Настенные и потолочные лучистые системы

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70
Казахстан +(727)345-47-04
Беларусь +(375)257-127-88
Узбекистан +998(71)205-18-59
Киргизия +996(312)96-26-47

эл.почта: tec@nt-rt.ru || сайт: https://tiemme.nt-rt.ru/

02 CEILING/WALL RADIANT SYSTEMS

02A Ceiling radiant systems

02B Wall radiant systems

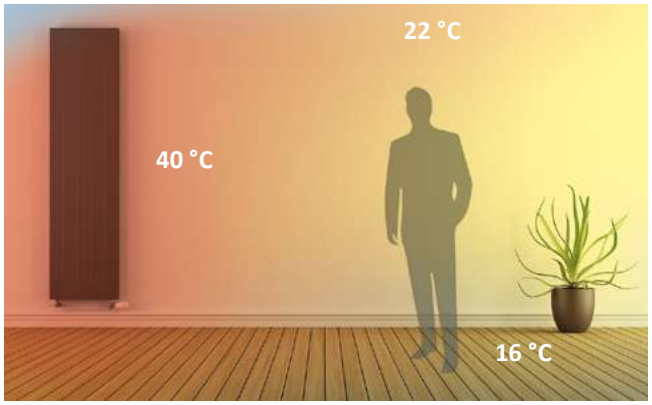
02C Ceiling radiant systems for the tertiary sector

The ceiling heating system diffuses the heat in all the rooms of the house through a principle of radiation exchange between hot and cold surfaces.

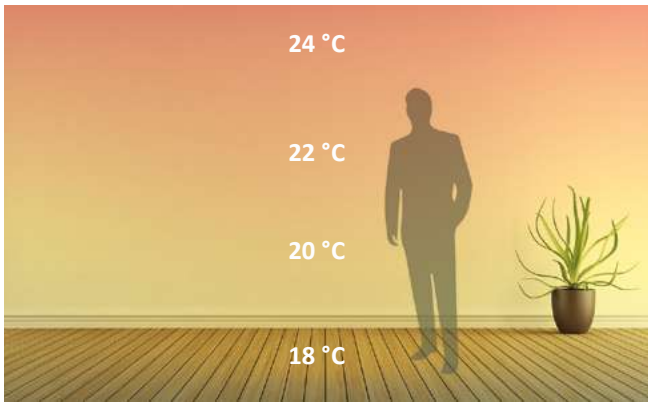
WHAT IS IT?
Radiation is that phenomenon that occurs frequently in nature when a surface absorbs the heat contained or generated by a surface that has a relatively higher surface temperature.
Similarly, the walls of the room in which the ceiling heating system is located represent the cold surface and accumulate the heat generated by the false ceiling, distributing it in turn in the room and heating it.

NO NEED FOR MASONRY
Ceiling heating is an economical solution because the installation of the radiant panels that make up the system does not require demolition or other masonry works.

HOMOGENEITY OF HEAT
In the ceiling heating the heat diffusion is homogeneous and allows a fair exchange between the environment and the radiant system. This ensures a heating without temperature changes.



Radiator heating



Ceiling heating

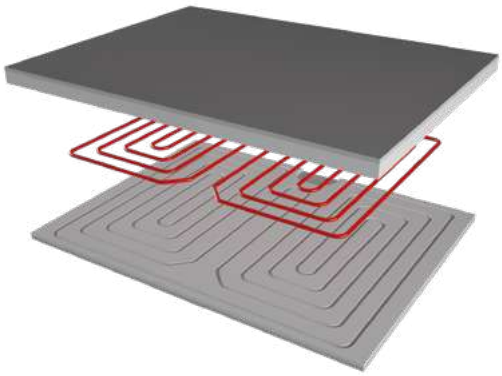
EASE OF INSTALLATION AND VERSATILITY OF USE
The radiant panels are already composed, pre-assembled and are ideal for both the production of heat during the cold period and for cooling in the hottest periods of the year.

SPACE SAVING TO A MINIMUM
The radiant ceiling panels are an invisible heating system with no space requirement. Their thickness is less than 50 mm and the type of installation does not bind in any way the environments in which they are installed.

WIDE ARCHITECTURAL COMPATIBILITY
The ceiling heating system has high qualities of modularity and perfect architectonic integration allowing to adapt the panels to any type of ceiling.

REDUCTION OF HUMIDITY, MOULD, AND BAD ODOURS
The diffusion of heat through heat exchange allows a reduction of humidity, mould, and bad odours. An even more appreciable feature in the northern part of the dwelling where the formation of unwanted microorganisms is more frequent.

Ceiling Home Smart is the new system solution for the development of radiant ceiling heating and/or cooling systems.
The new panel has the characteristic of being divided into 3 sub-modules and is able to adapt to any room in which it will be installed.

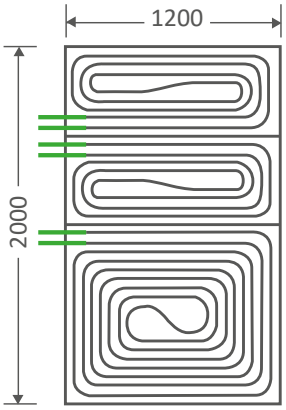


The sheet with which Ceiling Home Smart has been made is of a special type with increased core density (type D), made with plaster admixed with glass fibres and wood fibres that give a high degree of surface hardness and mechanical strength (type I-R). The sheet is also characterized by reduced water absorption (type H1), with excellent tightness in the presence of high humidity levels, and a reduced value of vapour permeability (type E); This peculiarity makes the Tiemme modular panel suitable for any type of environment, including bathrooms, laundries, kitchens, etc...

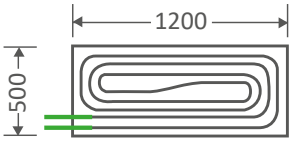
Ceiling Home Smart presents 3 independent circuits, milled inside the plasterboard panel, with a 50 mm pipe distance, made with Ø 12 x 1.1 mm pipe. The complete circuit board is coated with a 30 mm thick EPS sheet.

