

# Katherm QK Baseboard 1.42

Baseboard heater with EC cross-flow fan



## Assembly and Installation Instructions

Keep these instructions in a safe place for future use!



Installation instructions

Explanation of symbols:



**Caution! Danger!**

*Non-adherence to this manual can result in serious injury or damage to persons or property.*



**Danger of electrocution!**

*Non-adherence to this manual can result in serious injury or damage to persons or property by electrocution.*

**Please read this manual prior to commencing installation of these units!**

All persons involved in the installation, commissioning and use of this product are obliged to pass this manual onto other trades working in parallel or subsequently on this equipment up to and including the end user or operator of the equipment. Please retain this manual until the equipment is finally decommissioned!

**Amendments can be made to the content or design of this manual without prior notification!**

Table of contents

1. Correct and proper use .....	4
2. Safety information .....	5
3. Assembly and waterside connections .....	6
4. Water connections .....	8
5. Maintenance .....	8
6. Electrical connection/electromechanical controls .....	9
6.1 Wire electrical connections .....	9
6.2 Wiring diagram.....	10
6.2.1 Electromechanical control system .....	10

## 1.42 Katherm QK Baseboard - Cross-flow fan convection with compact EC motor

Ready-to-install baseboard convectors

### Installation instructions



#### 1. Correct and proper use

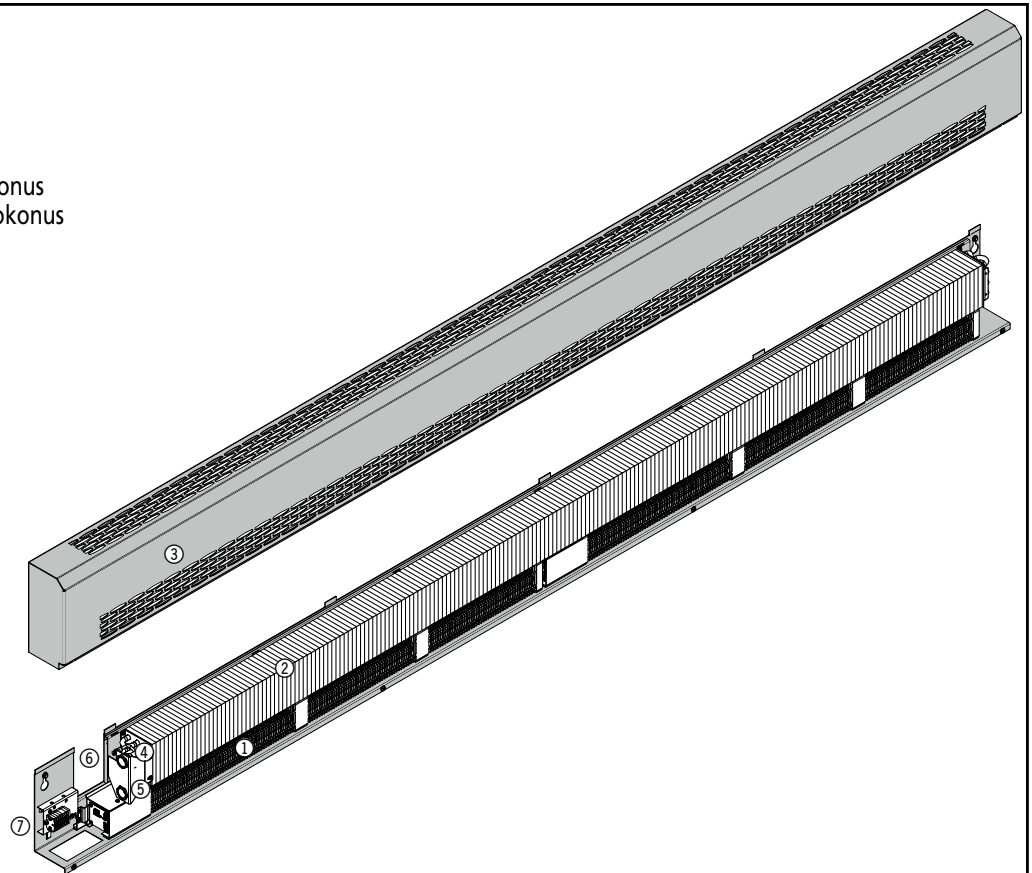
Kampmann **Katherm** QK Baseboard units are manufactured in accordance with the state of the art and recognised safety regulations. The use of these units can nevertheless result in danger to persons or damage to the equipment or other property if they are not installed and operated correctly and properly or are not used correctly.

