SECURE AiR®
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Manual

Portable case-type fume extractor SER 201



ENGLISH

CE

Contents

1. GENERAL INFORMATION 3
1.1. Introduction 3
1.2. Copyright and related rights 3
1.3. Information for the user 3
2. SAFETY 4
2.1. General information 4
2.2. Warnings and symbols in the instructions 4
2.3. Signs and notices applied by the user 4
2.4. Safety warnings for the operator 5
2.5. Safety warnings for maintenance and troubleshooting on the SER 201 machine 5
2.6. Warning of specific hazards 6
3. PRODUCT DESCRIPTION 7
3.1. Description of operation 7
3.2. Machine features and versions 8
3.3. Intended use of the machine 8
3.4. Improper use of the machine 9
3.5. Symbols and labels on the SER 201 machine 10
3.6. Residual risk 11
4. TRANSPORT AND STORAGE 11
4.1. Transport 11
4.2. Storage 11
5. ASSEMBLY 12
5.1. Unpacking 12
6. USE 12
6.1. Operator qualification 12
6.2. Controls 12
6.3. Starting the machine 13
7. PERIODIC MAINTENANCE 13
7.1. Care 13
7.2. Routine maintenance 14
7.3. Replacing the filter section 14
7.4. Troubleshooting 16
7.5. Emergency measures 16
8. DISPOSAL 17
8.1. Plastics 17
8.2. Metals 17
8.3. Filter elements 17
9. ANNEXES 18
9.1. SER 201 machine technical data 18
9.2. Spare parts and accessories 19
9.3. Machine drawing with dimensions 20
9.4. Wiring diagram 20

1. GENERAL INFORMATION

1.1. Introduction

These Operating Instructions provide important information required for the correct and safe operation of the SER 201 portable welding fume extractor of the company Secure Air by Gamma Impianti S.R.L.
Observing the warnings contained in this manual helps to avoid hazards, reduce repair costs and machine downtime, and increase the reliability and service life of the SER 201 unit.
The Operating Instructions must always be available; all the information and warnings they contain must be read, observed and applied by all personnel using the SER 201 machine and by every person involved in tasks such as:

- transport and assembly;
- normal use of the machine during operation;
- maintenance (replacement of the filter section, troubleshooting);
- disposal of the machine and its components.

1.2. Copyright and related rights

All information contained in this operating instructions manual must be treated as confidential. It may be made available and accessible only to authorised persons.
It may be disclosed to third parties only with the prior written consent of Secure Air by Gamma Impianti S.R.L.
All documentation is protected under copyright law.
Any distribution or reproduction of the documentation, even in part, as well as its use or transmission without prior and explicit authorisation, is prohibited.
Any violation of this prohibition is punishable by law and entails penalties.
All rights relating to the exercise of industrial property rights are reserved to Secure Air by Gamma Impianti S.R.L.

1.3. Information for the user

These Operating Instructions are an integral part of the SER 201 machine.
The user must ensure that all personnel assigned to the machine have adequate knowledge of these Instructions.
The user is required to supplement the Operating Instructions with instructions based on national regulations for accident prevention and environmental protection, including information on supervision and reporting obligations, so as to take account of operational specifics, such as work organisation, working methods and personnel employed.
In addition to the Operating Instructions and the accident prevention regulations in force in the country and place where the machine is used, the recognised technical rules for the safe and correct use of the unit must be observed.
The user must not make any modifications to the SER 201 machine, add parts or reconfigure it at the risk of compromising its safety without the permission of Secure Air by Gamma Impianti S.R.L!
The spare parts used must comply with the technical requirements established by Secure Air by Gamma Impianti S.R.L.
Always use original spare parts to guarantee the technical requirements.
Employ only trained and qualified personnel for the operation, maintenance, repair and transport of the SER 201 unit.
Establish individual responsibilities for operation, setup, maintenance and repair.

2. SAFETY

2.1. General information

The SER 201 machine has been developed and built using the latest technology and in compliance with recognised safety guidelines.
However, the use of the SER 201 machine may present risks to the operator or of damage to the machine and other property:

- If the assigned personnel have not been instructed or properly trained;
- In case of use not in accordance with the intended purpose;
- In case of maintenance not carried out as indicated in this manual.

2.2. Warnings and symbols in the instructions



DANGER

This notice indicates an imminent hazardous situation.
Failure to comply may result in death or serious injury.



WARNING

This warning indicates a possible hazardous situation.
Failure to comply may result in death or serious injury.



CAUTION

This warning indicates a possible hazardous situation.
Failure to comply may result in minor injury or property damage.



INFO

This notice provides useful information for safe and appropriate use.

- The bold dot identifies working and/or operating procedures.
  These procedures must be carried out in sequence.

- Any lists are identified by a horizontal dash.

2.3. Signs and notices applied by the user

The user is responsible for applying any other signs and/or notices on the SER 201 machine or near its range of action.
Such signs and notices may concern, for example, the obligation to wear personal protective equipment (PPE).
Refer to the local regulations in force.

