

## Warranty Certificate

Installation Address:				Installed Product:			
Name property owner:				Part no/EAN no:		Batch no:	
Adres:				Product Type:			
Zip code / Town:				Watt:		Watt/m <sup>2</sup> :	
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:							

INST0102002 090505



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# Installation Instruction KIMA WFM 120

- Floor heating mat for installation in tail glue, self levelling compound or concrete on flat surfaces.
- **KIMA WFM 120** should only be installed on self supported floor constructions according to building regulation, with min 30 mm thick concrete or selflevelling compound direct under the mat.
- **KIMA WFM 120** 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 120 W/m<sup>2</sup>.
- Width 500 mm.
- Thickness 3.5 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	Width (mm)	Length (m)	Wattge (W)	Area (m <sup>2</sup> )	Tolerance total (Ohm)
107 300 09	7331002905011	KIMA WFM 120	500	1,9	110	0,95	457 - 529
107 300 08	7331002905028	KIMA WFM 120	500	3,2	190	1,6	265 - 306
107 300 00	7331002905035	KIMA WFM 120	500	4,0	240	2,0	209 - 242
107 300 10	7331002905042	KIMA WFM 120	500	4,8	285	2,4	176 - 204
107 300 01	7331002905059	KIMA WFM 120	500	6,2	390	3,1	129 - 149
107 300 11	7331002905066	KIMA WFM 120	500	7,2	430	3,6	117 - 135
107 300 02	7331002905073	KIMA WFM 120	500	8,0	470	4,0	107 - 124
107 300 03	7331002905080	KIMA WFM 120	500	10,2	635	5,1	79 - 92
107 300 04	7331002905097	KIMA WFM 120	500	12,6	760	6,3	66 - 77
107 300 12	7331002905103	KIMA WFM 120	500	14,8	880	7,4	57 - 66
107 300 05	7331002905110	KIMA WFM 120	500	17,0	975	8,5	52 - 60
107 300 06	7331002905127	KIMA WFM 120	500	21,0	1300	10,5	39 - 45
E 89 878 64	7331002905134	KIMA WFM 120	500	26,0	1550	13,0	32 - 38



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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 120** should be installed as a fixed installation and min installation temperature is +5°C.
- **KIMA WFM 120** should be installed with the following equipment: RCD max 30 mA and any of KIMAs electronic floor thermostat with external floor sensor.
- **KIMA WFM 120** should only be used for under floor heating and installed in concrete, self levelling compound or tile glue.
- **KIMA WFM 120** can not be installed in timber floor construction or in direct contact with combustible or/and temperature sensitive material.
- **KIMA WFM 120** should be installed on a flat and smooth self supporting floor construction with a min thickness of 30 mm of concrete or selflevelling compound under the mat. (Smaller thicknesses will have larger risk for overheating). 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 120** sticky side should 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 120** 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 120** 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 to install **KIMA WFM 120** in floor areas witch will be covered with fixed installed furniture's, wardrobes, kitchen cupboards, toilets, bathtubs, etc. their will be a risk for overheating and damage of the cable.
- **KIMA WFM 120** should be installed with one of KIMAs electronic under floor thermostats with separate floor sensor. If their is combustible material in the floor construction or floor surface must use a KIMA electronic floor thermostat with external floor sensor and max temperature limit 30°C , according to standard EN 60335-1.
- **KIMA WFM 120** 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 120** table (+10% / -5% according to standard).

## Installation in concrete, self levelling compound or tile glue

The self supported floor construction should be strong so it will never crack and have min 30 mm tick layer of concrete or selflevelling compound under **KIMA WFM 120**.

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 120** 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 120** installation direction, cut carefully the mat, without damaging the heating cable, and change direction.
5. Don't install **KIMA WFM 120** in areas where risk for drilling or where nails and screws can be installed or areas wich will be covered with fixed installed furniture's, wardrobes, kitchen cupboards, toilets, bathtubs, etc. Leave 50 mm free from the wall so their will be no risk of damaging **KIMA WFM 120** when installing floor list and other materials.
6. Don't separate the heating cable from the mat. Don't cut of the heating cable.
7. The thermostats 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 120** should be measured and compared.
9. Make a drawing or take a picture of **KIMA WFM 120** installation pattern, and mark where the thermostat, floor sensor and the splices of the heating cable are installed.
10. Cover **KIMA WFM 120** with concrete or self levelling compound according to the suppliers instructions. If **KIMA WFM 120** is installed directly in the tile glue fix the tiles directly in the glue according to the suppliers instructions. It's important that their 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 120** 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 to 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 120** 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 completed by the installer and saved next to the main switchboard.