

RBM

NEW PRODUCTS
RELEASE 2021

RBM

NEW PRODUCTS

RELEASE 2021


RBM
Brass

RBM Brass

HYDROTERMIC SYSTEM

-Stop Leak

- Magnetic dirt separators

- Wall flush Boxes for DHW Systems

Stop Leak

RBM Brass

WITH STOP LEAK YOUR PROPERTY IS SAFER



Stop Leak is the result of the latest technology for water leakage detectors. Stop Leak is the only system available on the market that is able to detect leaks on a hydraulic system in the order of 0.2 l/h, a little less than a standard glass.



STOP LEAK avoids serious damages shutting down water supply.



WATER IS PRECIOUS

By avoiding waste or flooding, the system is an efficient solution to optimize use of water, promoting a responsible management of this precious resource.

3897



Stop Leak
Electronic water leak detector.

Device that trips when leaks and abnormal energy consumption are detected, by cutting the power supply off and thus preventing flooding or unwanted consumption.

The Stop Leak system is composed of:
Motorised shut-off valve;
Thermodynamic micro-leak detection sensor;
Control electronics with potential-free contact interface and status remote control;
Management and commissioning App;
Bluetooth protocol for commissioning and LORA for communication;
Remote display (only supplied with codes 3897.05.10 and 3897.06.10).

- Sensitivity: 0.2 l/h
- Reaction time: programmable
- Tripping threshold: programmable
- Temperature Range: 0 - 60°C
- Power supply: 12V - 24V AC/DC

NEW

Electronic system water leak detector with motorised shut-off valve
Détecteur électronique des fuites d'eau dans une installation avec vanne d'arrêt motorisée
Электронный течеискатель утечек воды из системы с моторизованным отсечным клапаном
Detector electronic de scurgeri de apă din instalație cu supapă de interceptare motorizată
Detector electrónico de fugas de agua del sistema con válvula de interceptación motorizada
Elektronisches Lecksuchgerät für Wasserverluste aus der Anlage mit motorisiertem Absperrventil

Code	Size	Kv (m³/h)	Pack	Carton
3897.05.00	3/4"	2,5	1	1
3897.06.00	1"	4,3	1	1

Patent nr. 277370
(-) price on request

Electronic system water leak detector with motorised shut-off valve and remote control
Détecteur électronique des fuites d'eau dans une installation avec vanne d'arrêt motorisée et contrôle à distance
Электронный течеискатель утечек воды из системы с моторизованным отсечным клапаном и дистанционным управлением
Detector electronic de scurgeri de apă din instalație cu supapă de interceptare motorizată și control de la distanță
Detector electrónico de fugas de agua del sistema con válvula de interceptación motorizada y control remoto
Elektronisches Lecksuchgerät für Wasserverluste aus der Anlage mit motorisiertem Absperrventil und Fernsteuerung

Code	Size	Kv (m³/h)	Pack	Carton
3897.05.10	3/4"	2,5	1	1
3897.06.10	1"	4,3	1	1

Patent nr. 277370
PRODUCT IN PROGRESS
(-) price on request

Electronic system water leak detector
Détecteur électronique des fuites d'eau dans une installation
Электронный течеискатель утечек воды из системы
Detector electronic de scurgeri de apă din instalație
Detector electrónico de las fugas de agua del sistema
Elektronisches Lecksuchgerät für Wasserverluste aus der Anlage

Code	Size	Kv (m³/h)	Pack	Carton
3788.06.20	1"	4,3	1	1

Patent nr. 277370
(-) price on request

Protection of your system from leaks or unwanted energy consumption during system downtime.
Prevention from any damage due to water leaks.
Saving on energy consumption.
Advantages for the community (water resource protection device).
Possibility to reduce your home insurance premium.
Easy, smart programming.
The system is designed to adapt to the system conditions of use thanks to its self-learning logic.

MG2®

UNDER-BOILER MAGNETIC SLUDGE REMOVER FILTER

DOUBLE MAGNET, TRIPLE FILTERING ACTION

RBM Brass



OPERATING PRINCIPLE:

Through its effective and constant action, the magnetic filter collects all the impurities, preventing them from circulating, thus avoiding wear and damage of the rest of the components making up the system, circulators and heat exchangers in particular. MG2 performs a continuous protective action on the boiler.

USE:

It is advised to install MG2 on the return circuit, at the inlet of the boiler, in order to protect it from any impurities in the system, especially during the start-up phase.
Thanks to its compact dimensions, it can be installed under the boiler, in systems for domestic use, where installation spaces are very limited and there is no room for a traditional dirt separator.

THE SYSTEM WATER IS FILTERED THROUGH THREE ACTIONS:

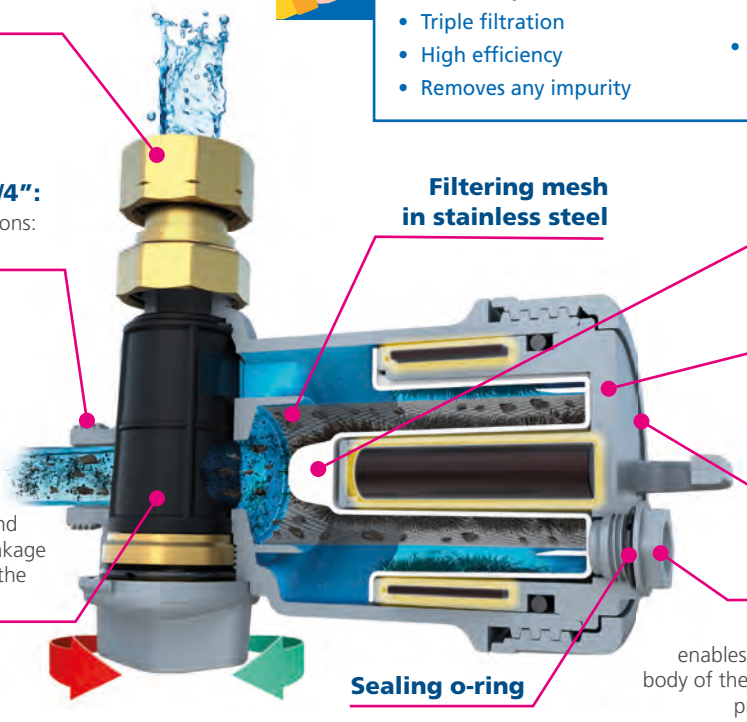
1. The dirty water is conveyed around the central magnet which attracts the magnetic residues (first magnetic filtration)
2. The water passes through the metal mesh (mechanical filtration of non-magnetic impurities)
3. The water touches the external walls of the filter where it meets an 8-magnet crown (second magnetic filtration)

- Super compact
- Shut-off system included
- Triple filtration
- High efficiency
- Removes any impurity
- Fights corrosion
- Increases the lifespan of the boiler
- Ensures system efficiency

Swivel connection
it enables to easily connect the filter to connection G 3/4"M of the boiler.

Threaded connections G 3/4":
Only one type of threaded connections: maximum installation versatility.

Shut-off system:
During maintenance, it allows to isolate the filter from the delivery and return circuit. This minimises the leakage of already treated water present in the closed circuit.



Filtering mesh in stainless steel

Magnet protection conduit, removable

Closure

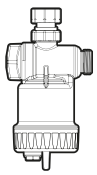
Tightening ring nut

Sealing o-ring

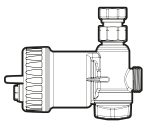
Safety drain plug:
enables to drain the fluid from the main body of the filter and, therefore, to perform programmed cleaning operations.

MAXIMUM INSTALLATION VERSATILITY

MG2 can be installed horizontally or vertically, the shank with rotary nut included in the pack is used to connect the boiler and the connection on the circuit can be made with a flexible fitting (accessory 3174.05.30).



VERTICAL ASSEMBLY



HORIZONTAL ASSEMBLY

3715



MG2
Under-boiler magnetic sludge remover filter.

