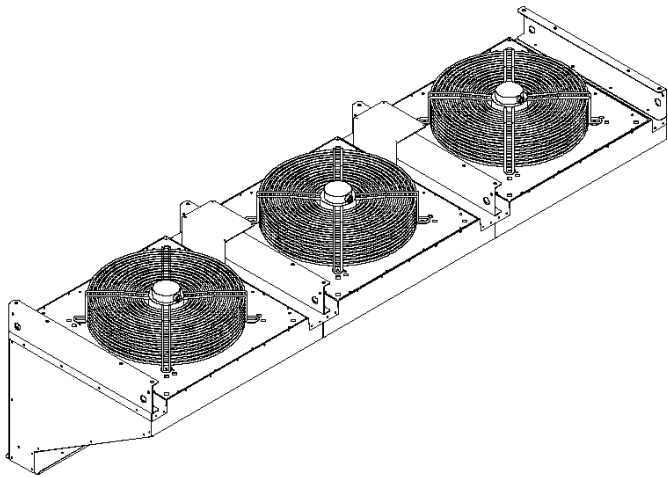


mark®

building climate technology

EN

EASYAIR T200
0662622_EN_V1.0



Read the safety instructions carefully and ensure that you fully understand them. Incorrect installation and handling can lead to injury and damage.

READ THESE INSTRUCTIONS CAREFULLY & KEEP THEM FOR FUTURE USE



Thank you for purchasing this Mark EasyAir T200. Please read this manual carefully; it contains important information for the safety of users and the environment. Keep the manual with the EasyAir T200 for future reference.

GENERAL WARNINGS



Incorrectly performed installation, adjustment, modification, repair, or maintenance may result in property damage, injury, or environmental damage. All work must be performed by approved, qualified professionals in accordance with national and international guidelines. The warranty is void in the event of incorrect installation, adjustment, modification, maintenance, or repair. This device is not intended for use by persons (including children) with reduced physical or mental capabilities, or a lack of experience and knowledge, unless they are supervised or instructed on the use of the device by a person responsible for their safety.



This is not suitable for domestic or similar use and may only be installed by certified electricians. Placement in large garages may be possible, provided it is permitted by local laws and regulations. Check if this device is suitable for your situation.

USER WARNINGS



This device is not intended for use by children. Children who are near the device must be supervised to ensure that they do not play with the device.



Do not disassemble. There are no internal parts that can be serviced by the user.

READING GUIDE



The safety instructions have been incorporated into the manual where applicable, with references to other chapters where necessary. The designations below are used by the document; review them here to understand their purpose and look out for them in the manual.

NOTICE! These markings indicate necessary actions for the safe and smooth operation of the EasyAir T200, and help prevent complications and minor injuries.

CAUTION! Notices such as these are intended to inform the reader that there are hazards that need to be addressed; these can pose a risk to users or the environment.

! STEP Indications such as these are used to indicate warnings that are of particular importance regarding an action. This warning has already been given in the (sub)chapter.

QUALIFIED USERS

The must be installed, maintained, and removed by an installer qualified for these tasks. Safety measures are required for these activities that are important for health and the environment. The following characteristics are important when working on this installation:

- The qualified installer or technician must have sufficient knowledge of the products manufactured by Mark Climate Technology to carry out the installation safely.
- The qualified installer or technician must be authorized to work on electrical installations.
- The qualified installer or technician must be authorized to work at height.

TABLE OF CONTENTS

Warnings	3		
Table Of Contents	4	7 Maintenance	19
1 General Information	5	7.1 Maintenance Information	
1.1 The User Manual		7.2 Semi-Annual Maintenance	
1.2 The Product		7.3 Annual Maintenance	
1.3 Adjustments		8 Uninstall	20
2 Technical Specifications	6	9 Electrical Diagrams	21
2.1 General Specifications			
2.2 Specifications Of The T200		Contact Information	28
3 Safety Instructions	9		
3.1 End Users			
3.2 Working On The Installation			
4 Guidelines	11		
4.1 General Guidelines			
4.2 Assembly Guidelines For The T200			
5 Assemble And Install	14		
5.1 Preparations			
5.2 Assembly Of The Unit			
5.3 Electrical Installation And Control			
5.4 Commissioning			
6 Use And Operation	18		

1 GENERAL INFORMATION



Read the safety instructions carefully and ensure that you fully understand them. Incorrect installation and handling can lead to injury and damage.

THE USER MANUAL

This manual is intended as a practical aid for working with or on the EasyAir T200. It contains all the necessary information to use the device safely and correctly. Before putting it into use, it is essential to read through the manual carefully. The machine can only be operated responsibly with sufficient knowledge of its operation and the associated safety instructions.

The safety instructions included in this manual must be strictly followed by every user at all times. This is essential to ensure safety, prevent personal injury, and avoid damage to the device.

THE PRODUCT

The Easyair T200 is an industrial air curtain designed to prevent the formation of air currents between the inside and outside. The installation separates cold outside air from warm inside air in the doorway, thereby creating a comfort zone. The Easyair T200 is available in versions with 3, 4, or 5 fans, measuring 2.1m, 3m, and 3.5m respectively. Vertical mounting is optional.

The requirements of the Machinery Directive 2006/42/EC (including 91/368/EC and 93/68/EC), the LVD Directive 2014/35/EU, and the electrical NEN-EN-IEC Directive EN 60204-1 apply to the EasyAir T200. As the EasyAir T200 complies with the applicable requirements of these European directives, Mark Climate Technology has drawn up an EC Declaration of Conformity. This EC Declaration of Conformity is available upon request.

ADJUSTMENTS

Modifications to the EasyAir T200 may only be carried out by authorized and trained personnel of Mark Climate Technology, and only on the basis of a valid and approved conversion instruction. Users or installers may not make any modifications to the installation without the approval of Mark Climate Technologies. This is of crucial importance to ensure the safe operation, warranty conditions, and technical integrity of the system. Unauthorized modifications may lead to malfunctions, safety risks, and the voiding of the manufacturer's warranty.

Specifications and the composition of existing products may be changed without prior notice. Such adjustments may result from product improvements or changes in applicable regulations, such as amended EU directives. The documentation supplied with the product is tailored to the specific version and should be carefully retained for future use or as a reference.

