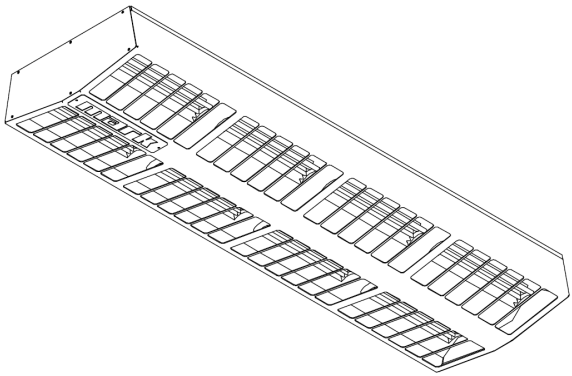
building climate technology

EN

INFRA ER 3200/3200L/6400

0661682 R01



Lees de veiligheidsinstructies zorgvuldig door en zorg ervoor dat u ze volledig begrijpt. Onjuiste installatie en handelingen kunnen leiden tot letsel en schade.

READ THESE INSTRUCTIONS CAREFULLY & KEEP FOR FUTURE REFERENCE

Thank you for purchasing this Mark Infra ER. Please read this manual carefully, as it contains important information for the safety of users and the environment. Keep this manual with the Infra ER for future reference.

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GENERAL WARNINGS

Incorrect installation, adjustment, modification, repair or maintenance may result in property damage, injury or environmental damage. All work must be carried out by approved, qualified professionals in accordance with national and international guidelines. Incorrect installation, adjustment, modification, maintenance or repair will void the warranty. This appliance is not intended for use by persons (including children) with reduced physical or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

This heater is not suitable for domestic or similar use and may only be installed by a licensed electrician. Installation in large garages may be possible if permitted by local laws and regulations. Check that this appliance is suitable for your situation. [Heights worked out.]

USER WARNINGS

The appliance becomes very hot. Do not touch the appliance during use or for an hour afterwards to ensure complete cooling.

This appliance is not intended for use by children. Children near the appliance should be supervised to ensure that they do not play with it.

Do not cover any part of the installation to prevent overheating and fire hazard. Also keep away from flammable materials and keep the immediate area free of obstacles.

Do not disassemble. There are no user serviceable parts inside.

This manual contains information important for safety and instructions for use. Keep all documentation for future use, including resale.

READING GUIDE

The safety instructions are incorporated throughout the manual where applicable, with references to other chapters where necessary. The designations below are used throughout the document, read through what they are for and keep an eye on them in the manual.

The reading indications below are used in this document to provide specific instructions:

CAUTION! Designations such as these are to inform the reader that actions are necessary to ensure that the Infra ER's operations run smoothly. These may be necessary aspects to prevent complications and minor injuries.

BEWARE! Labels such as these are there to inform the reader that there are hazards that need to be addressed that could pose a risk to users or the environment.

QUALIFIED USERS

The Infra ER must be installed, maintained and removed by an installer qualified for these tasks. These activities require safety measures that are important for health and the environment. The following properties are important when working on this installation:

- The qualified installer or technician must have sufficient knowledge of the products made 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 fitter must be authorised to work at height.

TABLE OF CONTENTS

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1 GENERAL INFORMATION

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

THE INSTRUCTIONS FOR USE

This manual is intended as a practical aid when working with or on the Infra ER. It contains all the necessary information to use the device safely and correctly. Before using it, it is essential to read the manual carefully. Only with sufficient knowledge of the operation and the associated safety instructions can the machine be used responsibly.

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

THE PRODUCT

The intended use of the Infra ER radiant heaters is to heat work and storage areas or parts thereof. Ideal for warehouses, factories and other large industrial spaces where consistent and efficient heating is required. These heaters do not have overheating safety features, please be aware of this for prolonged unattended use.

The Infra ER is subject to the requirements of the Machinery Directive 2006/42/EC, the EMC Directive 2014/30/EU and the Low Voltage Directive 2014/35/EU. Because the Infra ER complies with the applicable requirements of these European Directive(s), an EC Declaration of Conformity has been drawn up by Mark Climate Technology. The EC Declaration of Conformity is available on request.

ADJUSTMENTS

Modifications to the Infra ER may only be carried out by authorised and trained Mark Climate Technology personnel, and only on the basis of a valid and approved conversion instruction. Users or installers who are not certified by Mark Climate Technology are not authorised to make changes to the device or the installation. This is essential to ensure the safe operation, warranty conditions and technical integrity of the system. Unauthorised modifications may lead to malfunctions, safety risks and the voiding of the factory warranty.