Plastic polymer cartridge holder body.
Stainless steel AISI 304 filtering cartridge.
Elastomer hydraulic seals.
Threaded connections MF UNI-EN-ISO 228.

- Max operating pressure 3 Bar
- Operating temperature 0÷90° C
- Neodymium magnet
- Filtering grade 800 µm

Under-boiler magnetic sludge remover filter
Filtre séparateur de boues magnétique sous-chaudière
Магнитный фильтр-грязеотделитель под котлом
Filtru denisipator magnetic aflat sub centrală
Filtro desfangador magnético bajo-calentador
Magnetischer Schlammabscheider unter dem Heizkessel

Code	Size	Kv (m³/h)	Pack	Carton
3715.05.10	G 3/4"	4,65	1	6

Patent pending

Super compact.
Shut-off system included.
Triple filtration.
High efficiency.
Removes any impurity.
Fights corrosion.
Increases the lifespan of the boiler.
Maintains optimum system efficiency.



SEP MG COMPACT

HYDRAULIC SEPARATOR, DEGASSER AND MAGNETIC SLUDGE REMOVER FILTER

RBM Brass

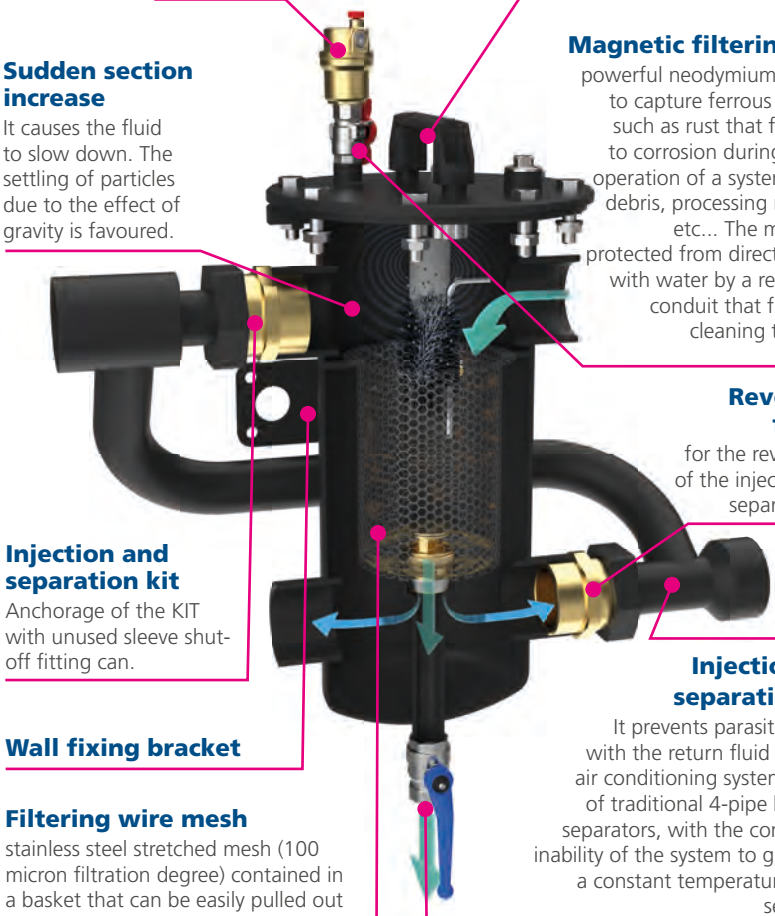
IDEAL FOR INSTALLATION IN BOILER ROOMS



SEP MG Compact concentrates in a single compact component the functions of a hydraulic separator, magnetic sludge remover filter and degasser, suitable for protecting and separating the primary and secondary circuits of central heating and cooling unit plants.

SEP MG Compact allows you to solve:
• hydraulic separation system problems where, among other things, a constant power supply temperature to the utilities is required for the absence of uncontrollable mixing phenomena;
• the elimination of pollution by sand and rust particles formed as a result of corrosion and scaling, reducing the danger of wear and consequent damage to all components making up the system.

- Ensures hydraulic separation between the primary and secondary circuits.
- Removes any impurity.
- It ensures the energy and functional efficiency of the system.
- Typical application in industrial, commercial and medium and large-scale civil systems.
- Reinforced stainless steel filtering mesh with 100 micron filtering degree.
- Equipped with an easily accessible dosing point for adding treatment chemicals.
- Limited overall dimensions (in relation to the product category).
- Reversible connections.
- Optional in-line installation on boiler rooms.
- Reduced maintenance costs:
  -magnet protected from contact with water, easy to clean;
  -the large removable basket with bottom check valve prevents impurities from falling into the cylindrical body;
  -the large filtering surface reduces the frequency of filter maintenance;
  -the possibility of cleaning the filter without emptying completely reduces the amount of chemical additives to be replenished after each maintenance operation.
- Anti-condensation insulation casing and filter clogging control gauges on request.



Automatic air venting valve
to eliminate air at the filling stage, complete with the ball shut-off valve.

Inspection cover

Sudden section increase
It causes the fluid to slow down. The settling of particles due to the effect of gravity is favoured.

Magnetic filtering unit
powerful neodymium magnet to capture ferrous particles such as rust that form due to corrosion during normal operation of a system, metal debris, processing residues, etc... The magnet is protected from direct contact with water by a removable conduit that facilitates cleaning the filter.

Revolving fitting
for the reversibility of the injection and separation kit

Injection and separation kit
Anchorage of the KIT with unused sleeve shut-off fitting can.

Injection and separation kit:
It prevents parasitic mixing with the return fluid from the air conditioning system, typical of traditional 4-pipe hydraulic separators, with the consequent inability of the system to guarantee a constant temperature on the secondary circuit;
• Eliminates thermal stratification phenomena and eliminates the need to reverse the connections for hot and cold distribution;
• Absence of any reciprocal influence between the primary and secondary circuit pumping system;
• Absence of a return circulation even if one of the two circuits stops pumping completely.

Wall fixing bracket

Filtering wire mesh
stainless steel stretched mesh (100 micron filtration degree) contained in a basket that can be easily pulled out from above. This is equipped with an automatic closing shutter, located at the bottom, to prevent impurities from leaking during maintenance.

Bottom valve
for draining the separated, decanted and accumulated material inside the basket.

KEY : Dirty water → Clean water →

3813



Sep MG Compact

Inspectable hydraulic separator with compact magnetic sludge remover filter for thermo-cooling control units.

Main body in painted steel on the outside.
Steel cover painted on the outside.
Ball valve body and air vent valve in brass.
Elastomer seals.
AISI stainless steel filter basket.
Threaded process connections UNI EN ISO 228.

- Pressure class PN10
- Max operating temperature 95 °C
- Neodymium magnet
- Degree of filtration 100 µm

Inspectable hydraulic separator with compact magnetic sludge remover filter for thermo-cooling control units
Séparateur hydraulique contrôlable avec filtre magnétique compact pour systèmes de chauffage climatisation.
Гидравлический сепаратор с возможностью осмотра с компактным магнитным фильтром-грязеуловителем для котельных системы отопления и охлаждения
Separator hidraulic inspectabil cu filtru denisipator magnetic compact pentru centrale termo-frigorifice
Separador hidráulico inspeccionable con filtro desfangador magnético compacto para centrales de termo-refrigerador
Inspizierbarer hydraulischer Abscheider mit kompaktem magnetischem Schlammabscheider für Heiz-/Kühlzentralen

Code	Size	Kv (m³/h)	Pack	Carton
3813.09.00	G 2"	87,00	1	1

Patent pending

Hydraulic separation.
Direct magnetic filtration.
Inspectionability.
Degassing.
Sludge removal.
Anti-condensation insulation casing available upon request.