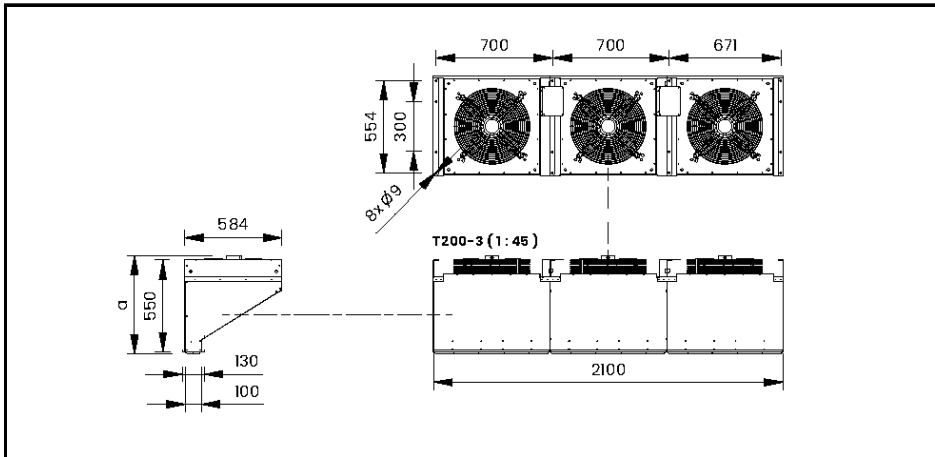
2 TECHNICAL SPECIFICATIONS

2.1 GENERAL SPECIFICATIONS

Type	1316	
Maximum room temperature	°C	40
Protection class	IP	00B

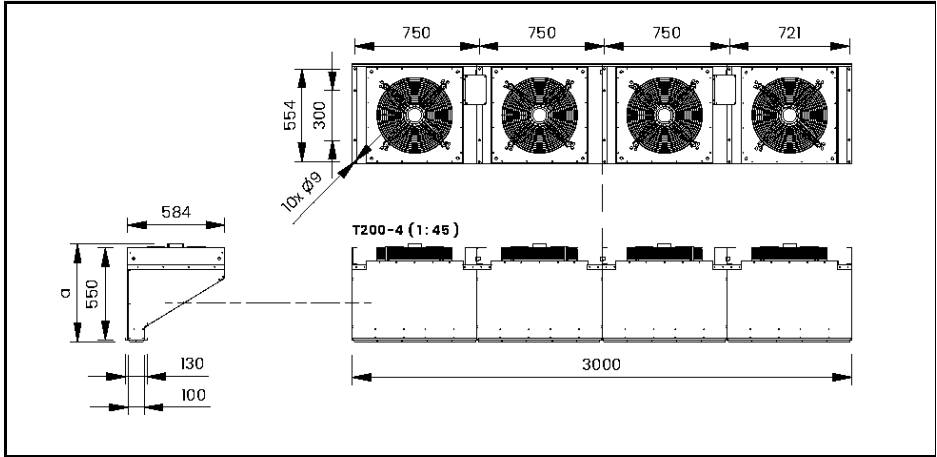
2.2 SPECIFICATIONS OF THE T200

2.2.1 DIMENSIONS OF THE T200-3



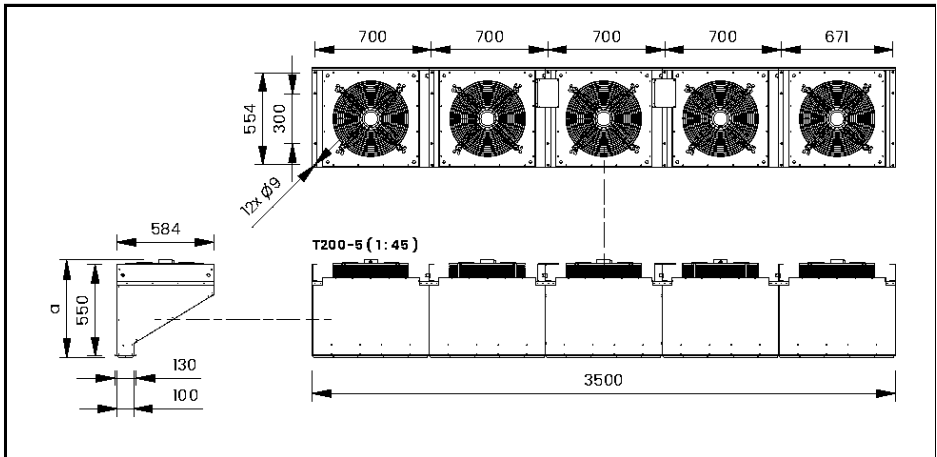
Type	T200-3 A/U	T200-3 H/L	T200-3 EC	
[a]	mm	642	642	585

2.2.2 DIMENSIONS OF THE T200-4



Type	T200-4 A/U	T200-4 H/L	T200-4 EC	
[a]	mm	642	642	585

2.2.3 DIMENSIONS OF THE T200-5



Type	T200-5 A/U	T200-5 H/L	T200-5 EC	
[a]	mm	642	642	585

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2.2.4 SPECIFICATIONS T200 AU

The EasyAir T200 in AU version can be switched on/off. In this version, an external step transformer can also be used to extend the control range. Mark Climate Technologies offers an optional 5-step transformer for this purpose.

Type		T200-3	T200-4	T200-5
Weight	kg	80	107	128
Sound level at 5m	dB(A)	62	63	64
Hanging height	m	4-8	4-8	4-8
Connection	-	3~400V+PE (50Hz)		
Maximum current	A	1.53	2.04	2.55
Nominal power	kW	0.645	0.86	1.075
Recommended pre-protection	-	B16	B16	B16
Maximum air displacement	m ³ /h	11200	14900	18650

2.2.5 SPECIFICATIONS T200 HL

The EasyAir T200 in HL version can be switched between the off, low, and high positions. In this version, switching between the fan speeds is performed as shown below.

Type		T200-3	T200-4	T200-5
Weight	kg	80	107	128
Noise level on high setting	dB(A)	62	63	64
Sound level on low setting	dB(A)	58	59	60
Hanging height	m	4-8	4-8	4-8
Connection	-	3~400V+PE (50Hz)		
Maximum current	A	1.53	2.04	2.55
Nominal power	kW	0.645	0.86	1.075
Recommended pre-protection	-	B16	B16	B16
Air displacement at high	m ³ /h	11200	14900	18650
Air displacement at low	m ³ /h	9850	13104	16401

2.2.6 SPECIFICATIONS T200 EC

The EasyAir T200 in EC version can be steplessly controlled with a 1-10 VDC control signal. The fan speed is proportionally controlled within the available control range.

Type		T200-3	T200-4	T200-5
Weight	kg	68	90	108
Sound level at 10VDC	dB(A)	62	63	64
Hanging height	m	4-8	4-8	4-8
Connection	-	1~230V+N+PE (50Hz)		
Maximum current	A	5.4	7.2	9
Maximum power	kW	1.242	1.656	2.07
Recommended pre-protection	-	B16	B16	B16
Maximum air displacement (10 VDC)	m ³ /h	11202	14936	18670

3 SAFETY INSTRUCTIONS

The EasyAir T200 is designed with maximum safety in mind, so that the risk of dangerous situations is minimized. The measures that users must take to prevent potential hazards and ensure safe operation of the system during use, installation, maintenance, and de-installation are explained below.