Specifications and composition of existing products are subject to change without prior notice. Such changes may be the result of 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 reference.

2 TECHNICAL SPECIFICATIONS

2.1 GENERAL SPECIFICATIONS

2.1.1 PHYSICAL SPECIFICATIONS

Type	-	3200	3200L	6400
Dimensions of the heater (LxHxD)	mm	622 x 183 x 372	1260 x 177 x 175	1212 x 183 x 372
Weight	kg	8,5	8	17
Protection class	IP	00B	00B	00B

Table 2.1.1: Overview of the physical specifications.

DIMENSIONS OF THE INFRA ER 3200

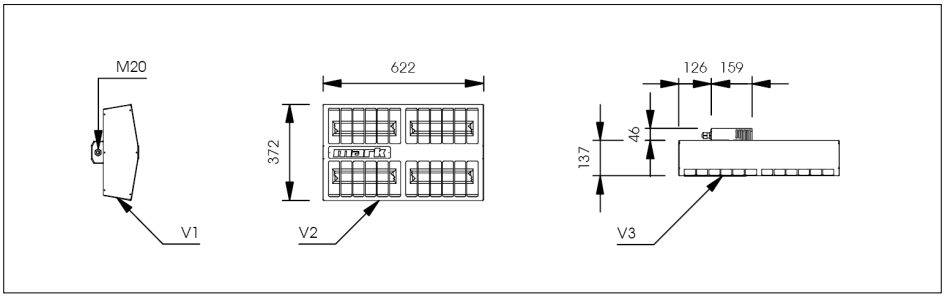

Image 2.1.1.1: Dimensions of the INFRA ER 3200. (V1: Left side view, V2: Bottom view, V3: Front view)

DIMENSIONS OF THE INFRA ER 3200L

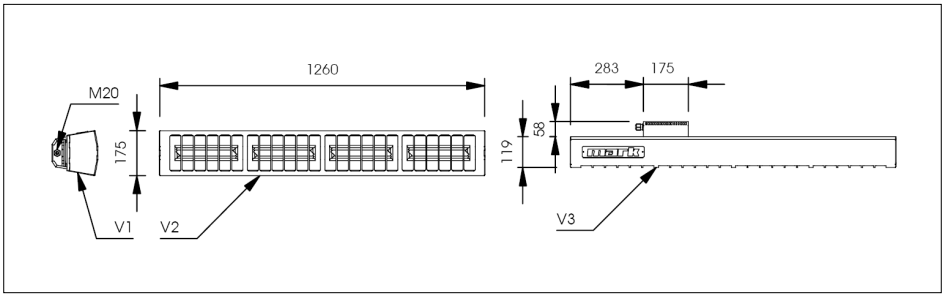

Image 2.1.1.2: Dimensions of the INFRA ER 3200L. (V1: Left side view, V2: Bottom view, V3: Front view)

DIMENSIONS OF THE INFRA ER 6400

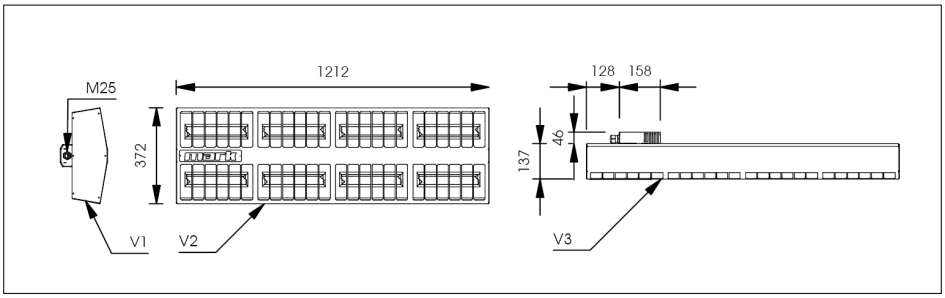

Image 2.1.1.3: Dimensions of the INFRA ER 6400. (V1: Left side view, V2: Bottom view, V3: Front view)

MOUNTING POINTS OF THE DIFFERENT MODELS

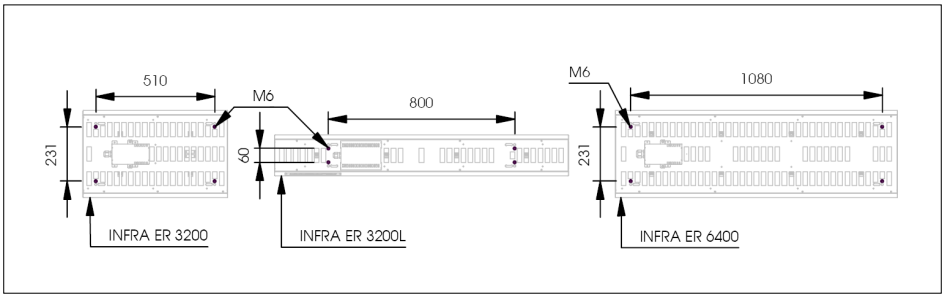

Image 2.1.1.5: Top views of all types in model with dimensions of mounting points.