The size of the panel is 1200 x 2000 mm, the surface of which is 2.4 m2.
On the lower edge of the sheet there is the screen-printing of the radiant circuit and the cutting line of the panel in the sub-modules:
• 1200 x 500 mm (no. 2) + 1200 x 1000 mm (no. 1)
or
• 1200 x 1500 mm (no. 1) + 1200 x 500 mm (no. 1)
or
• 1200 x 1000 mm (no. 2)

MAIN PANEL

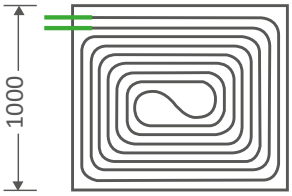


SUB-MODULE A

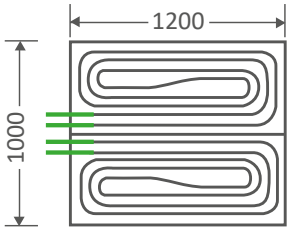


SUB-MODULE B

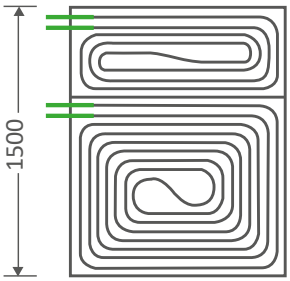
SUB-MODULE C

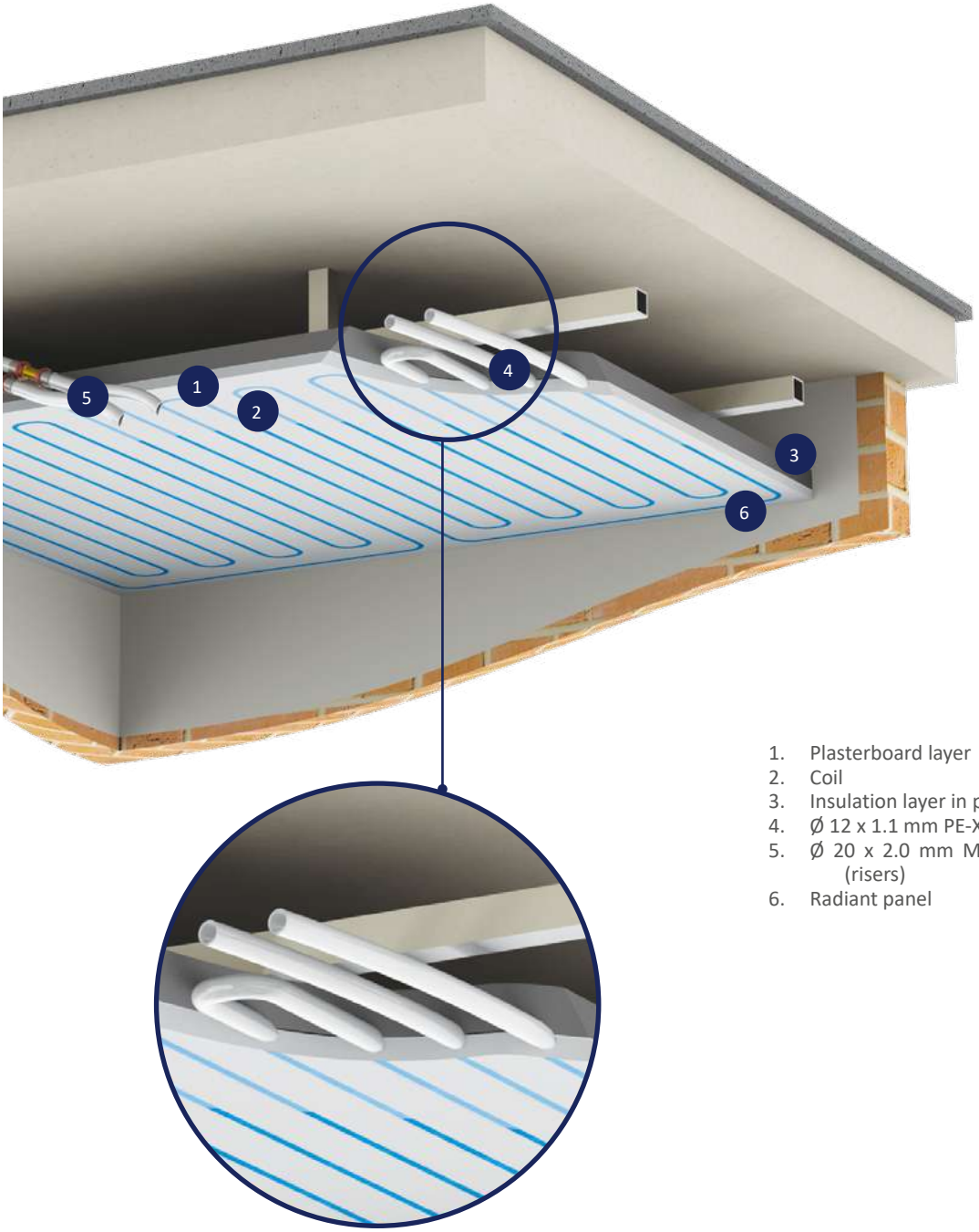


SUB-MODULE D



SUB-MODULE E





1. Plasterboard layer
2. Coil
3. Insulation layer in polystyrene
4. Ø 12 x 1.1 mm PE-X pipe
5. Ø 20 x 2.0 mm Multilayer pipe (risers)
6. Radiant panel

STRENGTHS

- Low thermal inertia
- suitable for new buildings and renovations
- simple and quick to install
- high versatility
- modular panel
- moisture-resistant
- neutralizes the formaldehyde in the air

RU50

Active wall/ceiling radiant panel for summer cooling systems and low temperature winter heating.

DESCRIPTION

Composed of:

- Plasterboard sheet 15 mm thk.
- Insulating sheet in sintered expanded polystyrene 30 mm thk., thermal conductivity 0,034 W/mk
- No.3 radiant coils made with Ø 12x1.1 PE-X pipe mm conforming to EN ISO 15875-2 with anti-oxygen barrier conforming to DIN 4726

TECHNICAL CHARACTERISTICS

- Pipe distance 50 mm
- Total thickness 45 mm
- Adductions with Ø 20x2 mm multilayer pipe
- • Drawing of the coil on the plasterboard surface for a secure fixing

Code	Type	Dimensions (mm)	Price €/m²	Unit/Box (m²)
450 0701	-	2000 x 1200		2,4/ 2,4

RNU

Plasterboard panel for infill of radiant ceiling and wall systems with polystyrene insulation layer

DESCRIPTION:

Composed of:

- Plasterboard sheet 15 mm thk.,
- Insulating sheet in expanded polystyrene 30 mm thk., thermal conductivity 0.034 W/mk

TECHNICAL CHARACTERISTICS:

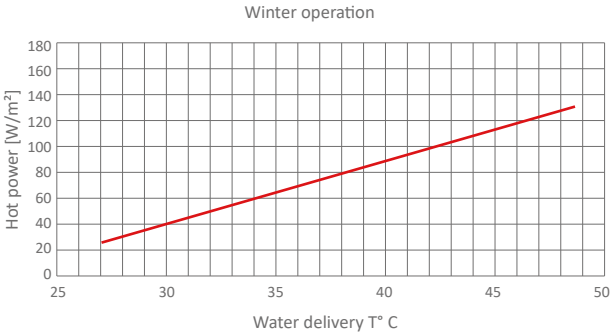
- Total thickness: 45 mm
- Weight: 16,5 kg/m²

Code	Dimensions	Price €/m²	Unit/Box (m²)
450 0702	1200 x 2000 mm		2,4/2,4

Characteristic	DESCRIPTION
Insulating thickness	30 mm
Plasterboard thickness	15 mm
Total thickness	45 mm
Radiant circuits pipe type	PE-X Ø 12 x 1,1 mm
Plasterboard sheet	Plaster layer with glass and wood fibres
Fire resistance EN 13501-1 (Euroclass)	E
Insulating type	EPS 150, white
Insulation thermal conductivity UNI EN 12667	0,034 W/mK
Pipe distance	50 mm
Allowable temperature range of the thermal energy carrier fluid	8-50 °C
Maximum allowable temperature	60 °C
Minimum operating temperature	8 °C
Maximum allowable pressure	6 bar
Maximum test pressure circuit	4 bar
Ø 12 x 1.1 mm elementary circuit pressure drop	4 kPa
Fluid velocity	12 m/min.
Elementary circuit water volume	1,40 l + 0,70 l + 0,70 l
Elementary circuit length	19,3 m + 9 m + 9 m
Active / passive panel weight	16,5 kg/m²

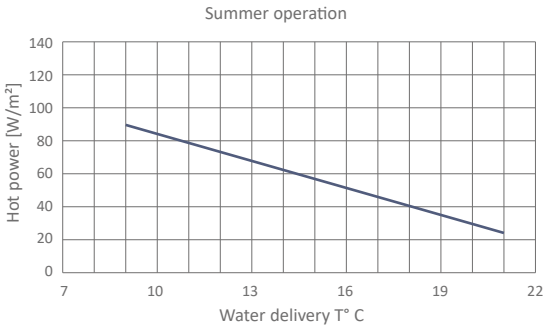
HEATING

Curves of performance certificates according to prEN 14037-5:2011 in heating.



COOLING

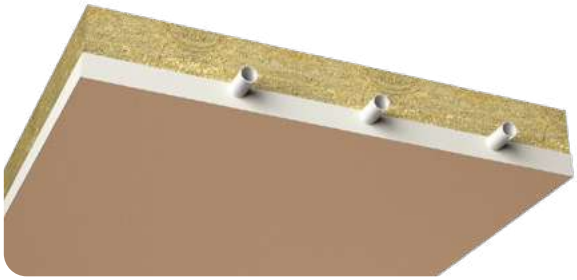
Curves of the efficiency certificates according to UNI EN 14240:2005 in cooling.



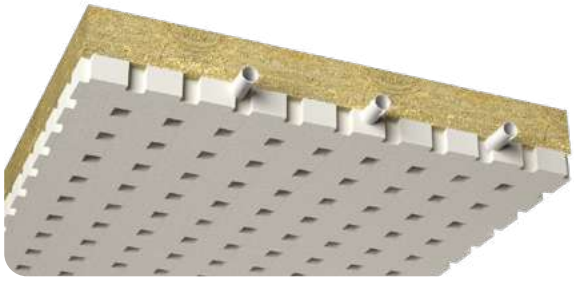
The increasing demand for such systems is able to guarantee the comfort throughout the year and the healthiness of the premises, the experience gained in the field and the continuous technological research have led Tiemme to develop alongside the traditional Ceiling Home Smart system some innovative solutions able to guarantee an even more practical and fast installation, high performance and greater versatility of use even in structures where there are specific constraints of reaction to fire.