3.1 END USERS

These safety instructions apply to end users of the EasyAir T200. Because they generally have less technical knowledge or training than qualified personnel, it is especially important that they strictly follow these guidelines. These instructions are aimed at ensuring safe operation and minimizing risks during daily use.

3.1.1 RISKS CAUSED BY THE END USER



CAUTION! Do not cover

Do not cover any part of the installation, so that airflow remains ensured. Keep the immediate surroundings free of obstacles.



CAUTION! Do not disassemble

Do not disassemble. There are no internal parts that can be serviced by the user.

3.2 WORKING ON THE INSTALLATION

During work on the installation, the safety measures applicable to end users also apply.

3.2.1 QUALIFIED MECHANICS

Familiar with the product: Work on or with the EasyAir T200 may only be carried out by authorized personnel familiar with the operation and safe use of the system.

Familiar with the dangers: The qualified technician must have read these operating

instructions and be aware of the potential risks associated with the use of and work on the EasyAir T200.

Required competencies: Work on or with the EasyAir T200 is permitted exclusively for qualified technicians who comply with applicable laws and regulations and demonstrably possess all required authorizations, certifications, and permits, including authorization for the following activities:

- work on electrical installations.
- work at height.

3.2.2 PPE DURING WORK ACTIVITIES

For work on or with the EasyAir T200, the use of appropriate personal protective equipment is prescribed, in compliance with applicable laws and regulations and any additional local requirements. The following equipment is recommended:



Safety helmet

A safety helmet must be worn during work activities or when present in the work area, particularly when working at height.



Protective clothing

To prevent abrasions and cuts, protective clothing with long sleeves must be worn.



Safety shoes

Safety shoes with steel toes are mandatory to protect the feet against falling objects and as the first layer of protection against vehicles or internal transport.



Gloves

Suitable gloves for the work to be performed must be used, particularly when handling sharp parts or corrosive materials.



Safety glasses

To protect against flying debris, metal particles, sparks, or similar risks, safety glasses must be used during installation or maintenance work.



CAUTION! Sharp edges

Sharp edges and smooth surfaces pose various risks, including cuts and abrasions. Use the appropriate PPE.

3.2.3 RISKS DURING WORK ACTIVITIES

The following risks and associated measures are derived from a comprehensive risk analysis of the EasyAir T200. They provide insight into potential hazards during installation, maintenance, transport, and troubleshooting, and stipulate the necessary control measures to ensure the safety of personnel and third parties.



CAUTION! Transport and hoisting

Installation, maintenance, and troubleshooting of the EasyAir T200 may require work at height and transport using hoisting equipment. Ensure that only approved and safe transport, hoisting, and climbing equipment is used to minimize the risk of falling and to ensure the safety of the qualified technician.



CAUTION! Cordon off work area

The work area around EasyAir T200 must be clearly cordoned off and marked during work activities. Only authorized persons may be present within the cordoned-off area. This prevents risks to third parties and contributes to the safety of the personnel.



CAUTION! Direct contact

Contact of persons with live parts.



CAUTION! Indirect contact

Contact of persons with parts that have become energized under incorrect conditions.



CAUTION! Consequences of closure

Hazards caused by short circuits, such as the splashing of molten particles and chemical consequences of short circuits or overloads. Use appropriate PPE.

4 GUIDELINES

The EasyAir T200 has been developed with clear guidelines to ensure correct, efficient, and safe application. The provisions and recommendations that must be followed during placement, installation, use, and maintenance are explained below. Adhering to these guidelines contributes to the optimal operation of the system and prevents unnecessary risks or damage.

4.1 GENERAL GUIDELINES

Below are the general guidelines that apply to the entire installation.



Not for households

The EasyAir T200 is not suitable for domestic or similar use. Check if this device is suitable for your situation.



Voltage disconnect switch optional

The EasyAir T200 is supplied without a voltage disconnect switch, such as a disconnect switch. This must be present during installation or be supplied separately.

NOTICE! Dust and pollution

The installation environment must be free of excessive dust and dirt. Accumulation of these can lead to blockage, reduced performance, or temperature damage to the system.

NOTICE! Humidity

The relative humidity around the installation must range between 0% and 90%, without condensation forming. This prevents moisture damage to electronic and mechanical components.

NOTICE! Exposure to chemicals

Avoid installation in locations where the system may be exposed to oils, corrosive chemicals, or harmful gases to prevent damage to components.

Available for maintenance: Sufficient space must be left for access during maintenance and service. Take into account the minimum perimeter distances as described in this chapter.



CAUTION! Load capacity of fasteners

Check that all weight-bearing fastening materials have sufficient load-bearing capacity to safely support the weight of the EasyAir T200. This ensures the safety and stability of the installation.



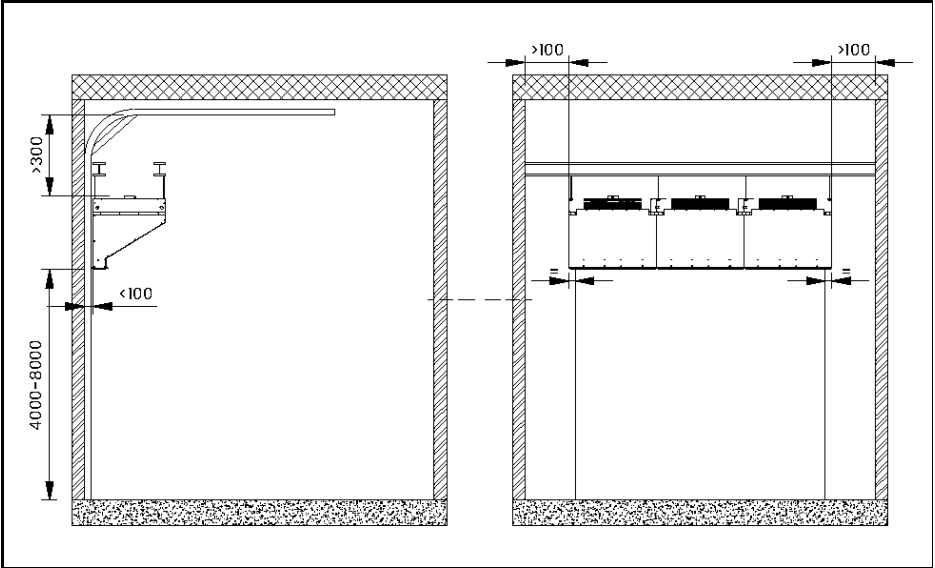
CAUTION! Proper orientation

The EasyAir T200 must not be placed upside down. Pay attention to the correct orientation.

