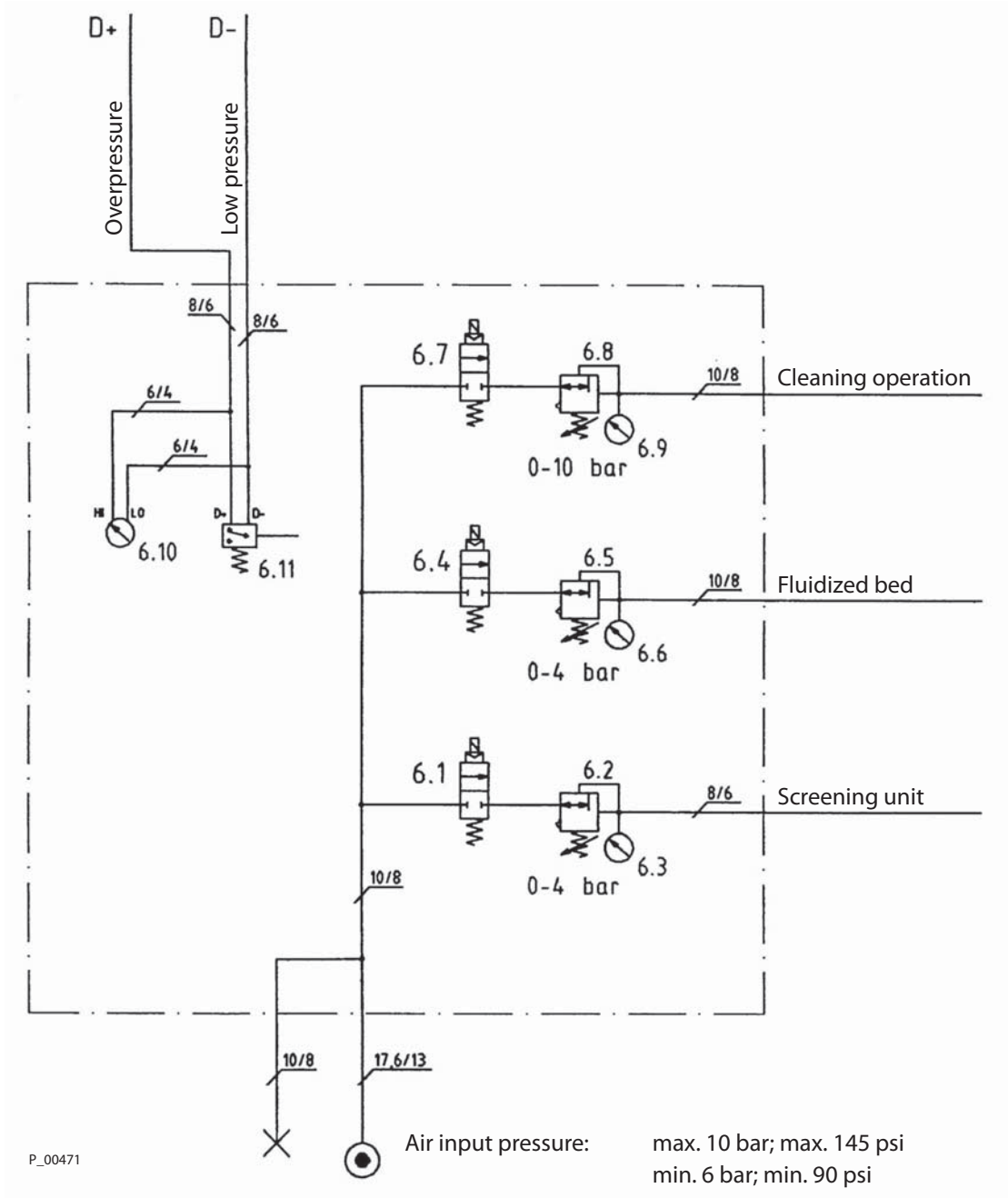
12.10 SPECIAL ACCESSORIES FOR THE COLLECTING TANK



