Smart radiant systems for heating and cooling

Discover our advanced systems for complete climate comfort management: radiant heating and cooling systems, smart regulation and air treatment.

eurotherm.info

Local leader and global player.

+36 SERVED MARKETS

The next **comfort evolution**

e.group consists of two companies, Enetec and Eurotherm, leaders in radiant technology, with an integrated range of products and services to create better indoor environments.
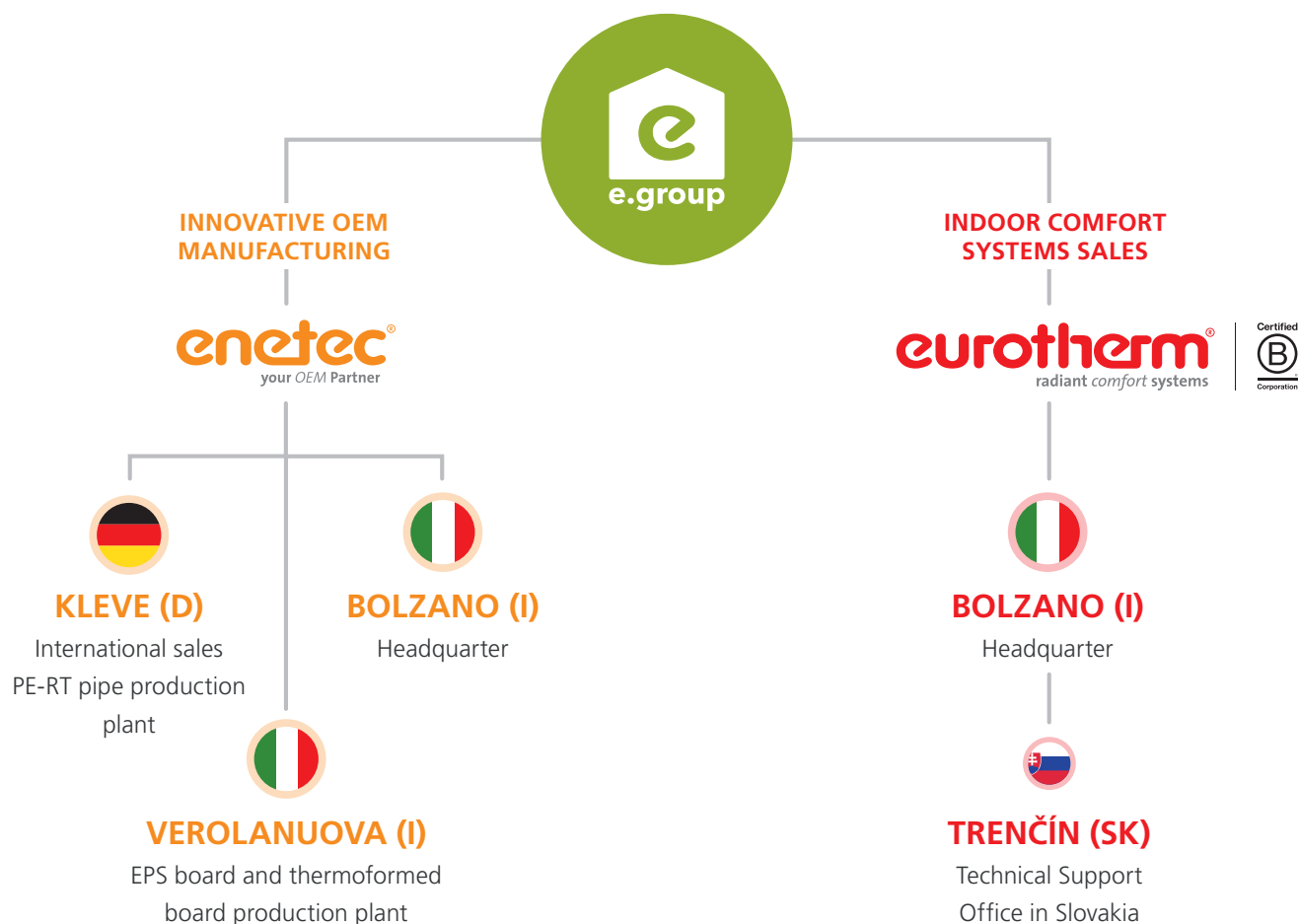
In addition to its profit objectives, the Group's corporate purpose is to have a positive impact on society and the environment, with the intention of being a positive force for change and doing business responsibly.

DISCOVER E.GROUP

Scan the QR code with your smartphone and discover our companies.
Or go directly to the dedicated website www.e-group.info

e.group

INNOVATIVE OEM MANUFACTURING

enetec®
your *OEM* **Partner**

INDOOR COMFORT SYSTEMS SALES

eurotherm®
radiant *comfort* **systems**

Certified
Ⓑ
Corporation

KLEVE (D)
International sales
PE-RT pipe production plant

BOLZANO (I)
Headquarter

BOLZANO (I)
Headquarter

VEROLANUOVA (I)
EPS board and thermoformed board production plant

TRENČÍN (SK)
Technical Support
Office in Slovakia

More quality for the indoor **climate.**
More value for **well-being.**

For over 40 years, Eurotherm Benefit Company has been working in the field of low-temperature radiant systems for sustainable indoor comfort, specialising in air conditioning for the residential and commercial sectors. The wide range of floor, ceiling and wall systems is complemented by the Smart365 intelligent control system, designed to optimise comfort and energy efficiency for both heating and cooling. The smart radiant system is integrated with air treatment, which contributes to a healthy and comfortable environment in all seasons and conditions.

