

# Additional electric or all-electric operation



# Pleasant heat – whenever it is needed. Additional electric or all-electric operation.

Comfortable heat in the bathroom – this is perfectly achievable even without being connected to a central heating network. Either with additional electric or all-electric operation.

The uncomplicated option for completely independent heat. For standard connection to the central heating network, the additional electric operation is added to most versions as an option for well-tempered heat also in the transitional season and for towels that are always dry and comfortably warm. Or the version for all-electric operation, completely independent from the central heating network. Equipped with latest, user-friendly control technology.



Illustration on left page, left:  
**Additional electric operation.** As an option for pleasant warmth also in the transitional season and for towels that are always nicely dry and comfortably warm.

**Electric set FKS.** Simply set the desired room temperature on the control directly on the radiator and the electronically controlled heating rod ensures pleasant warmth.

**Electric set WFS.** The wireless solution allows the control unit to be positioned anywhere in the room. Simple setting of the room temperature or towel warming function. Especially suitable for renovations.

Illustration on left page, right:  
**All-electric operation.** Completely independent of a central heating network. A cost and time-saving solution primarily for old buildings.



**Electric set WKS.** The external remote control is connected to the heating rod by a flush-mounted cable and can be positioned at a convenient height.

**Electric set WRX.** The individual daily room temperature or the towel warming function can be set conveniently on the LCD screen. Energy-saving, convenient heating thanks to intelligent control.

# Standard and Comfort electric sets.

For additional electric or all-electric operation.

The electric sets from Kermi offer just the right solution for perfect warmth for tricky applications. For conventional use, electrical solutions are ideal as auxiliary heating for use in transitional seasons without starting up the central heating, or for warming towels. They also offer the ideal solution for temporary, on-demand heating, for example in holiday apartments or areas which are rarely used. Especially with all-electric operation, flexible positioning of the radiators is an advantage when retrospectively installing a radiator if there is no available connection to the heating circuit or the output of the heat generator is no longer sufficient for the additional radiator. The only requirement is a 230 V mains connection.

## Flexible installation – maximum heating convenience

The electrical solutions cover all potential applications with a wide variety of radiators from the Kermi design radiator range (for overview, see page 254). The heating comfort fully matches that from radiators connected to the central heating. Depending on heat demand and radiator dimensions, electronically controlled heating rods are available with various output levels. The integrated antifreeze protection ensures ultimate safety. In all-electric versions, the radiators are factory-filled with a special liquid for optimum heat transfer.

With the wall versions, there is a choice of two transmission paths for the communication between remote control and remote control unit, depending on structural conditions and comfort requirements:

With the cable solution (WKS), there must be a direct wiring connection under the plaster between the heating rod and control unit. This can be installed anywhere in a flush-mounted box.

The wireless solution offers complete freedom. The control units (WFS/WRX) are designed as surface-mounted housings and can be positioned as required. The power is provided by commercially available batteries, which have a long service life thanks to the low power consumption.

## Standard version. User-friendly technology for infinitely variable room temperature control.

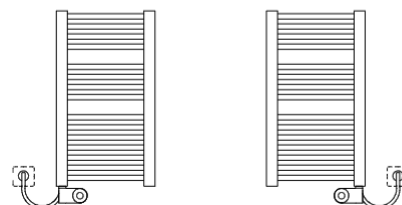
In the standard version, the control unit is either attached to the heating rod itself (flange version, FKS) or designed as an external remote control (wall version WKS, WFS), which can be positioned anywhere at a convenient control height with the WFS.

## Comfort version. Everything is controlled for individual heating comfort.

The comfort version (WRX) provides a remote control unit with an LCD screen.

### Available electric sets

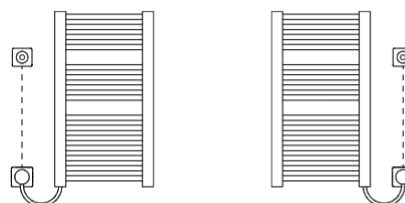
#### Electric set FKS:



Electric set FKS on left

Electric set FKS on right

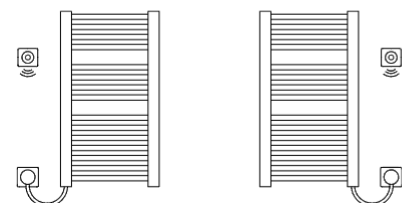
#### Electric set WKS:



Electric set WKS on left

Electric set WKS on right

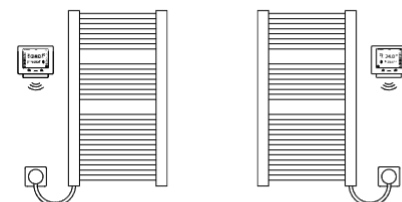
#### Electric set WFS:



Electric set WFS on left

Electric set WFS on right

#### Electric set WRX:



Electric set WRX on left

Electric set WRX on right



FKS White

FKS Chrome Silver

The FKS version consists of an electronically regulated heating rod incl. controller (protection type IPX4) that is installed on the radiator. Length of cable on heating rod: approx. 1.2 m. The controller can be modified to be installed either on right or left side of the radiator. Version with plug for direct connection to a socket. The controller is available in White and Chrome Silver.

**Controller functions:**

- Continuously variable temperature control
- Boost mode (full capacity for 60 minutes)
- Antifreeze protection
- Function display (Heat, Off, Booster)
- During initial operation, it is possible to switch from room temperature control to towel warming function only
- "Open window" detection



WKS White

WKS Titanium

The WKS version consists of a wall outlet (protection type IPX4), an electronically regulated heating rod, and the standard controller. Length of cable on heating rod: approx. 1.2 m. The standard controller needs to be mounted on a flush-mounted box. Power is supplied from a flush-mounted box provided for the controller. Connection between controller and the wall outlet requires a cable provided on site. The wall outlet needs to be mounted on a flush-mounted box. The wall outlet and the controller are available in White and Titanium.

**Controller functions:**

- Continuously variable temperature control
- Boost mode (full capacity for 60 minutes)
- Antifreeze protection
- Function display (Heat, Off, Booster)
- It is possible to switch from room temperature control to towel warming function only
- "Open window" detection



WFS White

WFS Titanium

The WFS version consists of a wall outlet (protection type IPX4), incl. radio receiver, an electronically regulated heating rod, and the radio standard controller. Length of cable on heating rod: approx. 1.2 m. The wall outlet needs to be mounted on a flush-mounted box. The wall outlet and the controller are available in White and Titanium. As the controller is battery-powered, it can be freely mounted in the room.

**Controller functions:**

- Continuously variable temperature control
- Boost mode (full capacity for 60 minutes)
- Antifreeze protection
- Function display (Heat, Off, Booster)
- It is possible to switch from room temperature control to towel warming function only
- "Open window" detection



WRX White/White

WRX Black/Black

WRX White/Black

The WRX version comprises a wall outlet (protection type IPX4), incl. radio receiver, an electronically regulated heating rod, and the Funk-Comfort controller. The wall outlet needs to be mounted on a flush-mounted box. Wall outlet is available in White, the controller in White/White, Black/Black, and White/Black. As the controller is battery-powered, it can be freely mounted in the room. The radio controller is equipped with a touch display which can be used to program and control various functions.

**Controller functions:**

- Room temperature control for high and low setting levels at programmed time intervals
  - Programmable time interval 15 minutes
  - 2 preset, 1 freely programmable weekly program (room temperature)
- The towel warming function is independent of room temperature and can be individually set for each day for programmable time intervals
  - Programmable time interval 15 minutes
  - 1 preset, 1 freely programmable
- Boost mode (adjustable 30–120 minutes)
- Antifreeze protection
- Function display (Room temperature, Weekday, Time)
- "Presence" mode
- "Absence" mode
- "Open window" detection

## Additional electric operation.

As an option for pleasant warmth in the transitional season and for towels that are always nicely dry and comfortably warm.


**For additional electric operation, the radiators are connected to the hot-water heating system.**

The radiator must always be completely filled with water and fully bled, as otherwise operation with the electric heating rod cannot heat effectively. The expansion of the water contained in the radiator into the expansion tank must be guaranteed, whether it is being used with or without the electric heating rod and even if the flow valve is closed. It should only be possible to operate a valve installed in the return using a tool to prevent the valve being shut without authorisation. This valve must always be open during operation with the electric heating rod.