008B

SEP MG COMPACT

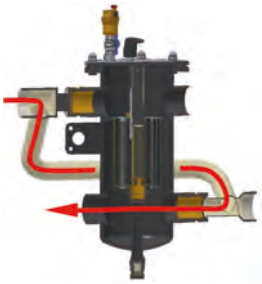


Fig 3

BEHAVIOUR WITH NO PRIMARY OR SECONDARY FLOW

Figures 3 and 4 show the flows generated by the operation of the primary and secondary circuits respectively.

In no case **SEP MG Compact** will trigger an eddy flow with unwanted circulation through the stand-by circuit.

With the circulation of only the secondary, the separator will carry out its specific task of magnetic filtration.



Fig 4

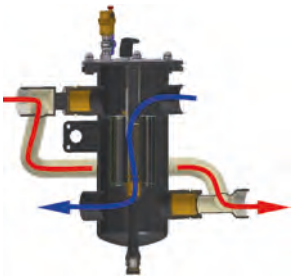


Fig 5

BEHAVIOUR WITH PRIMARY FLOW = SECONDARY FLOW

This is the classic representation of the flows generated under the condition that the flow rate of the secondary circuit equals that of the primary circuit.

SEP MG Compact performs its filtering, degassing and dirt separation function with respect to the entire return flow from the secondary circuit.

The particular conformation of **SEP MG Compact** eliminates all the problems associated with parasitic circulation along the vertical walls of the hydraulic separator (see figure 1) amplified by the stratifying action of the traditional separator.

And it is precisely the absence of the stratification phenomenon that allows the **SEP MG Compact** to be supplied with hot and cold water while maintaining the inlet position of the pipes.

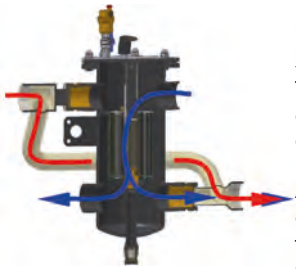


Fig 6

BEHAVIOUR WITH ONE CIRCUIT HAVING A FLOW RATE PREVAILING OVER THE OTHER

The illustration in figure 6 shows the case where the secondary circuit requires a higher flow rate than that supplied by the primary circuit

Also in this case, the **SEP MG Compact** will perform the task of hydraulic separation between the circuits, guaranteeing the magnetic filtration of the entire flow rate coming from the secondary circuit. Figure 7 shows the opposite situation where the excess flow rate of the primary circuit will be bypassed due to the presence of the **SEP MG Compact**.

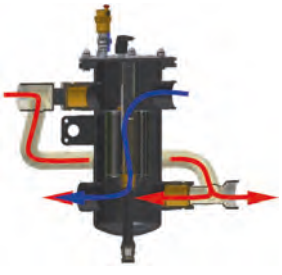


Fig 7

3833



MP2
Self-cleaning magnetic sludge remover filter for heating pump.

Brass diverter valve body.
Plastic polymer cartridge holder body.
Stainless steel AISI 304 filtering cartridge.
Elastomer hydraulic seals.
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 6 Bar
- Operating temperature 0 - 90 °C
- Neodymium magnet B = 11000 gauss
- Filtering grade 800 µm

Self-cleaning magnetic sludge remover filter for heating pump
Filtre séparateur de boues magnétique autonettoyant pour pompe à chaleur
Самоочищающийся магнитный фильтр-грязеотделитель для теплового насоса
Filtru denisipator magnetic cu autocurățare pentru pompă de căldură
Filtro desfangador magnético autolimpiante para bomba de calor
Selbstreinigender magnetischer Schlammabscheider für Wärmepumpe

Code	Size	Kv (m³/h)
3833.06.00	G 1"	7,51

008A

MP2
COMPACT MAGNETIC SLUDGE REMOVER FILTER FOR HEAT PUMPS

MP2 is a compact magnetic sludge remover filter for heat pumps, complete with removable magnet and discharge ball cock.

MP2 is particularly suitable for protecting the heat pumps used in domestic systems. The built-in total passage shut-off system makes the installation overall dimension very small.

- High performance technopolymer body.
- AISI 304 stainless steel reinforced filtering cartridge.
- Elastomer hydraulic seals.
- Max operating pressure 6 Bar.
- Operating temperature 0 - +90 °C.
- Neodymium magnet B = 11000 gauss.
- Filtering grade 800 m.



FEATURES:

- **Very low pressure drops;**
- **Direct filtration with an 800 micron mesh, with other degrees of filtration available (up to 100 micron);**
- **Extra connections for temperature and/or pressure probes;**
- **Insulation (optional).**

- Removes any impurity;
- Excellent hydraulic properties;
- Can be mounted on vertical, horizontal and diagonal piping;
- Extends the lifespan of heat pumps;
- Fights corrosion;
- Ensures system efficiency;
- Easy dosing of the treatment fluids with 0.3 L doses;
- Built-in total passage shut-off system.

>BiBox

REVERSIBLE HOUSING BOX

For manifolds for **sanitary systems.**



Flush wall installation or with external door

Mortar protection included

PATENT PENDING

Reversible housing box for sanitary system manifolds.

Suitable for flush wall installations or with external door. Can be inserted in partition walls with 80 mm boxed structures or in plasterboard with 75 mm uprights.

Suitable for plasterboard and masonry walls

Reversible cover: Flush wall installation or with external door

Lightweight structure that can be installed using dowels and self-tapping screws

Universal: for all types of manifolds

Adjustable depth

Paintable cover

3827



BiBox
Box for sanitary manifold, classic installation and flush with the wall.

Reversible and telescopic frame.
Suitable for classic installations with external cover plate or flush with the wall.
Can also be inserted in partition walls with 8 cm boxed structures, plastered on both sides. Can be inserted in plasterboard with 75 mm or longer uprights.

NEW

Box for sanitary manifold, classic installation and flush with the wall
Coffret pour collecteur sanitaire, installation classique et à ras le mur
Шкаф для коллектора воды для хозяйственных нужд, классическая установка вровень со стеной
Casetă pentru colector sanitar, montare clasică şi îngropată în perete
Caja para colector sanitario, instalación clásica a ras de pared
Kasten für Brauchwarmwasser-Sammelbehälter, klassischer und wandbündiger Einbau

Code	LxH (mm)	Pack	Carton
3827.29.00	290x270	1	1
3827.39.00	390x270	1	1
3827.49.00	490x270	1	1

Bottom depth 80 - 92 mm
Frame adjustment stroke 35 mm

Presence of 3 guides for the manifold support to be secured.
On all sides there are removable inserts for the pipes to be passed.
Threads M6 pitch 1 to adjust the telescopic frame.
On the external part of the bottom there is a grid to facilitate adhesion of the mortar in masonry works.
Pre-holes for suitable dowels or screws to be used to be secured in the plasterboard or accessory use.
Removable frame (12 mm).
Brackets for fixing manifolds supplied separately.

012B

3828



Sanitary manifold box.

Plastic box.
Removable cover included.
Paintable cover.
Maximum adjustable height 100 mm
Can also be inserted in partition walls with 8 cm boxed structures, plastered on both sides.

NEW

Sanitary manifold box
Coffret pour collecteur sanitaire
Шкаф для коллектора воды для хозяйственных нужд
Casetă pentru colector sanitar
Caja para colector sanitario
Kasten für Brauchwarmwasser-Sammelbehälter

Code	LxH (mm)	Pack	Carton
3828.29.00	290x270	1	1
3828.39.00	390x270	1	1
3828.49.00	490x270	1	1

Bottom depth 80 - 92 mm

Brackets for fixing manifolds supplied separately.
Removable frame 12 mm.

012A

RBM Kilma

RADIANT HEATING AND COOLING

- Insulating panels

- Radiant integration electrical systems

- Housing boxes

Kilma Futura

SIMPLE - PRACTICAL - EFFICIENT

The new high efficiency radiant air conditioning system for dry installation

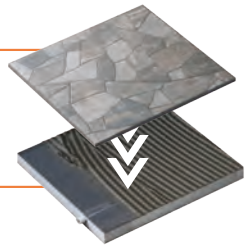
KILMA FUTURA is a revolutionary high efficiency radiant air conditioning system, suitable for dry floor, wall and ceiling installation. If installed on the floor, **KILMA FUTURA** does not require a screed, therefore, it has very small overall dimensions.
Kilma Futura eliminates downtime in the site caused by waiting times for the screed to dry and consequently, guarantees immediate walkability. Lastly, thanks to the absence of the screed, it is possible for systems to be installed with very low thermal inertia.