A market leader in radiant systems for the comfort of living and working environments, Eurotherm has installed thousands of systems in Italy and around the world and offers its customers solid technological know-how backed by exceptional field experience. **An ISO 9001, ISO 45001 and 14001 certified** Benefit Company since 2023, the company is firmly rooted in Italy and covers different countries with its own distribution network and partners.

Field experience and high know-how
40 years of experience in the radiant sector.

Advisory service during all phases
Qualified personnel for pre- and post-sales consulting services.

Sustainable solutions for indoor comfort
Management systems and technologies in line with the objectives of energy efficiency and decarbonisation of the building stock.

Insurance without time limit
The warranty covers all Eurotherm products.

Production of components
Over 22.000 m^2 of production facilities (Enetec SpA BC).

CONTACT US
Contact us for more information and/or to receive the complete product catalogue: mail@eurotherm.info
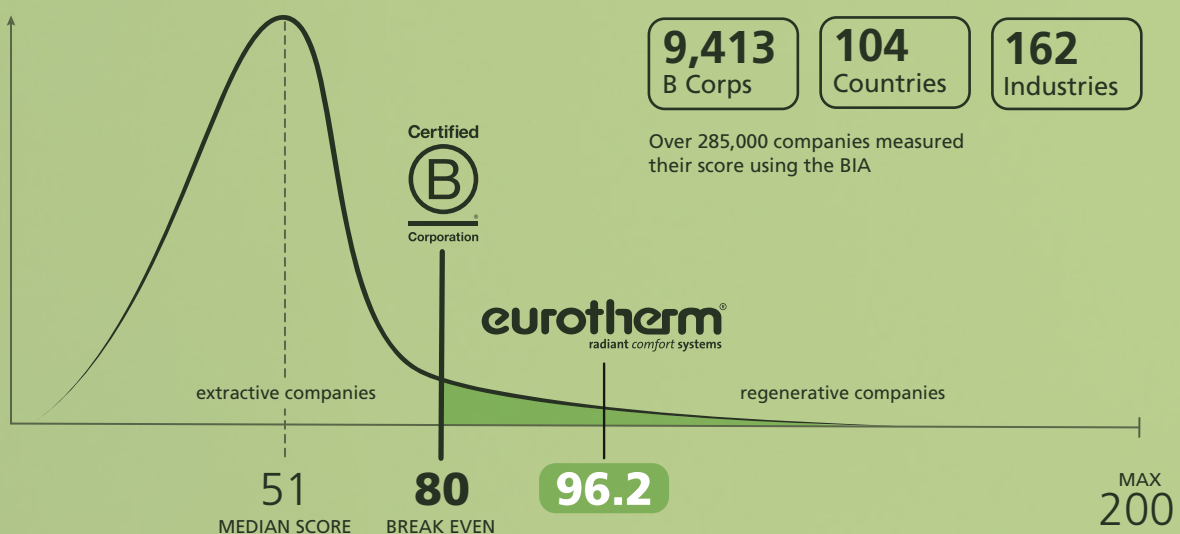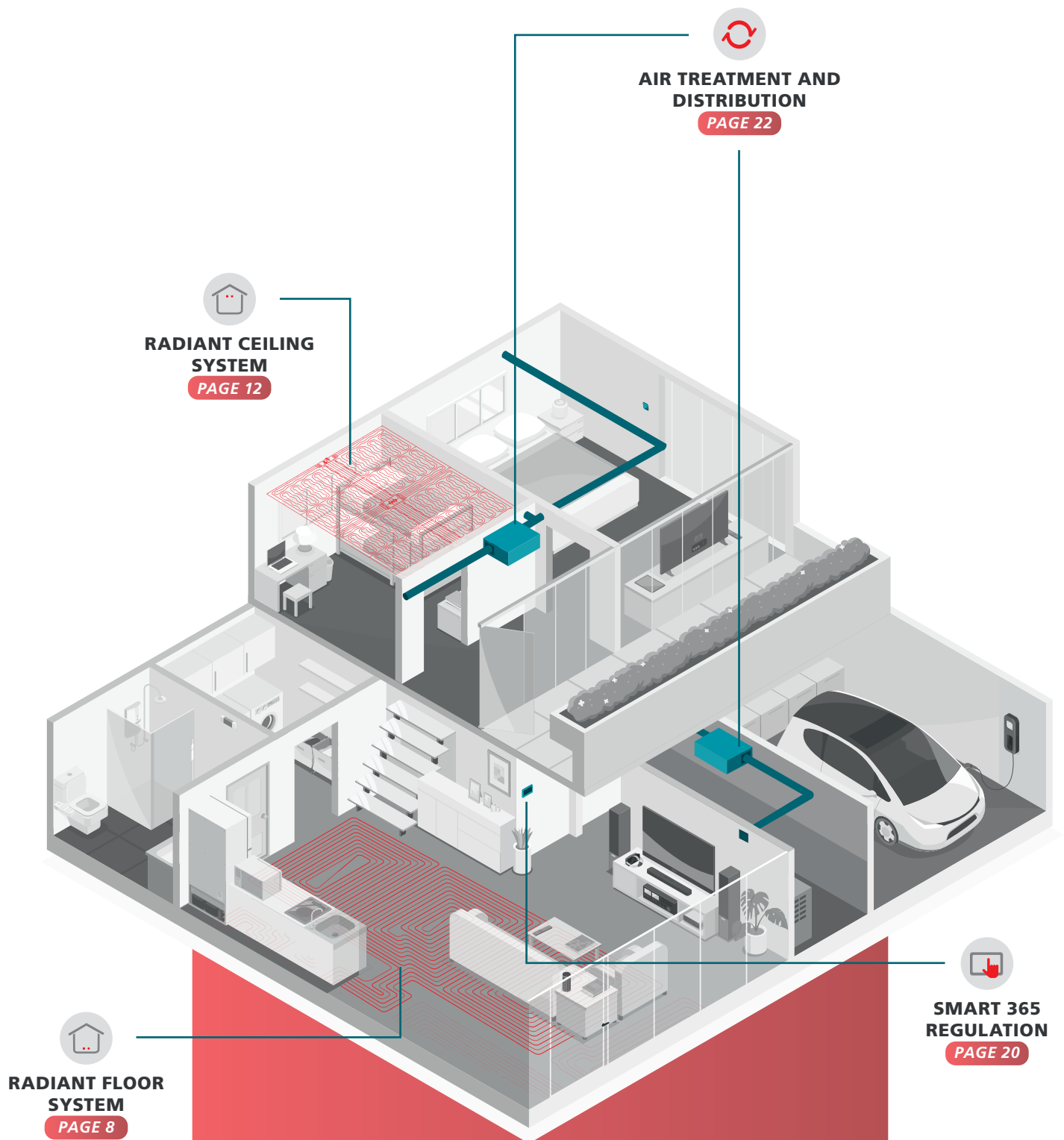**Or visit our website:** eurotherm.info

