

AirSanitizer

INSTRUCTION MANUAL



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In addition to the instructions in this guide,
subject-specific standards, as well as local, national and
international regulations must be observed.

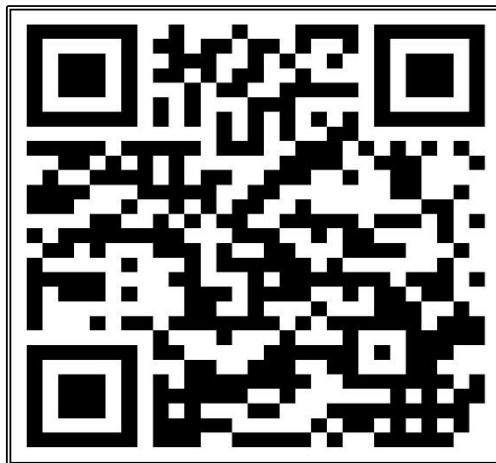
The instruction manual is available online, see QR-code beneath.
The online version always contains the updated version.



After completion of the work, please give this instruction man-
ual to the operating staff. Please keep the complete instruc-
tion and operating manual filed with your other documents.



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Betriebsanleitung!
Instruction manual!
Manuale d'istruzione!



ET 174-0

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- Original Instructions -

1 Introduction

1.1 Supplementary instructions to this instruction and operation manual

This is the instruction manual for the air purifier “AirSanitizer” from EUROCLIMA, hereinafter designated as ‘AHU’. This instruction manual is part of the AHU and enable the safe and correct use of an AHU from EUROCLIMA. The target group of this instruction manual are all persons who are familiar with transport, assembly, commissioning and installation, operation, maintenance, troubleshooting and disassembling (see also **chapter 2.5 (Staff selection and qualification)**). This instruction manual must be kept in the immediate vicinity of the AHU and must always be accessible to personnel. The basic prerequisite for a safe operation is that all safety and handling instructions given in this instruction manual as well as the local occupational health and safety regulations and general safety regulations for the area of application of the AHU are observed.

1.2 Limitation of liability

EUROCLIMA assumes no liability or warranty for damages or consequential damages due to:

- Non-observance of the operating instructions and / or other applicable documents.
- Non intended use or misuse.
- Use of untrained / not qualified personnel.
- Unauthorized structural changes.
- Technical changes.
- Use of non-approved spare parts.

1.3 Intended use / foreseeable misuse

1.3.1 Intended use

This AHU is used for:

- Indoor air purification.
- Reduction of concentration of dust and aerosol in the indoor air.
- Filtering aerosols from the air, thus reducing the risk of infection.

This AHU is suitable for:

- Operation indoors.
- A temperature range of the ambient air at the installation location of -0 °C to +40 °C.

Any use beyond the intended use and / or other types of use is considered as misuse. Any case of misuse results into immediate expiration of the complete warranty and / or guarantee claims.

1.3.2 Foreseeable misuse

Other uses than those listed above are considered improper and must therefore be excluded, including:

- Commissioning of the AHU before the steps described in this instruction manual have been carried out.
- Operation with opened or not locked service door.
- Operation outdoor / outside.
- Operation without air filters.
- Operation with permanently high air humidity.
- The operation in an explosive atmosphere is prohibited.
- The delivery of air with corrosive, aggressive, flammable or harmful components.

1.4 Documentation

The AHU will be delivered with the following documentation:

Instruction manual	In transport bag on the outside of the unit
QR-code for the download of the instruction manual	On the AHU and in the delivered manual on page 1