- No cement screed is needed
- Maximum comfort
- Total thickness less than 3 cm
- Low thermal inertia: heats up in a few minutes
- Floor, wall, ceiling installation
- Quick and easy to install
- Great savings
- Can be used in heating or cooling
- Ideal for restorations and new homes with high energy efficiency!

FLOOR INSTALLATION

Floor laid directly on the panel



CERAMIC FINISH

1 Perimeter expansion joint
2 Glue for fixing the panel to the substrate
3 Kilma-Futura Panel
4 Pipe Kilma-Flex PE-RT Ø16x2 mm
5 If necessary, aluminised tape to block the pipe on the bends (about 1 m/m2)
6A Protection epoxy primer (e.g. PRIMER MF RBM by Mapei)
6B Superior glue gripping primer (not supplied)
7 Glue for tiles (not supplied)
8 Tiles (minimum dim. 25x25 cm or in alternative 15x30 cm strips)
9 Skirting board



PARQUET FINISH

TYPE 1 WITH FLOATING PARQUET

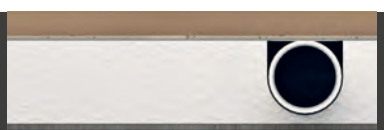
1 Perimeter expansion joint
2 Glue for fixing the panel to the substrate
3 Kilma-Futura Panel
4 Pipe Kilma-Flex PE-RT Ø16x2 mm
5 If necessary, aluminised tape to block the pipe on the bends (about 1 m/m2)
6 PE protective sheet
7 Any substrate fabric/non-fabric layer (not supplied)
8 Floating parquet placed resting on the underlying surface
9 Skirting board



TYPE 2 WITH GLUED PARQUET

1 Perimeter expansion joint
2 Glue for fixing the panel to the substrate
3 Kilma-Futura Panel
4 Pipe Kilma-Flex PE-RT Ø16x2 mm
5 If necessary, aluminised tape to block the pipe on the bends (about 1 m/m2)
6 IsolTile support mat (with adhesive)/IsolTile (without adhesive, requires glue not supplied by RBM) by Isolmant (not supplied)
7 Glue for parquet (not supplied)
8 Parquet
9 Skirting board





TOTAL THICKNESS
28 mm
(SCALE 1:1)

Kilma Futura

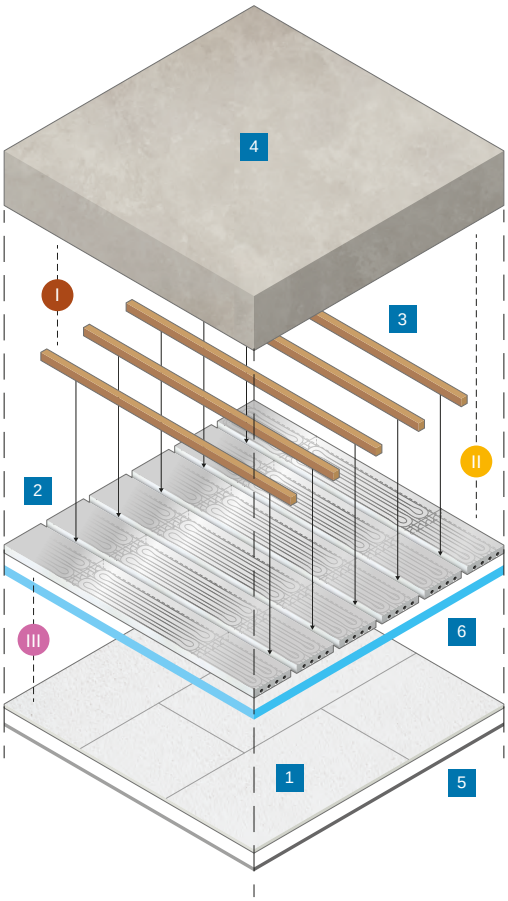
SIMPLE - PRACTICAL - EFFICIENT

The new high efficiency radiant air conditioning system for dry installation

A1

KILMA-FUTURA SYSTEM / CEILING

Version: IN ADHERENCE on the soffit floor slab
Hypothesised finish: 12,5 mm plasterboard slab



COMPONENTS

1 **Plasterboard slab**
approximately 12.5

2 **Kilma Futura Panel Th. 25 mm**
(or other chosen thickness, excluding 17 mm th.)

3 **Wood planks 40x25 mm section**
with possible interruptions of the section to allow the passage of pipe bends and circuit supplies.

4 **Attic (necessarily flat)**

5 **Elastic joint for slabs in plasterboard**
PLEASE NOTE: Any expansion joints to be provided are the responsibility of the plasterer, in compliance with the specific installation specifications for the chosen finish.

6 **Perimeter strip (optional)**

FIXING TYPES

I **Fixing I:**
wood plank on soffit floor slab

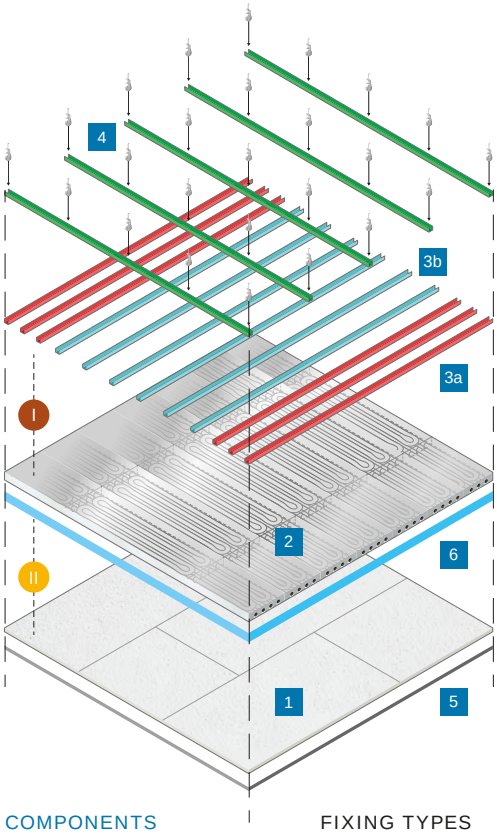
II **Fixing II:**
Futura panel on soffit floor slab
-(flange head screws suitable for EPS)

III **Fixing III:**
lasterboard finish fixed to the wood planks

B1

KILMA-FUTURA SYSTEM / CEILING

Version: HANGING with cavity with DOUBLE OVERLAPPED STRUCTURE
1st level structure pitch RESTRICTED to the installation of the radiant
Hypothesised finish: 12,5 mm plasterboard slab



COMPONENTS

1 **Plasterboard slab**
approximately 12.5

2 **Kilma Futura Panel Th. 25 mm**
(or other chosen thickness, excluding 17 mm th.)

3a **1st Level structure Fine Pitch Zone**
(for supporting the circuit curves)

3b **1st Level structure Straight Zone**
(for supporting the straight sections of the circuits)

Pitch structure restricted

4 **2st level structure + suspension**

5 **Elastic joint for plasterboard slabs**
PLEASE NOTE: Any expansion joints to be provided are the responsibility of the plasterer, in compliance with the specific installation specifications for the chosen finish.