TIEMME'S SOLUTIONS

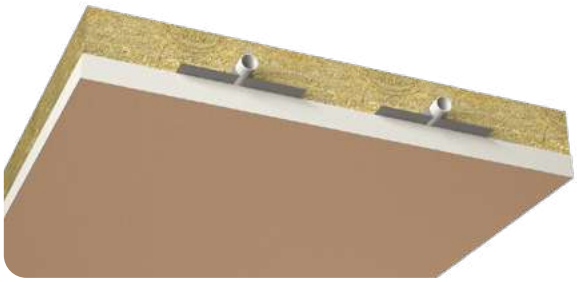
CEILING HOME SMART FIRE



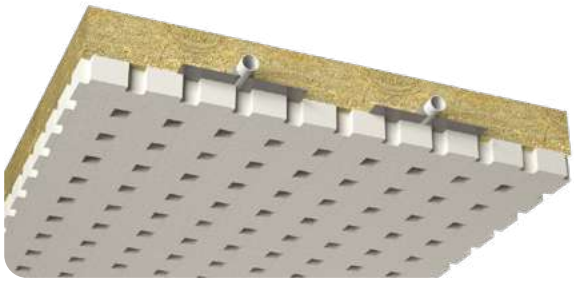
CEILING HOME SMART SILENT



CEILING HOME SMART ALU FIRE



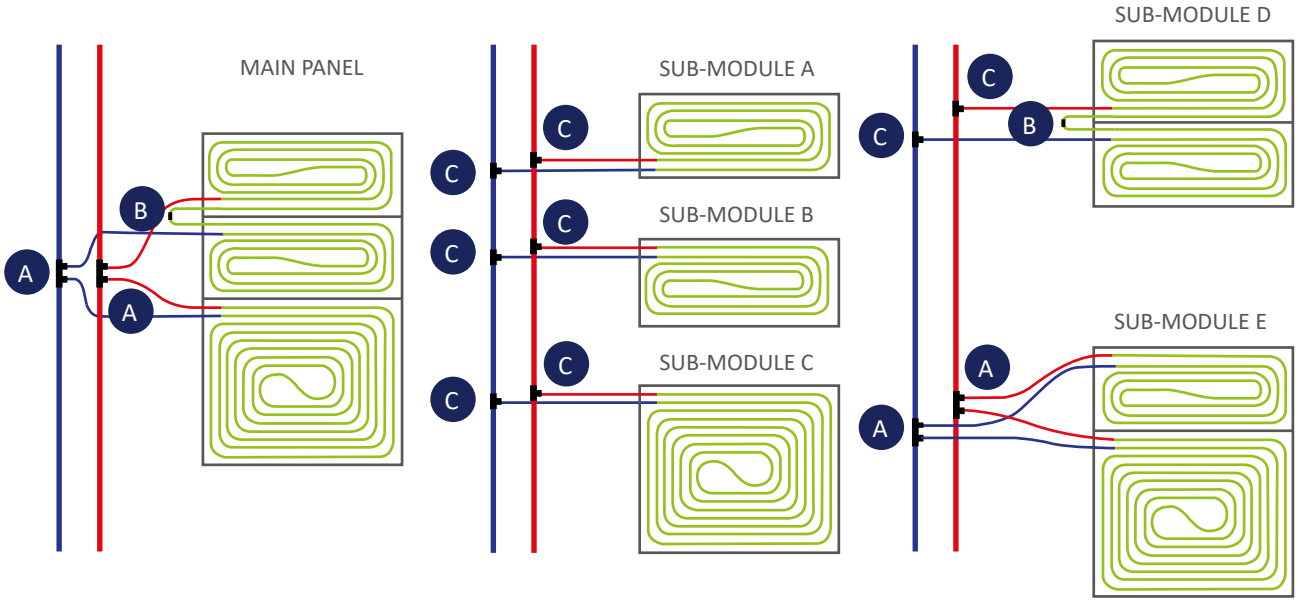
CEILING HOME SMART ALU SILENT



CEILING HOME (PASSO DI POSA 30 MM)

FOR AVAILABILITY AND ACCESSORIES CONTACT THE SYSTEMS OFFICE

EXAMPLE OF HYDRAULIC CONNECTIONS



Art. 5581C

Art. 5581

Art. 5581T

For the realization of the connections should be used:
- Multilayer main supply network DN20 tongs Cod. 159 0027
- Terminal pipe of panel PEX DN12 tongs Cod. 159 0128

3670

Y filter for the collection of impurities

TECHNICAL CHARACTERISTICS:

- Filtration: 350 µm to 600 µm depending on diameter
- Body material: brass C W 617N
- Max working pressure: 20 bar up to 2"
- Max operating temperature: 100°C
- Connection threads: female/female ISO 228

Code	Type	Price €	Unit/Box
367 0001	3/4"		18/54
367 0002	1"		10/30
367 0005	1"1/4		4/16
367 0009	1"1/2		3/12
367 0004	2"		2/8

Plug with hole for sealing

5570

Automatic deaerator of bubbles or micro-air bubbles with insulation.

TECHNICAL CHARACTERISTICS

- Body: brass
- Internal elements: stainless steel
- Insulation: EPP
- Operating temperature range: - 10 °C ÷ + 110 °C
- Maximum working pressure: 10 bar

Code	Type	Price €	Unit/Box
556 0001	3/4"		1/4
556 0002	1"		1/4
556 0003	1"1/4		1/4
556 0004	1"1/2		1/3
556 0395	2"		1/4

Without insulation

4539

Corrosion protection of metal parts with universal fungal bactericide for heating and cooling systems.

TECHNICAL CHARACTERISTICS

- Dosage: 1 l of additive x 100 l of circulating water

Code	Type	Price €	Unit/Box
450 0486	1 l		1/12

1657

Brass T Press distributor fitting

Ø 20 connection for multilayer pipe

Fitting suitable for the construction of risers

Code	Type	Price €	Unit/Box
165 0005	20 x 20 x 20		5/50

5581

Double straight brass press fitting

Ø 12 connection for PEX pipe

Code	Type	Price €	Unit/Box
556 0388	12 x 12		10/100

5581T

Brass T Press distributor fitting

Ø 12 connection for PEX pipe
Ø 20 connection for multilayer pipe

Code	Type	Price €	Unit/Box
556 0386	20 x 12 x 20		5/50

5581C

Double line brass press T distributor fitting

Ø 12 connection for PEX pipe
Ø 20 connection for multilayer pipe

Code	Type	Price €	Unit/Box
556 0387	20 x 12 x 12 x 20		5/50

1677

Brass press end fitting

Ø 20 connection for multilayer pipe

Code	Type	Price €	Unit/Box
165 0216	20		10/100

1695TM01

TIEMME battery-powered press tool standard version for pipe from Ø 14 to Ø 90 inclusive

The press tool is supplied in a case complete with: rechargeable battery Li-Ion 18Vdc - 2,0 Ah; battery charger; Tongs set (if provided) 16, 20, 26

Code	Set pinze	Price €	Unit/Box
159 0085	not included		1/1

1695TM03

TIEMME battery-operated press tool MINI version for pipe Ø 14 to 32 included

The press tool is supplied in a case complete with: Li-Ion 12vdc - 2,0 Ah rechargeable battery; battery charger; Tongs set (if provided) Ø 16, 20, 26