1.5 Information about the AHU

1.5.1 Overview / construction of the AHU

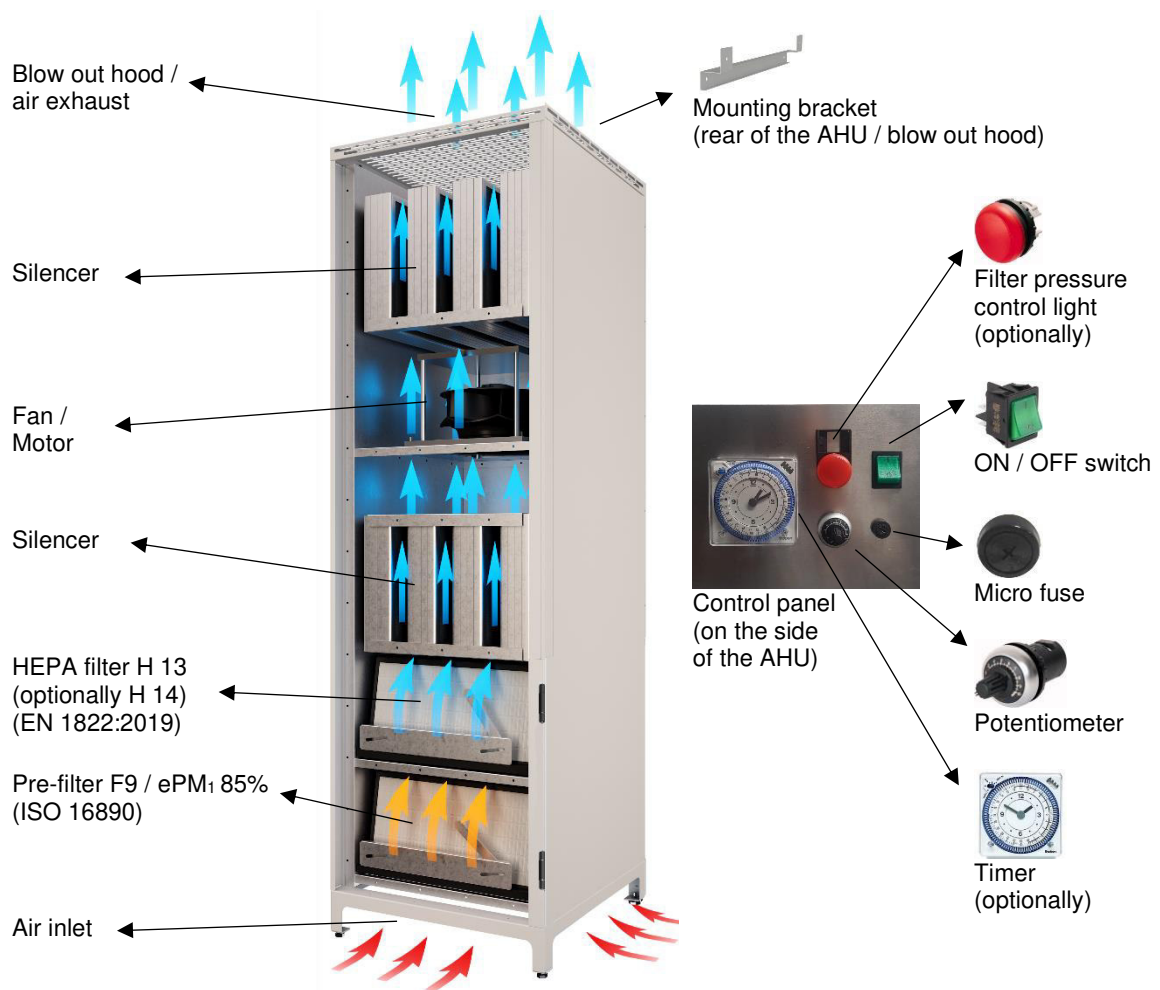


Figure 1: Construction air purifier "AirSanitizer"

1.5.2 Technical data

Information	S-Version	M-Version
Dimensions (height x width x depth)	2003 x 710 x 405 mm	2307 x 710 x 710 mm
Weight unpacked	Ca. 135 kg	Ca. 175 kg
Length of cable	3,0 m	
Power supply	230 V AC	
Frequency	50 Hz	
Max. power consumption	329 W	503 W
Power consumption	104 W *	206 W *
Micro fuse F1	3,15 A	
Recommended room size	From 40 up to 250 m ² (depending on the desired air circulation)	
Nominal volume flow	1.000 m ³ /h	1.500 m ³ /h
Sound power level LwA [dB(A)]	66 dB(A) *	61 dB(A) *

* at nominal volume flow

Table 1: Technical data

2 Safety instructions

2.1 Symbols in this instruction manual

The safety instructions in this instruction manual are marked by symbols. They are introduced by signal words which express the severity and extent of a danger. These safety instructions must be observed under all circumstances in order to avoid accidents, personal injury and damage of property.



DANGER!

Safety instructions with the signal word „DANGER” indicate a hazardous situation which, if not avoided, are certain to result in death or serious injury.



WARNING!

Safety instructions with the signal word „WARNING” indicate a hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION!

Safety instructions with the signal word „CAUTION” indicate a hazardous situation that, if not avoided, could result in minor or moderate injury.



NOTICE!

Safety instructions with the signal word „NOTICE” indicate a non-immediate or potential hazard situation that, if not avoided, could result in damage of property and equipment.

In order to draw attention to special, situation-related dangers, the following warning symbols, among others, are used in the safety instructions:











Warning symbol	Type of hazard
	Warning of general danger
	Warning of electrical voltage
	Warning of pointed objects and sharp edges
	Warning of rotating parts
	Warning of tilting parts
	Warning of suspended load

Table 2: Warning symbols of situation-related dangers

2.2 Personal protective equipment

Personal protective equipment is intended to protect people at work against a risk to their safety or health. Therefore, during the various operations on and with the AHU, personnel must wear the following personal protective equipment (pay attention to correct application!):

Symbol	Description of personal protective equipment
	Head protection: Industrial helmets protect the head from falling, swinging, falling or flying objects, as well as from bumping into objects.
	Protective clothing and ensembles: Protective work clothing is used to protect against being caught by moving or rotating parts, stitches, cuts, dust, etc. Do not wear chains, rings or other jewelry.
	Hand protection / disposable gloves: Protective gloves protect hands from injuries caused by cutting, sawing, trapping, etc., as well as from chemical and thermal hazards.
	Foot and leg protection: Foot and leg protection, such as safety shoes, protect against bumping into objects, pinching, kicking or kneeling in pointed or sharp objects, as well as against falling or rolling objects.




	Eye and face protection: Eye and face protection are used to protect against foreign objects and solids, as well as against chemical and thermal hazards.
	Skin protection: Skin protection serves to protect against skin diseases and skin damage.
	FFP3 respiratory protection: FFP3 respiratory protection is used to protect against contaminated material, such as aerosols, harmful dusts, etc.

Table 3: Symbols of personal protective equipment

2.3 Indications for minimizing specific hazards



WARNING!

Danger due to lack of missing or improper maintenance

An improperly performed maintenance can pose a security risk!



WARNING!

Danger due to thin sheets and sharp edges

During work on AHU (or on parts), there is a substantial risk of cutting with thin sheets and sharp edges, as e.g. roof sheets, fins of heat exchangers, corners and edges - Use personal protective equipment: wear protective helmet, gloves, safety shoes and long protective clothing.



WARNING!

Danger due to insufficient lighting

Adequate lighting must be provided for work on and in the AHU (maintenance and inspection work).



DANGER!

Danger due to electric shock

Electric shock on current-carrying parts.

Therefore, before working on and/or in the AHU, it must be ensured that the AHU is disconnect from the power supply by using the power plug. Before restarting the AHU, ensure that the door of the AHU is firmly closed.



WARNING!

Dangers during standstill

If the AHU is at a standstill, e.g. in the event of a power failure, the AHU must be disconnected from the power supply by using the power plug, as described above, and secured against unintentional reconnection before opening the AHU. Only when this has been ensured the door of the AHU may be opened, plug connections be disconnected and work be carried out on the AHU.



WARNING!

Danger due to obstructed air inlet and blow out

It must be ensured that the air inlet and the air blow out are always free and that there are no loose objects, dust, dirt, etc. in the immediate vicinity. The AHU must not be covered, or objects placed on the AHU.