**Katherm** QK Baseboard units are intended solely for use indoors (for instance in residential properties, offices, showrooms etc). They should not be used in damp areas, like swimming pools or outdoors. The units should be prevented from becoming wet or damp during installation. If in doubt, please contact the manufacturer. Any use beyond the aforementioned use shall be deemed to be improper and any damage resulting from this will be the sole responsibility of the operator of the equipment. Correct and proper use also includes adherence to the installation instructions given in manual.

The installation of this product requires technical knowledge of heating, cooling and electronics. This knowledge is generally taught as part of a course in one of the vocational fields listed in section 2 and is not described separately here. Connection faults or modifications can lead to damage to the unit! The manufacturer shall not be liable for any damage due to any faulty connection or/and improper handling.

#### Katherm QK Baseboard

- ① Compact EC cross-flow fan
- ② High-output convector Cu/Al
- ③ casing
- ④ Flow connection, 1/2", Eurokonus
- ⑤ Return connection, 1/2", Eurokonus
- ⑥ Pipe and cable entries
- ⑦ Terminal strip





## 2. Safety information

The installation and assembly, as well as maintenance of electrical equipment should only be performed by a qualified electrician in accordance with VDE guidelines. The units should be wired in accordance with applicable VDE regulations and guidelines issued by the relevant power supply company. Non-adherence to these regulations and the information contained in the installation manual can result in malfunctions with consequential damage and danger to personnel. There is a risk of fatal injury if the wires are swapped when connecting the units! Disconnect all parts of the system from the mains prior to wiring and servicing the units and prevent them from being reconnected! The unit should only be connected to fixed cables. Please read this manual in full to ensure correct and proper installation.

**It is imperative that the following safety information is adhered to:**

- Disconnect all parts of the system that you are working on from the mains power supply.
- Ensure that the equipment cannot be accidentally re-connected!
- Before commencing with the installation/servicing of the unit, wait until the fan has reached a standstill after the unit has been switched off.
- Attention! Pipes, casings and fittings can become very hot depending on the operating mode!
- Personnel should be qualified and possess adequate knowledge of the following:
  - Safety prevention and accident prevention
  - Guidelines and recognised technical regulations, such as VDE guidelines
  - DIN and EN standards
  - Accident prevention regulations VBG, VBG4, VBG9a
  - DIN VDE 0100, DIN VDE 0105
  - EN 60730 (Part 1)
  - Technical regulations issued by the relevant power supply companies

### Modifications to the equipment

Do not perform any modifications, conversions or additions to Katherm QK Baseboard units without consulting the manufacturer, as this could impair the safety and correct operation of the units.

Do not carry out any work on the equipment that is not described in this manual. Fittings and cabling should be appropriate for the system!



Openings are provided on the floor duct for a potential balancing line.

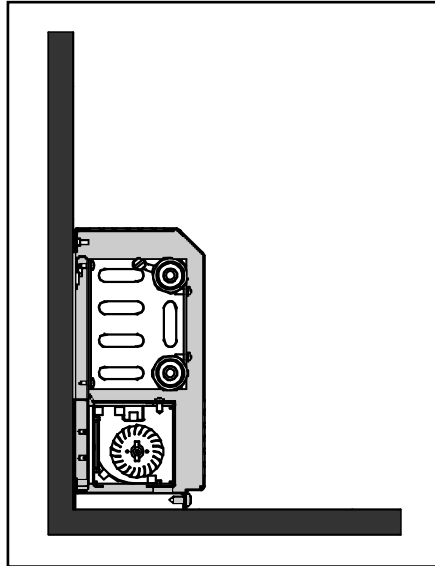
## 1.42 Katherm QK Baseboard - Cross-flow fan convection with compact EC motor

Ready-to-install baseboard convectors

### Installation instructions

#### 3. Assembly and waterside connections

- Remove outer film and packaging cardboard.