Code	Set pinze	Price €	Unit/Box
159 0089	not included		1/1

1681

TH profile tongs - customized TIEMME

Code	Type	Price €	Unit/Box
159 0149	12		1/1

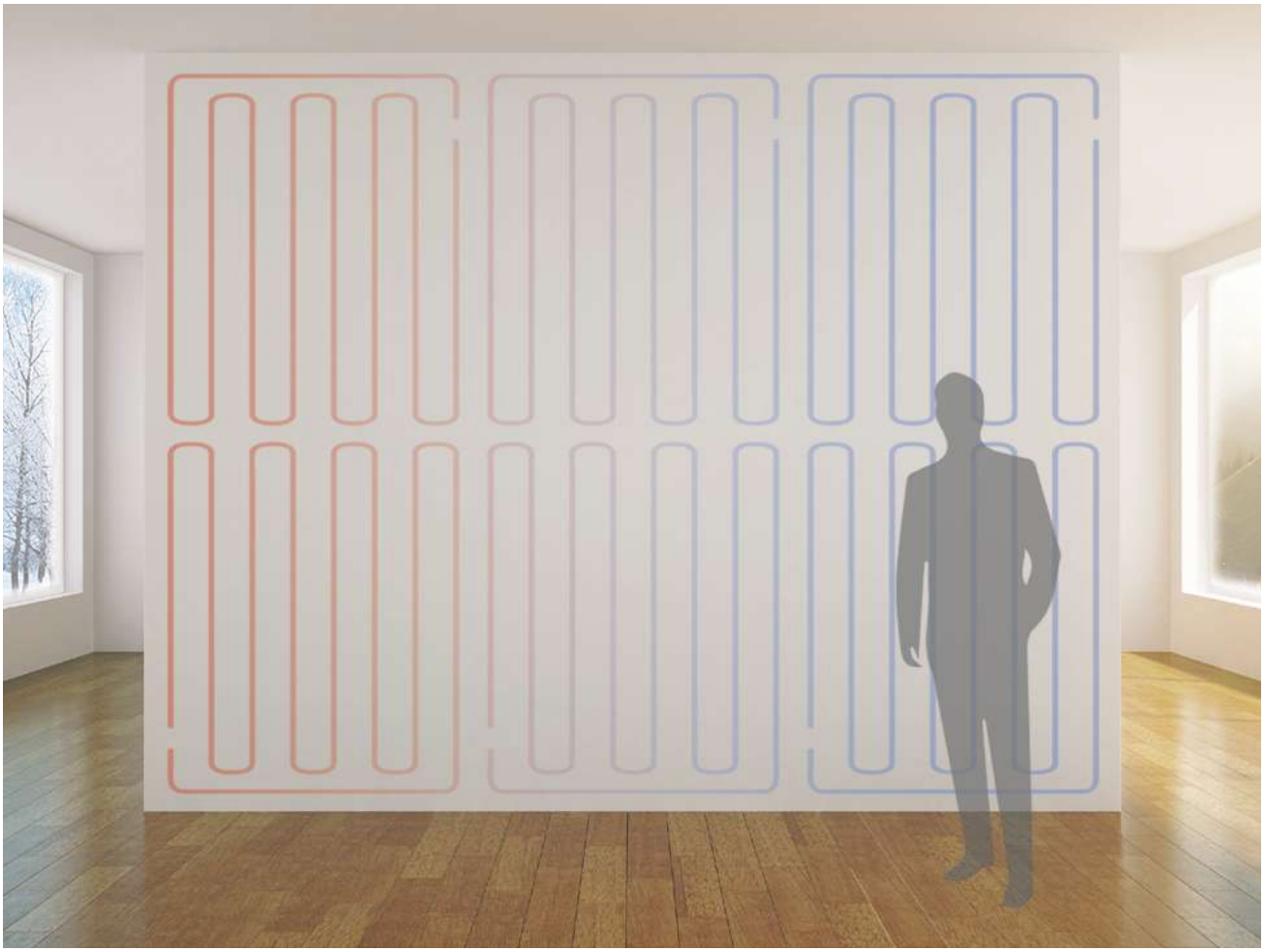
1681MINI

TH profile tongs - customized TIEMME for MINI press

Code	Type	Price €	Unit/Box
159 0128	12		1/1
159 0027	20		1/1

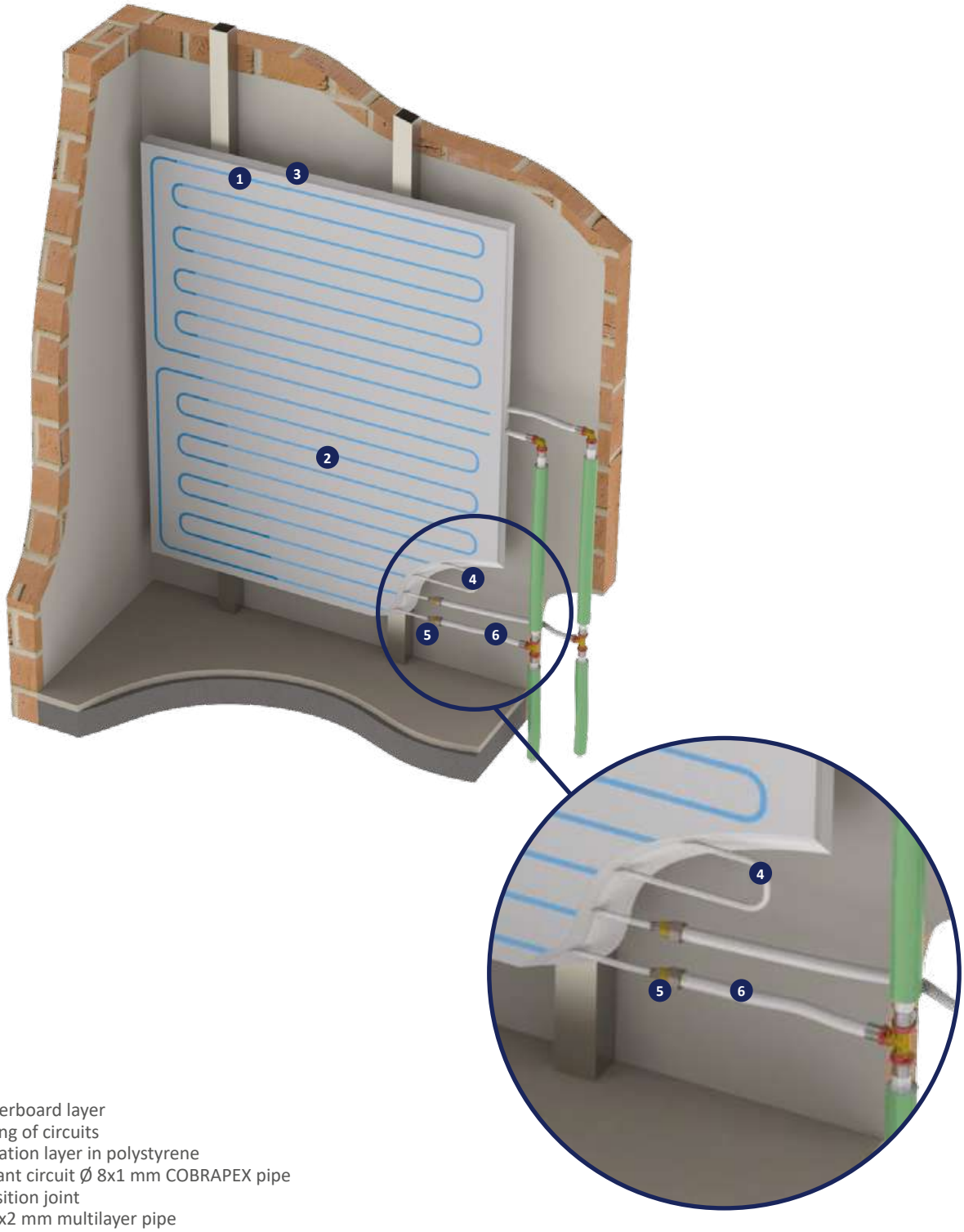
For the complete range of equipment see the catalogue Hydraulic components.