2.4. Safety warnings for the operator

Before using the SER 201 machine, the assigned operator must be suitably informed, educated and trained in the use of the machine and of the respective materials and means used.
The SER 201 machine must be used only in perfect technical condition and in compliance with its intended purposes, the safety regulations and the hazard warnings as set out in these operating and maintenance instructions.
All faults, especially those that may compromise safety, must be eliminated immediately!
Every person assigned to the commissioning, use or maintenance of the unit must be thoroughly familiar with these instructions and must have understood their content, especially paragraph 2 Safety.
Reading the Instructions for the first time while already working is not sufficient.
This applies in particular to persons who work on the SER 201 machine only occasionally.
The operating instructions must always be available near the SER 201 machine.
No liability is accepted for damage or injury resulting from failure to observe these Operating Instructions.
Observe the accident prevention regulations in force, as well as other generally recognised technical safety and occupational hygiene rules.
Individual responsibilities for the various maintenance and repair operations must be clearly established and respected. Only in this way is it possible to avoid malfunctions – especially in hazardous situations.
The user must ensure that the personnel assigned to use and maintenance wear personal protective equipment (PPE). This mainly consists of safety footwear, goggles and protective gloves.
Personnel must not wear long loose hair, loose clothing or jewellery! There is a risk of the operator being caught or dragged in by the moving parts of the machine!
If changes relevant to safety are detected on the SER 201 machine, switch off the equipment immediately, secure it and report the anomaly to the responsible department/person!
Work on the SER 201 machine may only be carried out by assigned, reliable and instructed personnel.
Personnel undergoing training or education or in a general training programme may be allowed to work on the machine only under the constant supervision of an experienced person.

2.5. Safety warnings for maintenance and troubleshooting on the SER 201 machine

For all maintenance and troubleshooting operations, use suitable personal protective equipment.
Before carrying out any maintenance work, clean the unit.
An industrial vacuum cleaner for dusts with efficiency class “H” may be used.
Setup, maintenance and repair operations, as well as fault detection, may only be carried out if the SER 201 machine is disconnected from the power supply:

- Unplug the power plug from the mains.

All screw fastenings that have been loosened during maintenance and repair work must always be retightened!
If required by the specifications, the respective screws must be tightened with a torque wrench.
Before carrying out maintenance and repair work, all impurities must be removed, especially on the elements with screws.

2.6. Warning of specific hazards



DANGER

All work on the electrical system of the product must be carried out exclusively by a qualified electrician or by personnel with the necessary training, under the direction and supervision of a qualified electrician and in accordance with the relevant safety regulations.
Before working on the machine, the electrical plug must be disconnected from the mains socket to prevent accidental restarting.
Use only original fuses with the prescribed current rating.
All electrical components to be inspected, maintained and repaired must be de-energised. Lock the operating devices used for de-energising to prevent accidental or automatic reactivation.
First check that the electrical components are de-energised, then insulate adjacent live components. During repairs, take care not to modify the design parameters so as not to compromise safety.
Regularly check the cables for any damage and replace them if necessary.



WARNING

Skin contact with welding dust, etc. may cause irritation in sensitive persons.
Repairs and maintenance of the SER 201 machine must be carried out only by qualified and authorised assigned personnel, in compliance with the safety regulations and accident prevention rules in force.
Danger of serious damage to the respiratory system and airways.
To prevent contact with and inhalation of dust, use protective clothing and gloves and a powered air-purifying respirator for the protection of the airways.
During repairs and maintenance work, avoid the generation of hazardous dust, in order to prevent harm to the health of persons not directly involved.



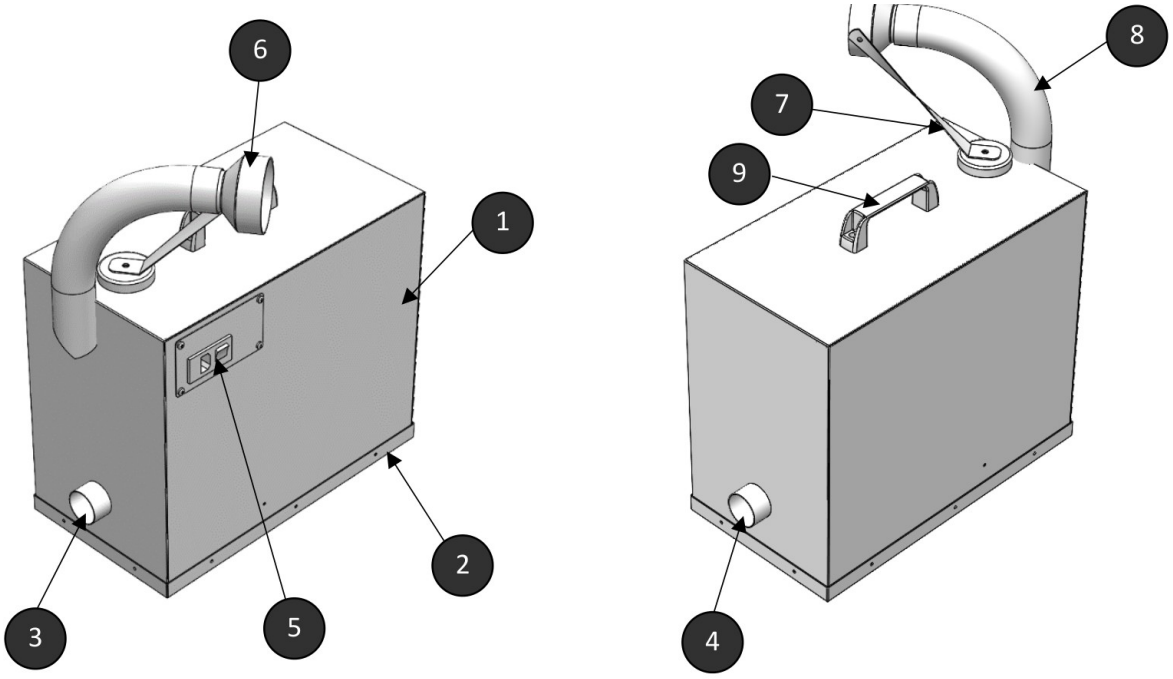
CAUTION

The product may produce noise emissions, specified in detail in the technical data.
If used with other machinery or due to the characteristics of the place of use, the product may generate a higher sound pressure level.
In this case, the responsible person is required to provide the service personnel with suitable protective equipment.