6 **Perimeter strip (optional)**

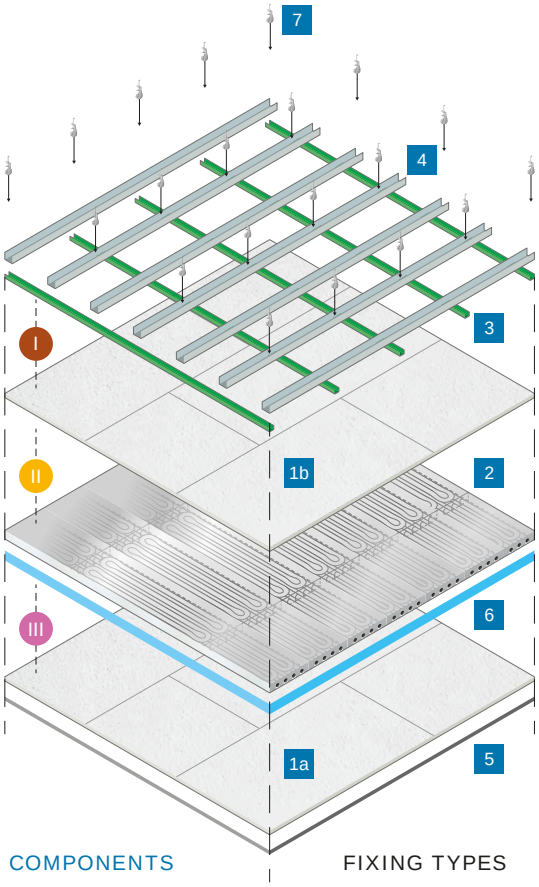
FIXING TYPES

I **Fixing I: Futura panel on 1st level structure**
we recommend:
- "flange head" screws suitable for self-drilling EPS

II **Fixing II: for finishing slab on 1st level structure**

B2 KILMA-FUTURA SYSTEM / CEILING

Version: HANGING with cavity
with DOUBLE OVERLAPPED STRUCTURE
1st level structure pitch NOT RESTRICTED
to the installation of the radiant system.
Hypothesised finish: 12,5 mm plasterboard slab



COMPONENTS

1a **FINISH plasterboard slab**
approximately 12.5

1b **SUPPORT plasterboard slab**
approximately 12.5

2 **Kilma Futura Panel Th. 25 mm**
(or other chosen thickness, excluding 17 mm th.)

3 **1st structure**

FREE STRUCTURE PITCH

4 **2nd level structure**

5 **Elastic joint for plasterboard slabs**
PLEASE NOTE: Any expansion joints to be provided are the responsibility of the plasterer, in compliance with the specific installation specifications for the chosen finish.

6 **Perimeter strip (optional)**

FIXING TYPES

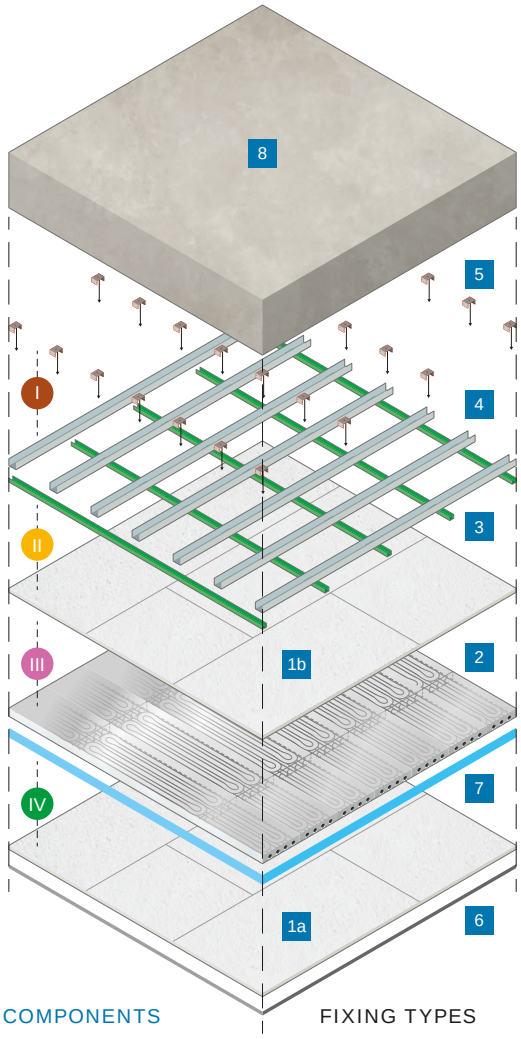
I **Fixing I:**
for support slab (1st slab) on 1st level structure

II **Fixing II:**
Futura panel on 1st level structure
(or on support plasterboard slab) we recommend:
- "flange head" screws suitable for self-drilling EPS

III **Fixing III:**
for finishing slab on 1st level structure

C2 KILMA-FUTURA SYSTEM / CEILING

Version: WITH DOUBLE FLOATING STRUCTURE on soffit floor slab.
Structure pitch NOT RESTRICTED to the installation of the radiant system.
Hypothesised finish: 12,5 mm plasterboard slab



COMPONENTS

1a **FINISH plasterboard slab**
approximately 12.5

1b **REINFORCEMENT plasterboard slab**
approximately 12.5

2 **Kilma Futura Panel Th. 25 mm**
(or other chosen thickness)

3 **1st level structure**
Alternatively it is possible to use a single structure level defining an overall dimension of less than 90 mm.

4 **2nd level structure**

5 **Simple snap hooks with spacer function**

6 **Elastic joint for plasterboard slabs**
PLEASE NOTE: Any expansion joints to be provided are the responsibility of the plasterer, in compliance with the specific installation specifications for the chosen finish.

7 **Perimeter strip (optional)**

8 **Attic (necessarily flat)**

FIXING TYPES

I **Fixing I:**
simple hook for profiles on soffit floor slab

II **Fixing II:**
for support slab (1st slab) on 1st level structure

III **Fixing III:**
for Futura panel on 1st level structure
we recommend:
- "flange head" screws suitable for self-drilling EPS

IV **Fixing IV:**
plasterboard finish on 1st level structure

2926.A



KILMA FUTURA
High efficiency insulation panel for dry installations.

Installation pitch 150 mm; coil circuit laying. Suitable for floor, wall, ceiling and false ceiling installation.

Panel obtained from EPS 300 sheet, milled to allow piping to be laid, top coating with an aluminium layer.

- Real size: 1175x750 mm
- Usable floor area 0.88 m²

HBCD FREE

Dry system insulation panel - Installation pitch 150 mm
Panneau isolant pour système à sec - Pas de pose 150 mm
Изоляционная панель сухого способа укладки - Шаг укладки 150 мм
Panou izolant sistem de tip uscat - Pas de aplicare 150 mm
Panel aislante del sistema en seco - Paso de colocación 150 mm
Isolierplatte Trockensystem - Verlegeabstand 150 mm

Code	Useful Dim. (mm)	Insul. Th. (mm)	Heat Res.	Pack	Pack m²	Pallet m²
2926.17.02	1175x750x17	17	0,265	10	8,80	114,40
2926.25.02	1175x750x25	25	0,587	5	4,40	79,20

KILMA FUTURA

015

2926.B



KILMA FUTURA
High efficiency insulation panel for dry installations.

Installation pitch 100 mm; coil circuit laying. Suitable for floor, ceiling and false ceiling installation.

Panel obtained from EPS 300 sheet, milled to allow piping to be laid, top coating with an aluminium layer.

- Real size: 1175x800 mm
- Usable floor area 0.94 m²

HBCD FREE

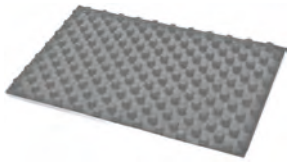
High efficiency insulation panel - Installation pitch 100 mm
Panneau isolant à haute efficacité - Pas de pose 100 mm
Высокоэффективная изоляционная панель - Шаг укладки 100 мм
Panou izolant cu înaltă eficiență - Pas de aplicare 100 mm
Panel aislante de alta eficiencia - Paso de colocación 100 mm
Hocheffiziente Isolierplatte - Verlegeabstand 100 mm

Code	Useful Dim. (mm)	Insul. Th. (mm)	Heat Res.	Pack	Pack m²	Pallet m²
2926.25.12	1175x800x25	25	0,533	5	4,70	84,60
2926.33.12	1175x800x33	33	0,780	5	4,70	65,80
2926.48.12	1175x800x48	48	1,250	5	4,70	47

KILMA FUTURA

015

1001



KILMA-SUPER-STRONG
KILMA-SUPER-STRONG CAM panel

Insulating panel made of sintered expanded polystyrene closed-cell foam, with preformed relief parts for pipe housing, combined with anti-collision polystyrene pre-formed sheet. Suitable panel to make circuits with a 50 mm pitch and multiple circuits.
Coupling with an overlap of the pre-formed foil on one side.