2.1.2 HEATING SPECIFICATIONS

Type	-	3200	3200L	6400
Nominal power	kW	3,2	3,2	6,4
Heating settings low/high	%	50 / 100	50 / 100	62.5 / 100
Heated surface	m²	11 - 22	11 - 22	30 - 65

Table 2.1.2.1: Overview of heating specifications.

2.2 UTILITY SPECIFICATIONS

2.2.1 ELECTRICAL SPECIFICATIONS

Type	-	3200	3200L	6400
Power supply connection	-	1~230V+N+PE	1~230V+N+PE	3~400V+N+PE
Heating settings low/high	%	50 / 100	50 / 100	62.5 / 100
Maximum current draw low/high	A	7 / 13.9	7 / 13.9	10 / 16
Insurance per phase	kar-A	16B	16B	16B

Table 2.2.1.1: Overview of electrical specifications.

3 SAFETY INSTRUCTIONS

The Infra ER is designed to provide maximum safety, so that the risk of hazardous situations is reduced to a minimum. This chapter explains the measures taken to prevent potential hazards and to ensure safe operation of the system.

3.1 END USERS

This section describes the safety instructions that apply specifically to end users of the MISTRAL MDX. As they generally have less technical knowledge or training than authorised personnel, it is especially important that they follow the guidelines strictly. These instructions are designed to ensure safe operation and minimise risks during daily use.

3.1.1 RISKS TO THE END USER

BEWARE! Consequences of closure
Hazards caused by short circuits, such as splashing of molten particles and chemical effects from short circuits or overloads.

3.2 WORKING ON THE INSTALLATION

3.2.1 QUALIFIED USERS

Familiar with the product Work on or with the Infra ER may only be carried out by authorised and adequately trained personnel. These persons must be familiar with the operation, functions and correct use of the system, and must be able to correctly apply the associated safety regulations.

Familiar with the dangers: The user must be aware of the possible risks associated with the use of the Infra ER. In addition, it is important that the user takes sufficient note of this user manual. The information in this document is intended to enable safe, correct and responsible use of the system.

3.2.2 PPE DURING WORK

When working on or with the Infra ER, the use of appropriate personal protective equipment is mandatory. Observe any additional local regulations. The following equipment is required:

Safety helmet – especially when using lifting vehicles or working at heights.

Protective clothing with long sleeves – prevents cuts and abrasions.

Safety shoes with steel toes – to protect feet from falling objects.

Gloves – if possible, when handling sharp parts or materials.

Safety glasses – protect eyes from flying debris or metal particles during installation or maintenance.

3.2.3 RISKS DURING WORK

BEWARE! burns
Burns, scalds and other injuries caused by possible contact of persons with objects or materials at extremely high or low temperatures.

BEWARE! fire and explosion
Risk of fire or explosion from surrounding materials at high temperatures.

BEWARE! Direct contact
Contact of persons with live parts.

BEWARE! Indirect contact
Contact of persons with parts that have become live under incorrect conditions.

BEWARE! Consequences of closure
Hazards caused by short circuits, such as splashing of molten particles and chemical effects from short circuits or overloads.

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BEWARE! Sharp edges
Sharp edges and smooth surfaces pose various risks, including cuts and abrasions.

3.2.4 HOISTING

Approved lifting equipment Installation, maintenance and troubleshooting of the Infra ER may require working at height. Ensure that only approved and safe lifting and climbing equipment is used. This is essential to reduce the risk of falls and to ensure the safety of personnel.

Cordon off work area To prevent accidents, the work area around the Infra ER must be cordoned off. This prevents damage or injury from falling tools or parts during work.

3.2.5 TRANSPORTATION

Approved means of transport During transport, loose parts or tools can pose a risk. Ensure that the work area around the Infra ER is properly cordoned off during transport to prevent accidents.

Cordon off work area Loose parts of the installation or tools can also pose a hazard during transport. Cordon off the work area during transport.

4 GUIDELINES

The Infra ER has been developed with clear guidelines to ensure correct, efficient and safe application. This chapter explains the regulations and recommendations that must be followed during installation, use and maintenance. Compliance with these guidelines contributes to optimal operation of the system and prevents unnecessary risks or damage.

