

Warranty Certificate

Installation Address:				Installed Product:			
Name property owner:				Part no/EAN no:		Batch no:	
Adres:				Product Type:			
Zip code / Town:				Watt:		Watt/m ² :	
Country:				Measured resistance ohm:			
Tph no:				Measured insulation Mohm:			
Installation area:							
Kitchen	Bedroom	Bathroom	Living room	Washing room	Floor construction:		
Entrance	Back Entr.	Toilet	Conservatory	Others	Mat from floor surface:		
Purchasing place:				Installer:			
Company name:				Company name:			
Town/Country:				Company register no.:			
Tph no:				Installers name:			
Purchasing date/Invoice no:				Adres:			
Installed date:				Town/Country:			
Signature installer:				Tph no:			
Drawing of installation area. Installation pattern. Where Thermostat, Floor sensor and splices are located:							

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Installation Instruction KIMA WFM 150

- Floor heating mat for installation in tail glue, self levelling compound or concrete on flat surfaces.
- **KIMA WFM 150** should only be installed on self supported concrete constructions according to building regulation.
- **KIMA WFM 150** can not be installed in areas where there are combustible or temperature sensitive material.
- Flameretardent, twin conductor heating cable on mat with no electromagnetic fields.
- Insulation class I
- IP67
- Operating temperature max +90°C
- Min installation temperature +5°C
- Voltage 230 Volt.
- Wattage 150 W/m².
- Width 500 mm.
- Thickness 3 mm.
- 3 m coldtail with metallic sheath.
- Manufactured according to EN60335-1, EN60335-2-96.
- Complies with RoHs directive 2002/95/EC.

Part no.	EAN no.	Product Type	Length (m)	Wattage (W)	Area (m ²)	Tolerance total (Ohm)
107 301 01	7331002905455	KIMA WFM 150	1,4	110	0,75	457 - 529
107 301 02	7331002905462	KIMA WFM 150	2,1	160	1,0	314 - 364
107 301 03	7331002905479	KIMA WFM 150	2,9	215	1,5	234 - 271
107 301 04	7331002905486	KIMA WFM 150	4,2	330	2,0	152 - 176
107 301 05	7331002905493	KIMA WFM 150	5,0	370	2,5	136 - 157
107 301 06	7331002905509	KIMA WFM 150	6,2	500	3,0	101 - 116
107 301 07	7331002905516	KIMA WFM 150	7,0	550	3,5	91 - 106
107 301 08	7331002905523	KIMA WFM 150	9,2	720	4,5	70 - 81
107 301 09	7331002905530	KIMA WFM 150	11,2	875	5,5	57 - 67
107 301 10	7331002905547	KIMA WFM 150	13	1000	6,5	50 - 58
107 301 11	7331002905554	KIMA WFM 150	15	1125	7,5	45 - 52
107 301 12	7331002905561	KIMA WFM 150	17	1275	8,5	39 - 46
107 301 13	7331002905578	KIMA WFM 150	19	1450	9,5	35 - 40
107 301 14	7331002905585	KIMA WFM 150	21	1600	10,5	31 - 36
107 301 15	7331002905592	KIMA WFM 150	23	1800	11,5	28 - 32
107 301 16	7331002905608	KIMA WFM 150	26	2000	13,0	25 - 29
107 301 17	7331002905615	KIMA WFM 150	30	2250	15,0	22 - 26



