Warranty Certificate

Installation Adress:								Installed Product:	
Name property owner:								Part no/EAN no:	Batch no:
Adres:								Product Type:	
Zip code / Town:								Watt:	Watt/m²:
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:

INST0102008 081013

Installation Instruction KIMA WFMS 150

- Floor heating mat for installation in tail glue, self levelling compound or concrete on flat surfaces.
- **KIMA WFMS 150** should only be installed on self supported concrete constructions according to building regulation.
- **KIMA WFMS 150** can not be installed in areas where there are combustible or temperature sensitive material.
- Flameretardent, single conductor heating cable on mat
- Metallic Sheath, wire covarage.
- Insulation class I
- IP67
- Operating temperature max +70°C
- Min installation temperature +5°C
- Voltage 230 Volt.
- Wattage 150 W/m².
- Width 500 mm.
- Thickness 4,0 mm.
- 4 m coldtail in each end, with metallic sheath.
- Manufactured according to EN60800.
- Complies with RoHs directive 2002/95/EC.

Part no.	EAN no.	Product Type	Length (m)	Wattage (W)	Area (m²)	Tolerance total (Ohm)
107 401 01	7331002903215	KIMA WFMS 150	1,0	75	0,5	670 -776
107 401 02	7331002903222	KIMA WFMS 150	2,0	150	1,0	335 - 388
107 401 03	7331002903239	KIMA WFMS 150	3,0	210	1,5	239 - 277
107 401 04	7331002903246	KIMA WFMS 150	4,0	290	2,0	173 - 201
107 401 05	7331002903253	KIMA WFMS 150	5,0	375	2,5	134 - 155
107 401 06	7331002903260	KIMA WFMS 150	6,2	465	3,1	108 - 125
107 401 07	7331002903277	KIMA WFMS 150	7,0	520	3,5	97 - 112
107 401 08	7331002903284	KIMA WFMS 150	9,2	700	4,6	72 - 83
107 401 09	7331002903291	KIMA WFMS 150	11,0	840	5,5	60 - 69
107 401 10	7331002903307	KIMA WFMS 150	13,0	980	6,5	51 - 59
107 401 11	7331002903314	KIMA WFMS 150	15,4	1180	7,7	43 - 49
107 401 12	7331002903321	KIMA WFMS 150	17,3	1300	8,6	39 - 45
107 401 13	7331002903338	KIMA WFMS 150	19,0	1400	9,5	36 - 42
107 401 14	7331002903345	KIMA WFMS 150	21,0	1580	10,5	32 - 37
107 401 15	7331002903352	KIMA WFMS 150	23,0	1700	11,5	30 - 34
107 401 16	7331002903369	KIMA WFMS 150	25,0	1875	12,5	27 - 31
107 401 17	7331002903376	KIMA WFMS 150	31,0	2350	15,5	21 - 25

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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 WFMS 150** should be installed as a fixed installation and min installation temperature is +5°C.
- **KIMA WFMS 150** should be installed with the following equipment: RCD max 30 mA and any of KIMAs electronic floor thermostat with external floor sensor.
- **KIMA WFMS 150** should only be used for under floor heating and installed in concrete, self levelling compound or tile glue.
- **KIMA WFMS 150** can not be installed in timber floor construction or where their is combustible or/and temperature sensitive material.
- **KIMA WFMS 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 then 200 mm their will be less safty margins for overheating the mat espicially if their is thermal insulation under neath. 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 WFMS 150** 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 WFMS 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 WFMS 150** is 70°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 WFMS 150** 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 WFMS 150** should be installed with one of KIMAs electronic under floor thermostats with separate floor sensor.
- **KIMA WFMS 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 WFMS 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 WFMS 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 WFMS 150** installation direction, cut carefully the mat, without damaging the heating cable, and change direction.
5. Don't install **KIMA WFMS 150** 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 WFMS 150** 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 WFMS 150** should be measured and compared.
9. Make a drawing or take a picture of **KIMA WFMS 150** installation pattern, and mark where the thermostat, floor sensor and the splices of the heating cable are installed.
10. Cover **KIMA WFMS 150** with concrete or self levelling compound according to the suppliers instructions. If **KIMA WFMS 150** 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 WFMS 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 to early. Check with the suppliers of the concrete/self levelling com pound 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 reparing 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.