4.1 GENERAL GUIDELINES

4.1.1 RISKS FOR THE INSTALLATION

When installing the installation components, it is important to take the following risks into account:

BEWARE! Load-bearing capacity fasteners
Make sure all weight-bearing fasteners can support at least twice the weight of the Infra ER to ensure safety and stability.

CAUTION! Dust and pollution
The installation environment should be free of excessive dust and dirt. Build-up of these can lead to clogging, performance degradation or temperature damage to the system.

CAUTION! Humidity
The relative humidity around the installation may be between 0% and 90%, without condensation forming. This prevents moisture damage to electronic and mechanical components.

CAUTION! Flammable materials
The installation must be placed at a sufficient distance from flammable materials such as wood or plastics.

CAUTION! Ambient heat
Please note that ambient heat can overheat the device and cause a dangerous situation, so it should not be exposed to a high temperature heat source.

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

Sufficient ventilation: Provide adequate ventilation around the Infra ER to prevent overheating and ensure stable airflow.

plastic in radiation range: No plastic parts should be placed in the radiation range of the device. They can corrode due to prolonged exposure to heat.

BEWARE! Accessibility
The installation must be positioned in such a way that users cannot have direct contact with the device during normal use. Also take into account temporary situations such as vehicles, temporarily set up stages or platforms that can increase the reach of users.

4.1.2 INSTALLATION GUIDELINES

Available for maintenance: Sufficient space must be left for access during maintenance and service.

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4.2 GUIDELINES FOR HEATING

4.2.1 GUIDELINES FOR MOUNTING WITH SUSPENSION KIT

Below is an overview of the minimum distances that must be used with a suspension set.

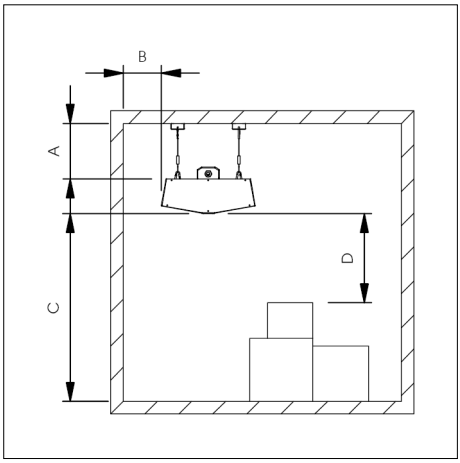

Image 4.2.1.1: Schematic view of the minimum distances of a heater with suspension set.

Type	-	3200	3200L	6400
(A)	mm	>150	>150	>150
(B)	mm	>500	>500	>500
(C)	m	3-5	3-5	4,5-7,5
(D)	m	0.8	0.7	0.8

Table 4.2.1.2: Overview of suspension set distances.

4.2.2 GUIDELINES FOR MOUNTING WITH WALL BRACKET

Below is an overview of the minimum distances that must be maintained with a wall bracket.

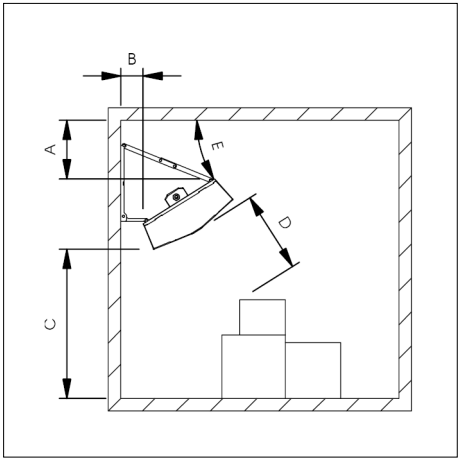

Image 4.2.2.1: Schematic view of the minimum distances of a heater with wall bracket.

Type	-	3200	3200L	6400
(A)	mm	>150	>150	>150
(B)	mm	87	40	87
(C)	m	3-5	3-5	4,5-7,5
(D)	m	0.8	0.7	0.8
(E)	°	15-45	15-45	15-45

Table 4.2.2.2: Overview of distances with a wall bracket.

5 MOUNTING AND INSTALLATION

This chapter describes the steps required to correctly assemble, install and commission the Infra ER. The process is divided into the following phases:

PHASE 1 Preparations for placement and installation.
PHASE 2 Installation and assembly of the heating system.
PHASE 3 Connecting the electrical installation and control technology.
PHASE 4 Setting up and confirming the Infra ER.
PHASE 5 Connecting the necessary utilities.
PHASE 6 Commissioning, testing and completion of the installation.
PHASE 7 Performing tests and checks, and completing the installation.