Eurotherm is **B Corp certified** company

We see business as a powerful force that generates profit while simultaneously creating a positive impact on people and the environment.

We set out to meet the highest standards of social and environmental performance, and after a rigorous evaluation, we achieved B Corp certification. This milestone places us within a global movement of purpose-driven companies committed to creating long-term value for all stakeholders – not just profit. B Corp status is granted only to businesses that measure their total impact using the B Impact Assessment (BIA), which assesses companies in five key areas: governance, employees, community, environment and customers, and achieve a score of at least 80 on a 200-point scale. Eurotherm proudly earned a score of 96.2, joining an elite group of regenerative companies that give back more value to stakeholders than they consume in doing business.

9,413 B Corps　　**104** Countries　　**162** Industries

Over 285,000 companies measured their score using the BIA

extractive companies　　regenerative companies

51
MEDIAN SCORE

80
BREAK EVEN

96.2

MAX
200

AIR TREATMENT AND DISTRIBUTION
PAGE 22

RADIANT CEILING SYSTEM
PAGE 12

SMART 365 REGULATION
PAGE 20

RADIANT FLOOR SYSTEM
PAGE 8

Smart Radiant by Eurotherm:
intelligent comfort for every room

Customised comfort, automatic efficiency and the perfect climate for homes, apartments, offices and commercial spaces.

Discover the Smart Radiant by Eurotherm, the innovative system that combines radiant floor and ceiling heating and cooling, humidity control and air treatment (integration, filtration, sanitisation) into a single smart solution. Designed to provide optimal comfort all year round, this advanced technological system not only ensures well-being, but also reduces energy consumption, promoting sustainable efficiency. Thanks to its integration with the Smart365 regulation system, you can enjoy automatic and remote management of the climate in one or more rooms. The system learns and remembers the user's habits and dynamically adapts to provide a personalised and comfortable experience.

Eurotherm's Smart Radiant **is a state-of-the-art solution for integrated indoor climate management,** ensuring comfort and energy efficiency in all seasons.

Radiant comfort systems for every
life and work environment

Indoor climate is a key factor in achieving a high level of comfort and well-being: it improves psycho-physical performance and helps people feel focused and fit. Since it affects the energy consumption of homes and businesses, it is important to manage it intelligently. How can this be done? By assuming that climatic well-being and comfort in living and working environments are achievable goals through the right design choices. But what do we mean when we talk about comfort? In a nutshell, it can be described as a state of complete satisfaction with the environment in which one lives or works.

Satisfaction derived from an optimal micro-climate in terms of temperature, humidity and ventilation, i.e. the parameters that determine the thermal exchange between the individual and the environment. The first step towards total comfort and well-being is therefore to create the perfect conditions and carefully evaluate the heating and cooling system to be installed.
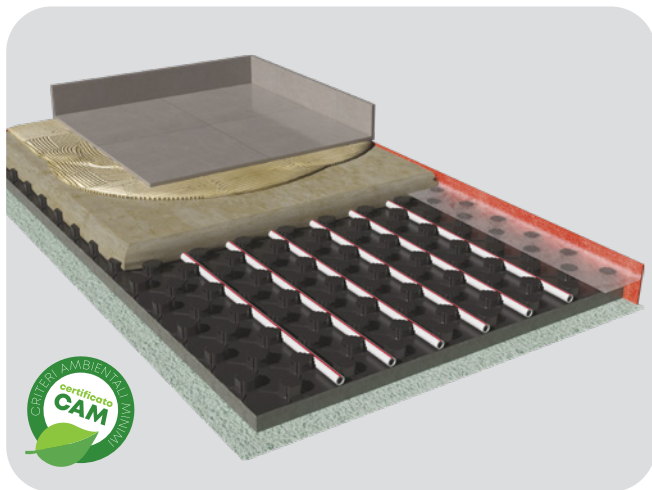
Euroflex TF Plus Lambda