*Fig. Katherm QK Baseboard in correct assembly position*

Place the Katherm QK Baseboard unit against the wall as shown.



*Fig. Loosening the screws*

Loosen the screws on the front of the casing.



*Fig. Tilting and lifting of the casing*  
Tilt and lift the casing as shown.



*Fig. Fixing the mounting frame to the wall*  
Fix the mounting frame to the wall on the left and right hand side.

- Then fit the flow and return pipework.
- Perform a pressure test.
- Mount the casing back on the mounting frame in reversed order.
- Ensure that this manual is clearly visible to subsequent trades on this equipment.



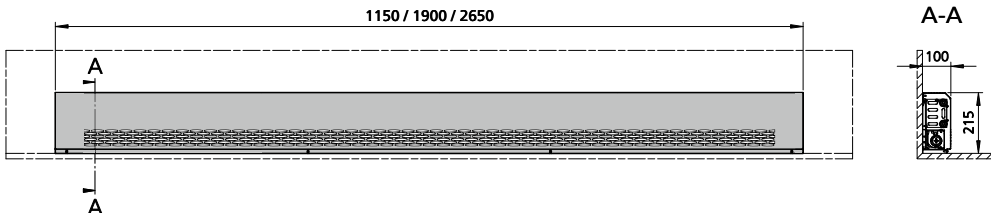
# 1.42 Katherm QK Baseboard - Cross-flow fan convection with compact EC motor

Ready-to-install baseboard convectors

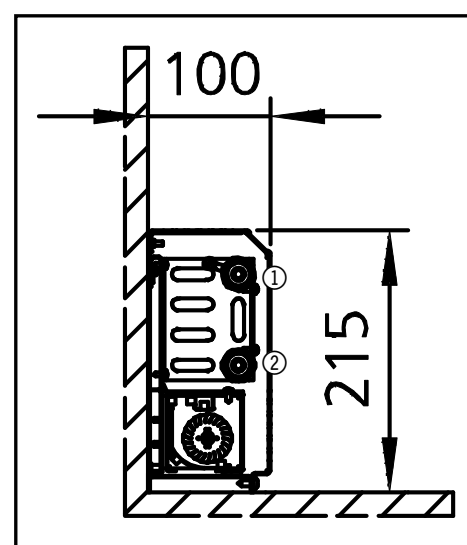
## Installation instructions

### 4. Water connections

#### Katherm QK Baseboard

Design	Room-side pipe connections
<b>Katherm QK Baseboard</b>  ① Flow ② Return	

Detail



### 5. Maintenance

#### Important note

Katherm OK Baseboard units ducts should only be maintained and serviced by trained and qualified personnel and noting the information provided in the installation and operating manual, as well as all applicable regulations. Regular servicing and maintenance is needed to ensure the correct operation and performance of Katherm QK Baseboard units.

#### Fans

- Check the crossflow fans every six months for dirt and damage (visual inspection).
- Clean the fan cylinder carefully with a cloth if dirty.