5.1 PREPARATIONS

BEWARE! The steps below contain important safety warnings and recommendations. Please read them carefully before beginning installation.

5.1.1 RECEPTION

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

STEP 1 **Leave in packaging**
Keep the Infra ER in its original packaging for as long as possible for safe transportation and lifting operations.

STEP 2 **Check for damage**
Carefully inspect the unit for any visible damage that occurred during or before delivery. Document any damage and submit a written report to the carrier.

STEP 3 **Check order**
Verify that the model, specifications and quantities correspond to the order placed. Also check that all ordered accessories are included. Keep all technical manuals for future reference.

STEP 4 **Recycle packaging - plastic, cardboard**
Recycle the packaging according to local regulations. The packaging contains only cardboard and plastic and no hazardous substances.

STEP 5 **Recycle packaging**
Recycle the packaging according to local regulations. The packaging contains only cardboard, wood and plastic and no hazardous substances.

5.2 INSTALLATION OF THE HEATING

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There are two options for hanging the Infra ER; hanging it on mounting cables and using a wall bracket. These are explained below.

5.2.1 HANGING MOUNTING

To mount the Infra ER with a suspension kit, a Gripple cable suspension kit is required in addition to the heater. Below are the mounting distances at which it must be mounted, read the manual of the suspension kit for instructions and more information. QR codes and links can be found below.

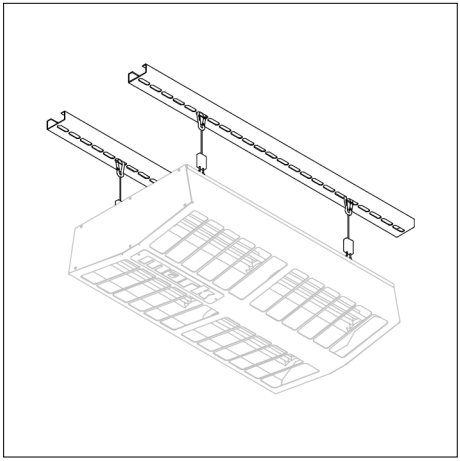

Image 5.2.1.1: Assembly overview.

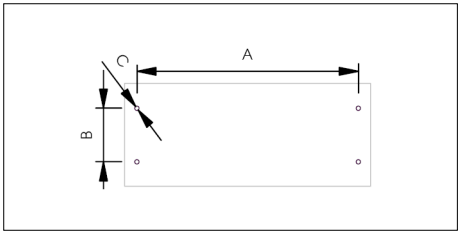

Image 5.2.1.2: Bottom view of the heating mounting location.

Type	-	3200	3200L	6400
(A)	mm	439	780	1009
(B)	mm	195	141	195
(C)	mm	>8	>8	>8

Table 5.2.1.3: Overview of the physical specifications.

5.2.2 MOUNTING WITH A WALL BRACKET

In order to mount the Infra ER with a wall bracket, in addition to the unit and the bracket itself, suitable wall mounting materials are required. These are not included, as the type of mounting material depends on the mounting location. Below are the recommended mounting distances and a schematic overview of the mounting. Please refer to the mounting manual of the wall bracket for full instructions.

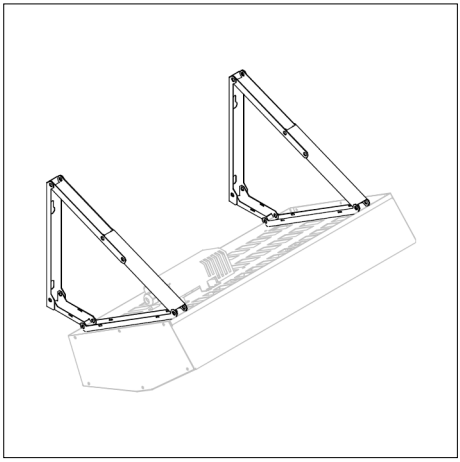

Image 5.2.2.1: Assembly overview.

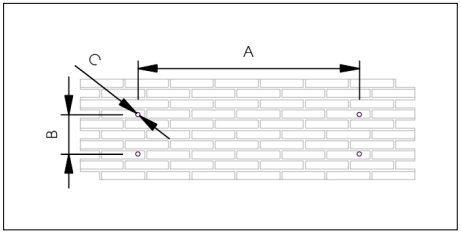

Image 5.2.2.2: Side view of the heating installation location.

Type	-	3200	3200L	6400
(A)	mm	439	780	1009
(B)	mm	195	141	195
(C)	mm	>8	>8	>8

Table 5.2.2.3: Overview of the physical specifications.