3. PRODUCT DESCRIPTION

3.1. Description of operation

The machine is designed as an extremely compact and portable device, suitable for filtering welding fumes and allowing them to be extracted close to the point where they are generated with a level-based separation rate.
The machine has a flexible hose connected to an extraction hood capable of independently holding any position by means of a special rod with magnet.
The extracted air (rich in polluting particulate) is purified through the filters fitted in the machine and then returned to the work room or, at discretion, can be expelled into another room by connecting a second flexible hose (not supplied).



Pos.	Description
1	External structure
2	Filter inspection door
3	Air inlet
4	Air outlet
5	On-off switch

Pos.	Description
6	Extraction hood
7	Rod with magnet
8	Flexible hose Ø 50mm
9	Handle
10	

3.2. Machine features and versions

The portable extractor is available in one version:

- **SER 201**
  with mechanical cartridge filtration
  maximum efficiency of the filter section: ≥99% | M (acc. to DIN 660335-2-69) | E12 (acc. to UNI EN 1822:2019)
  quantity of activated carbon: 1,5Kg | absorption quantity: 0,3kg

3.3. Intended use of the machine

The product is designed to extract and filter welding fumes produced by electric welding, directly from the point where they are generated. In principle, the product can be used in all work processes involving the emission of welding fumes. However, the product must be prevented from extracting, for example, “showers of sparks” produced by a grinding process.
Refer to the technical specifications for the dimensions and further product data.

For the extraction of welding fumes containing carcinogenic substances, produced by the welding of alloy steels (e.g. stainless steel), only type-approved and authorised air recirculation units may be used, in accordance with the regulations in force.

INFO

If necessary, a Ø50mm flexible hose can be connected to the air outlet of the SER 201 machine so as to expel the air into another room.

INFO

Observe and comply with the information in chapter “9.1 Machine technical data”.
Intended use also includes compliance with the instructions:

- for safety;
- for use and adjustment;
- for maintenance and repair,

given in this operating and maintenance manual.
Any further or different use is to be considered improper.
The user of the machine is solely responsible for any damage resulting from such use.
This also applies to arbitrary interventions and unauthorised modifications to the SER 201 machine

3.4. Improper use of the machine

The SER 201 machine is not designed for industrial applications requiring the use of solutions for potentially explosive atmospheres falling under the ATEX regulations.
Furthermore, the equipment must not be used in the following cases:

- Processes not indicated in the intended use and in which the air to be extracted:
  - contains sparks, for example from grinding, of such size and quantity as to damage the extraction hose and ignite the filter media;
  - contains liquids that contaminate the air flow with vapours containing aerosols and oils;
  - contains easily flammable and combustible dusts and/or substances that may form explosive mixtures or atmospheres;
  - contains other aggressive or abrasive dusts that may damage the SER 201 machine and its filter elements;

- Outdoor sites, where the machine is exposed to atmospheric agents: the product must be installed exclusively in closed and/or sheltered buildings.

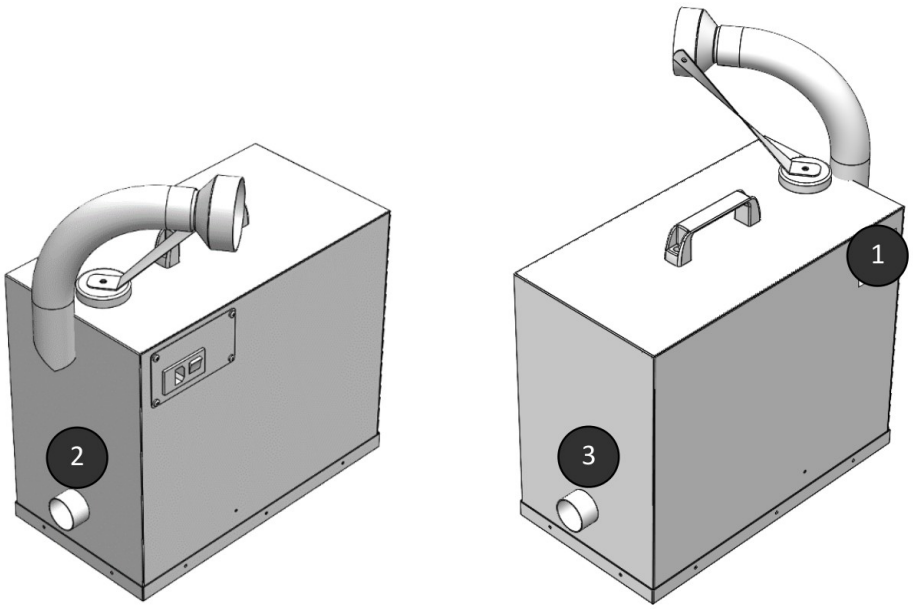
- Start-ups not indicated in the intended use:
  - Very frequent and closely spaced motor switch-ons and switch-offs, where the motor brushes are heavily stressed, undergoing up to 6 times the supply voltage;
  - Very prolonged use without the possibility of cooling and with a partially or completely clogged filter section;

The waste produced, for example collected particles, may contain harmful substances and must therefore not be delivered to municipal waste landfills. Environmentally friendly disposal must be ensured in accordance with the regulations in force.
If the SER 201 machine is used in accordance with its intended purpose, there is no risk of reasonably foreseeable misuse that could endanger the health and safety of personnel.