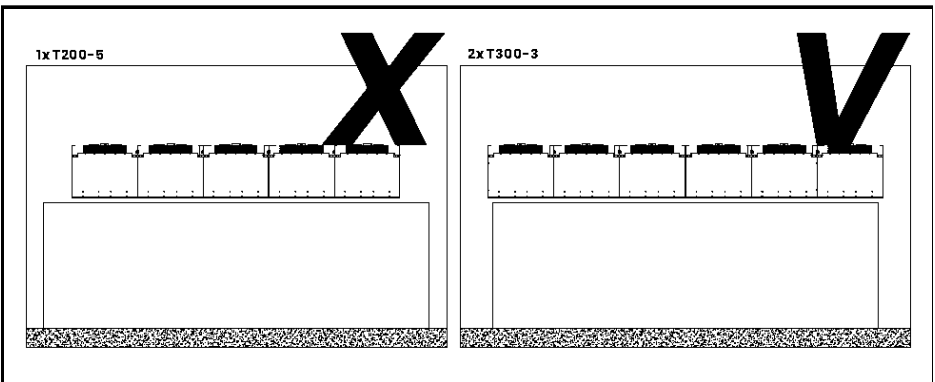
4.2 ASSEMBLY GUIDELINES FOR THE T200

4.2.1 GUIDELINES FOR SUSPENSION POINTS

For optimal operation of the air curtain, the EasyAir T200 should be positioned with the discharge opening as close as possible to the doorway. Take into account the minimum required distance for the fans and ensure that the construction does not obstruct any moving parts of the door.

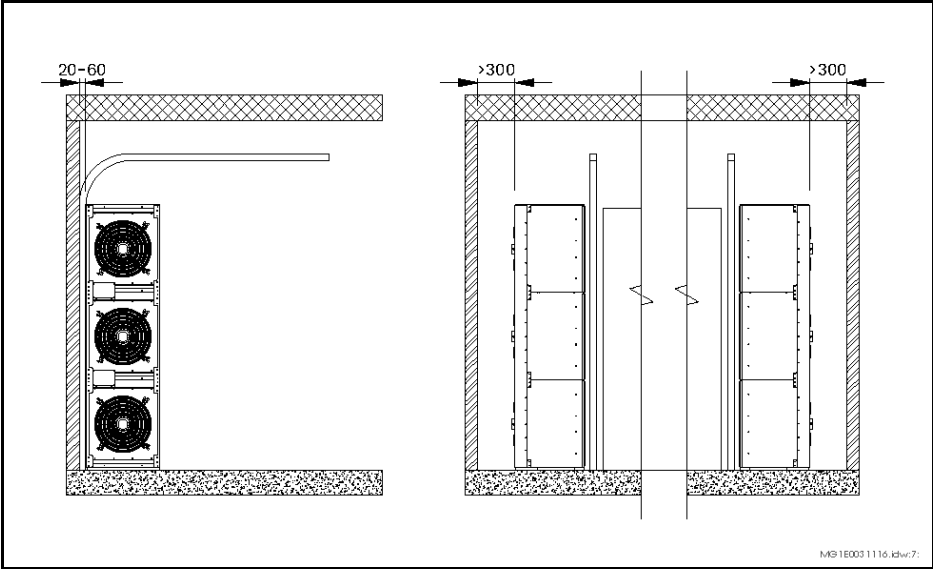


The width of the doorway determines the required number of products. An overhang is permitted, but an interruption or corner piece negatively affects the effectiveness of the EasyAir T200. Only M8 mounting material is required for coupling.



4.2.2 GUIDELINES FOR VERTICAL MOUNTING

The EasyAir T200 can also be mounted vertically. This may be necessary when there is insufficient space available above the doorway, or when the door width or height requires it. For vertical mounting, the EasyAir T200 is placed next to the doorway so that the airflow is distributed over the full height of the opening. Position the unit so that the airflow is not obstructed and the passage remains clear. For optimal operation and maximum comfort, it is recommended to install an air curtain on both sides of the doorway.



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5 ASSEMBLE AND INSTALL

This chapter describes the steps required to correctly assemble, install, and commission the EasyAir T200.

5.1 PREPARATIONS

CAUTION! The steps below contain important safety warnings and recommendations. Read these carefully before starting the installation.

5.1.1 RECEPTION

The following steps are not mandatory, but can prevent complications. Please take this into account upon receiving the system:

STEP 1 Leave in packaging

Leave the EasyAir T200 in the original packaging for as long as possible for safe transport and lifting operations.

STEP 2 Check for damage

Carefully inspect the device for visible damage that occurred during or before delivery. Document any damage and submit a written report to the carrier.

STEP 3 Check order

Verify whether the model and specifications match the placed order. Keep all technical manuals for future use.

STEP 4 Storage until required

The EasyAir T200 must be stored in a dry, covered area until the time of installation. Additionally, the surface must be level and clean.

5.1.2 BEFORE START INSTALLATION

CAUTION! STEP 1 Read the risks

Consult Chapter 3 for an overview of all installation-related risks. Take these risks into account.

STEP 2 Preparing the workshop

Ensure that the assembly site is properly prepared. The area must be clean, safe, and free of obstacles.

STEP 3 Consult specifications

The specifications must be consulted for assembly. Check that all load-bearing parts have sufficient load-bearing capacity and that the structure, fasteners, and attachment points are suitable for the weight and load of the EasyAir T200.

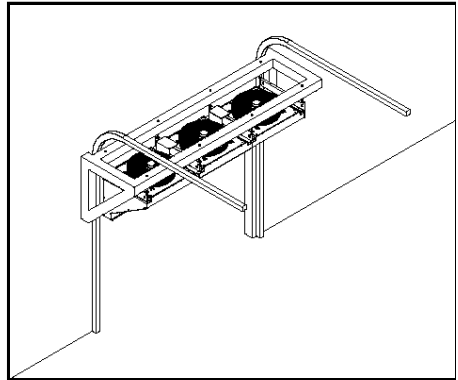
5.2 ASSEMBLY OF THE UNIT



NOTICE! Securing mounting material

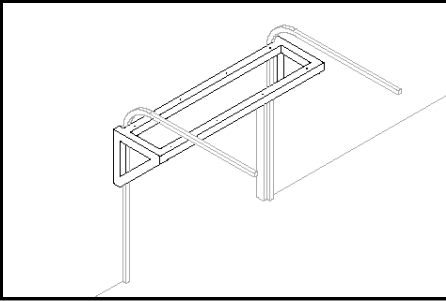
During assembly, pay attention to securing all mounting materials. Use the correct tools and methods.