2.4 Assembly instructions for safe operation

For safe operation of the AHU, at least the following must be carried out or retrofitted on site, i.e. in the customer's area of responsibility, before the initial commissioning:

Assembly of the mounting bracket

See **chapter 4.2 (Anti-tilt protection / assembly mounting bracket)**.

Assembly of the filters

See **chapter 5.3 (Air filters)**.

Measures regarding noise attenuation

The AHU is equipped with silencers to achieve maximum noise reduction. If there are vibrations and resonances, check for tight fit.

2.5 Staff selection and qualification

All persons, who are authorized to work on the AHU, must have read and understood the complete instruction manual - in particular **chapter 2 (Safety instructions)**. Until this task is completed, the person may not begin to work on the AHU.

All work must be carried out by professionals who have enough technical training, experience and enough knowledge of:

- Locally applicable safety and occupational health rules.
- Locally valid accident prevention regulations.
- Locally applicable standards and approved rules of practice.

All professional workers must be able to assess the work assigned to them and recognize and avoid potential hazards.

Execution of the assembly, installation, electrical connection, commissioning and disposal:

- by qualified electricians and AHU technicians.

Execution of maintenance / monitoring of the operation:

- by technical staff or trained personnel and qualified electricians and AHU technicians.

Subsequently, warning triangles indicate warnings that must be adhered to minimize risks to persons who are entrusted with the work on the AHU.

3 Reception control / transportation / unloading / storage

3.1 Reception control

- When the AHUs arrive, please check the scope of delivery for completeness and damage immediately. Scope of delivery:
 - o EUROCLIMA air purifier
 - o Instruction manual (loose in transport bag on the outside of the AHU)

- Mounting bracket (loose in the transport bag on the outside of the AHU)
- 2 fixing screws for mounting brackets (loose in transport bag on the outside of the AHU)
- Pre-filter and HEPA filter (inserted in the AHU)
- If damages are found, complete immediately a damage report. Only then the transport company can make the claim with the insurer (Note damage on the shipping documents with date and signature in the presence of the carrier). Complaints about apparent damaged or missing parts of the delivery cannot be subsequently recognized, if procedures are not followed. In case of complaints please inform immediately your contract partner.
- Depending on the environmental conditions, a superficial corrosion may occur on components like e.g. motor shafts, fan shafts, clamping bushes, sheet cutting edges. The resulting corrosion layer protects the underlying material from further corroding and does not represent a defect of the component or the device (see also **chapter 7 (Maintenance)**).



WARNING!

Danger due to tipping over

Beware of the risk of the AHU or narrow parts tipping over when removing the safety straps. Secure the AHU against tipping.



WARNING!

Danger due to thin or sharp sheet metal edges

Thin or sharp sheet metal edges such as roof plates or corners of frames on the parts of the AHU represent a source of injury. This must be considered when handling the AHU. Gloves, safety shoes and long work clothing must be used.



3.2 Transporting AHU's

3.2.1 Necessary general measures



WARNING!

- The technical data (dimensions, weight, etc.) in **chapter 1.5.2 (Technical data)** must be observed.
- Make sure that nobody is under the raised load.
- Before lifting, check that there are no objects on the load.
- Riding and climbing on the load are prohibited!
- Transport the AHU very slowly and completely horizontally. When transporting, a maximum lifting speed of 10 m/min is permissible.
- After the section is lifted slowly from the floor for a few centimeters, stop the operation. Now check the correct course of the load carrying equipment and that the lifting and fastening elements are all secure and safe.
- Before further lifting, check by visual inspection that no conspicuous deformations can be detected on the suspension means.
- Avoid jerky lifting.
- Loads must be picked up and set down in such a way that unintentional overturning, falling apart, sliding or rolling of the load is avoided.
- Due to the dimensions and weight of the AHU (see **chapter 1.5.2 (Technical data)**), the transport and unloading of the AHU must be carried out jointly by at least 2 qualified persons.

- Personal protective equipment: safety shoes must be worn during transport and unloading.



3.2.2 Transportation by forklift / lift truck



WARNING!

Danger due to loss of stability of the AHU

During transport and unloading, there is an increased risk of the AHU tipping over due to its high center of gravity. Therefore, if possible, transport the AHU lying on the pallet, see **Figure 2**. If this is not possible, the AHU must be secured against tipping with additional measures provided by the customer. When unloading and setting up, secure against slipping and tipping over until the AHU is fully assembled.

Each AHU is delivered on its own pallet and can be unloaded using a forklift and transported using a forklift or pallet truck. In principle, force may only be applied through the pallet, see **Figure 2**.

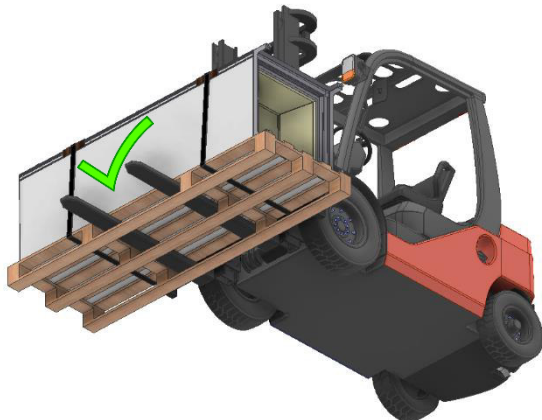


Figure 2: Correct transport

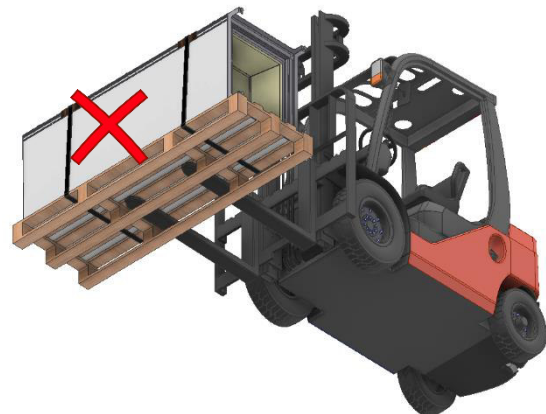


Figure 3: Incorrect transport

The center of gravity must be centrally located between the forks (see **Figure 4**).