## Prices and electric heating rod wattage / electric set (additional electric operation)

Item description	Wattage	Supply unit	Item number White	EUR excl. VAT I/2023	Item number Titanium / Chrome Silver	EUR excl. VAT I/2023
 <p><b>Electric heating rod</b> in White</p> <p>Due to legal requirements regarding electrical safety and energy consumption, an additional control device needs to be provided on site.</p>	150 watts / AC 230 V	1 piece	ZE0066 0031	<b>330.70</b>		
	300 watts / AC 230 V	1 piece	ZE0066 0001	<b>337.82</b>		
	400 watts / AC 230 V	1 piece	ZE0066 0002	<b>343.65</b>		
	600 watts / AC 230 V	1 piece	ZE0066 0003	<b>349.44</b>		
	800 watts / AC 230 V	1 piece	ZE0066 0004	<b>372.74</b>		
	1200 watts / AC 230 V	1 piece	ZE0066 0005	<b>407.69</b>		
	1500 watts / AC 230 V	1 piece	ZE0066 0032	<b>420.75</b>		
 <p><b>Electric set FKS</b> in White or Chrome Silver</p> <p>The electric set FKS comprising an electronically controlled heating rod, incl. controller (protection type IPX4) mounted on radiator. The controller can be modified to be installed either on right or left side of the radiator.</p>	150 watts / AC 230 V	1 piece	ZE0103 0001	<b>445.00</b>	ZE0103 0078	<b>650.00</b>
	300 watts / AC 230 V	1 piece	ZE0103 0002	<b>457.00</b>	ZE0103 0079	<b>662.00</b>
	400 watts / AC 230 V	1 piece	ZE0103 0003	<b>465.00</b>	ZE0103 0080	<b>670.00</b>
	600 watts / AC 230 V	1 piece	ZE0103 0004	<b>477.00</b>	ZE0103 0081	<b>682.00</b>
	800 watts / AC 230 V	1 piece	ZE0103 0005	<b>489.00</b>	ZE0103 0082	<b>694.00</b>
	1200 watts / AC 230 V	1 piece	ZE0103 0006	<b>500.00</b>	ZE0103 0083	<b>705.00</b>
	1500 watts / AC 230 V	1 piece	ZE0103 0007	<b>510.00</b>	ZE0103 0084	<b>715.00</b>
 <p><b>Electric set WKS</b> in White or Titanium</p> <p>The electric set WKS comprising a wall outlet (protection type IPX4), an electronically controlled heating rod, and the standard controller.</p>	150 watts / AC 230 V	1 piece	ZE0100 0001	<b>445.00</b>	ZE0100 0036	<b>547.00</b>
	300 watts / AC 230 V	1 piece	ZE0100 0002	<b>457.00</b>	ZE0100 0037	<b>559.00</b>
	400 watts / AC 230 V	1 piece	ZE0100 0003	<b>465.00</b>	ZE0100 0038	<b>567.00</b>
	600 watts / AC 230 V	1 piece	ZE0100 0004	<b>477.00</b>	ZE0100 0039	<b>579.00</b>
	800 watts / AC 230 V	1 piece	ZE0100 0005	<b>489.00</b>	ZE0100 0040	<b>591.00</b>
	1200 watts / AC 230 V	1 piece	ZE0100 0006	<b>500.00</b>	ZE0100 0041	<b>602.00</b>
	1500 watts / AC 230 V	1 piece	ZE0100 0007	<b>510.00</b>	ZE0100 0042	<b>612.00</b>
 <p><b>Electric set WFS</b> in White or Titanium</p> <p>The electric set WFS comprising a wall outlet (protection type IPX4), incl. radio receiver, an electronically controlled heating rod, and the Funk-Standard controller.</p>	150 watts / AC 230 V	1 piece	ZE0101 0001	<b>650.00</b>	ZE0101 0036	<b>752.00</b>
	300 watts / AC 230 V	1 piece	ZE0101 0002	<b>662.00</b>	ZE0101 0037	<b>764.00</b>
	400 watts / AC 230 V	1 piece	ZE0101 0003	<b>669.00</b>	ZE0101 0038	<b>771.00</b>
	600 watts / AC 230 V	1 piece	ZE0101 0004	<b>679.00</b>	ZE0101 0039	<b>781.00</b>
	800 watts / AC 230 V	1 piece	ZE0101 0005	<b>689.00</b>	ZE0101 0040	<b>791.00</b>
	1200 watts / AC 230 V	1 piece	ZE0101 0006	<b>705.00</b>	ZE0101 0041	<b>807.00</b>
	1500 watts / AC 230 V	1 piece	ZE0101 0007	<b>714.00</b>	ZE0101 0042	<b>816.00</b>
 <p><b>Electric set WRX</b> in White/White, White/Black, Black/Black</p> <p>The electric set WRX comprising a wall outlet (protection type IPX4), incl. radio receiver, an electronically controlled heating rod, and the Funk-Comfort controller.</p>	150 watts / AC 230 V	1 piece	ZE0315 0001	ZE0315 0008	ZE0315 0015	<b>877.00</b>
	300 watts / AC 230 V	1 piece	ZE0315 0002	ZE0315 0009	ZE0315 0016	<b>886.00</b>
	400 watts / AC 230 V	1 piece	ZE0315 0003	ZE0315 0010	ZE0315 0017	<b>895.00</b>
	600 watts / AC 230 V	1 piece	ZE0315 0004	ZE0315 0011	ZE0315 0018	<b>902.00</b>
	800 watts / AC 230 V	1 piece	ZE0315 0005	ZE0315 0012	ZE0315 0019	<b>914.00</b>
	1200 watts / AC 230 V	1 piece	ZE0315 0006	ZE0315 0013	ZE0315 0020	<b>927.00</b>
	1500 watts / AC 230 V	1 piece	ZE0315 0007	ZE0315 0014	ZE0315 0021	<b>937.00</b>

