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ELECTRIC HEATING SYSTEMS

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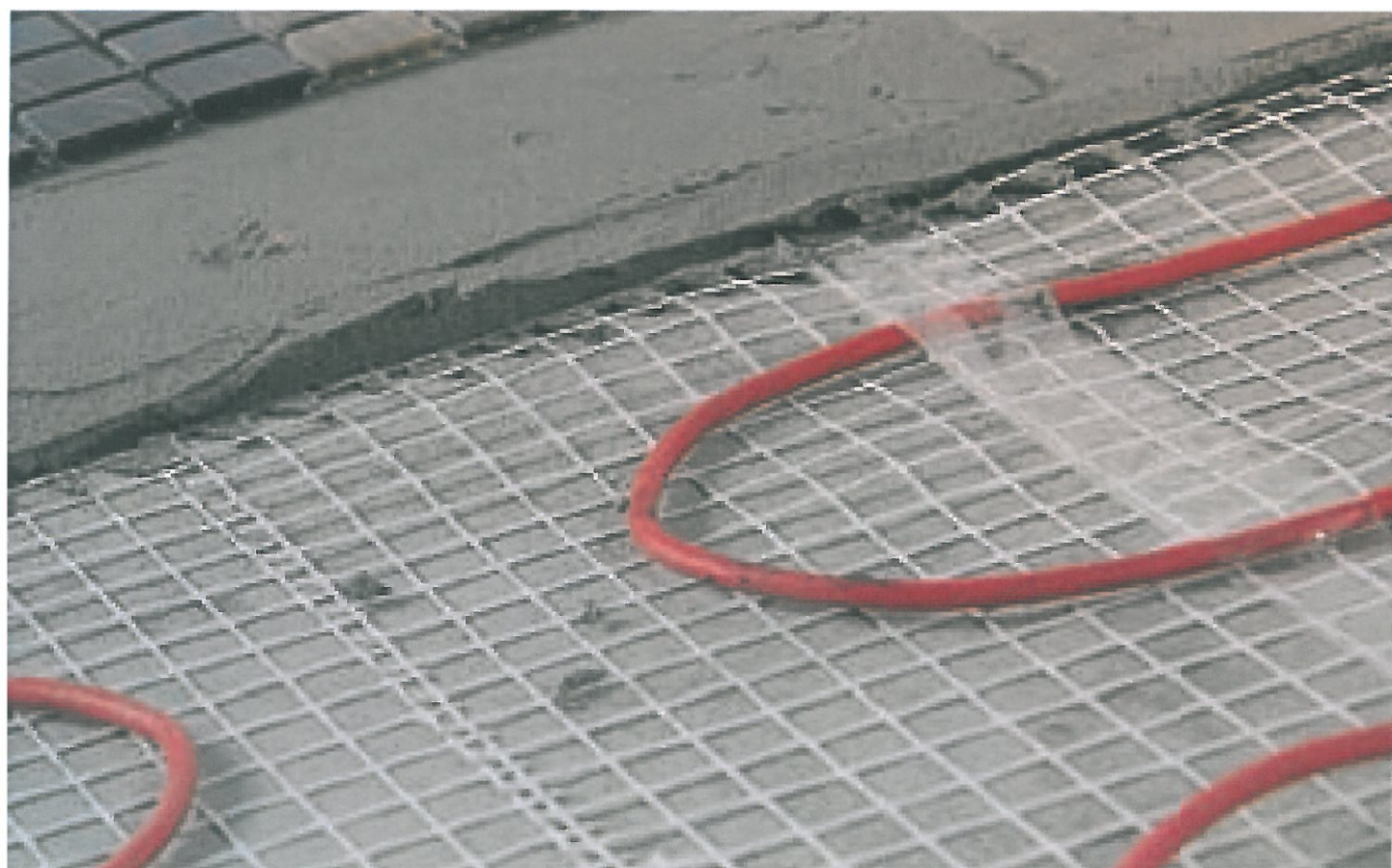
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A group of the heat sources for the floor heating systems. The group main products - heating mats mounted under the floor within the bedding mortar layer on which the floor tiles are placed. The 150 W/m² unit power systems are recommended for heating ceramic floor finish and stone tile flooring. Electric heating mats are easy-to-mount floor heating systems. The mats are being used in house-building industry and industrial building. The system provides relatively quick thermal comfort by even temperature distribution in heated rooms (e.g. bathrooms, bedrooms, vestibules, kitchens, etc.). Besides the heating mats the temperature controllers are being used in the systems. The devices control and adjust temperature and limit the thermal inertia.