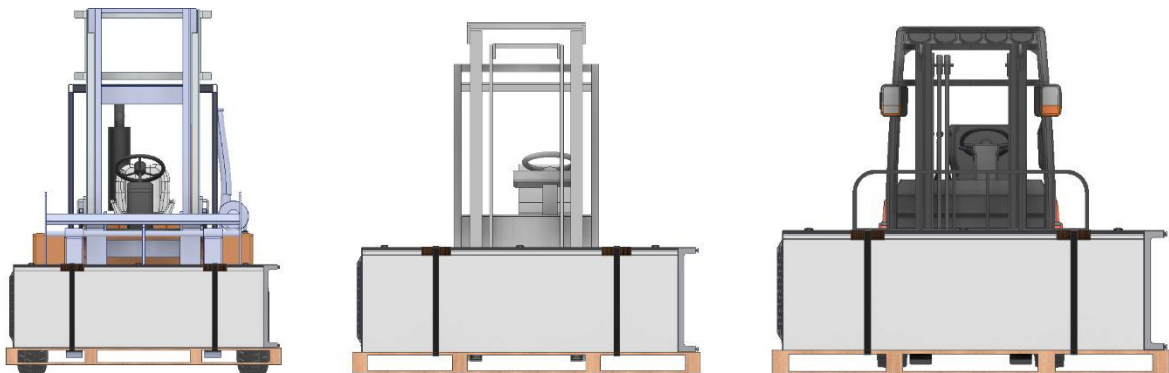


Figure 4: Center of gravity centrally between the forks

3.3 Storage

The AHU is generally packed in nylon. This package is suitable to protect the AHU during loading and unloading from bad weather, but not for outdoor storage. The insertion into a dry area after unloading is therefore essential for the preservation of the AHU.



NOTICE!

Removal of nylon packaging

Remove the nylon packaging after delivery and place the AHU in a dry, weather protected area: the risk of corrosion due to the lack of ventilation in combination with a higher humidity under the nylon packaging is possible. For example, white rust may be formed within a short time on galvanized surfaces. It can further arise that an excessively high temperature is created under the packaging, which can also cause damages to the components.

4 Assembly / Erection

4.1 Space requirements

The AHU must be positioned in the room so that it has good access to the room air. Therefore, the AHU must not be covered or placed behind or in a cupboard, e.g.

At the location of installation, it should be spatially possible to carry out proper maintenance and, if necessary, to remove components. For this purpose, a free working space from the AHU width + 300 mm must be available on each side. For the space requirement, it must also be considered that the ON / OFF switch (operating lamp) remains accessible, and that the door can be opened far enough to allow changing the filters.

4.2 Anti-tilt protection / assembly mounting bracket



WARNING!

Danger due to AHU tipping over

Due to the high center of gravity of the AHU and / or accidental bumping against the AHU, there is an increased risk of the AHU tipping over. Serious or life-threatening injuries may result. Therefore, the AHU must be firmly anchored to a wall immediately after installation using the supplied mounting bracket.

To secure the AHU against tipping over / falling, it must be mounted in the room as follows:

1. The mounting bracket supplied loose (see **Figure 5**) is to be fixed to the rivet nuts at the rear of the AHUs blow out hood in exact alignment using the enclosed fixing screws (see **Figure 6**), see **Figure 7**.
2. Move the rear of the AHU to the wall and align it horizontally.
3. The mounting bracket must be fixed firmly to the wall with suitable fixing material (screws and dowels), see **Figure 8** and **Figure 9**. Fixing material is not included in the scope of supply. The fixing material must be suitable for the wall conditions; consult your local specialist retailer.
4. Check that the fixing material is firmly fixed.
5. Check the stability of the AHU.

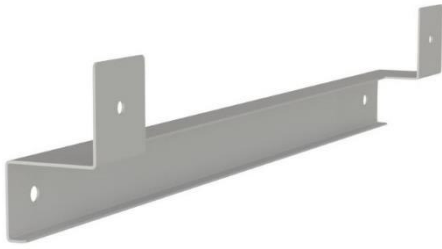


Figure 5: Mounting bracket (supplied loose)



Figure 6: Fixing screw for mounting bracket

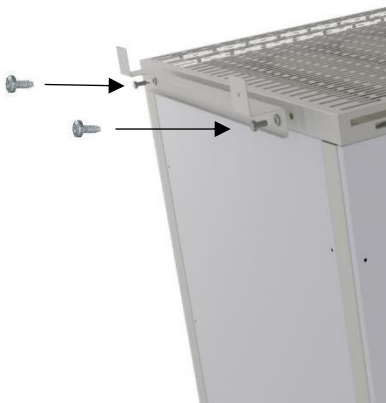


Figure 7: Assembly of the mounting bracket on the AHU



Figure 8: Assembly of the mounting bracket to the wall



Figure 9: Correctly mounted AHU in the room



NOTICE!

Changing the erection site

If the AHU is to be used in a different location, the wall fastening must always be restored in accordance with the above points 1 - 6. The AHU can be easily moved from one place to another (e. g. using a lift truck or a suitable sack truck).

4.3 Foundation

Following conditions must be fulfilled:

- The AHU must be placed on a stable surface.
- Ensure that the surface is level.



NOTICE!

Attention!

If these structural conditions are not met, this may be the cause of a jammed door and other problems with the AHU.

4.4 Erection

4.4.1 Potential risks that may arise at the erection site

- Cleaning work - including wet cleaning - can be carried out on the inside and outside of the AHU. During this work, leakage / dripping of cleaning fluid is possible.

4.4.2 Actions to prevent potential risks

These risks can be prevented by following actions:

- The AHU must be set up in such a way that it is easy to assemble and maintain.
- Appropriate safety precautions must be taken in accordance with the installation so that persons, buildings, and equipment are not endangered by falling parts (e.g. tools, screws, etc.).

The decision on suitable measures must be made by the customer in knowledge of the situation at the location. The installer or the operator of the AHU must provide preventive protection in accordance with the instructions given. In this context, it is advisable to take out insurance against damage.