5.3 ELECTRICAL INSTALLATION AND CONTROL

5.3.1 GUARANTEE THE SAFETY OF THE INSTALLATION

STEP 1 Turn off main distributor
Switch off the main power supply and check that the distribution box is completely de-energised.

STEP 2 Lockout/tagout
Use proper procedures to ensure de-energization, including posting warning labels and/or locking out switches (lockout/tagout).

STEP 3 Check with voltage meter
Use a voltage detector to check whether there is any residual voltage.

5.3.2 PREPARING AND INSTALLING POWER CABLES

STEP 1 Provide adequate cables
Select cables with a suitable diameter, corresponding to the total power of the installation and the length of the cable route. Power cables must be resistant to environmental conditions such as moisture, UV, mechanical stress. Take into account the requirements stated in chapter 2.2.1.

STEP 2 Ensure the grounding of the installation
Ensure proper earthing of all electrical components and metal parts of the installation. Also earth metal parts that may not be directly connected to the main earthing, such as snap hooks, loose support structures, platforms or

coated parts.

5.3.3 PLACEMENT AND INSTALLATION OF THERMOSTAT

For correct regulation of the Infra ER installation a suitable thermostat is required. For this the Pintherm INFRA Connect is recommended.

STEP 1 Mount the thermostat
Securely attach the thermostat mounting plate to the selected location according to the thermostat mounting instructions.

STEP 2 Mount additional components
Mount the necessary components for the installation that are needed in addition to the thermostat. This includes a room sensor, interface boxes or communication modules, for example those of ModBus, or external temperature sensors.

5.3.4 CONTROL AND COMMUNICATION

STEP 1 Lay signal cables etc.
Lay signal cables, communication cables and any network connections according to the selected electrical plan. Observe the minimum separation distances between power and control cables to prevent malfunctions and interference. If applicable: use shielded cables for data lines and ensure correct grounding of the shielding.

5.4 COMMISSIONING

Before the installation is officially put into operation, it is essential that a structured start-up procedure is followed. The necessary steps are listed and explained below:

5.4.1 STARTING THE INSTALLATION

STEP 1 Check wiring
Check that all power and control cables are properly connected, free from damage, and are suitable for the system load. Confirm that the grounding system is functional and complies with applicable local codes and safety standards. Proper grounding is essential for protection against electrical shock and ensuring trouble-free system operation.

STEP 2 Restore the power supply
Energize the main power supply at the distribution panel, but leave any circuit breakers or fuses for specific subsystems such as heating elements (if applicable) turned off. Use a voltmeter to verify that the correct voltage is present at the power supply points.

STEP 3 Preparing the thermostat
Set the thermostat to the lowest temperature setting before activating the systems. This will prevent unwanted heating or cooling activation during initial start-up.

STEP 4 Turn on the circuit breakers
Turn on the circuit breakers for the electric heater or other subsystems. Wear appropriate personal protective equipment (PPE) during this operation.

STEP 5 Thermostat at operating temperature
Set the thermostat to the desired temperature setting, preferably above the ambient temperature, to actively switch the system. Observe the first moments of reaction of the system carefully.

STEP 6 Checking the electrical installation
Monitor the system during start-up and initial operation. Check for blown fuses, circuit breakers that keep tripping, or irregularities in consumption. Check for temperature increases in the wiring or connection points, which may indicate overload or bad connections.

STEP 7 Checking mechanical operation
Observe the system during the first few minutes of operation. Look for unusual noises, vibrations, or signs of overheating. Check that all fans, compressors, and valves are operating normally.

CAUTION! During initial use or after prolonged standstill, slight smoke development or odor formation may occur. This is normal and usually the result of dust accumulation on heating elements or in the air circulation ducts. Ventilate the room well during this process.

5.4.2 SET UP CONTROLS

Exact instructions for commissioning the thermostat can be found in the manual supplied with the thermostat.

5.4.3 COMPLETING INSTALLATION

STEP 1 **Record and document**
Record and document all connections made, referring to the electrical diagram used.

STEP 2 **Keep schematics and documentation**
Keep diagrams and documentation in an accessible place for later inspection or maintenance.

STEP 3 **Instruct the users**
Provide users with the instructions necessary to use the product safely and correctly.

6 USE AND OPERATION

CAUTION! Those responsible for installing the Infra ER must be present at the initial commissioning and to make any changes.

CAUTION! The Infra ER may not be put into operation until all safety devices and guards have been installed and are functioning correctly.

6.1 SWITCHING ON AND OFF

BEWARE! The operation described in this chapter does not de-energize the Infra ER. Additional steps are required to decommission.