#### Heat exchanger

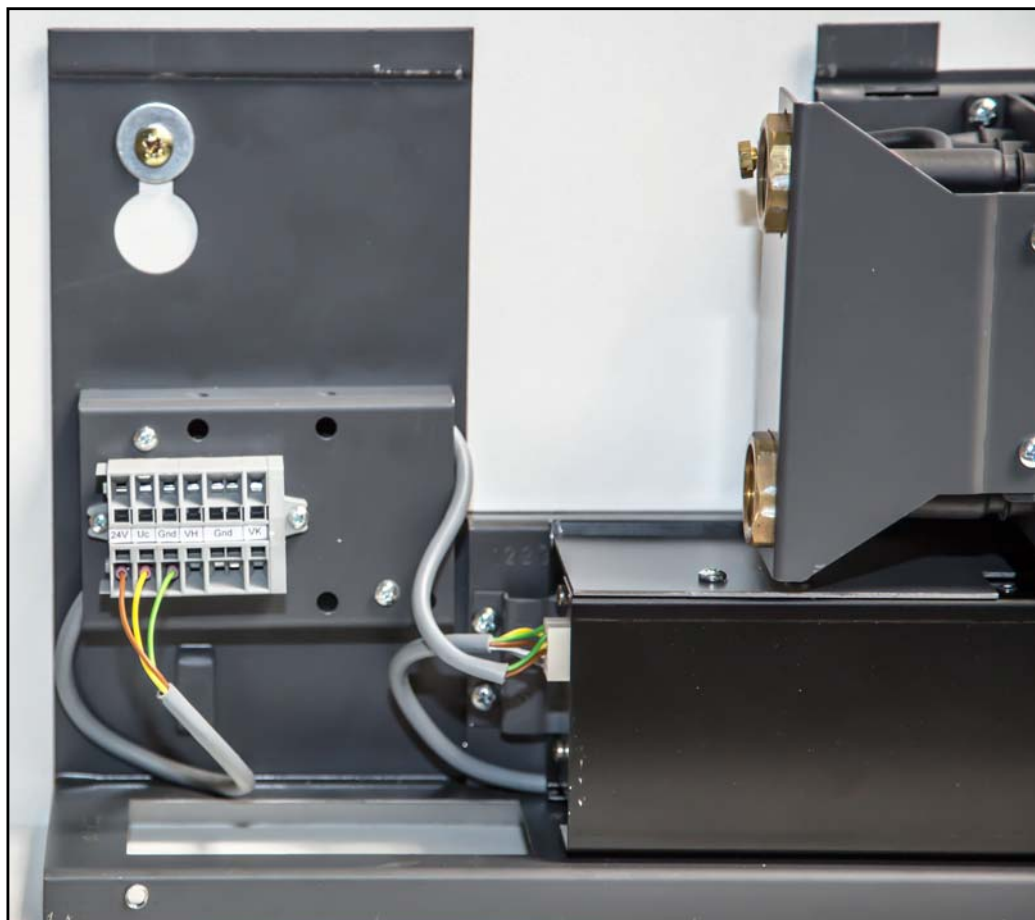
- Check the integral heat exchanger every six months for dirt and possible damage. A visual inspection will suffice here too.
- If dirty, carefully vacuum the heat exchanger.