HEATING MATS

New



**Heating mat,
single-side powered
MOJ**
page 404

New



**Heating mat,
two-side powered
MOD**
page 404



FLOOR HEATING SETS

New



**Floor Heating Set
STANDARD**
page 405

New



**Floor Heating Set
STANDARD PLUS**
page 405

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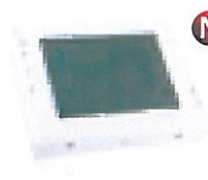
ELECTRIC HEATING SYSTEMS

TEMPERATURE CONTROLLERS



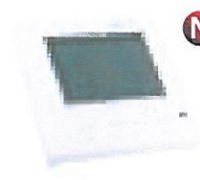
New

**Temperature controller,
manual
RTS-01
page 406**



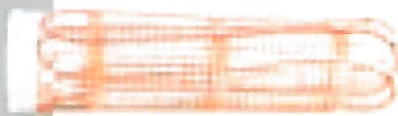
New

**Temperature controller,
programmable
RTS-02
page 407**



New

**Temperature controller,
programmable
RTP-01
page 407**

New

Heating mat, single-side powered **MOJ**

New

Heating mat, two-side powered **MOD**

TECHNICAL DATA

Supply voltage: 230 V, 50 Hz

Unit power: 150 W/m²

Operating temperature: 65 °C

IP protection: IPX 7

EQUIPMENT

- Heating mat with a heating wire, two-core, shielded
- Power lead: H03VV-F 3x0.75mm²
- Flexible conduit for the power lead
- Junction box, flush-mounted, Ø60, deepened
- Instruction manual + Warranty

TECHNICAL DATA

Supply voltage: 230 V, 50 Hz

Unit power: 150 W/m²

Operating temperature: 65 °C

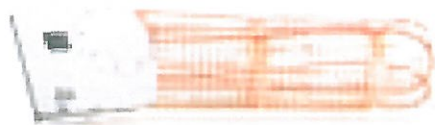
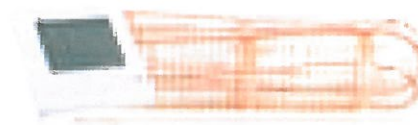
IP protection: IPX 7

EQUIPMENT

- Heating mat with a heating wire, single-core, shielded
- Power leads: YcLXsek 300/500V1x0.75mm²
- Flexible conduit for the power leads
- Junction box, flush-mounted, Ø60, deepened
- Instruction manual + Warranty

Type	Surface	Mat thickness	Moc Power
MOJ-10	1,0 m ²	4,08	150 W
MOJ-15	1,5 m ²	4,48	225 W
MOJ-20	2,0 m ²	4,23	300 W
MOJ-25	2,5 m ²	4,58	375 W
MOJ-30	3,0 m ²	4,18	450 W
MOJ-40	4,0 m ²	4,38	600 W
MOJ-50	5,0 m ²	4,58	750 W

Type	Surface	Mat thickness	Power
MOD-10	1,0 m ²	3,09	150 W
MOD-15	1,5 m ²	3,22	225 W
MOD-20	2,0 m ²	3,34	300 W
MOD-25	2,5 m ²	3,59	375 W
MOD-30	3,0 m ²	3,39	450 W
MOD-40	4,0 m ²	3,39	600 W
MOD-50	5,0 m ²	3,46	750 W

New**New**

Floor Heating Set STANDARD

TECHNICAL DATA

Supply voltage: 230 V, 50 Hz
 Unit power: 150 W/m²
 Operating temperature: 65 °C
 IP protection: IPX 7

EQUIPMENT

- Heating mat with a heating wire, single-core, shielded
- RTS-01 Temperature controller, manual, with a floor temperature sensor
- Flexible conduit for the power leads
- Flexible conduit with a casing for a temperature sensor
- Junction box, flush-mounted, Ø60, deepened
- Instruction manual + Warranty

Floor Heating Set STANDARD PLUS

TECHNICAL DATA

Supply voltage: 230 V, 50 Hz
 Unit power: 150 W/m²
 Operating temperature: 65 °C
 IP protection: IPX 7

EQUIPMENT

- Heating mat with a heating wire, two-core, shielded
- RTP-01 Temperature controller, programmable, with a floor temperature sensor
- Power lead: H03VV-F 3x0.75mm²
- Flexible conduit for the power lead
- Flexible conduit with a casing for a temperature sensor
- Junction box, flush-mounted, Ø60, deepened
- Instruction manual + Warranty