3.5. Symbols and labels on the SER 201 machine

The machine bears markings and labels which, if damaged or removed, must be immediately replaced with new ones applied in the same position.

The user may be obliged to place other markings and labels on the product and in the surrounding area, e.g. referring to the regulation requiring the use of personal protective equipment (PPE).



Label	Meaning	Position	Note
Label [1]	Rating plate data of the machine and CE marking	1	
Label [2]	Air inlet IN	2	
Label [3]	Air outlet OUT	3	

3.6. Residual risk

The use of the product involves a residual risk illustrated below, even if all safety provisions are observed.
All users of the product must be aware of the above residual risk and follow the instructions aimed at preventing accidents or damage.



WARNING

May cause serious damage to the respiratory system – wear protective equipment of class FFP2 or higher.
Skin contact with cutting fumes etc. may cause skin irritation in sensitive persons. Wear protective clothing.
Before carrying out welding work, make sure that the product is correctly positioned/adjusted, that the filter elements are complete and intact and that the device is running!
The product can perform all its functions only when it is switched on.
When replacing the various filter elements that make up the filtration section, the skin may come into contact with the separated dust and the work carried out may cause this dust to become airborne.
Wearing a mask and protective overalls is necessary and mandatory.
Burning material extracted and trapped in one of the filters may cause smouldering. Switch off the machine, close the butterfly valve in the extraction hood if present, and let the machine cool down in a controlled manner.

4. TRANSPORT AND STORAGE

4.1. Transport



DANGER

Danger of death by crushing during loading and transport of the product.
Improper manoeuvres during lifting and transport may cause the pallet possibly used with the product to tip over and fall.
• Never stand under suspended loads.

A pallet truck or a forklift is suitable for transporting any pallet with the product.
The weight of the product is indicated on the product rating plate.

4.2. Storage

The product must be stored in its original packaging at an ambient temperature between -20°C and +50°C in a dry and clean place.
The packaging must not be damaged by other objects.
For all products, the storage duration is irrelevant.

5. ASSEMBLY

5.1. Unpacking

The machine is supplied on a plastic pallet and protected by a cardboard box.
The two elements are held together by two straps.
A copy of the rating plate already applied to the machine is applied to the outside of the box.
Unpacking must be carried out as follows:

- Cut the straps with scissors or a cutter;
- Lift off the protective cardboard;
- Remove any additional packages contained inside and place them stably on the ground;

6. USE

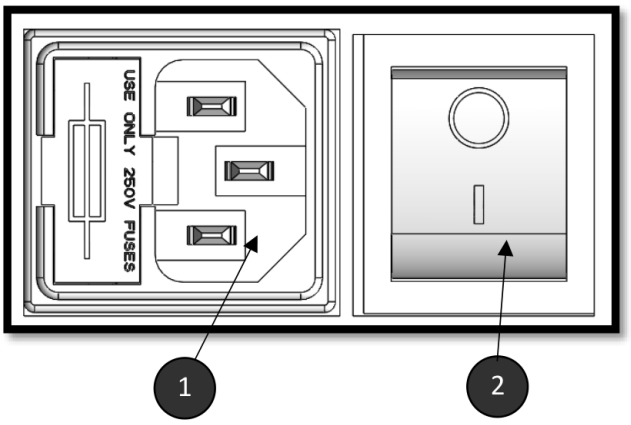
Anyone involved in the use, maintenance and repair of the product
must have read and understood this operating manual as well as the instructions for the accessories and associated devices.

6.1. Operator qualification

The user of the SER 201 machine may authorise only persons with good knowledge of these operations to use the machine.
Knowing the device means that the operators have been trained on its functions and know the instruction manual and the operating instructions.
The product must be used exclusively by qualified or properly trained personnel.
Only in this way is it possible to achieve safe and hazard-aware working.

6.2. Controls

On the front of the machine there is the control panel, which consists of
electronic and electromechanical equipment.



Pos.	Description	Notes
1	Panel plug with C13 connection	
2	Illuminated ON-OFF switch	

6.3. Starting the machine

- Connect the SER 201 extractor to the mains; observe the data shown on the rating plate attached to the machine.
- Switch on the machine using the on-off switch.
- The fan starts and the green light indicates that the machine is operating correctly.
- Finally, always adjust the extraction hood according to the work process.

7. PERIODIC MAINTENANCE

The instructions given in this chapter correspond to the minimum requirements.
Depending on particular operating conditions, other specific instructions may apply to keep the SER 201 machine in optimum condition.
The maintenance work and repairs described in this chapter may only be carried out by qualified maintenance personnel.
The spare parts used must comply with the technical requirements established by Secure Air by Gamma Impianti S.R.L.
This is always guaranteed if original spare parts are used.
Dispose of the materials used and the replaced components safely and in an environmentally friendly manner.
During maintenance work, observe the following:

- Chapter 2.4 Safety warnings for the operator;
- Chapter 2.5 Safety warnings for maintenance and troubleshooting;
- Safety warnings given in this chapter for the individual operations.