5.2.1 MOUNT TO THE SUSPENSION POINTS

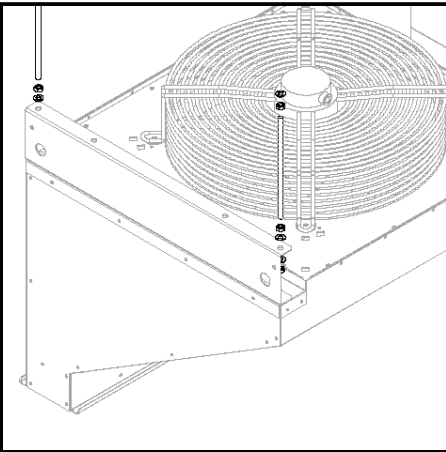


The EasyAir T200 can be mounted to the designated suspension points. Attach the EasyAir T200 exclusively to a solid and sufficiently load-bearing structure or ceiling.

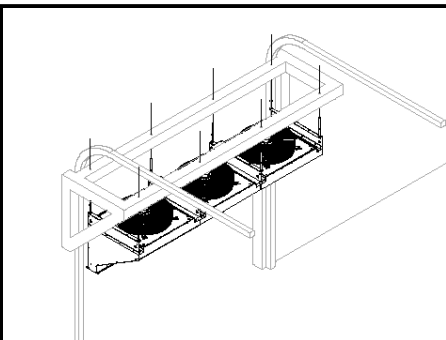
The supporting structure must be suitable for the total weight of the EasyAir T200. The steel structure shown in this manual serves solely as an example and must not be used as a starting point for the final execution.



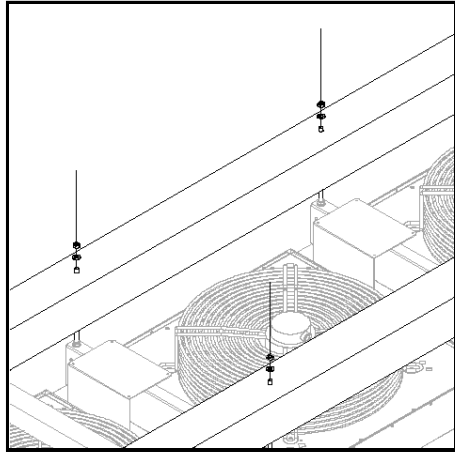
STEP 1 Mount the mounting material to the suspension bracket of the EasyAir T200, for example M8 threaded rods. There are 2 suspension points per bracket.



STEP 2 Hoist or lift the EasyAir T200 to the correct position for mounting to the supporting structure.

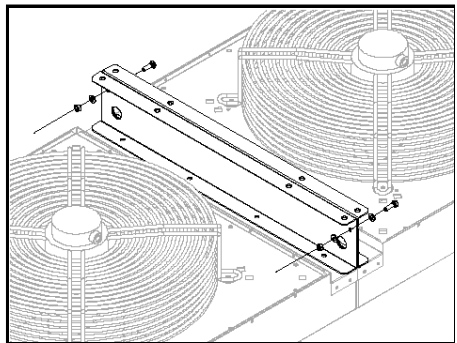


STEP 3 Attach the EasyAir T200 to the supporting structure and secure all connections.



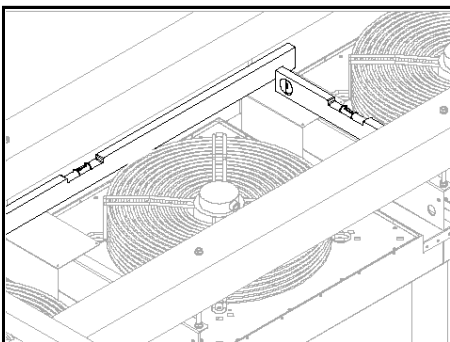
STEP 4 Let the EasyAir T200 hang freely. Check that it hangs completely freely and does not touch anything or hang loose.

STEP 5 To connect multiple units, the suspension profiles can be attached to each other using M8 mounting material.

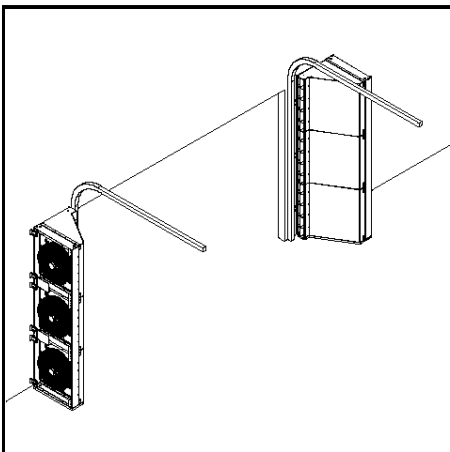


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- STEP 6** Ensure that the EasyAir T200 hangs level; use the mounting material to adjust.

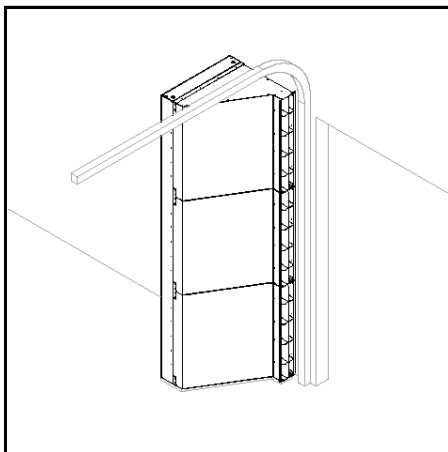


5.2.2 MOUNT VERTICALLY

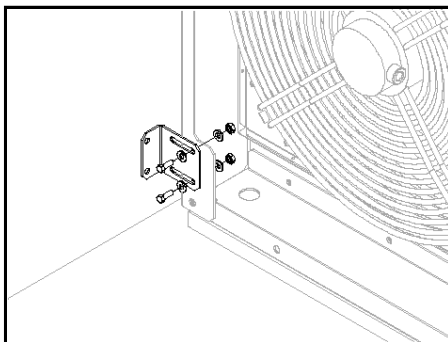


For very wide doorways or limited installation height, the EasyAir T200 can be used in the vertical version. This version is additionally reinforced compared to the horizontal model and is supplied with wall brackets as standard. Depending on the installation situation, an additional support structure may be required.

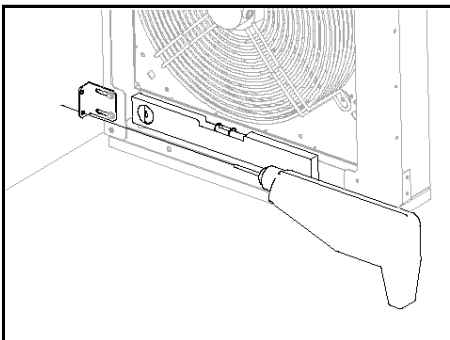
- STEP 1** Place the EasyAir T200 in the desired position. A base plate can be used to keep the EasyAir T200 off the ground.