### Attention:

Operation of the electric heating rod can affect heating cost recording devices which are directly attached.

Please contact the manufacturer of your heating cost recording device.

VDE 0100 part 701 must be observed during installation! For division into safety areas, see page 234. The heating inserts are designed for use in heating systems with a maximum operating pressure of 6 bar. During installation, a residual-current circuit breaker with trigger limit less than or equal to 30 mA must be provided on-site.

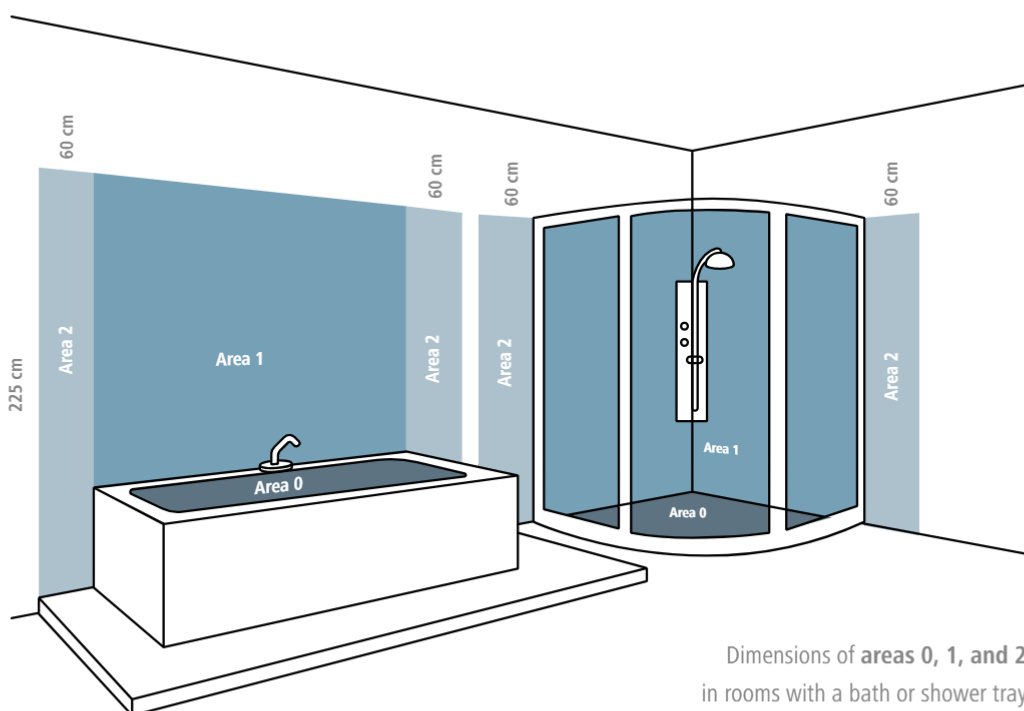


# Requirements of installation location: Electrical Safety

When installing electric components, particular attention needs to be paid to VDE 0100 part 701 "Locations containing a bath or shower". Among other things, this specified that electrically operated equipment may be installed only in certain areas in the room and particular measures need to be taken to protect against electric shocks. If applicable, additional regional regulations need to be taken into consideration.

Type	Area 0	Area 1	Area 2	outside
FKS			x *	x
WFS			x	x
WKS				x
WRX			x	x
Wall outlet socket			x	x

\* only with fixed connection



Example illustration. Pay attention to the detailed requirements of VDE 0100 part 701!