BEWARE! The user must be familiar with the dangers and risks that may arise when using the Infra ER.

Switching the Infra ER does not require any special steps for use, below you can see the possibilities:

6.1.1 USE WITH A PINTHERM INFRA CONNECT

For optimal use, a PinTherm Infra Connect thermostat is required with the associated attributes for installation. Details and information about this can be found in the manual of the PinTherm Infra Connect.

Pintherm Infra Connect
www.markclimate.com/pintherm-infra-connect/

6.2 STOP IN CASE OF EMERGENCY

In case of emergency or calamity, immediately switch off the Infra ER and disconnect the power, this will disable all dangerous functions. It is advisable to be familiar with the contents of this subchapter.

STEP 1 **Disable**
If possible, turn off the Infra ER when operating.

STEP 2 **De-energize**
Remove power from the Infra ER, for example switch off the circuit breaker.

STEP 3 **Resolve the cause of the emergency**
Eliminate the cause of the emergency, using the fault diagram in chapter 9. Do not use the Infra ER if the cause cannot be completely remedied.

STEP 4 **Commissioning**
A qualified user (see chapter 3.2.1) may perform the installation commissioning steps to switch the Infra ER back on, which can be found in chapter 5.4. When doing so, take into account the risks of working on the installation, which can be found in chapter 3.2.3.

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7 MAINTENANCE

This chapter provides guidelines for carrying out maintenance and inspection work on the installation. A specific maintenance and inspection schedule has been drawn up for this purpose, which must always be strictly followed. The aim is to ensure safe, efficient and long-term operation of the system.

BEWARE! Consult the risk analysis in advance and always wear personal protective equipment (PPE) that is appropriate for the work to be carried out, as can be seen in chapter 3. Follow all applicable safety regulations carefully to prevent injury or damage.

7.1 MAINTENANCE INFORMATION

7.1.1 CONDITIONS OF MAINTENANCE

BEWARE! Disabling or bypassing any safety functions is not permitted under any circumstances when performing maintenance on the Infra ER. Such actions are not required and may result in hazardous situations.

7.2 MAINTENANCE INTERVALS

The maintenance activities are classified on the basis of fixed time intervals. Below follows a brief overview, after which the tasks are elaborated per time interval.

Semi-annual maintenance:

- Visual inspection of the Infra ER.
- Cleaning the Infra ER.

Annual maintenance:

- Visual inspection of the installation.
- Functional testing of the installation.

7.3 SEMI-ANNUAL MAINTENANCE

7.3.1 VISUAL INSPECTION OF THE INFRA ER

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

STEP 1 General visual inspection
Perform a thorough inspection of the MISTRAL MDX. Look for signs of damage, corrosion, deformation or other irregularities. If any defects are found, do not use the installation and contact a qualified technician immediately.

STEP 2 Checking the fastening material
Check that all fasteners are tight and that there are no signs of wear or loosening. Tighten fasteners if necessary. Record this action in the maintenance log. If this is repeatedly necessary, structural or preventive measures should be considered.

7.3.2 CLEANING THE INFRA ER

Keeping the Infra ER clean is essential for safe operation and optimum life of the device. Regular cleaning prevents the build-up of dust and dirt, which can adversely affect performance. If the installation is located in a highly polluted environment, adjust the maintenance schedule accordingly.

STEP 1 Make sure the appliance has cooled down
Only perform cleaning operations when the Infra ER has completely cooled down. The morning before use is usually the most suitable time.

STEP 2 Clean with a soft, dry cloth
Use a clean, soft and dry cloth to wipe the outside of the unit. Avoid using aggressive cleaning agents or mechanical cleaning devices as these may damage the finish or components. For stubborn dirt, a mild cleaning agent suitable for technical equipment may be used. Test this first on an inconspicuous area.

7.4 ANNUAL MAINTENANCE

7.4.1 VISUAL INSPECTION OF THE INSTALLATION

A visual inspection of the entire installation is necessary to ensure that no circumstances surrounding the Infra ER have changed. For example, this could be damage to a cable duct that would not be noticeable during normal use.

STEP 1 General inspection
Perform a general inspection of the installation and therefore cabling for damage and other hazards. If these are found do not use the installation.

7.4.2 FUNCTIONAL TESTING

Functional testing of the installation and Infra ER ensures proper use and can reveal errors in the installation at an early stage.

STEP 1 Turn the thermostat down
Set the thermostat to the lowest temperature setting to initiate a full start-up cycle.

STEP 2 Let the Infra ER cool down
Wait until the device has cooled down completely. This process can take a long time, so it is best to do this overnight.