4.5 Door

The accessibility of the AHU is provided by a hinged door with a screw connection, see **Figure 10** and **Figure 11**.

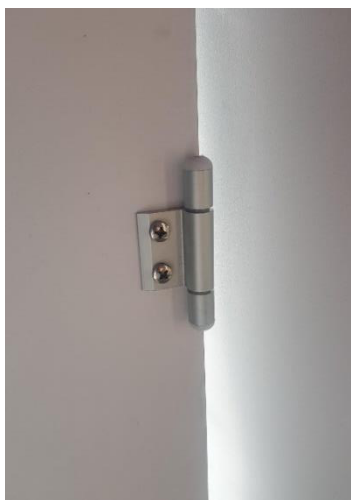


Figure 10: Door hinge



Figure 11: Screw connection



Danger due to rotating parts

Rotating parts can cause extremely serious injuries. Before opening the AHU, disconnect the AHU from the power supply by using the power plug.

5 Commissioning

5.1 Preliminary steps

- Clean thoroughly the AHU and all components of dust, swarf, and other debris.
- Remove all loose parts like tools, documentation, etc. from the AHU. Such parts can be sucked in by the fan and lead to its destruction.
- Check all bolt connections and electrical connections and retighten if necessary.
- All cables must be checked for damage on the insulation and replaced if necessary.
- Insert the power plug into a properly fused power socket.
- Lay the power cable in such a way that no one can step on it and that there are no tripping hazards.
- The power connection must comply with the specifications in **chapter 1.5.2 (Technical data)**.
- Check the motor connection and the matching of the supply voltage at the rated voltage - a fluctuation of supply voltage between +/- 5 % is permitted.

5.2 EC motors

EC motors are variable through an integrated frequency converter.

5.3 Air filters



Check air filter for tight fit

Before commissioning the AHU, all filters should be checked for tightness, as otherwise they could be sucked in and could lead to damage.

NOTICE!

5.4 Potentiometer

The volume flow (air exchange rate) is factory pre-set by using a potentiometer (see **Figure 12**). If it is necessary to adjust the volume flow, it can be set by using this potentiometer.



Figure 12: Mounted Potentiometer on the side of the AHU

5.5 Setting potentiometer / volume flow / power consumption

AHU S-Version (with clean filters; air density 1.2 kg / m³):

Potentiometer setting	Air volume flow V [m ³ /h]	Total power consumption P ges [W]
5	250	19
7 *	500	33
8,5	750	59
10	1000 **	104

* factory setting

** nominal volume flow

Table 4: Data potentiometer, volume flow and power consumption S-Version

AHU M-Version (with clean filters; air density 1.2 kg / m³):

Potentiometer setting	Air volume flow V [m ³ /h]	Total power consumption P ges [W]
4	250	14
5	500	22
6	750	45
7 *	1000	83
8	1250	137
9	1500 **	206

* factory setting

** nominal volume flow

Table 5: Data potentiometer, volume flow and power consumption M-Version

6 Operation / Switch on / Switch off



NOTICE!

It is the responsibility of the operator to lock the door always firmly during operation.

6.1 Switch on

Before switching on, it must be observed that:

- the filters are inserted and are in proper condition.
- the door is locked firmly.
- the air inlet and the air exhaust are free of objects, dust, dirt, etc.

To switch on the AHU, the power plug must then be plugged in and the AHU must be switched on using the ON / OFF switch on the rear (see **Figure 13**). After switching on, the green operating lamp of the ON / OFF switch lights up.



Figure 13: ON / OFF switch

6.2 Switch off

The AHU can be switched off by using the ON / OFF switch. During maintenance work or longer breaks in operation the AHU must be disconnected from the power supply by using the power plug.

6.3 Timer switch (optionally)

To control the time of the AHU, the AHU can be operated on a timer.



NOTICE!

ATTENTION: Observe switching capacity!

If a timer is installed on site, the power consumption of the AHU must be observed during operation, see **chapter 1.5.2 (Technical data)**, and a timer with sufficient connected load must be used.

Optionally, an analog timer (see **Figure 14**) with the following specifications can be included in the scope of delivery of EUROCLIMA:

- 1 channel
- Without power reserve
- Synchronised with mains
- Daily program
- 96 switching segments
- Shortest switching time: 15 minutes
- Clock hands for time display
- Switching preselection
- Permanent ON/OFF switch
- Switching status display

- Simple summer/winter time correction
- Time can be changed clockwise or anti-clockwise



Figure 14: Timer (optionally included in the scope of delivery of EUROCLIMA)

6.4 Filter pressure control light - filter change indication (optionally)

Optionally a filter pressure control light (see **Figure 15**) is included in the scope of delivery of EUROCLIMA.

If the filter pressure control light lights up red, one or more filters are dirty and must be changed. For the correct filter change, see **chapter 7.3 (Air filters)**.



Figure 15: Filter pressure control light (optionally)

7 Maintenance

EUROCLIMA AHUs are built mostly maintenance free and easy to maintain when required. The maintenance intervals (see **Table 7**) are indicative for normal operating conditions. Widely differing applications may require different intervals, what must be checked in the individual case. The execution of the described checks and maintenance needs, see **chapter 7.5 (Maintenance plan)**, are necessary to ensure a permanent safety operation and functionality of the AHU.

The entire AHU and all components must be checked regularly for pollution, corrosion, damage and fixing and, if necessary, they must be cleaned or repaired.

Depending on the environmental conditions, it can lead to a superficial corrosion on components, for example: motor, fan shafts, sheet metal cutting edges, etc. The resulting corrosion layer protects the underlying material from further corroding and does not represent a deficiency of the component or the device. The removal of surface corrosion and treatment of the corresponding sites are generally not required.



DANGER!

Danger due to electric shock

Before maintenance work, the AHU must be disconnected from the power by using the power plug. Indications of **chapter 2 (Safety instructions)** have to be observed!

To order spare parts please contact your service partner.