Pos	K	Stk	Order No.	Designation
			3055950	Collection tank
1			3057845	Powder tank
2			3053914	Foam rubber gasket
3			3057073	Closing clamp
4			3050654	Hexagon bolt, M8
5			3050187	Lock washer, A8
6			3050843	Hexagon nut, M8
7			3055937	Rollers, 40 Ø
8			3050073	Lock washer, A10
9			3050071	Hexagon nut M10

13 CIRCUIT DIAGRAMS

13.1 PNEUMATIC DIAGRAM



14 DECLARATION OF WARRANTY AND CONFORMITY

14.1 IMPORTANT NOTES ON PRODUCT LIABILITY

As a result of an EC regulation effective from January 1, 1990, the manufacturer shall only be liable for his product if all parts originate from him or are approved by him, and if the devices are properly mounted, operated and maintained.

The manufacturer will not be held liable or will only be held partially liable if third-party accessories or spare parts have been used.

With genuine WAGNER accessories and spare parts, you have the guarantee that all safety regulations are complied with.

14.2 WARRANTY CLAIM

Full warranty is provided for this device:

We will at our discretion repair or replace free of charge all parts which within 24 months in single-shift, 12 months in 2-shift or 6 months in 3-shift operation from date of receipt by the purchaser are found to be wholly or substantially unusable due to causes prior to the sale, in particular faulty design, defective materials or poor workmanship.

The type of warranty provided is such that the device or individual components of the device are either replaced or repaired as we see fit. The resulting costs, in particular shipping charges, road tolls, labour and material costs will be borne by us except where these costs are increased due to the subsequent shipment of the device to a location other than the address of the purchaser.

We do not provide warranty for damage that has been caused or contributed to for the following reasons:

Unsuitable or improper use, faulty assembly or commissioning by the purchaser or a third party, normal wear, negligent handling, defective maintenance, unsuitable coating products, substitute materials and the influence of chemical, electrochemical or electrical agents, except when the damage is attributable to us.

Components that have not been manufactured by WAGNER are subject to the original warranty of the manufacturer.

Replacement of a component does not extend the period of warranty of the device.

The device should be inspected immediately upon receipt. To avoid losing the warranty, we or the supplier company are to be informed in writing about obvious faults within 14 days upon receipt of the device.

We reserve the right to have the warranty compliance met by a contracting company.

The services provided by this warranty are dependent on evidence being provided in the form of an invoice or delivery note. If the examination discovers that no warranty claim exists, the costs of repairs are charged to the purchaser.

It is clearly stipulated that this warranty claim does not represent any constraint on statutory regulations or regulations agreed to contractually in our general terms and conditions.

J. Wagner AG

14.3 CE DECLARATION OF CONFORMITY

Herewith we declare that the supplied version of

ID booth, Order No. 3063837, 3056730, 3056770, 3057190, 3082406, 3056720,
3057870, 3057905 3131277

complies with the following provisions applying to it:

- 94/9/EC (ATEX Directive)
- 2006/42/EC (Machinery Directive)
- 2004/108/EC (EMC Directive)

Applied standards, in particular:

- DIN EN ISO 12100-1: 2004-04
- DIN EN ISO 12100-2: 2004-04
- DIN EN 60079-0: 2004-12
- DIN EN 60079-14: 2009-05
- DIN EN ISO 14121: 2007-12
- DIN EN 60439-1: 2005-01
- DIN EN 60204-1: 2009-10
- DIN EN 50050: 2002
- DIN EN 50177: 2010-04
- DIN EN 954-1: 1997-03
- DIN EN 1127-1: 2008-02
- DIN EN 13463-1: 2009-07
- DIN EN 12981: 2010-06
- DIN EN ISO 13850: 2008-09
- BGI 7641

Identification:



EC Certificate of Conformity

The CE certificate of conformity is enclosed with this product. If needed, further copies can be ordered through your WAGNER dealer by specifying the product name and serial number.

Order number:

ID booth 3304086

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