STEP 3 Turn the thermostat up
Turn the temperature on the thermostat to the maximum heating position and keep an eye on the following:

STEP 4 Check electrical
Check the electrical system during a full warm-up. Confirm that no fuses blow or circuit breakers trip during the heating process. Inspect the wiring for temperature variations.

STEP 5 Check mechanically
Check the Infra ER during the initial start-up phase to ensure that it operates without any unusual noise, vibration or overheating.

8 UNINSTALL

This chapter provides instructions for disassembling and uninstalling the Infra ER.

BEWARE! Consult the risk analysis in advance and always wear personal protective equipment (PPE) that is appropriate for the work to be carried out, as can be seen in chapter 3. Follow all applicable safety regulations carefully to prevent injury or damage.

8.1 DECOMMISSIONING

STEP 1 **Set to lowest position**
Set it to the lowest temperature setting before beginning the uninstall process. This will prevent accidental activation when the unit is turned back on.

STEP 2 **Disconnect the installation from the power supply**
Disconnect the distribution panel. Confirm that the circuit is de-energized by removing the fuses or turning off the appropriate circuit breakers. Use a voltmeter to verify that there is no current present.

STEP 3 **Let the Infra ER cool down**
If the Infra ER is still warm, allow it to cool completely first.

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 **Disassemble the Infra ER**
Disassemble the Infra ER from its support, either the wall bracket or hanging kit. Lower the unit onto a soft surface to protect it for future use.

STEP 3 **Dismantle the mounting hardware**
Remove used mounting hardware for future use or complete decommissioning. Ensure that no components are left unsecured to prevent future hazards.

8.3 PACKAGING, STORAGE, MOVEMENT AND RECYCLING

8.3.1 PACKING AND STORAGE

STEP 1 **Cleaning**
Completely clean and dry all components.

STEP 2 **Proper packaging**
Keep all components together during storage to prevent an incomplete installation later. Pack the components as received to prevent damage. If possible, use silica desiccants packed with the components to prevent possible condensation.

STEP 3 **Store properly**
Store the installation in a cool, dry and dust-free environment.

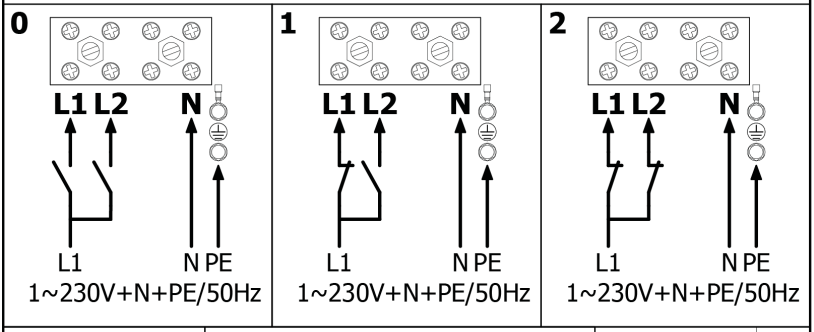
8.3.2 DISPOSAL AND RECYCLING

CAUTION! **Electrical waste**
Electrical waste products must not be disposed of with household or residual waste. Please dispose of at an electrical waste collection point.

CAUTION! **Contains plastics**
Used plastics must be separated for processing, if required by local regulations.

9 ELECTRICAL DIAGRAMS

INFRA ER 3200
INFRA ER 3200L



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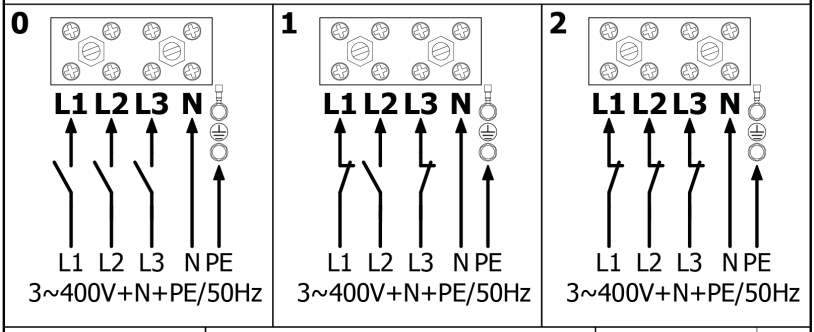
INFRA ER 6400



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	0	1	2
EN	Off	Low	High
DE	Aus	niedrig	höch
FR	Stop	Position basse	Position élevée
NL	Uit	Laagstand	Hoogstand
PL	Wyłącz	niska pozycja	Wysoka pozycja
RO	Oprit	jos/mic	înalt

EN

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