EUROCLIMA recommends performing checks, maintenance, and repair work in compliance to the specifications according to VDI 6022 sheet 1 and VDMA 24186 part 1.

Please note that EUROCLIMA is not responsible for damage caused by improper handling of solvents and cleaning agents, and not liable for mechanical damage. Solvents and cleaning agents may not contain alcohol for use on coated surfaces. EUROCLIMA recommends Allrain or Multirain as cleaning agents and Sanosil or Sanirain from Hygan as disinfectants.

7.1 Electrical connection

All electrical connections must be inspected annually and deficiencies (e.g. loose cable strands, loose screw, clamp connection, etc.) must be identified and eliminated immediately. Any dust deposits must be removed regularly.

The AHU is secured with a micro fuse F1 3.15 A (see **Figure 1**, in **chapter 1.5.1 (Overview / construction of the AHU)**). This may have to be changed if necessary. The following steps must be followed:

1. Pull the fuse holder out of the AHU.
2. Remove the defective micro fuse.
3. Insert a new micro fuse F1 3.15 A into the fuse holder.
4. Reinsert the fuse holder with the new micro fuse into the power supply.

7.2 Fan / motor group

7.2.1 Vibrations



WARNING!

Danger due to high vibrations / resonance frequency

Permanent operation of the fan-motor-unit at inadmissible high vibrations or at resonant frequency (and multiples of it) can lead to severe damage of the AHU and subsequently to damages to property or personnel.

During operation of the AHU, an excessive vibration level can occur due an unfavorable air flow, accumulation of dirt and dust, missing and / or incorrect cleaning and maintenance

7.2.2 Fan

- In case of irregular or unusual sounds, your service partner must be contacted.
- The theoretical lifetime, depending on the operating conditions, is at least 20,000 hours.
- The fan bearings are lubricated for life.

7.2.3 Motor

- In case of irregular or unusual sounds, your service partner must be contacted.

7.3 Air filters

EUROCLIMA recommends changing the filter outside the period of use to reduce the risk of infection for other persons. When checking and changing the filters, disposable gloves and FFP3 respiratory protection must be used. The soiled filters must be disposed of in closed waste bags and in accordance with local regulations.



NOTICE!

Check air filter for tight fit

All filters must be checked for tight fit, otherwise they may be sucked in and cause damage.



NOTICE!

Use intended filter types / sizes

To ensure the performance and the energy-efficient operation of the AHU, the air filters must be replaced regularly. Use only filter types and filter sizes, which are suitable and intended for assembly see **Table 6** and **Figure 16**. For further information please contact your service partner.

The following filter classes and sizes are permitted as replacement filters:

Filter classes:	AirSanitizer S-Version	AirSanitizer M-Version
Pre-filter F9 / ePM ₁ 85% (ISO 16890) (L x W x H)	592 (595) x 287 x 292 mm	592 (595) x 592 (595) x 292 mm
HEPA filter H 13 (optionally H 14) (EN 1822:2019) (L x W x H)	592 (595) x 287 x 292 mm	592 (595) x 592 (595) x 292 mm

Table 6: Permissible filter classes and sizes

2. Filter stage:
HEPA filter H 13
(optionally H 14)
(EN1822:2019)

1. Filter stage:
Pre-filter F9 / ePM₁ 85%
(ISO 16890)



Figure 16: Position filters

7.3.1 Pre-filter F9 / ePM₁ 85% (ISO 16890)

The pre-filter must be checked regularly (according to maintenance plan **Table 7**) for degree of contamination, damage, odor, and moisture penetration. For inspection, cleaning and maintenance, the pre-filter must be pulled out (lower filter / 1. filter stage, see **Figure 16**).

Check the filter chamber for dirt and clean it with a damp cloth if necessary.

The pre-filter must be changed if necessary, but at least once a year. To change the filter, pull out the dirty filter and dispose it properly. When inserting the new filter, do not damage or touch them. Touch the filter only by the frame to avoid damage.

7.3.2 HEPA filter H 13 (optionally H 14) (EN 1822:2019)

The HEPA filter must be checked regularly (according to maintenance plan **Table 7**) for degree of contamination, damage, odor, and moisture penetration. For inspection, cleaning and maintenance, the HEPA filter must be pulled out (upper filter / 2. filter stage, see **Figure 16**).

Check the filter chamber for dirt and clean it with a damp cloth if necessary.

The HEPA filter must be changed when necessary, but at least every 2 years. To change the filter, pull out the dirty filter and dispose it properly. When inserting the new filter, do not damage or touch them. Touch the filter only by the frame to avoid damage.

7.4 Silencer

Acoustic baffles are basically maintenance-free. They must be checked for damage within major maintenance work and shall be replaced or properly repaired, if required.

7.5 Maintenance plan

The maintenance intervals specified in **Table 7** are based on empirical values for normal operating conditions. They are designed for continuous operation (24 hours / day) in moderate temperate climates and low dust areas, e.g. in offices or shopping malls. Widely differing operating conditions, particularly with respect to air temperature, humidity and dust can significantly shorten the intervals.

Ch = Check, Cl = Clean, M = Maintenance

Component	Action	Section	if necessary	daily	¼-yearly	½-yearly	yearly	every 2 years	Reference chapter
Housing	Ch / Cl	Housing inside and outside	X				X		
Air inlet / air blow out hood	Ch / Cl	Air inlet and air blow out hood		X					
Filter components	Ch / Cl / M	Pre-filter F9 / ePM1 85% (ISO 16890)	X				X		7.3.1 Pre-filter F9 / ePM1 85% (ISO 16890)
	Ch / Cl / M	HEPA filter H 13 (optionally H 14) (EN 1822:2019)	X					X	7.3.2 HEPA filter H 13 (optionally H 14) (EN 1822:2019)

Table 7: Maintenance plan

8 Disposal

The operator is responsible for the disposal of the shipment (packing material), operation (filters, tools, spare parts etc.), and for the disposal of the AHU itself. The disposal of the material must be done by qualified technicians according to the international, national and local regulations.