Underfloor heating and cooling system with an insulation board sintered with graphite. The top of the panel is protected by a 0.6 mm thick thermoformed waterproof PS sheet (required by UNI EN 1264-4), which gives the insulation panel and its knobs mechanical strength to prevent deformation on site.
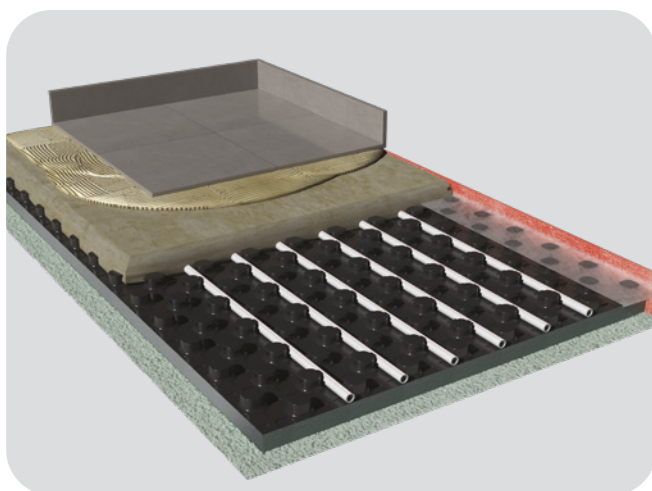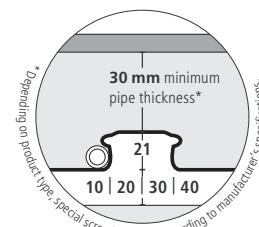
INSULATION	EPS sintered with graphite
λ_D	0.030 W/mK (EPS + graphite)
THICKNESS	23/44 | 38/59 | 45/66 mm
PIPE	14 x 2 | 16 x 2 | 17 x 2 | 18 x 2 mm
PIPE SPACING	5 | 10 | 15 | 20 cm

Depending on product type, special screeds allowed according to manufacturer's specifications.

30 mm minimum pipe thickness*
21
23 | 38 | 45
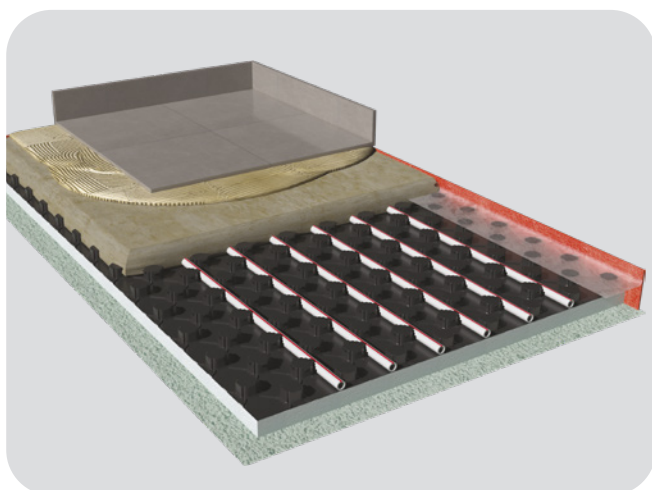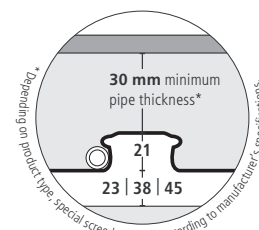
Euroflex TF Plus

Underfloor heating and cooling system with an insulation board protected on the upper side by a 0.6 mm thick thermoformed waterproof PS sheet.
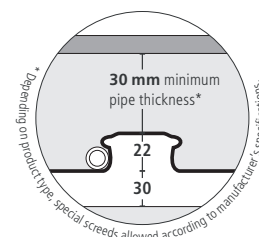
INSULATION	EPS
λ_D	0.034 W/mK
THICKNESS	10/31 | 20/41 | 30/51 | 40/61 mm
PIPE	14 x 2 | 16 x 2 | 17 x 2 | 18 x 2 mm
PIPE SPACING	5 | 10 | 15 | 20 cm

Depending on product type, special screeds allowed according to manufacturer's specifications.

30 mm minimum pipe thickness*
21
10 | 20 | 30 | 40

Euroflex TF Acoustic | NOISE REDUCTION

Underfloor heating and cooling system consisting of a panel in preformed polystyrene foam protected on the upper side by a preformed impermeable PS sheet (in compliance with UNI EN 1264-4) with a thickness of 0.8 mm.
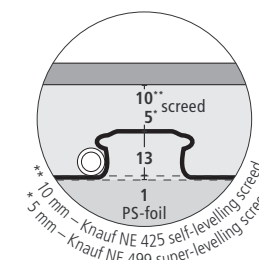
INSULATION	EPS
λ_D	0.040 W/mK
THICKNESS	30/52 mm
ACOUSTICS	$\Delta L_w = 29$ dB
PIPE	14 x 2 | 16 x 2 | 17 x 2 | 18 x 2 mm
PIPE SPACING	5 | 10 | 15 | 20 cm