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General Instructions

- Installation and connection to the mains should be done by an authorised installer according to National and International regulations, directives and installation instruction.
- **KIMA WFM 150** should be installed as a fixed installation and min installation temperature is +5°C.
- **KIMA WFM 150** should be installed with the following equipment: RCD max 30 mA and any of KIMAs electronic floor thermostat with external floor sensor.
- **KIMA WFM 150** should only be used for under floor heating and installed in concrete, self levelling compound or tile glue.
- **KIMA WFM 150** can not be installed in timber floor construction or where there is combustible or/and temperature sensitive material.
- **KIMA WFM 150** should be installed on a flat and smooth self supporting cement based construction with a min thickness of 200 mm (smaller thicknesses will have larger risk for overheating). If **KIMA WFM 150** are installed on selfsupporting cement constructions with a thickness smaller than 200 mm their will be less safety margins for overheating the mat especially if there is thermal insulation underneath. Special attention during and after installation should be taken to eliminate damages of the cable: don't use sharp tools and compounds, don't stand on the heating cable and don't pour out the cement mix rapidly. The Installers should use shoes with soft soles.
- **KIMA WFM 150** sticky side should be placed against the floor surface. To achieve best adhesion the surface should be clean and smooth. If the heating cable or the mat needs to be glued to the surface use a standard hot melt glue. The heating cable should not be separated from the mat.
- **KIMA WFM 150** should be installed flat with no overlap.
- Min bending radius 30 mm for the mat and the heating cable.
- Mat and heating cable can not be crossed. It should be installed in a correct way.
- The heating cable can not be cut.
- Max continuous operating temperature for **KIMA WFM 150** is 90°C. It is important that surrounding material will not be exposed to high temperatures. Max temperature for combustible material is 80°C.
- Do not install **KIMA WFM 150** in floor areas which will be covered with fixed installed furniture's, wardrobes, kitchen cupboards, toilets, bathtubs, etc. there will be a risk for overheating and damage of the cable.
- **KIMA WFM 150** should be installed with one of KIMAs electronic under floor thermostats with separate floor sensor.
- **KIMA WFM 150** electrical insulation properties and the electrical resistance should be tested before, after it's been installed, covered and before it's connected to the mains.
- Min insulation properties should be according to electrical regulations. Resistance should be within the tolerances see **KIMA WFM 150** table (+10% / -5% according to standard).

Installation in concrete, self levelling compound or tile glue

The supporting cement based floor construction should be min 200 mm thick and self supported so it will never crack.

1. Clean the surface carefully and paint it with a primer see the compound suppliers instructions.
2. Plan the installation pattern before starting the installation.
3. Start to install **KIMA WFM 150** from the point where it should be connected to the thermostat and the sticky side should be placed against the floor surface.
4. To alter **KIMA WFM 150** installation direction, cut carefully the mat, without damaging the heating cable, and change direction.
5. Don't install **KIMA WFM 150** in areas where risk for drilling or where nails and screws can be installed or areas which will be covered with fixed installed furniture's, wardrobes, kitchen cupboards, toilets, bathtubs, etc. Leave 50 mm free from the wall so there will be no risk of damaging **KIMA WFM 150** when installing floor list and other materials.
6. Don't separate the heating cable from the mat. Don't cut off the heating cable.
7. The thermostat floor sensor should be installed in an open floor area between 2 heating cables min 30 cm from the wall. It is recommended to install the floor sensor in an end sealed electric conduit pipe.
8. The electrical insulation and the electrical resistance of **KIMA WFM 150** should be measured and compared.
9. Make a drawing or take a picture of **KIMA WFM 150** installation pattern, and mark where the thermostat, floor sensor and the splices of the heating cable are installed.
10. Cover **KIMA WFM 150** with concrete or self levelling compound according to the suppliers instructions. If **KIMA WFM 150** is installed directly in the tile glue fix the tiles directly in the glue according to the suppliers instructions. It's important that there will be no air pockets in the concrete, self levelling compound or tile glue to get a good heat distribution and no risk for overheating.
11. Lay out and fix the floor surface material according to the suppliers instructions.
12. Before connecting **KIMA WFM 150** to the mains measure the electrical insulation and electrical resistance to make sure that the installation is ok and fill in the results in the Warranty Certificate.
13. Don't turn the heating on too early. Check with the suppliers of the concrete/self levelling compound and the flooring material.

KIMA Warranty

The Warranty will not be valid if the installation is not done according to the following:

- If the buyer of the **KIMA WFM 150** fails to contact the place the cable has been purchased from.
- KIMA should be able to do the fault tracing and analyse, decide and explain the reason for the failure. Fault tracing and repairing can not be done by anybody else if not KIMA have confirmed it with written paper.
- Installation should be done by an authorised installer according to regulations, directives and KIMAs installation manual.
- Warranty Certificate should be completed by the installer and saved next to the main switchboard.