7.1. Care

Taking care of the product essentially means cleaning the surfaces, removing dust and deposits, and checking the condition of the filter section.
Follow the warnings given in chapter “Safety instructions for repair and troubleshooting of the product”.



WARNING

Skin contact with dust and other elements deposited on the machine may cause irritation in sensitive persons!
Danger of serious damage to the respiratory organs and airways!
To avoid contact with and inhalation of dust, it is recommended to use protective clothing, gloves and a mask with a class FFP2 filter according to standard EN 149.
During cleaning, prevent the release of hazardous dust in order to avoid harm to the health of unauthorised persons.



INFO

The SER 201 machine must not be cleaned with compressed air!
Dust and/or dirt particles could be released into the surrounding environment.

Proper care helps to keep the SER 201 extractor in perfect working order for a long time.

- The SER 201 machine must be cleaned thoroughly every month.
- The external surfaces of the extractor must be cleaned with an industrial vacuum cleaner suitable for class “H” dusts or with a damp cloth.
- Check that the extraction arm is not damaged, for example possible breaks in the flexible hose at the joints.

7.2. Routine maintenance

To ensure safe operation of the SER 201 extractor, it is recommended to carry out maintenance work and periodic checks at least once every 3 months.
The unit does not require any specific maintenance, except for replacing the filter when necessary and checking the extraction arm.
Observe the warnings given in paragraph 2.5 “Safety warnings for maintenance and troubleshooting”.

7.3. Replacing the filter section

The service life of the filter section depends on the type and quantity of the particles to be captured.
It is recommended to replace the filtration system periodically, depending on use, for example every 3 months, and not to wait until it is completely clogged.
As filter clogging increases, the flow is restricted, reducing the extraction capacity of the system and consequently causing inadequate cooling of the electric motor, with a resulting high risk of motor failure.



WARNING

Cleaning any type of fabric filter is prohibited: pleated, bag and cartridge.
Cleaning would damage the filter material, compromising the operation of the filter and causing hazardous substances to escape into the ambient air.
In the case of a cartridge filter, pay particular attention to the filter seal; a high level of filtration can only be guaranteed with a seal free of damage or imperfections.
Filters with a damaged seal must therefore always be replaced.



WARNING

Skin contact with dust and other elements deposited on the machine may cause irritation in sensitive persons!
Danger of serious damage to the respiratory organs and airways!
To avoid contact with and inhalation of dust, it is recommended to use protective clothing, gloves and a mask with a class FFP2 filter according to standard EN 149.
During cleaning, prevent the release of hazardous dust in order to avoid harm to the health of unauthorised persons.
For this purpose, carefully place the dirty filters inside sealable bags and use an industrial vacuum cleaner for dusts with efficiency class “H” to extract any pollutant that has fallen during the removal of the filters.

Proceed with the following instructions:

- Use only original replacement filters, as only these filters are able to guarantee the necessary level of filtration and are suitable for the filter unit and its performance.
- Switch off the SER 201 extractor with the relevant switch.
- Secure it so that it cannot be accidentally restarted by unplugging the power cable from its C13 socket.
- Open the inspection door located on the bottom of the machine.

a) Replacing the pre-filter

- Carefully remove the metal pre-filter from its guide, so as to avoid raising any dust.
- Carefully, and avoiding raising dust, place the filters in a plastic bag and close it, for example with cable ties.
  Suitable plastic bags can be ordered from Secure Air by Gamma Impianti S.R.L.
- Insert the new filter into the relevant guides.

b) Replacing the main filter

- Carefully remove the main filter from its guide, so as to avoid raising any dust.
- Place the filter in a plastic bag and close it, for example with cable ties.
  Suitable plastic bags can be ordered from Secure Air by Gamma Impianti S.R.L.
- Insert the new filter into the relevant guides.

c) Replacing the activated carbon filter:

- Carefully remove the carbon filter from its guide, so as to avoid raising any dust.
- Carefully, and avoiding raising dust, place the filters in a plastic bag and close it, for example with cable ties.
  Suitable plastic bags can be ordered from Secure Air by Gamma Impianti S.R.L.
- Insert the new filter into the relevant guides.

d) Once the respective filter medium has been replaced, carry out the following operations:

- Close the inspection door and check that the sealing gasket is correctly positioned.
- Reinsert the plug into the mains socket and operate the switch.
- Dispose of the replaced filters in accordance with the regulations in force. For this purpose, ask the local waste disposal company for the respective waste disposal codes.
- Finally, clean the maintenance area, e.g. with an industrial vacuum cleaner for class “H” dusts.

7.4. Troubleshooting

FAULT	POSSIBLE CAUSE	REMEDY
The machine does not switch on	No mains voltage.	Contact an electrician
	Protection fuse blown.	Replace the 5x20 10A fuse
	Motor burnt out	Replace the motor
	Worn motor brushes	Replace the brushes
The extraction capacity is insufficient	The filters are dirty	Replace the filters
Not all fumes are extracted	Excessive distance between the extraction hood and the welding point	Move the hood closer

7.5. Emergency measures

In the event of a fire in the product or any of its extraction elements, proceed as follows:

- Disconnect the power supply to the product by unplugging the mains connector from the socket, if possible.
- Try to extinguish the fire with a common powder extinguisher.
- If necessary, contact the fire brigade.