Depending on product type, special screeds allowed according to manufacturer's specifications.
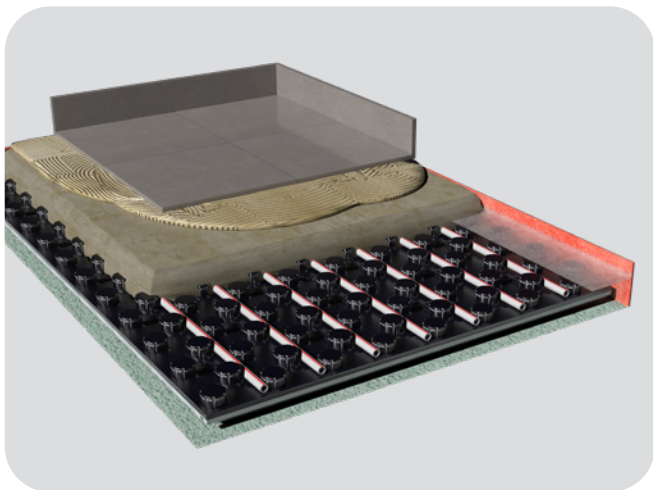
30 mm minimum pipe thickness*
22
30
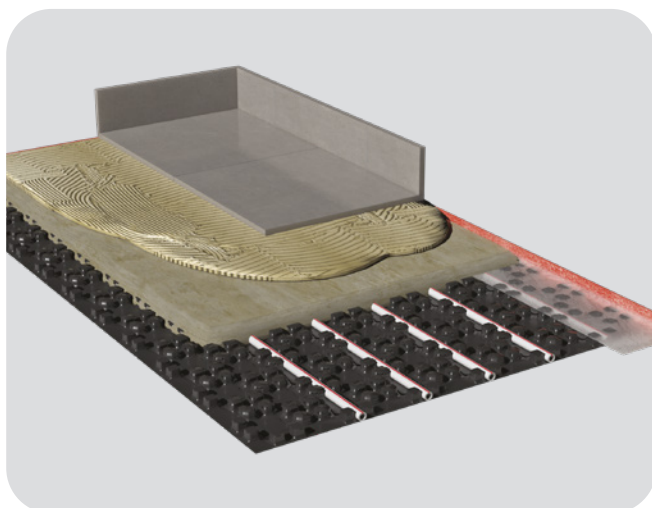
Euroflex TFS mini | LOW THICKNESS

Low thickness underfloor heating and cooling system consisting of a 1 mm thermoformed PS sheet. The height of the board is only 14 mm; by using a special screed, a radiant system with a total height of 19 mm / 24 mm can be obtained.

THICKNESS	14 mm
PIPE	12 x 2 mm
PIPE SPACING	5 | 10 | 15 | 20 cm

** 10 mm ~ Knauf NE 425 self-levelling screed
* 5 mm ~ Knauf NE 499 super-levelling screed
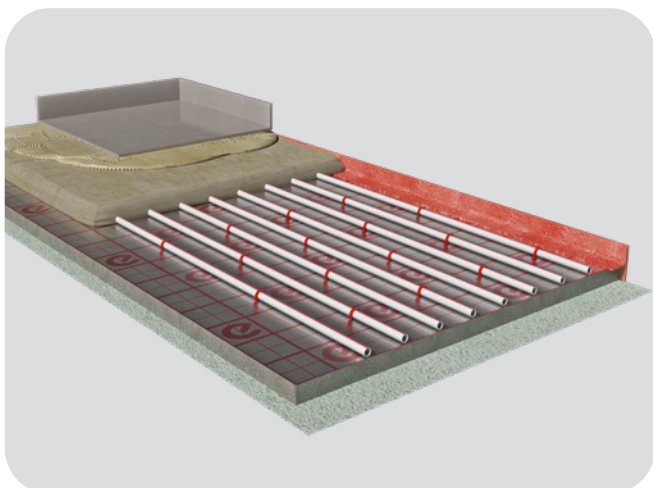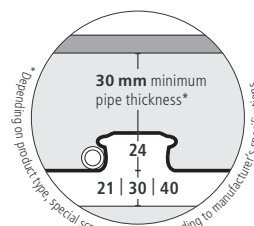
10** screed
5*
13
1 PS-foil

Euroflex

Underfloor heating and cooling system consisting of a preformed expanded polystyrene panel protected on the top by a black heat-coupled protective film (UNI EN 1264-4).
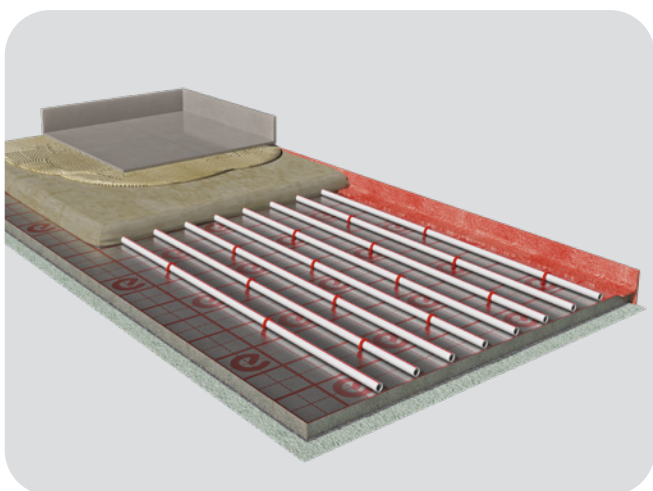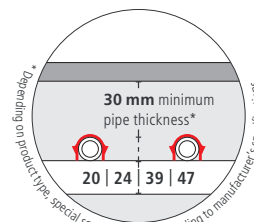
INSULATION	EPS
λ_D	0.035 W/mK
THICKNESS	21/45 | 30/54 | 40/64 mm
PIPE	14 x 2 | 16 x 2 | 17 x 2 mm
PIPE SPACING	5 | 10 | 15 | 20 cm

30 mm minimum pipe thickness*
24
21 | 30 | 40
*Depending on product type, special screeds allowed according to manufacturer's specifications.