A standard AHU consists of 95 % recyclable metallic materials:

Components (examples)	Material	CER / EWC European Waste Code
Casing panels, built-in components, base frames	VZ and VZB sheet metal	170405
	Aluminum	170402
Copper cable	Copper cable	170411
Casing insulation	Mineral wool	170604
Air filter	Plastic, metal	150106
	Filters which have caught toxic and / or pathogenic pollutants must be disposed of as chemical waste. National rules and regulations apply.	
Insulation profile	Plastic	150102
Sealing tape		
Piping		
EC – motor	Guidelines for the disassembly and instructions for the disposal can be found in the appropriate previous chapters of this instruction manual or on the homepage of the manufacturers. Detailed information of the manufacturer can be found on the component.	
Electronic components		

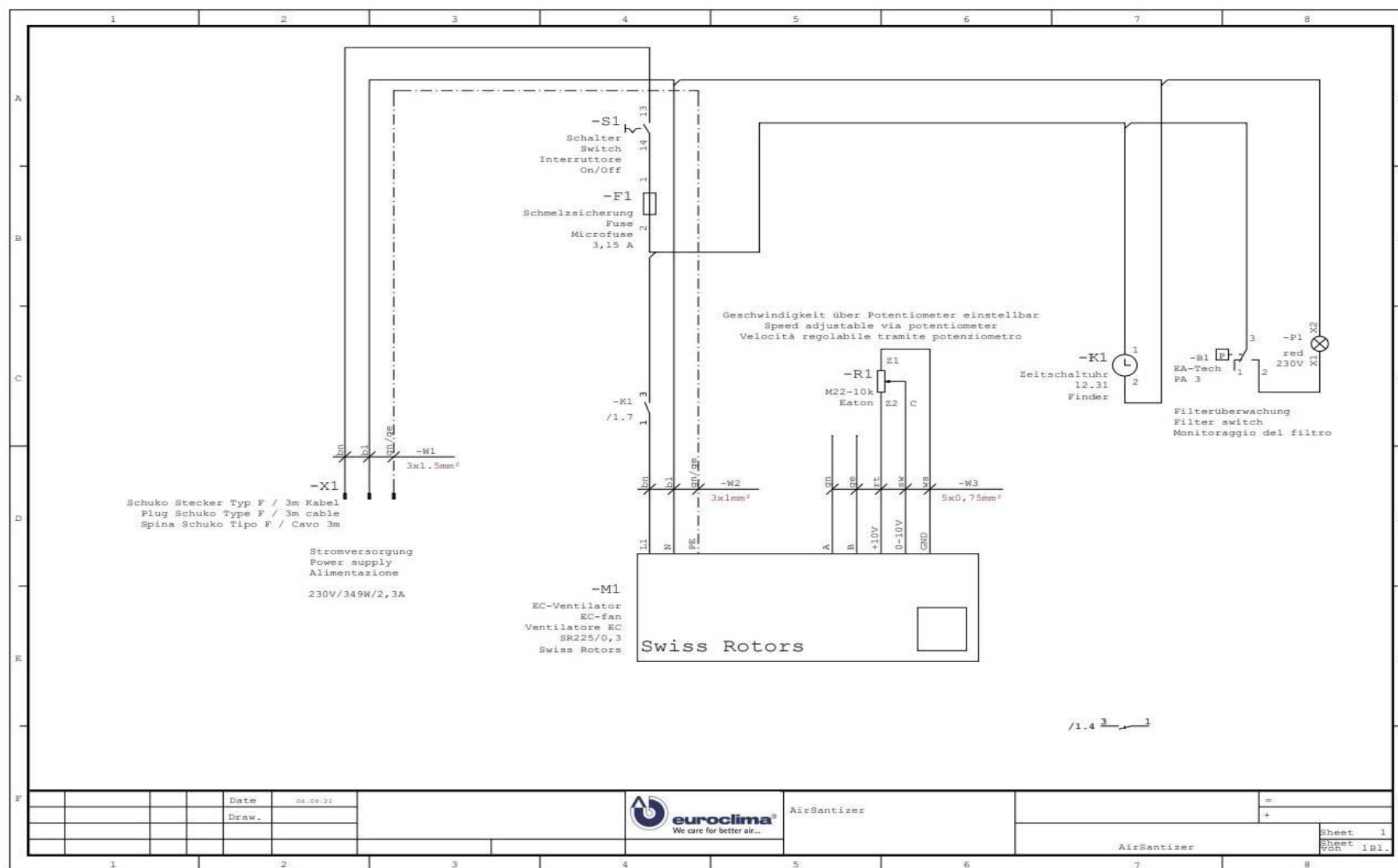
Table 8: Information for disposal

Electrical and electronic components



Electrical and electronic components can contain substances that are hazardous to health and environment. These must not be disposed of in domestic or commercial waste. Furthermore, electrical and electronic components may contain valuable materials (e.g. precious metals). They must therefore be handed over for recycling or disposal to a specialist disposal company for electrical and electronic equipment.

9 Circuit diagram



10 Declaration of conformity

10.1 Declaration of conformity S-Version



**Declaration of conformity in accordance to directive 2006/42/EC
 EG-Konformitätserklärung nach EG-Richtlinie 2006/42/EG
 Dichiarazione di conformità secondo direttiva 2006/42/CE**