- Real size: 1350x850 mm
- Useful Dim. 1300x800 mm
- Usable floor area 1.04 m²
- Foil thickness 0.6 mm
- EPS 150
- Euroclass E

Compliant with UNI-EN 13163
- UNI 331 IIP certified - HBCD FREE

CAM Certified KILMA-SUPER-STRONG panel (*)
Panneau » Kilma-SUPER-STRONG » Certifié CAM (*)
Панель "Kilma-SUPER-STRONG" с сертификатом CAM (Минимальные природоохранные критерии)(*)
Panou „Kilma-SUPER-STRONG" certificat CAM (*)
Panel KILMA SUPER-STRONG Certificado CAM (*)
Platte „Kilma-SUPER-STRONG" CAM-Zertifizierung (*)

Code	Useful Dim. (mm)	Insul. Th. (mm)	Heat Res.	Pack	Pack m²	Pallet m²
1001.00.30	1300x800x33	10	0,303	18	18,72	93,60
1001.00.40	1300x800x40	18	0,545	14	14,56	72,80
1001.00.50	1300x800x50	28	0,848	10	10,40	52
1001.00.64	1300x800x65	42	1,273	7	7,28	36,40
1001.00.72	1300x800x73	50	1,515	6	6,24	31,20

(*) Panel with "CSI - Recycled plastic" certification. Compliant with the Italian Decree of 11 October 2017, Minimum Environmental Criteria (CAM).

KILMA-ISI

015

KILMA-FUTURA

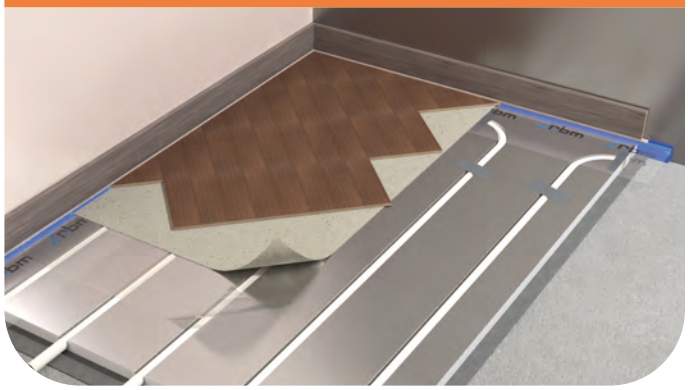
RBM Kilma

INNOVATIVE SYSTEM FOR DRY UNDERFLOOR RADIANT HEATING SYSTEMS

Kilma-Futura system with **ceramic covering glued** directly onto the panel



Kilma-Futura system with **floating parquet covering**



Kilma-Futura system with **glued parquet covering**

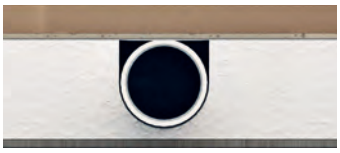




SYSTEM REACHES STANDARD TEMPERATURE IN ONLY 43 MINUTES

(traditional systems: over 6 hours)

ONLY 28 mm



FINISHED
RADIANT UNDERFLOOR SYSTEM **IN 28 MM**

- Without screed
- Ideal for restorations and homes with high energy efficiency
- Low thermal inertia

PAD

RADIANT INTEGRATION ELECTRICAL SYSTEMS

PAD INDOOR

Perfect for applications related to radiant heating and the regulatory need to limit their 29°C floor surface temperature, "PAD INDOOR" self-regulates temperature to about 30°C.



DIMENSIONS AND PERFORMANCE:

PAD INDOOR is available in **30 metre long** and **310 mm wide rolls**. The maximum electrical absorption, adjustable from cold start, is about 30 W per linear metre, equivalent to about 90 W/m2 in case of installation with contiguous strips.

POWER SUPPLY AND PROTECTIONS

PAD INDOOR is powered at very low DC voltage (36 VDC) and is suitable for all applications where the use of low voltage equipment is prohibited, with particular reference to installation on toilet walls and ceilings (CEI 64-8 zone 1) or in case of surfaces with thermal inertia close to zero in the absence of protective coatings (limit imposed by the standard 60 VDC). Combined with its feeder, the installation makes it possible to achieve the SELV safety degree (CEI 64-8 Safety Extra Low Voltage). The absence of electrocution and/or continuous electricity interruption make it possible to cover the system with a simple layer, in order to minimise thermal inertia. The choice of very low DC also prevents the generation of electromagnetic perturbations.

PAD INDOOR can be custom interrupted, joined and shaped around any obstruction present on the support surface.

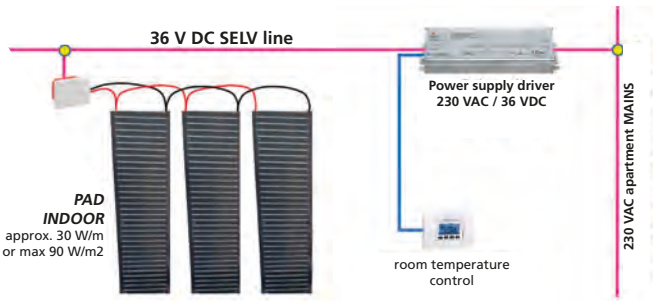


COMMISSIONING SPEED

The electrical absorption is fully and instantly made available in the form of thermal energy. In this way it is possible to reach the maximum surface temperature in about 10 minutes, while the total absence of thermal inertia makes it possible to immediately adjust the electrical absorption during the load modulation stage.

POSSIBLE APPLICATIONS

The 1.2 mm thickness and the possibility of bending it with a bending radius of only 10 mm allows application and adaptation in many contexts, including:
- supplementary radiant heating and/or for rooms not served by the system (cellars, laundries, garages, cottages and farmhouses, shower rooms, etc.);
- supplementary heating systems without modifying the existing system;
- heating systems for discontinued buildings and/or technical rooms where there is a risk for traditional hydronic systems of freezing;
- applications on surfaces subject to fogging and condensation (e.g. bathroom mirrors);
- heating of mobile living elements such as campers, caravans, boats, etc.



SIMPLIFIED ELECTRICAL CONNECTION DIAGRAM

with 600 W driver - possibility to connect
about 20 metres of PAD INDOOR.
with 1,000 W driver, possibility to connect
about 33 metres of PAD INDOOR.

WHAT'S PAD?

It is a **radiant heating system** based on the use of a very thin (1.2 mm) mat made with a **modulating and self-regulating** semiconductor technopolymer, which heats up when electric current passes.

PAD OUTDOOR

Version powered directly by the 230 VAC mains voltage, with a self-adjusted final temperature of about 45°C. Unlike the indoor version, PAD OUTDOOR is incorporated in a protective film that generates double electrical insulation compared to the copper conductor embedded in the polymer along the two sides of the mat.



DIMENSIONS AND PERFORMANCE:

PAD OUTDOOR is available in 30 metre long and 270 mm wide rolls. The maximum electrical absorption, adjustable from cold start, is about 50 W per linear metre , equivalent to about 150 W/m2 in case of installation with contiguous strips.

POSSIBLE APPLICATIONS

The possibility of feeding individually wired branches, up to 20 metres long, allows application on external surfaces with the risk of frost and snow such as, for example, driveways, external stairs, vehicle ramps and transit lanes, terraces or flat roofs, etc.