## 6. Electrical connection/electromechanical controls

### 6.1 Wire electrical connections



*Fig. Katherm QK Baseboard with terminal strip*

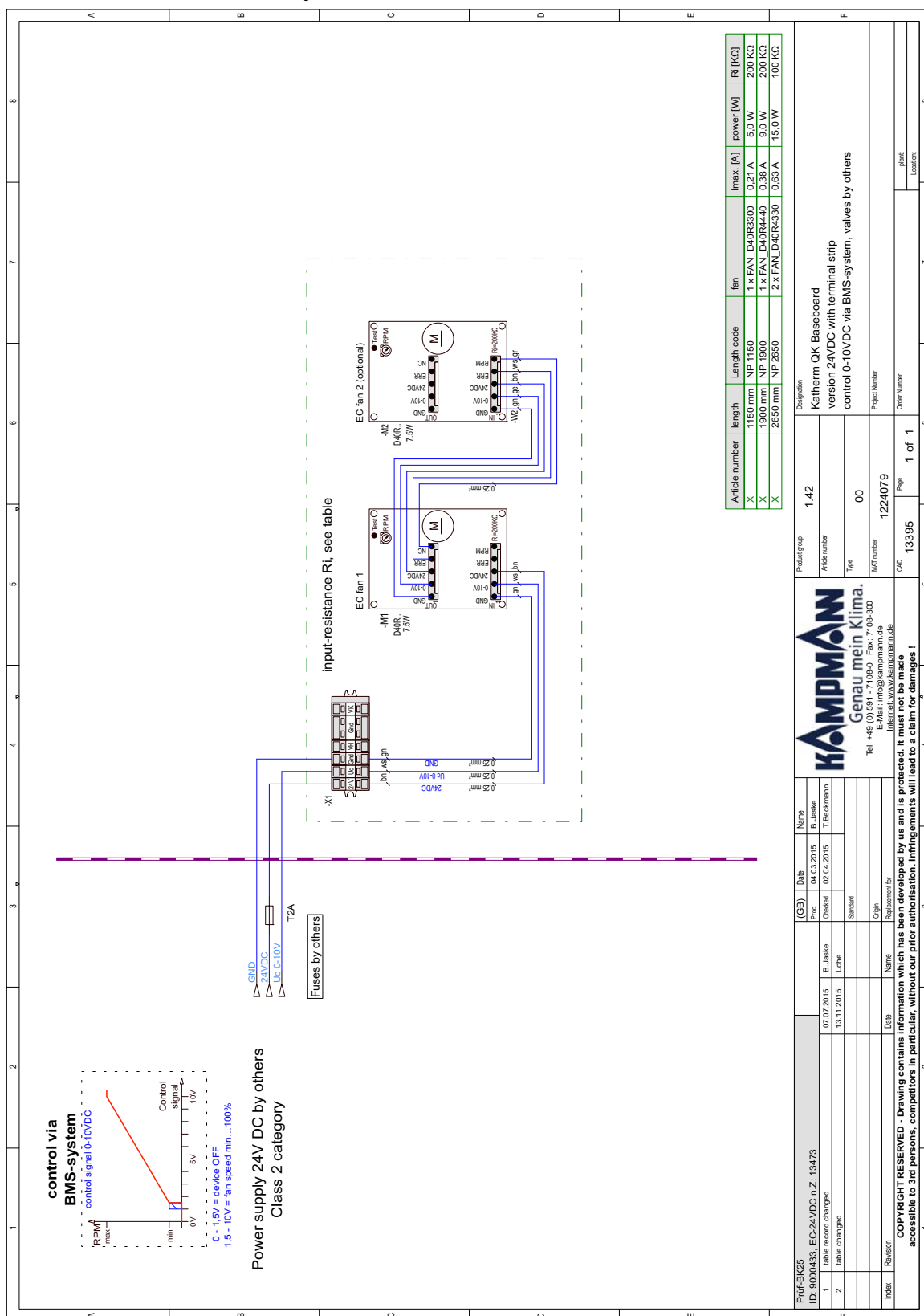
Connect up the cables according to the wiring diagram (provided with the unit).

## 1.42 Katherm QK Baseboard - Cross-flow fan convection with compact EC motor

## Installation instructions

## 6.2 Wiring diagram

### 6.2.1 Electromechanical control system



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<b>Standard(s):</b>	Heating and Cooling Equipment>Valid without technical revision: 01Jan2024< [UL 1995:2015 Ed.5+R:17Aug2018] Heating And Cooling Equipment [CSA C22.2#236:2015 Ed.5]
<b>Product:</b>	Trench Heating / Cooling convectors
<b>Brand Name:</b>	
<b>Models:</b>	<p>Katherm QK may be followed by nano; followed by one to four numbers; followed by 24; followed by three numbers; followed by /; followed by three numbers; followed by /; followed by two to five numbers; followed by R-Rost, L- Rost; followed by one to three numbers; followed by alu. natur elox, steel, wood or brass.</p> <p>Katherm HK may be followed by 2-Lt., 4-Lt.; followed by 24; followed by three numbers; followed by /; followed by three numbers; followed by /; followed by two to five numbers; followed by R-Rost, L- Rost; followed by one to three numbers; followed by alu. natur elox, steel, wood or brass.</p> <p>Baseboard HK. Baseboard QK.</p>

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**Control Number:** **5017050**

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for L. Matthew Snyder, Certification Manager



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<b>Brand Name:</b>	<b>KAMPMANN</b>
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