- STEP 2** Mount the wall brackets on the fan side of the EasyAir T200. Do not tighten them fully yet.

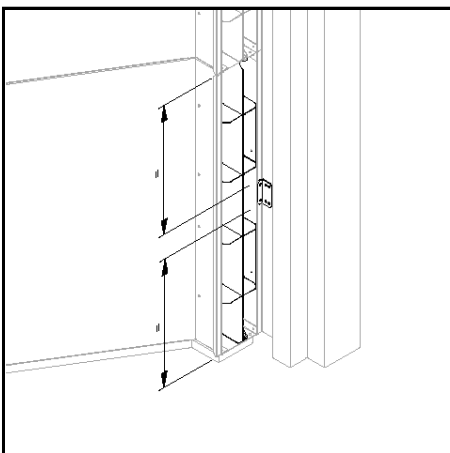


- STEP 3** Use the bracket as a reference to determine the drilling positions on the wall. Ensure that the EasyAir T200 is level.



- STEP 4** Attach the brackets to the wall. Regularly check that the EasyAir T200 remains level.

- STEP 5** Mount the wall brackets on the output side of the EasyAir T200 in the middle of each segment.



- STEP 6** The bracket must not obstruct the airflow. Measure the required length from the wall and shorten the bracket if necessary.

- STEP 7** Use the bracket as a reference to determine the drilling positions on the

wall. Ensure that the EasyAir T200 is level.

- STEP 8** Attach the brackets to the wall and to the outlet side of the EasyAir T200. Use self-tapping screws for attachment to the EasyAir T200 and suitable wall mounting hardware.

5.3 ELECTRICAL INSTALLATION AND CONTROL

The electrical installation must comply with applicable local laws and regulations and relevant standards. All cabling, connections, and protection devices must be executed correctly to ensure safe and reliable operation of the EasyAir T200.

5.3.1 ENSURE SAFETY OF THE INSTALLATION

! STEP 1 Switch off the main distributor

Switch off the main power supply and check if the distribution box is completely de-energized.

! STEP 2 Lockout/tagout

The correct procedures must be applied to ensure de-energization, including the application of warning labels and/or the locking of switches (lockout/tagout).

! STEP 3 Check with a voltmeter

Use a voltage tester to check for any residual voltage.

5.3.2 PREPARING AND LAYING POWER CABLES

! STEP 1 Ensure adequate cables

Use cables with a suitable diameter, matched to the installation capacity and cable length, and suitable for the applicable environmental conditions and local laws and regulations.

5.3.3 CONTROL AND COMMUNICATION

STEP 1 Signal and communication cabling

Lay signal, communication, and any network cables in accordance with the chosen electrical diagram.

6 USE AND OPERATION

6.1 TURNING ON AND OFF

CAUTION! The operation described in this chapter does not de-energize the EasyAir T200. Additional steps are required to take it out of service.

CAUTION! The user must be aware of the dangers and risks that may arise with the use of the EasyAir T200.

6.2 STOP IN EMERGENCY

In the event of an emergency or calamity, immediately switch off the EasyAir T200 and disconnect the power; this will disable all hazardous functions. It is advised to be familiar with the contents of this subchapter.

STEP 1 De-energize

Remove the power from the EasyAir T200, for example via the disconnect switch or by switching off the circuit breaker.

STEP 2 Remedy the cause of the emergency

Remove the cause of the emergency situation. Discontinue use of the EasyAir T200 if the cause cannot be completely remedied.

STEP 3 Putting into operation

A qualified user (see chapter 3.2.1) may perform the installation commissioning steps to switch the EasyAir T200 back on; these can be found in chapter 5.4. Take into account the risks of working on the installation, which can be found in chapter 3.2.2.

6.3 CONTROL OPTIONS FOR THE T200

6.3.1 AUTONOMOUS ON/OFF SWITCHING

The EasyAir T200 can be operated with a switch in-house and on-site. This switch must comply with the requirements in the electrical diagrams.

6.3.2 OPTIONAL 5-POSITION SWITCH

A 5-position switch can be used to operate the EasyAir T200 in different positions. For this, the EasyAir T200 must be equipped with the correct connection.

With this control method, a door contact can be used for switching; these are not supplied by Mark.

6.3.3 OPTIONAL HIGH/LOW/OFF SWITCH

A high/low/off switch can be used to operate the EasyAir T200 in different speeds. The EasyAir T200 must be equipped with the correct connection for this purpose.

With this control method, a door contact can be used for switching; these are not supplied by Mark.

7 MAINTENANCE

This chapter provides guidelines for the maintenance and inspection of the installation. Always follow the established maintenance and inspection schedule to ensure the safe, efficient, and long-term operation of the system.

CAUTION! Consult Chapter 3 and always wear suitable PPE. Strictly follow the safety instructions to prevent injury or damage.

7.1 MAINTENANCE INFORMATION

7.1.1 MAINTENANCE INTERVALS

The maintenance interval for the EasyAir T200 depends on the installation environment. Below is an overview of minimum maintenance, followed by a detailed list of tasks.

Semi-annual maintenance

- Visual inspection of the EasyAir T200.
- Cleaning of the EasyAir T200.

Annual maintenance

- Visual inspection of the installation.

7.2 SEMI-ANNUAL MAINTENANCE

7.2.1 VISUAL INSPECTION OF THE EASYAIR T200.

A periodic visual inspection helps to detect wear, damage, or contamination early and prevent problems. Check whether the installation is free of damage, loose components, and contaminants. If necessary, take appropriate corrective measures.

STEP 1 General visual inspection

Perform a thorough inspection of the EasyAir T200. Look for signs of damage, corrosion, deformation, or other irregularities. Do not use the installation if defects are found, and contact a qualified technician immediately.

STEP 2 Checking fastening material

Check that all fasteners are securely tightened and that there are no signs of wear or loosening. Tighten the fasteners if necessary. Record this action in the maintenance logbook. If this proves to be necessary repeatedly, structural or preventive measures should be considered.

7.2.2 CLEANING OF THE UNIT

CAUTION! Keep the EasyAir T200 clean for safe operation and optimal service life. Clean regularly and adjust the maintenance schedule in heavily soiled environments.

STEP 1 Clean with a soft, dry cloth

Use a clean, soft, and dry cloth to wipe down the exterior of the unit. Avoid using harsh cleaning agents or mechanical cleaning devices, as these may cause damage to the finish or components. For stubborn dirt, a mild cleaning agent suitable for technical equipment may be used. Test this on an inconspicuous area first.

7.3 ANNUAL MAINTENANCE

7.3.1 VISUAL INSPECTION OF THE INSTALLATION

A visual inspection of the entire installation is necessary to ensure that no circumstances surrounding the EasyAir T200 have changed. This could include, for example, damage to a cable tray that is not noticeable during normal use.