Europlus-Lambda | HIGH THERMAL INSULATION

Underfloor heating and cooling system consisting of a flat expanded polystyrene insulation panel sintered with graphite and a pipe coupling system with special tacker clips.
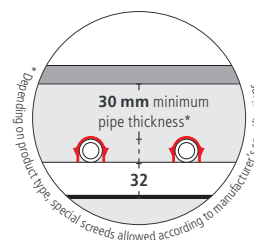
INSULATION	EPS sintered with graphite
λ_D	0.031 W/mK
THICKNESS	20 | 24 | 39 | 47 mm
PIPE	18 x 2 | 20 x 2 mm
PIPE SPACING	5 | 7.5 | 10 | 15 | 20 cm

30 mm minimum pipe thickness*
20 | 24 | 39 | 47
*Depending on product type, special screeds allowed according to manufacturer's specifications.

Europlus-Silentium | NOISE REDUCTION

Underfloor heating and cooling system comprising a flat insulation panel in sintered expanded polystyrene with graphite, with a sheet based on SBR rubber fibres and granules, and a pipe coupling system with special tacker clips.
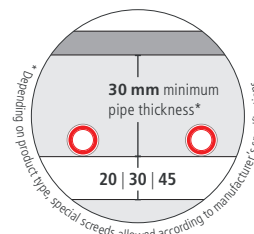
INSULATION	EPS with graphite + rubber fibre foil
λ_D	0.031 W/mK
THICKNESS	32 mm (24 + 8)
ACOUSTICS	ΔL_w 37 dB | $L_{n,w}$ 55 dB (screed and ceramics)
	ΔL_w 44 dB | $L_{n,w}$ 48 dB (floating parquet)
PIPE	18 x 2 | 20 x 2
PIPE SPACING	5 | 7.5 | 10 | 15 | 20 cm

30 mm minimum pipe thickness*
32
*Depending on product type, special screeds allowed according to manufacturer's specifications.
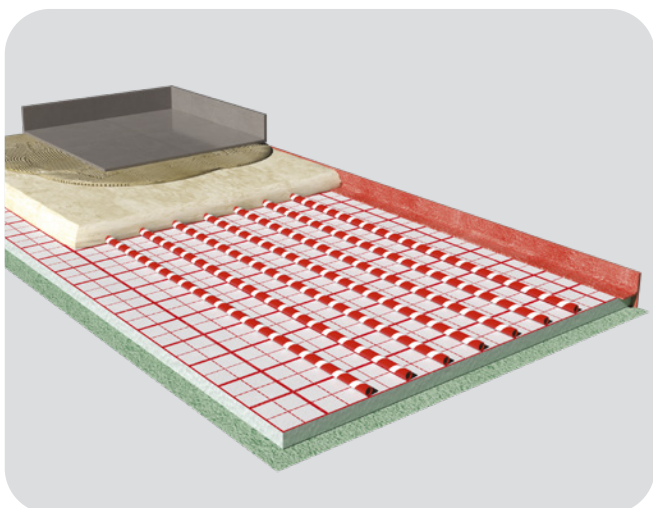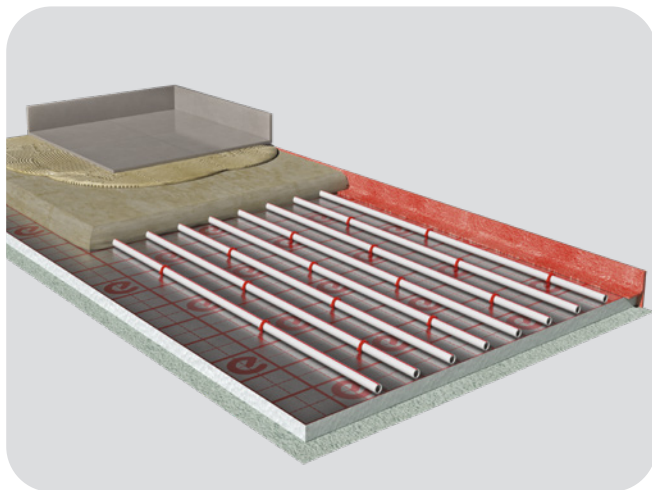
Europlus-Fast

Underfloor heating and cooling system consisting of an expanded polystyrene insulation board, protected at the top by a Velcro sheet on which pipe installation guidelines are marked at a distance of 50 mm, which can be laid quickly and safely without tools.

INSULATION	EPS
λ_D	0.034 W/mK
THICKNESS	20 | 30 | 45 mm
PIPE	15 x 1.5 mm
PIPE SPACING	5 | 7.5 | 10 | 15 | 20 cm

30 mm minimum pipe thickness*
20 | 30 | 45
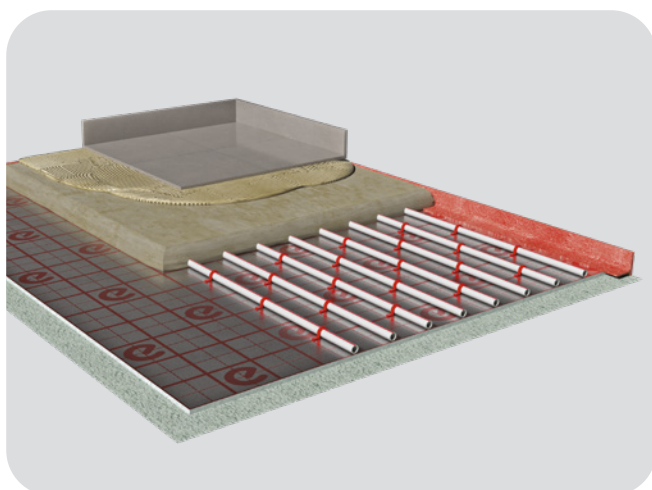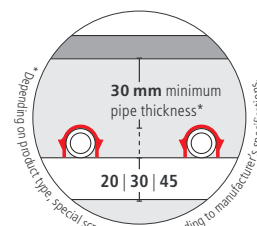*Depending on product type, special screeds allowed according to manufacturer's specifications.