Wall radiant systems are the ideal solution for all those situations where the floor installation is not feasible or if feasible, does not ensure a sufficiently large radiant surface and there is a need to supplement with an additional heating surface



Introduction

Specific solution for residential and commercial heating and cooling systems where it is not possible to install the radiant system on the ground or where the ground system needs integration.
The WALL system is based on modular and pre-assembled radiant panels connected through practical fittings.
All panels are equipped with expanded polystyrene insulation and additional space is available for additional insulation behind the plasterboard.



1. Plasterboard layer
2. Tracing of circuits
3. Insulation layer in polystyrene
4. Radiant circuit Ø 8x1 mm COBRAPEX pipe
5. Transition joint
6. Ø 16x2 mm multilayer pipe

RG

Radiant plasterboard panel for ceiling or wall radiant systems with polystyrene insulation layer.

DESCRIPTION

Composed of:

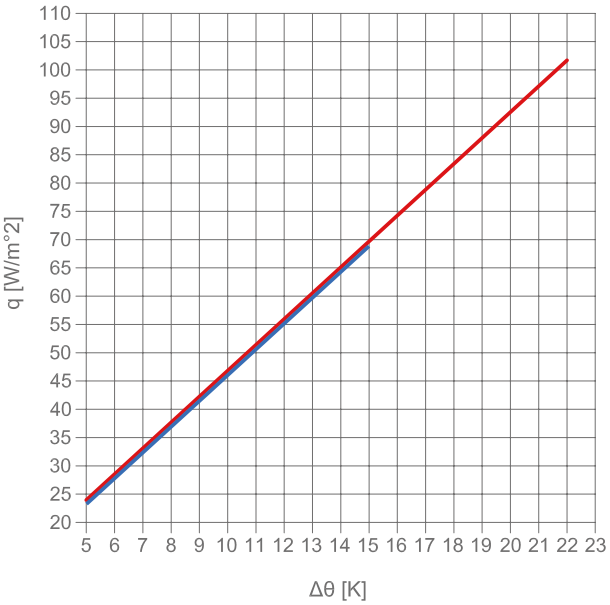
- Reinforced plasterboard sheet 15 mm thk., thermal conductivity 0.6 W/mk
- Insulating sheet in expanded polystyrene 30 mm thk., thermal conductivity 0.035 W/mk
- Ø 8x1 mm radiant coil made of PE-Xb compliant with EN ISO 15875-2 with oxygen barrier compliant with DIN 4726
- • Patented internal transition fitting for adductions made of AL-COBRAPEX multilayer pipe, Ø 16x2 mm, in compliance with EN ISO 21003, to facilitate the hydraulic connection with the network

TECHNICAL CHARACTERISTICS

- Total thickness: 45 mm
- • Drawing of the coil on the plasterboard surface for a secure fixing

Code	Dimensions (mm)	Price €/m²	Unit/Box (m²)
450 0170	600 x 1000		0,6/ 0,6
450 0161	1200 x 1000		1,2/ 1,2
450 0166	600 x 2000		1,2/ 1,2
450 0165	1200 x 2000		2,4/ 2,4

THERMAL PERFORMANCE OF RADIANT PANELS ACCORDING TO EN 15377*



- Wall heating
- Wall cooling
- Δθ (K): Temperature difference between average radiant surface temperature and ambient air temperature

* Yields certified by the Department of Technical Physics of the University of Padua

TECHNICAL CHARACTERISTICS

	Codes			
	450 0170	**450 0161**	**450 0166**	**450 0165**
Insulating thickness (mm)	30			
Plasterboard thickness (mm)	15			
Total thickness (mm)	45			
Circuits pipe diameter (mm)	8 x 1			
Thermal conductivityUNI EN 12667 (w/mk)	0,035			
Thermal resistance EN 13163 (m²k/w)	0,86			
Reaction to fire EN 13501-1 (Euroclass)	E			
Total panel size (mm)	600 x 1000	1200 x 1000	600 x 2000	1200 x 2000
Panel area (m²)	0,6	1,2	1,2	2,4

RGN

Plasterboard panel for infill of radiant ceiling and wall systems with polystyrene insulation layer

DESCRIPTION:

Composed of:

- Reinforced plasterboard sheet 15 mm thk., thermal conductivity 0.6 W/mk
- Insulating sheet in expanded polystyrene 30 mm thk., thermal conductivity 0.035 W/mk

TECHNICAL CHARACTERISTICS:

- Total thickness: 45 mm
- Weight: 31 kg

Code	Dimensions	Price €/m²	Unit/Box (m²)
450 0167	1200 x 2000 mm		2,4/2,4

3670

Y filter for the collection of impurities

TECHNICAL CHARACTERISTICS:

- Filtration: 350 µm to 600 µm depending on diameter
- Body material: brass C W 617N
- Max working pressure: 20 bar up to 2"
- Max operating temperature: 100°C
- Connection threads: female/female ISO 228

Code	Type	Price €	Unit/Box
367 0001	3/4"		18/54
367 0002	1"		10/30
367 0005	1"1/4		4/16
367 0009	1"1/2		3/12
367 0004	2"		2/8

Plug with hole for sealing

5570

Automatic deaerator of bubbles or micro-air bubbles with insulation.

TECHNICAL CHARACTERISTICS

- Body: brass
- Internal elements: stainless steel
- Insulation: EPP
- Operating temperature range: - 10 °C ÷ + 110 °C
- Maximum working pressure: 10 bar

Code	Type	Price €	Unit/Box
556 0001	3/4"		1/4
556 0002	1"		1/4
556 0003	1"1/4		1/4
556 0004	1"1/2		1/3
556 0395	2"		1/4

Without insulation

4539

Corrosion protection of metal parts with universal fungal bactericide for heating and cooling systems.

TECHNICAL CHARACTERISTICS

- Dosage: 1 l of additive x 100 l of circulating water

Code	Type	Price €	Unit/Box
450 0486	1 l		1/12

1651

Double straight connection

On request available in tinned version

Code	Type	Price €	Unit/Box
165 0016	16 x 16		10/100

1653

Double curved fitting

On request available in tinned version

Code	Type	Price €	Unit/Box
165 0011	16 x 16		10/100

1657

T fitting

On request available in tinned version

Code	Type 1 2 3	Price €	Unit/Box
165 0002	16 x 16 x 16		10/50

For the complete range see the catalogue Hydraulic components.