STEP 1 General inspection

Perform a general inspection of the installation and cabling for damage and other hazards. If these are found, do not use the installation.

8 UNINSTALL

This chapter provides instructions for disassembling and uninstalling the EasyAir T200.

CAUTION! Consult Chapter 3 and always wear suitable PPE. Strictly follow the safety instructions to prevent injury or damage.

8.1 DECOMMISSIONING

STEP 1 De-energize

Remove the power from the EasyAir T200, for example via the disconnect switch or by switching off the circuit breaker.

8.2 DISASSEMBLY

STEP 1 Disconnect the cables

Disconnect the used power cables, data cables, and signal cables. Remove them when they are no longer needed.

STEP 2 Dismantle the EasyAir T200

Disconnect the EasyAir T200 from its support, either the wall bracket or suspension kit. Lower the unit onto a soft surface to protect it for future use.

STEP 3 Dismantle the mounting hardware

Remove used mounting material for future use or complete decommissioning. Ensure that no parts are left unsecured to prevent future risks.

8.3 PACKAGING, STORAGE, MOVEMENT AND RECYCLING

8.3.1 PACKAGING AND STORAGE

STEP 1 Cleaning

Clean and dry all components thoroughly.

STEP 2 Pack securely

Keep all components together during storage to prevent an incomplete installation later. Pack the parts as they were received to prevent damage. If possible, use silica moisture traps packed with the components to prevent possible condensation.

STEP 3 Storage until required

The EasyAir T200 must be stored in a dry, covered area until the time of installation. Additionally, the surface must be level and clean.

8.3.2 DISPOSAL AND RECYCLING



NOTICE! Electrical waste

Electrical waste products must not be disposed of with household or residual waste. Dispose of them at an electrical waste collection point.