Europlus-Flex

Underfloor heating and cooling system that consists of a flat expanded polystyrene insulation panel, protected at the top by an aluminised multi-layer sheet (UNI EN 1264-4).
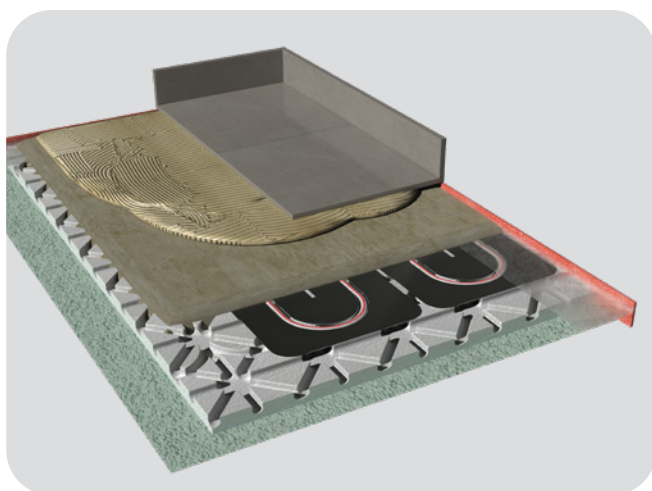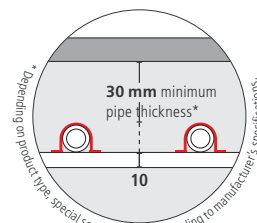
INSULATION	EPS
λ_D	0.034 W/mK
THICKNESS	20 | 30 | 45 mm
PIPE	16 x 2 | 17 x 2 mm
PIPE SPACING	5 | 7.5 | 10 | 15 | 20 cm

30 mm minimum pipe thickness*

*Depending on product type, special screeds allowed according to manufacturer's specifications.

20 | 30 | 45

Europlus-Ten | LOW THICKNESS

Underfloor heating and cooling system comprising a flat expanded poly-styrene insulation panel, and a pipe fixing system using special patented tacker clips. The panel is only 10mm high, making it ideal for situations where a reduction in thickness is required.

INSULATION	EPS
λ_D	0.034 W/mK
THICKNESS	10 mm
PIPE	12 x 2 | 14 x 2 | 16 x 2 | 17 x 2 mm
PIPE SPACING	5 | 7.5 | 10 | 15 | 20 cm

30 mm minimum pipe thickness*

*Depending on product type, special screeds allowed according to manufacturer's specifications.

10

Euroslim

Low-thickness underfloor heating and cooling system with an expanded polystyrene insulation panel shaped so that the pipe can be inserted into the special grooves above which special steel diffusers are fitted.
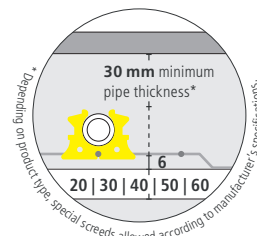
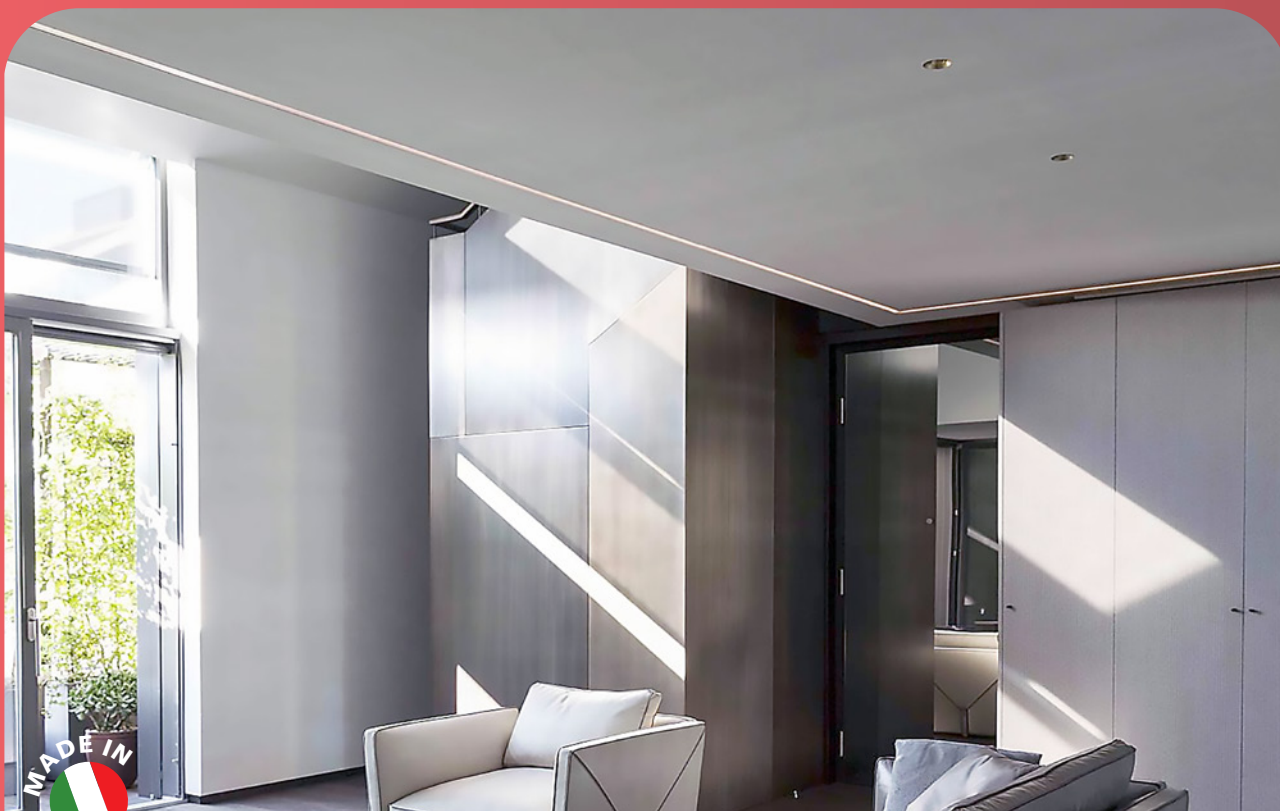|	
INSULATION	EPS
λ_D	0.033 W/mK
THICKNESS	25 mm
PIPE	14 x 2 mm
PIPE SPACING	12.5 | 25 cm