- suitable for de-icing / defrosting vehicle ramps and pedestrian walkways
- suitable for indoor use for radiant wall integration

POSSIBLE FURTHER APPLICATIONS

PAD OUTDOOR can also be used inside homes to heat limited portions of walls to be used as an alternative integration to the heated towel radiator. PAD OUTDOOR can be covered with a mirror or marble or tile finish, in order to ensure the necessary mechanical protection. This application can also take place inside the bathroom, in zone 3, therefore, 60 cm from the shower or bathtub area.



3857



Pad indoor

Very low voltage and low consumption electric heating mat, made of self-modulating semiconductor technopolymer for radiant floor, wall and ceiling heating, with a double conducting copper cord embedded in the technopolymer.

- Max reachable temperature: 29.8° C
- Power supply: 36 VDC
- Initial power consumption: 28.8 W/m
- Absorption reduction at the beginning of modulation: -10%
- Absorption reduction at the end of modulation while maintaining the final temperature: -50%
- Thermal expansion not appreciable
- Max length of single power supply branch:
- - with 36 VDC power supply up to 7 m
- - option to power several branches in parallel
- Reaction to fire: Class E, Efl UNI EN 13501-1;2019
- Electromagnetic compatibility directive certification
- Low voltage directive certification

Width 310 mm
Thickness 1.2 mm
Roll length 30 m
Minimum bending radius 10 mm

Indoor radiant mat
Matelas rayonnant d'intérieur
Коврик с подогревом, излучающий тепло, для интерьера
Covor radiant de interior
Estera de calefacción para interior
Heizteppich für Innenräume

Code	Power supply	Pack	Carton
3857.00.02	36V DC	30	30

Compatible with normal surface finishes, both on the floor and on the wall/ceiling.
Suitable for radiant integration, wall heating of shower rooms and demisting of mirror finishes in ordinary and special environments where SELV protection is required.

015

3859



Thermally conductive protective sheet to be placed over the Pad Indoor mat, if installed on the floor, to protect from foot traffic and the action of aggressive cements and adhesives.

- Made of carbon-filled nylon

Width 700 mm
Thickness 1 mm
Roll length 20 m

Protective sheet for Pad Indoor
Bâche de protection pour le Tapis chauffant d'intérieur
Защитное полотно для Pad Indoor
Prelată de protecție pentru covoraș de încălzire de interior
Tela de protección para la estera de calefacción para interior
Schutzfolie für Matte in Innenräumen

Code	Pack	Carton
3859.00.02	20	20

Protective accessory to be used only when placing the Pad Indoor on the floor.

015

3858.A



Feeder to control very low voltage current modulating utilities with constant output voltage.

- Power supply: 90 - 305 VAC
- Controllable rated power: 600 W
- Feeder electrical protection: IP 67
- Very low voltage circuit protection: SELV
- - short circuit
- - overload
- - overvoltage
- - overtemperature
- Feeder driver consumption in stand-by: 0.5 W
- Full load efficiency: 96%
- Work environment temperature: -40 to + 70°C
- Max work ambient temperature: peaks at 90°C
- Soft-start curve to limit the starting load
- Electromagnetic compatibility directive certification
- Low voltage directive certification

Consisting of a watertight container without a cooling fan.
Every feeder can control up to a maximum of 20 m of Pad Indoor mat.
Dimensions (LxDxH): 280x144x48.5 mm
Feeder weight: 3.9 Kg

Driver 600 for Pad Indoor
Driver 600 pour le Tapis chauffant d'intérieur
Привод 600 для Pad Indoor
Driver 600 pentru covoraș de încălzire de interior
Driver 600 para la estera de calefacción para interior
Driver 600 für Matte in Innenräumen

Code	Power supply	Pack	Carton
3858.00.02	36V DC	1	1

Suitable driver to power up to 20 m.

015

3858.B



Feeder to control very low voltage current modulating utilities with constant output voltage.

- Power supply: 90 - 264 VAC
- Controllable rated power: 1000 W
- Feeder electrical protection: IP 67
- Very low voltage circuit protection: SELV
- - short circuit
- - overload
- - overvoltage
- - overtemperature
- Full load efficiency: 95.5%
- Work environment temperature: -30 to + 50°C
- Max work ambient temperature: peaks at 70°C
- Soft-start curve to limit the starting load
- Electromagnetic compatibility directive certification
- Low voltage directive certification

Fanless design with free air convection.
Every feeder can control up to a maximum of 33 m of Pad Indoor mat.
Dimensions (LxDxH): 240x1114x41 mm
Feeder weight: 1.74 Kg

Driver 1000 for Pad Indoor
Driver 1000 pour Tapis chauffant d'intérieur
Привод 1000 для Pad Indoor
Driver 1000 pentru covoraș de încălzire de interior
Driver 1000 para la estera de calefacción para interior
Driver 1000 für Matte in Innenräumen

Code	Power supply	Pack	Carton
3858.00.12	36V DC	1	1

Suitable driver to power up to 33 m.

015

3863



Pad outdoor

Low voltage and low consumption electric heating mat, made of self-modulating semiconductor technopolymer for radiant heating, with a double conducting copper cord embedded in the technopolymer. Complete with external cladding, with an aluminium layer on the radiant side and a final waterproof "sandwich" layer in adhesive HDpe with dielectric resin to ensure double electrical insulation with respect to the conductive cords.

- Max reachable temperature: 45° C
- Power supply: 230 VAC
- Initial power consumption: 50 W/m
- Absorption reduction at the beginning of modulation: -5%
- Absorption reduction at the end of modulation while maintaining the final temperature: -30%
- Thermal expansion not appreciable
- Max length of single power supply branch:
- - with 230 VAC power supply up to 20 m
- - option to power several branches in parallel
- Reaction to fire: Class E, Efl UNI EN 13501-1;2019
- Electromagnetic compatibility directive certification
- Low voltage directive certification

Width 270 mm
Thickness 1.25 mm
Roll length 30 m
Minimum bending radius 10 mm

Outdoor radiant mat
Matelas rayonnant d'extérieur
Коврик с подогревом, излучающий тепло, для наружного использования
Covor radiant de exterior
Estera de calefacción para exterior
Heizteppich für den Außenbereich

Code	Power supply	Pack	Carton
3863.00.02	230V AC	30	30

Suitable for de-icing /defrosting vehicle ramps and pedestrian walkways.
Also suitable for indoor use for radiant wall integration in ordinary environments with final mechanical protection (mirror, tiles).

3860



Crimp terminal to connect the part of the mat to the electrical distribution cables.

- Made of nickel-plated steel
- Max wiring section: 2.5 mm^2

Crimp terminals
Bornes à sertir
Обжимные клеммы
Terminale de sertizare
Abrazaderas de crimpado
Crimpklemmen

Code	Pack	Carton
3860.00.02	200	200

015

3861



Double-sided bituminous tape for dielectric sealing of the areas affected by the crimping between the terminal, electrical cable and technopolymer.

Roll length: 20 m
Thickness: 30 mm

Double-sided bituminous tape
Ruban adhésif double face bitumineux
Двусторонний самоклеящийся битумный скотч
Bandă bituminoasă dublu adezivă
Cinta bituminosa de doble cara adhesiva
Bituminöses doppelseitiges Klebeband

Code	Pack	Carton
3861.00.02	20	20

015

3862



Crimping clamp with flat jaws.