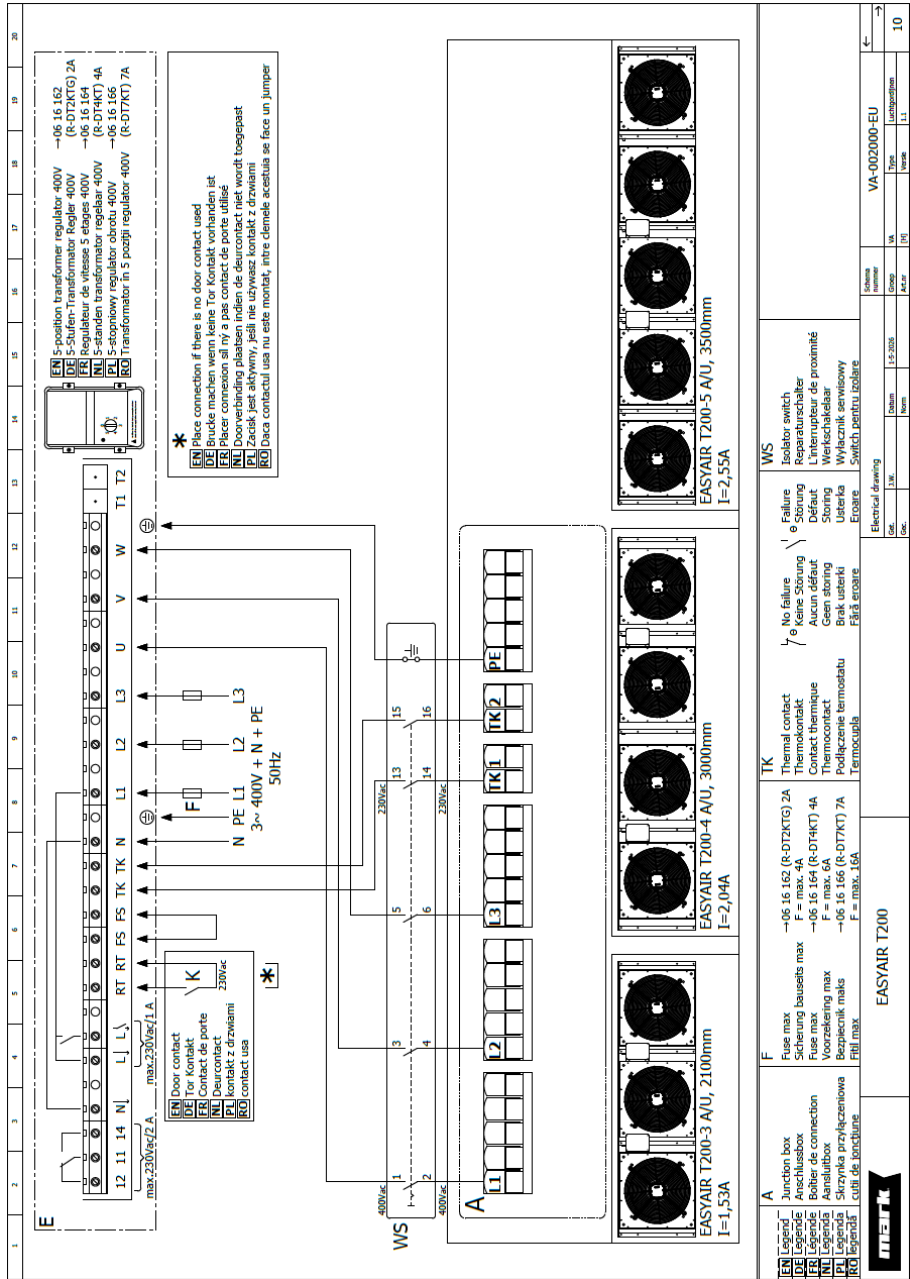


NOTICE! Contains plastics

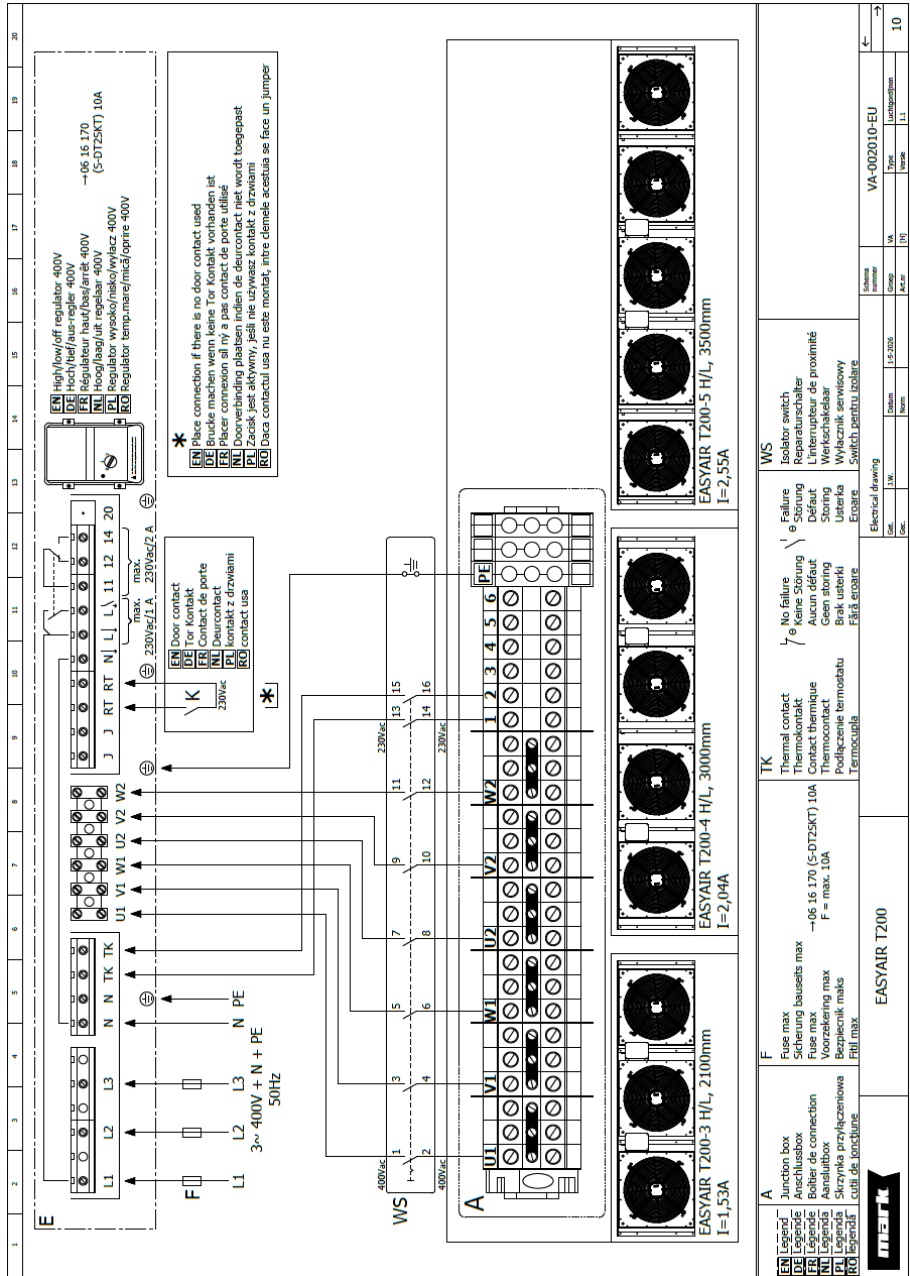
Used plastics must be separated for processing if this is required by local regulations.

9 ELECTRICAL DIAGRAMS

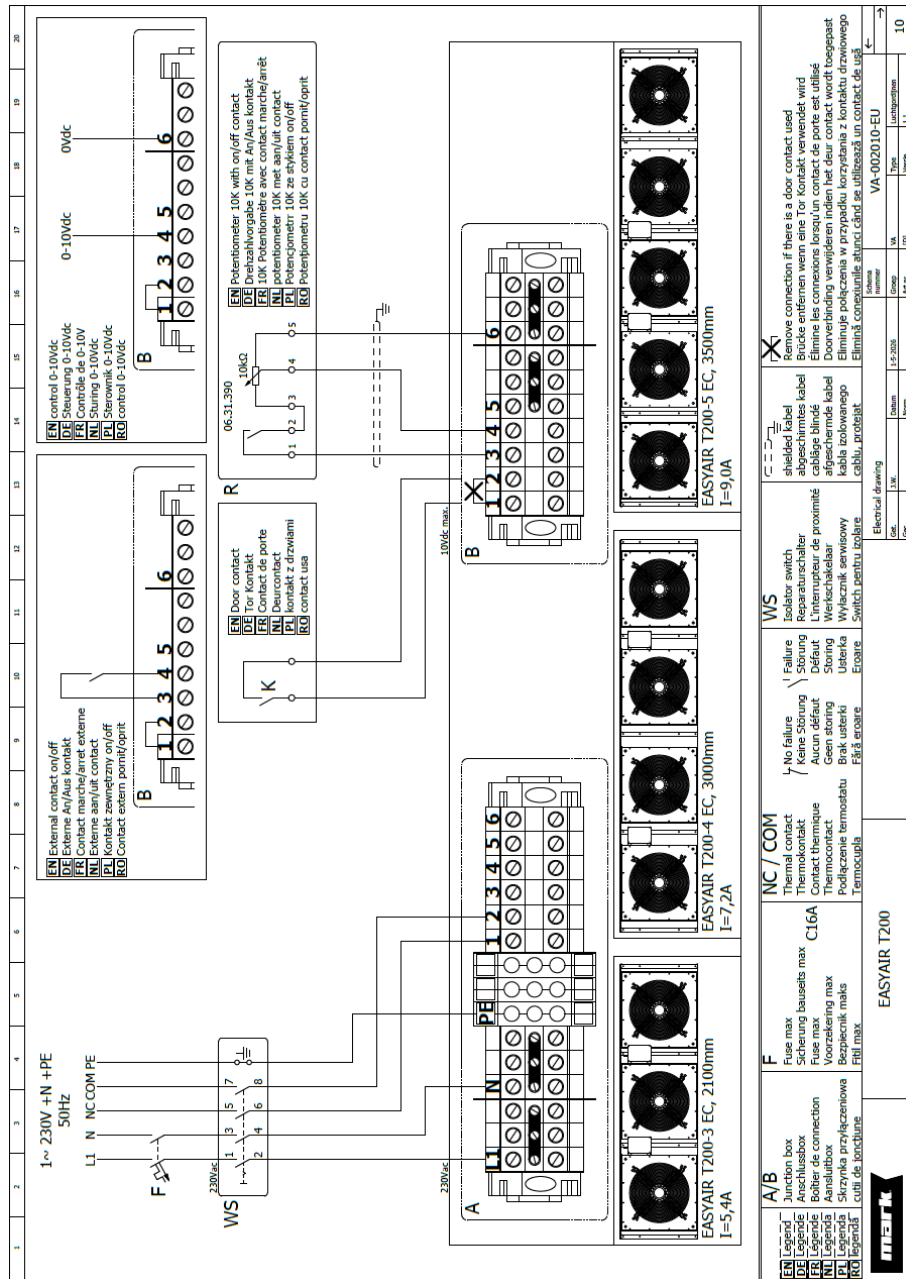
9.1 DIAGRAM FOR THE T200 IN ON/OFF OR 5-STEP SWITCHING



9.2 DIAGRAM FOR THE T200 IN HIGH/LOW SWITCHING



9.3 DIAGRAM FOR THE T200 WITH EC FAN



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