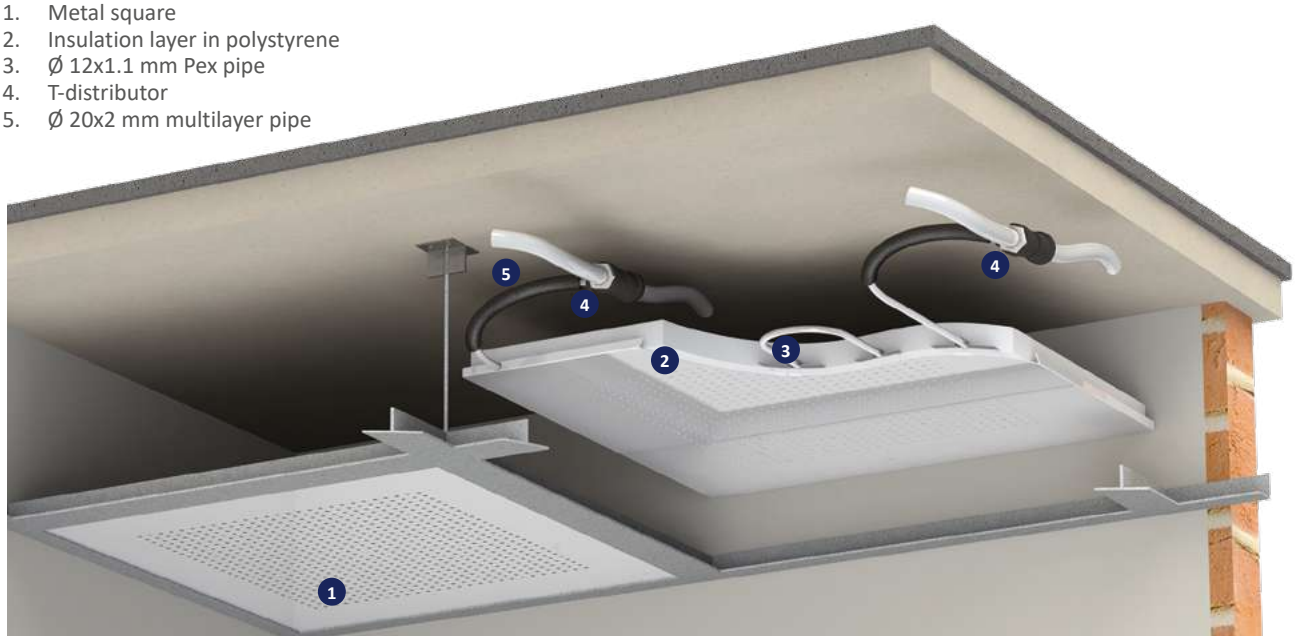
Tiemme has developed a line of ceiling radiant systems ideal for offices, schools, commercial activities, or any other situation related to the tertiary sector.

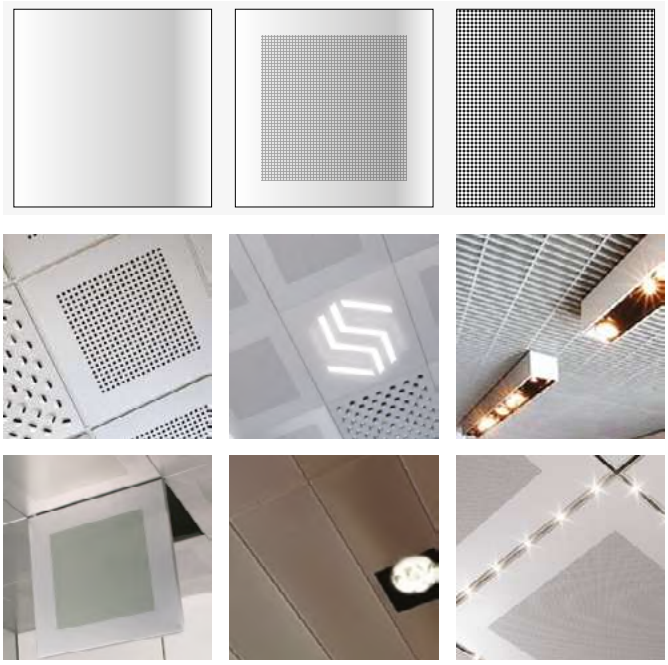
Tiemme's systems department specializes in design and consulting for the tertiary sector, ensuring support from the first stages of design to the choice of the most suitable products, from the transition to the implementation phase to on-site assistance.

INTRODUCTION

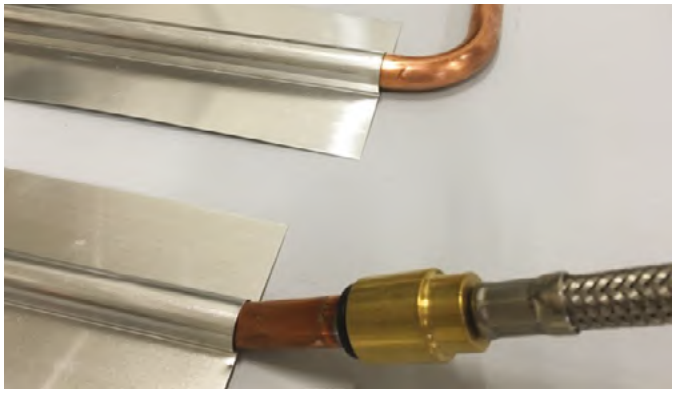
Specific solution for commercial heating and cooling systems where maximum thermal output is required without surface temperature constraints.

1. Metal square
2. Insulation layer in polystyrene
3. Ø 12x1.1 mm Pex pipe
4. T-distributor
5. Ø 20x2 mm multilayer pipe





- EPS insulation for maximum thermal performance, rock wool, mineral wool as requested
- Metal panel in steel or aluminium in sizes, colours and finishes fully customizable



Copper circuits available for a complete customization of the internal piping of the panels.
The copper pipe perfectly calibrated in the required diameter is housed inside the metal diffuser for high thermal performance.

SK600PL

Micro-perforated aluminium radiant panel for ceiling radiant systems with a polystyrene insulation layer, painted white.