Specification for crimp terminals code 3860.00.02

Crimping clamp
Pince à sertir
Обжимные пресс-клещи
Clește sertizare
Pinza crimpadora
Crimpzange

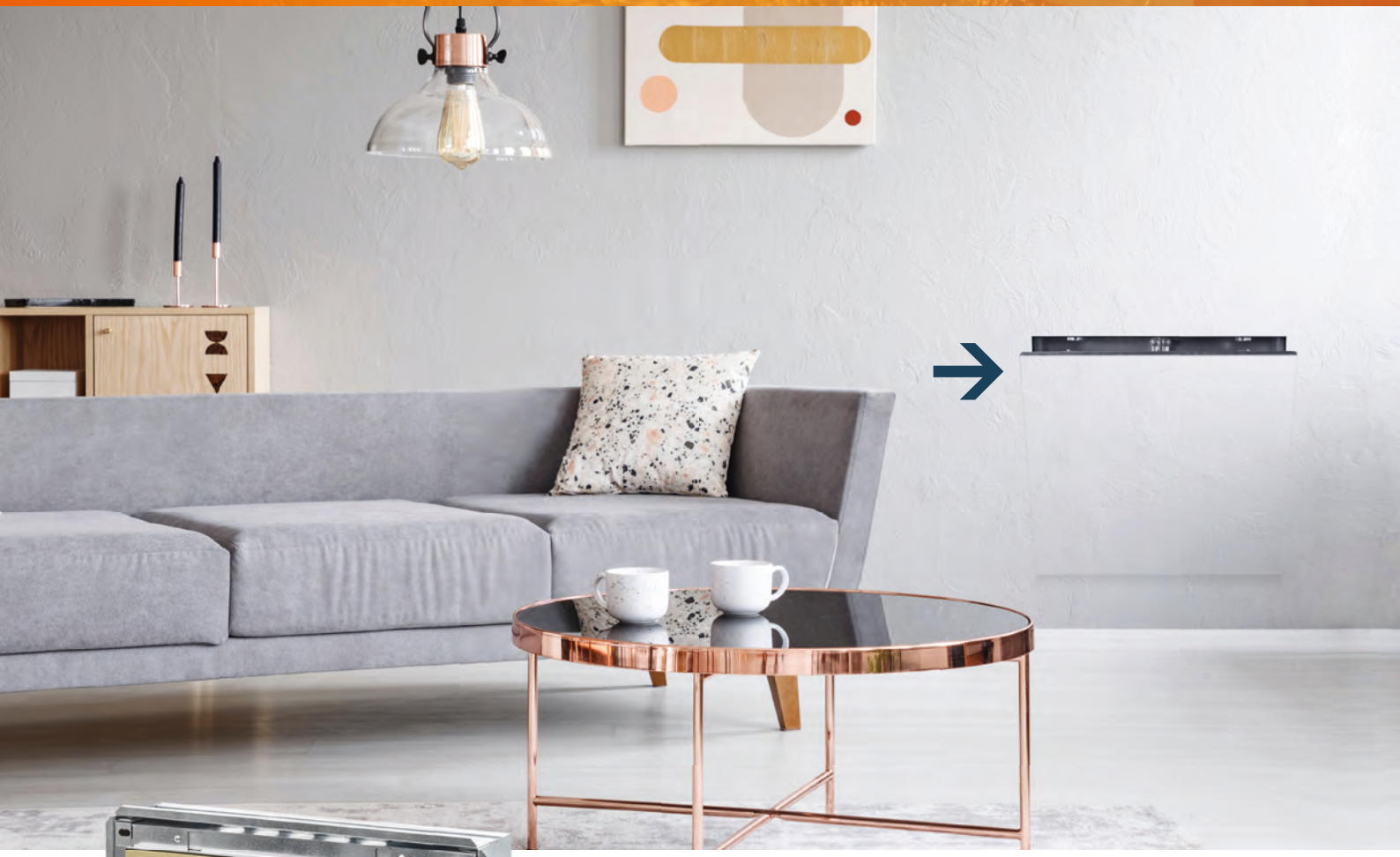
Code	Pack	Carton
3862.00.02	1	1

015

BOX1 FLUSH WALL

RBM Kilma

HOUSING AND INSPECTION BOX. FLUSH WALL INSTALLATION.





- Adjustable depth/ telescopic bottom
- Can be installed in plasterboard and masonry walls
- Tileable/paintable cover
- Easy installation
- Elegant, minimal design, which can be integrated with architectural solutions

It can be used with **simple and thermostatically controlled** manifolds for heating systems. Galvanised steel structure, MDF cover.

3834



Box 1 flush with the wall
Inspection and housing box, flush with the wall installation.

Recessed metal case for manifolds, flush with the wall installation.
Paintable MDF cover.
Telescopic frame 95 - 145 mm

NEW

Recessed metal case for manifolds, flush with the wall installation
Coffret en métal encastrable pour collecteurs, installation à ras le mur
Встраиваемый металлический шкаф для коллекторов, установка вровень со стеной
Casetă metalică cu încastrare pentru colectoare, montare îngropată în perete
Caja de metal empotrada para colectores, instalación a ras de pared
Einbaukasten für Sammelbehälter, wandbündiger Einbau

Code	Dimensions LxH (mm)	Pack	Carton
3834.40.12	400x500	1	1
3834.60.12	600x500	1	1
3834.80.12	800x500	1	1
3834.10.12	1000x500	1	1

Adjustable depth 95 - 145 mm

Pair of floor-anchoring feet
Paire de pieds pour la fixation du coffret au sol
Пара ножек для крепления монтажного шкафа к полу
Pereche de picioruşe pentru fixarea la sol a casetei
Par de pies para la fijación de la caja al suelo
Fußpaarzur Befestigung des Kastens am Boden

Code	Pack	Carton
2948.00.02	1	1

Maximum adjustable height 100 mm

Telescopic chassis/frame and cover.
With actuators installed on valves with thermostatic option, provide extended cover clamping screws cod. 2155.005.
Execution with movable guides for the free positioning of the components inside the box.
Universal case, suitable for housing 1" manifolds kit series 608-2028-1410-1002-3202-3615.
Feet for fastening to the floor, ordered separately as accessories.

036B

3844



Box for Kilma control units, flush with the wall installation.

Paintable cover.

NEW

Box for Kilma control units, flush with the wall installation
Coffret pour unités de contrôle Kilma, installation à ras le mur
Коробка для установок Kilma, установка вровень со стеной
Casetă pentru unităţi de control Kilma, montare îngropată în perete
Caja para centralitas Kilma, instalación a ras de pared
Kasten für Steuergeräte Kilma, wandbündiger Einbau

Code	Dimensions LxH (mm)	Pack	Carton
3844.80.02	800x700	1	1
3844.10.02	1000x700	1	1
3844.12.02	1200x700	1	1

Adjustable depth 125 - 175 mm

Feet included in the supply.
Maximum adjustable height 120 mm.

036B

R.B.M. S.p.A.
Via S. Giuseppe, 1
25075 Nave (Brescia)
Italy
Tel. +39 030 2537211 ric. aut.
Fax +39 030 2531799
info@rbm.eu
www.rbm.eu

R.B.M. France
1200 Avenue Olivier Perroy
Les Portes de Rousset Bat B
13790 Rousset
France
Tél. +33 (0)4 42298120
Fax +33 (0)4 42533867
info@rbmfrance.fr

R.B.M. Benelux
Bosdel, 52
B-3600 Genk
Belgium
Tel. +32 (0)89 303565
Fax +32 (0)89 308479
info@rbm.be
www.rbm.be

R.B.M. S.p.A.
Romania Reprezentanta
CCIR Business Center,
B-dul Octavian Goga nr. 2, sector 3
Tronson III, Etaj 1, Biroul 40
030981 Bucuresti
Tel. +40 729 019 733
info.romania@rbm.eu

R.B.M. РФ & СНГ
Info & contacts:
info@rbm.com.ru

R.B.M. US, LLC
15000 S. Avalon Blvd., Unit D
Gardena, CA 90248
Tel. +1 310 817 2713
Fax +1 310 278 9881
info@rbmus.com

Sipla Stampaggio srl
Stampaggio materie plastiche
Via Pasteur, 21/23
25089 Villanuova sul Clisi (Brescia)
Italy
Tel. +39 0365 31043
Fax +39 0365 374343

www.rbm.eu

RBM
FOR EFFICIENCY

AKUNA MATATA Comunicazione