WARNING

Do not open the maintenance doors of the machine.
Flare-ups may occur! In the event of fire, under no circumstances touch the product without suitable protective gloves. Danger of burns!

8. DISPOSAL



WARNING

Skin contact with cutting fumes etc. may cause skin irritation in sensitive persons. Dismantling of the product must be carried out exclusively by specialised personnel with the relevant training and authorisation, in compliance with the safety instructions and the accident prevention regulations in force.
Possibility of serious damage to health, affecting the respiratory organs and airways.
To avoid contact with and inhalation of dust, wear protective clothing, gloves and a respirator!
Avoid the release of hazardous dust during dismantling, so as not to compromise the health of persons nearby.
Use an industrial vacuum cleaner for class “H” dusts to clean the area.



CAUTION

For all activities carried out on and with the product, comply with the legal obligations for the prevention and proper recycling/disposal of waste.

8.1. Plastics

Any plastics used must be sorted as far as possible and disposed of in compliance with legal obligations.

8.2. Metals

The metals used, such as the machine structure, must be separated and disposed of in accordance with the regulations in force.
Disposal must be carried out by an authorised company.

8.3. Filter elements

Any filter elements used must be disposed of in compliance with the local legal obligations in force.

9. ANNEXES

9.1. SER 201 machine technical data

FILTRATION DATA

DESCRIPTION	U.M.	VALUE	NOTE
FILTRATION STAGES	*N°*	*3*	*Spark arrestor- cartridge-carbon*
FILTER SURFACE	*m^2*	*2,7*	*Relating to the cartridge filter*
FILTER	*Material*	*80%cellulose+20%pet*	*Relating to the cartridge filter*
EFFICIENCY		*>99%*	*Relating to the cartridge filter*
DUST CLASSIFICATION	*DIN EN 60335-2-69:2010*	*M*	*Relating to the cartridge filter*
FILTER MEDIA WEIGHT	*g/m^2*	*114*	*Relating to the cartridge filter*
FILTER MEDIA THICKNESS	*mm*	*0,28*	*Relating to the cartridge filter*
ACTIVATED CARBON	*Kg*	*1,5*	