Manufacturer Hersteller Fabbricante	Euroclima AG St. Lorenzner Str. 36 39031 BRUNECK / ITALY	Responsible for documentation Dokumentationsverantwortlicher Responsabile per la documentazione	Veit Kraker
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Product designation Produktbeschreibung Descrizione prodotto	Air purifier Luftreiniger Purificatore d'aria	Type Type Tipo	S-Version S-Version Versione S	Commercial designation Handelsbezeichnung Denominazione commerciale	AirSanitizer AirSanitizer AirSanitizer
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<p>Herewith we confirm, that the mentioned machine as in concept and type, as in design of the model we bring into the market, complies with the fundamental health - and safety demands of the EC-machinery directive.</p> <p>Any modification of the machine without our confirmation results in the invalidity of the present declaration.</p>	<p>Hiermit erklären wir, dass die bezeichnete Maschine auf Grund Ihrer Konzipierung u. Bauart sowie in der von uns in den Verkehr gebrachten Ausführung den einschlägigen grundlegenden Sicherheits- u. Gesundheitsanforderungen der EG-Maschinenrichtlinie entspricht.</p> <p>Bei einer nicht mit uns abgestimmten Änderung der Maschine verliert diese Erklärung ihre Gültigkeit.</p>	<p>Con questa dichiariamo che la macchina di seguito descritta è conforme ai requisiti essenziali di sicurezza e sanitari secondo la direttiva macchine.</p> <p>Se la macchina viene modificata senza la nostra autorizzazione scritta questa dichiarazione perde la sua validità.</p>
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Applied harmonized directive: <ul style="list-style-type: none"> 2014/30/EU: "Electromagnetic compatibility directive" 	Angewendete harmonisierte Richtlinie: <ul style="list-style-type: none"> 2014/30/EC: "Richtlinie über die Elektromagnetische Verträglichkeit" 	Direttiva armonizzata utilizzata: <ul style="list-style-type: none"> 2014/30/EC "Direttiva compatibilità elettromagnetica"
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Applied harmonized standards: <ul style="list-style-type: none"> DIN EN ISO 12100:2011-3: "Safety of machinery – General principles for design – Risk assessment and risk reduction" EN 60204-1:2006: "Safety of machinery - Electrical equipment of machines - General requirements" 	Angewendete harmonisierte Normen: <ul style="list-style-type: none"> DIN EN ISO 12100:2011-3: "Sicherheit von Maschinen- Allgemeine Gestaltungsgrundsätze – Risikobeurteilung und Risikominimierung" EN 60204-1:2006: "Sicherheit von Maschinen - Elektrische Ausrüstung von Maschinen - Allgemeine Anforderungen" 	Norme armonizzate utilizzate: <ul style="list-style-type: none"> DIN EN ISO 12100:2011-3: "Sicurezza del macchinario – Principi generali di progettazione – Valutazione del rischio e riduzione del rischio" EN 60204-1:2006: "Sicurezza del macchinario – Equipaggiamento elettrico delle macchine – Regole generali"
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Technical Director of Manufacturer
 Technischer Direktor des Herstellers
 Direttore Tecnico del Fabbricante

Dipl. - Ing. Bernward Ruegenberg



2020-12-18

Date | Datum | Data

Signature | Unterschrift | Firma

10.2 Declaration of conformity M-Version



**Declaration of conformity in accordance to directive 2006/42/EC
 EG-Konformitätserklärung nach EG-Richtlinie 2006/42/EG
 Dichiarazione di conformità secondo direttiva 2006/42/CE**

Manufacturer Hersteller Fabbrikante	Euroclima AG St. Lorenzner Str. 36 39031 BRUNECK / ITALY	Responsible for documentation Dokumentationsverantwortlicher Responsabile per la documentazione	Veit Kraker
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Product designation	Air purifier	Type	M-Version	Commercial designation	AirSanitizer
Produktbeschreibung	Luftreiniger	Type	M-Version	Handelsbezeichnung	AirSanitizer
Descrizione prodotto	Purificatore d'aria	Tipo	Versione M	Denominazione commerciale	AirSanitizer

<p>Herewith we confirm, that the mentioned machine as in concept and type, as in design of the model we bring into the market, complies with the fundamental health - and safety demands of the EC-machinery directive.</p> <p>Any modification of the machine without our confirmation results in the invalidity of the present declaration.</p>	<p>Hiermit erklären wir, dass die bezeichnete Maschine auf Grund Ihrer Konzipierung u. Bauart sowie in der von uns in den Verkehr gebrachten Ausführung den einschlägigen grundlegenden Sicherheits- u. Gesundheitsanforderungen der EG-Maschinenrichtlinie entspricht.</p> <p>Bei einer nicht mit uns abgestimmten Änderung der Maschine verliert diese Erklärung ihre Gültigkeit.</p>	<p>Con questa dichiariamo che la macchina di seguito descritta è conforme ai requisiti essenziali di sicurezza e sanitari secondo la direttiva macchine.</p> <p>Se la macchina viene modificata senza la nostra autorizzazione scritta questa dichiarazione perde la sua validità.</p>
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Applied harmonized directive: <ul style="list-style-type: none"> 2014/30/EU: "Electromagnetic compatibility directive" 	Angewendete harmonisierte Richtlinie: <ul style="list-style-type: none"> 2014/30/EC: "Richtlinie über die Elektromagnetische Verträglichkeit" 	Direttiva armonizzata utilizzata: <ul style="list-style-type: none"> 2014/30/EC "Direttiva compatibilità elettromagnetica"
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Technical Director of Manufacturer
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2020-12-18

Date | Datum | Data

Signature | Unterschrift | Firma

11 Nameplate

11.1 Nameplate S-Version





Typenschild Nameplate Targa di identificazione			TYP: AirSanitizer MODEL: S-Version	
Order n.		Year 2021		
Drawing n.		User manual 		
Nominal air flow	1000 m³/h			
Weight	135 kg			
Electrical connection	L+N+PE 230V AC-50/60 Hz			
Nominal power	104 W		Final check 	
Required socket fuse	16 A			
 Euroclima AG St. Lorenzner Str. 36 39031 Bruneck / ITALY				
ET 225-0				

Figure 17: Nameplate S-Version

11.2 Nameplate M-Version





Typenschild Nameplate Targa di identificazione			TYP: AirSanitizer MODEL: M-Version	
Order n.:		Year 2021		
Drawing n.		User manual 		
Nominal air flow	1500 m³/h			
Weight	175 kg			
Electrical connection	L+N+PE 230V AC-50/60 Hz			
Nominal power	206 W		Final check 	
Required socket fuse	16 A			
 Euroclima AG St. Lorenzner Str. 36 39031 Bruneck / ITALY				
ET 225-0				

Figure 18: Nameplate M-Version

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Notes:

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