DESCRIPTION

Composed of:

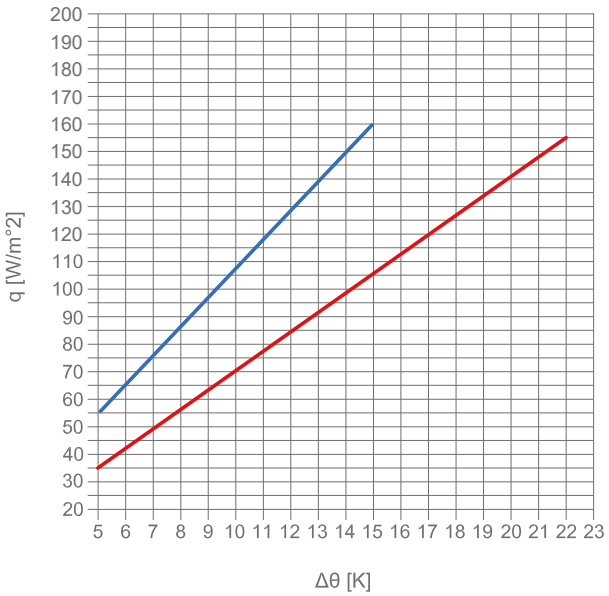
- Metallic square in micro-perforated white painted aluminium 0.6 mm thk.
- Insulation layer in polystyrene espanso 30 mm thk., Thermal conductivity0,0389 W/mK
- Ø 12x1.1 mm radiant coil made of PE-Xb compliant with EN ISO 15875-2 with oxygen barrier compliant with DIN 4726
- Aluminium diffusers for better heat exchange

TECHNICAL CHARACTERISTICS

- Total thickness: 30,6 mm

Code	Dimensions (mm)	Price €	Unit/Box
450 0680	600 x 600		1/1

THERMAL PERFORMANCE OF RADIANT PANELS ACCORDING TO EN 15377*



- Wall heating
- Wall cooling
- Δθ (K): Temperature difference between average radiant surface temperature and ambient air temperature

* Yields certified by the Department of Technical Physics of the University of Padua

TECHNICAL CHARACTERISTICS

	Codes
	450 0680
Insulating thickness (mm)	30
Thickness of aluminium (mm)	0,6
Total thickness (mm)	30,6
Circuits pipe diameter (mm)	12x1,1
Dorsal diameter (mm)	20x2
Pipe distance (mm)	75
Thermal conductivity UNI EN 12667 (W/mK)	0,0389
Thermal resistance EN 13163 (m^2k/W)	0,86
Reaction to fire EN 13501-1 (Euroclass)	E
Total panel size (mm)	600 x 600
Panel area (m^2)	0,36

SK600PLN

Micro-perforated aluminium infill panel for ceiling radiant systems, white painted, insulated

TECHNICAL CHARACTERISTICS

- Total thickness: 30,6 mm

Code	Dimensions (mm)	Price €	Unit/Box
450 0494	600 x 600		1/1

0200B

High density COBRAPEX cross-linked polyethylene pipe with EVOH oxygen barrier

Code	Type	Price €/m	Unit/Box (m)
020 0127	12 x 1,1		50/2400
020 0041	12 x 1,1		100/3000

3670

Y filter for the collection of impurities

TECHNICAL CHARACTERISTICS:

- Filtration: 350 µm to 600 µm depending on diameter
- Body material: brass C W 617N
- Max working pressure: 20 bar up to 2"
- Max operating temperature: 100°C
- Connection threads: female/female ISO 228

Code	Type	Price €	Unit/Box
367 0001	3/4"		18/54
367 0002	1"		10/30
367 0005	1"1/4		4/16
367 0009	1"1/2		3/12
367 0004	2"		2/8

Plug with hole for sealing

5570

Automatic deaerator of bubbles or micro-air bubbles with insulation.

TECHNICAL CHARACTERISTICS

- Body: brass
- Internal elements: stainless steel
- Insulation: EPP
- Operating temperature range: - 10 °C ÷ + 110 °C
- Maximum working pressure: 10 bar

Code	Type	Price €	Unit/Box
556 0001	3/4"		1/4
556 0002	1"		1/4
556 0003	1"1/4		1/4
556 0004	1"1/2		1/3
556 0395	2"		1/4

Without insulation

4539

Corrosion protection of metal parts with universal fungal bactericide for heating and cooling systems.

TECHNICAL CHARACTERISTICS

- Dosage: 1 l of additive x 100 l of circulating water

Code	Type	Price €	Unit/Box
450 0486	1 l		1/12

1657
Brass T Press distributor fitting

Ø 20 connection for multilayer pipe

Fitting suitable for the construction of risers

Code	Type	Price €	Unit/Box
165 0005	20 x 20 x 20		5/50

5581
Double straight brass press fitting

Ø 12 connection for PEX pipe

Code	Type	Price €	Unit/Box
556 0388	12 x 12		10/100

5581T
Brass T Press distributor fitting

Ø 12 connection for PEX pipe
Ø 20 connection for multilayer pipe

Code	Type	Price €	Unit/Box
556 0386	20 x 12 x 20		5/50

5581C
Double line brass press T distributor fitting

Ø 12 connection for PEX pipe
Ø 20 connection for multilayer pipe

Code	Type	Price €	Unit/Box
556 0387	20 x 12 x 12 x 20		5/50

For the complete range of equipment see the catalogue Hydraulic components.

1677
Brass press end fitting

Ø 20 connection for multilayer pipe

Code	Type	Price €	Unit/Box
165 0216	20		10/100

1695TM01
TIEMME battery-powered press tool standard version for pipe from Ø 14 to Ø 90 inclusive

The press tool is supplied in a case complete with: rechargeable battery Li-Ion 18Vdc - 2,0 Ah; battery charger; Tongs set (if provided) 16, 20, 26

Code	Set pinze	Price €	Unit/Box
159 0085	not included		1/1

1695TM03
TIEMME battery-operated press tool MINI version for pipe Ø 14 to 32 included

The press tool is supplied in a case complete with: Li-Ion 12vdc - 2,0 Ah rechargeable battery; battery charger; Tongs set (if provided) Ø 16, 20, 26

Code	Set pinze	Price €	Unit/Box
159 0089	not included		1/1

1681
TH profile tongs - customized TIEMME

Code	Type	Price €	Unit/Box
159 0149	12		1/1

1681MINI
TH profile tongs - customized TIEMME for MINI press

Code	Type	Price €	Unit/Box
159 0128	12		1/1
159 0027	20		1/1

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70
Казахстан +(727)345-47-04
Беларусь +(375)257-127-88
Узбекистан +998(71)205-18-59
Киргизия +996(312)96-26-47

эл.почта: tec@nt-rt.ru || сайт: https://tiemme.nt-rt.ru/