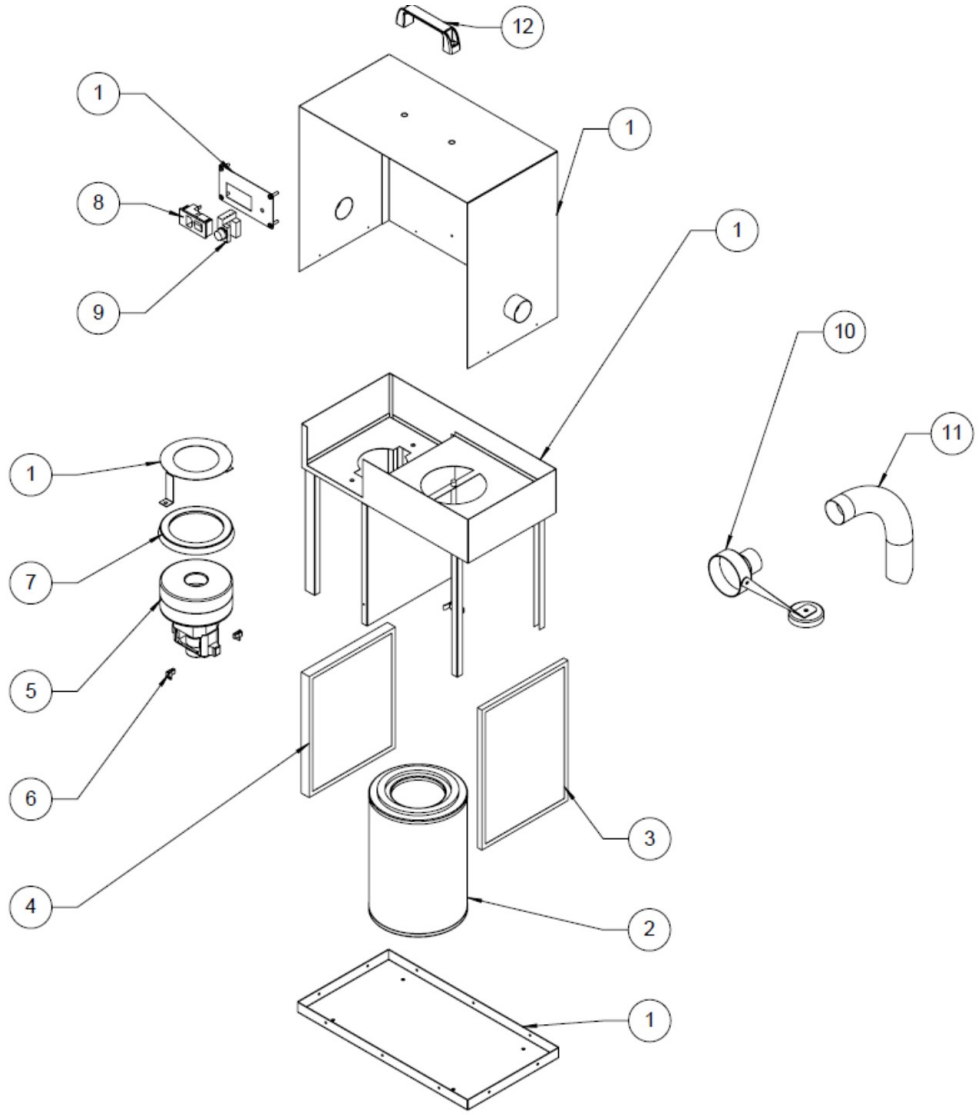
EXTRACTION DATA

DESCRIPTION	U.M.	VALUE	NOTE
EXTRACTION CAPACITY	*m^3/h*	*150*	*Value with clean filters*
FAN AIRFLOW	*m^3/h*	*200*	
NOISE LEVEL	*dB(A)*	*72*	
Version with 230V single-phase power supply			
MOTOR POWER	*kW*	*1,1*	
POWER SUPPLY	*V/Ph/Hz*	*230/1/50*	
CURRENT DRAW	*A*	*5*	
Version with 110V single-phase power supply			
MOTOR POWER	*kW*	*1,1*	
POWER SUPPLY	*V/Ph/Hz*	*110/1/50-60*	
CURRENT DRAW	*A*	*9,5*	

ADDITIONAL INFORMATION

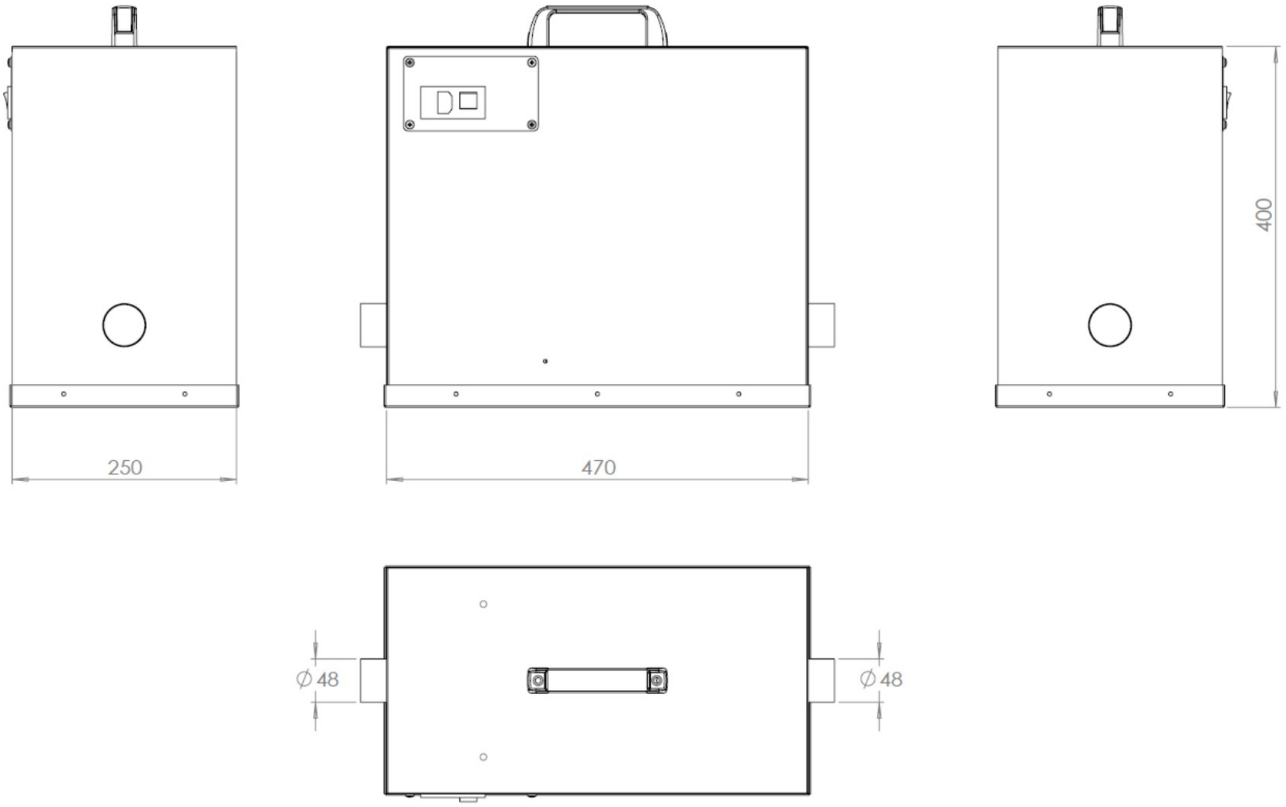
DESCRIPTION	U.M.	VALUE	NOTE
FAN TYPE	*Type*	*Blower with brushed motor*	
DIMENSIONS	*mm*	*250x470xH400*	
WEIGHT	*Kg*	*20*	