Type	Surface	Mat thickness	Power
Z0D-10	1,0 m ²	3,09	150 W
Z0D-15	1,5 m ²	3,22	225 W
Z0D-20	2,0 m ²	3,34	300 W
Z0D-25	2,5 m ²	3,59	375 W
Z0D-30	3,0 m ²	3,39	450 W
Z0D-40	4,0 m ²	3,39	600 W
Z0D-50	5,0 m ²	3,46	750 W

Type	Surface	Mat thickness	Power
Z0I-10	1,0 m ²	4,08	150 W
Z0I-15	1,5 m ²	4,48	225 W
Z0I-20	2,0 m ²	4,23	300 W
Z0I-25	2,5 m ²	4,58	375 W
Z0I-30	3,0 m ²	4,18	450 W
Z0I-40	4,0 m ²	4,38	600 W
Z0I-50	5,0 m ²	4,58	750 W

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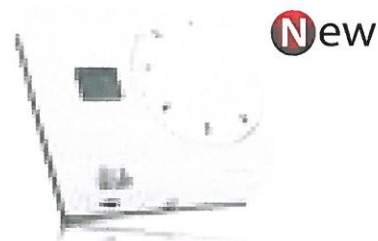
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TEMPERATURE CONTROLLERS

A group of temperature controllers which precisely control and adjust temperature, and limit the thermal inertia. There are two system versions available: flush-mounted and surface-mounted.



Temperature controller, manual

RTS-01

Description Surface-mounted, manual temperature controller interoperates with either electric or water floor heating systems. It controls temperature with the use of a built-in internal sensor or an external floor sensor. Wall-mounted. Mounting within Ø60 junction box possible. The floor sensor included.

Features

- The LCD display showing current room temperature
- The economic and comfort operating modes
- User-friendly operation

Supply voltage	100 ÷ 240 V AC 50/60 Hz
Room temperature control range	+5 ÷ 30 °C
Floor temperature control range	+5 ÷ 40 °C
Temperature measurement accuracy	±1 °C
Operating temperature	-5 ÷ +50 °C
Type of output	relay 5A at 230V AC
Rated power	0,35 W - standby mode
NTC temperature probe	NTC 100 K at 25 °C
Connecting leads section	0,5 ÷ 1,5 mm ²
Protection degree of casing	IP21
Protection class	II
Overvoltage category	II
Dimensions	86 x 86 x 38 mm
Weight	160 g
Colour	white



Temperature controller, programmable

RTS-02

Surface-mounted, programmable temperature controller interoperates with either electric or water floor heating systems. Fitted with the battery backup. It controls and adjusts temperature by means of: the room sensor, the floor sensor, the room sensor with the floor temperature limit. Mounting within Ø60 junction box possible.

- The big LCD display
- Simultaneous displaying the room real temperature and the programmed temperature
- Continuous memory of programmable settings and user's settings
- Programming for 4 separated time / temperature ranges for the given day
- Antifreeze function
- Pump protection function
- Seven-day programmer (5+1+1)

Temperature controller, programmable

RTP-01

Surface-mounted, programmable temperature controller interoperates with electric floor heating systems. It controls and adjusts temperature by means of: the internal sensor, the external sensor (floor sensor) the internal sensor and the external one that limits temperature. Seven-day programmer (5+2). Mounting within Ø60 x 60 mm junction box (deepened) possible.

- The LCD display with big and legible symbols
- Blue, even display highlight
- Screen display of the internal and external sensor readings
- Screen display of time and the current control programme data
- Protection against over-temperature and antifreeze function
- Programming for 4 separated time ranges for the given day

MATEC System also offers a possibility of the floor heating control by means of EXTA module controllers designed for mounting on TH-35 DIN rail. Compatible controller types are:
RTM-01;
RTM-20;
RTM-30.

Description on the following pages:
180 - 189

100 ÷ 240 V AC 50 Hz

+5 ÷ 50 °C

+5 ÷ 50 °C

±1 °C

-5 ÷ +50 °C

relay 16 A at 250 V AC

0,4 W - standby mode

NTC 100 K at 25 °C

0,5 ÷ 1,5 mm²

IP21

II

II

90 x 115 x 29 mm

230 g

white

85 ÷ 265 V AC 50/60 Hz

+5 ÷ 45 °C

+5 ÷ 45 °C

1NO-16A/250V AC1 4000VA

NTC 5K at 25 °C

0,5 ÷ 2,5 mm²

IP40

86 x 86 x 46 mm

190 g

exta

exta free

sundi

cet

matec

entra

gardi

stro

etro

ynsta

xpo

exta
exta free
sundi
cet
matec
entra
gardi
siro
etero
ynsta
expo