9.2. Spare parts and accessories

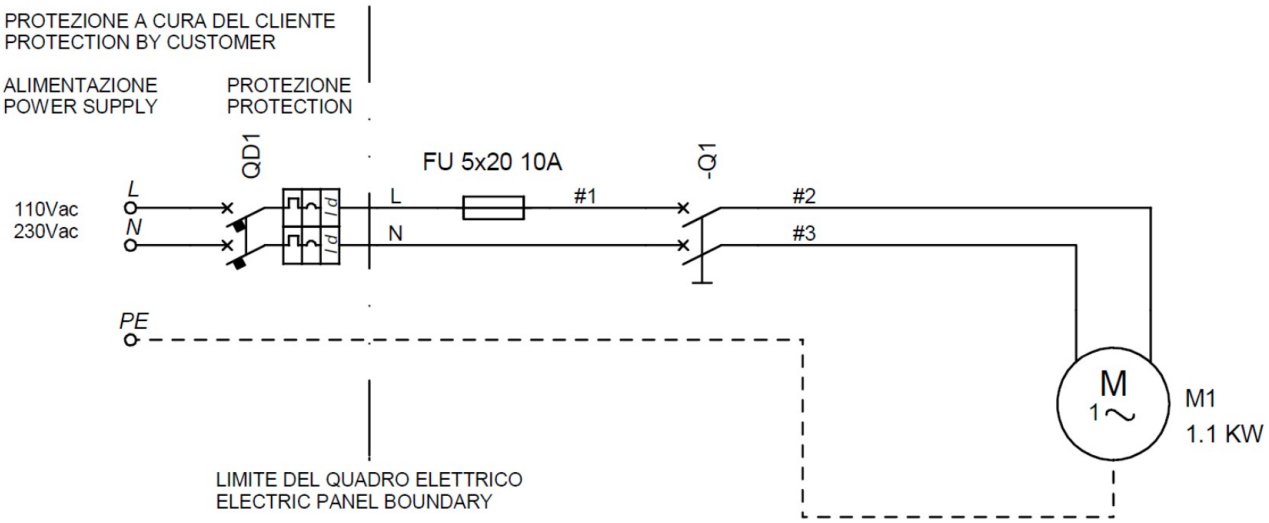


N°	Code P/N	U.M.	Qty	Description
1	DBCARPENTERIAAER 201	NO.	1	COMPLETE CASING FOR SER 201
2-3-4	RF0AER2010002	NO.	1	CARTRIDGE FILTER SET EFF. 99% + PRE-FILTER + CARBON
2	RF0AER2010003	NO.	1	CARTRIDGE FILTER EFF. 99%
5	DB00060	NO.	1	MOTOR W 1100 240 V/50----TYPE R36APSS
	DB00067	NO.	1	MOTOR W 1050 110 V 50/60hz type R36APSS
6	RICAER0000SPZB	NO.	1	KIT OF 02 BRUSHES FOR MOTOR
7	DBGUARN48SH50	NO.	1	RUBBER GASKET 4.8 MM SH50 FOR MOTOR R36APSS
8	DBBZ15011	NO.	1	VERTICAL PANEL MODULE WITH 250V 10A SOCKET
10	RICAER0010SPZB	NO.	1	CONICAL NOZZLE WITH ROD AND MAGNET
11	T1920000000050	NO.	1	FLEXIBLE HOSE T19 D.50 L. 2000mm
12	DBMANUNI20	NO.	1	BLACK BRIDGE HANDLE
-	DBPZ2201020LK	NO.	1	CABLE 250V 10A L.2 M SCHUCO AND POLYSNAP LOCK PLUG
-	ACCTF000000520	NO.	2	GLASS FUSE 5x20 10A

9.3. Machine drawing with dimensions



9.4. Wiring diagram



MACHINE MAINTENANCE	
Par	Description
5	**Scheduled maintenance table**

PERIODIC CHECKS								
	TYPE OF CHECK OR MAINTENANCE	**METHOD**	**FREQUENCY**	**CHECK DATE AND MAINTENANCE TECHNICIAN NAME**				
				1	**2**	**3**	**4**	**5**
1	GENERAL CHECK OF THE EXTRACTOR CONDITION	VISUAL	DAILY					
2	CLEANING	MANUAL	See note A					
3	CHECK OF THE CONDITION OF THE SEALS	VISUAL	150 HOURS					
4	CHECK OF THE TIGHTNESS OF NUTS AND BOLTS	MANUAL	150 HOURS					
5	CHECK OF FILTER CLOGGING	VISUAL OR MANUAL	600 HOURS See note B					
6	CHECK OF THE FAN	MANUAL	see note C					
7	BEARING REPLACEMENT	MANUAL	40000 HOURS see note D					

NOTE A

Cleaning intervals are closely related to the type of fluid conveyed and its concentration, as well as to the working environment to which it is exposed. It is therefore necessary for the end user to determine a cleaning frequency such that the machine is always perfectly clean and that no layered build-up of material more than 5 mm thick forms on the fixed parts.

NOTE B

Filter replacement is signalled by a special device fitted as standard on the equipment; however, it is advisable to check the clogging condition so as to always have maximum extraction and maximum machine efficiency, and therefore it would be preferable to set a cleaning frequency as indicated in the filter details paragraph as well as to replace the entire filter set at least once a year. Even if not used often, filters deteriorate anyway.

NOTE C

The fan must be monitored at a frequency determined by the user to check correct operation, that there is no damage or breakage to the impeller and that the electric motor is in good condition.

NOTE D

This is the service life for which the bearings have been sized; however, due to external causes, such as higher-than-normal vibrations for certain periods, replacement may also be required after shorter periods. At the end of their life cycle, even if they apparently show no problems, it is advisable to replace the bearings anyway.

OPERATOR NOTES	
Par	Description
8	**Details of equipment maintenance operations**

The following table must be filled in by a specialised technician authorised by

It is of fundamental importance to keep these notes up to date in order to have an actual history of the problems encountered and the maintenance carried out; in this way, future malfunctions can be fixed quickly and at the lowest cost.

DATE	COMPANY NAME	CONTACT PERSON	OPERATION CARRIED OUT
			First start-up

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