25
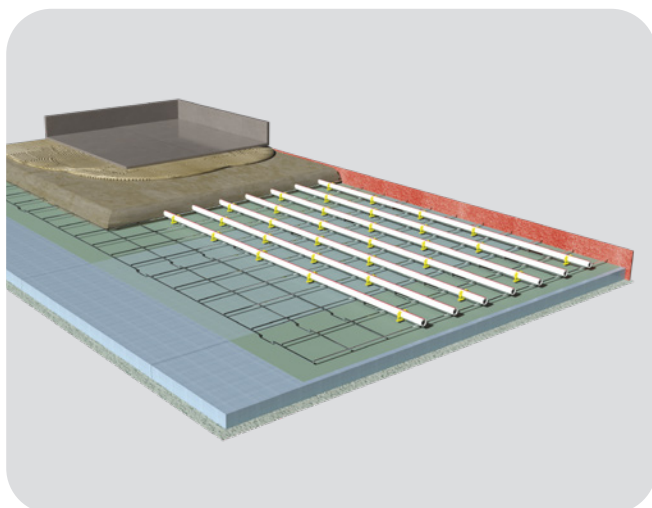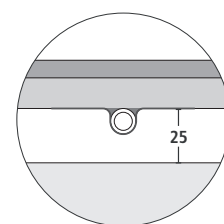
Eurogrid

Underfloor system ideal for heating large areas, warehouses and large sheds. The Eurogrid system includes a 17 mm ø pipe coupling system by means of clips inserted on the support mesh, laid with different spacing between the pipes for adapting the capacity to individual needs.

INSULATION	EPS
	XPS certificato CAM
λ_D	0.033 W/mK

THICKNESS	EPS: 200 kPa 20 | 30 | 40 mm
	XPS: 250 kPa 20 mm
	        300 kPa 30 | 40 | 50 | 60 mm
	        500 kPa 50 | 60 mm

PIPE	17 x 2 mm

30 mm minimum pipe thickness*

*Depending on product type, special screeds allowed according to manufacturer's specifications.

6

20 | 30 | 40 | 50 | 60

MADE IN ITALY

Climatic comfort **from above**

Radiant systems interact with the environment through the physical principle of radiation by releasing or absorbing energy, creating an ideal situation for heat exchange between people and surfaces. Thanks to radiant technology, the classic phenomenon of hot air going up and cold air going down as happens with air conditioners and radiators is eliminated.

Leonardo is the ceiling-mounted cooling and heating system completely developed and manufactured by Eurotherm – **100% made in Italy**. The special configuration succeeds in maximising performance and providing the highest level of comfort. In fact, the larger diameter of the pipe, compared to other ceiling systems, and its serpentine pattern allow for greater energy exchange, which increases its inertia rate and performance.

The new **Leonardo Click&Safe** ceiling panel

The Leonardo Click&Safe system allows for a ceiling radiant system for multiple applications. This system is composed of modular plasterboard panels with MidiX Plus piping already inserted and arranged in a serpentine pattern so as to maximise the exchange surface between piping and plasterboard. The plasterboard panel is supplied coupled with an insulating board to ensure high thermal performance.

C&S

iF DESIGN AWARD 2024

CONNECTS 10 m² IN LESS THAN 10 MINUTES

NO EQUIPMENT REQUIRED

VISUAL SAFETY THANKS TO THE CLIP

Safety and durability
Compression fittings pre-assembled on the pipe to ensure maximum tightness over time, with double gasketed fittings (Click&Safe) between the panels that close on the calibrated fitting and not on the pipe. Fittings tested at different temperature and pressure cycles in a certified laboratory.

Hydraulic backbone
The panel is complete with hydraulic piping for connecting the panels in series. The pipework is made of multilayer PE-RT Type II 20 x 2 mm. The special fitting certified with in-line leak test is pre-assembled.

Always isolated system
The insulation board is increased in accordance with the requirements of the UNI EN 1264:2021 allowing thermal losses to be limited, increasing the performance of the entire system.

Plasterboard for every room
Depending on the installation context, either "standard" or hydro panels can be used for wet rooms such as bathrooms and kitchens. A ceiling system with sound-absorbing panels can be installed in rooms that require it (e.g. offices, meeting rooms, etc.).

MidiX Plus pipe 10 x 1.3 mm
The Leonardo Click&Safe system incorporates a 10 x 1.3 mm diameter pipe. With its +25% diameter, the Leonardo Click&Safe system is significantly more efficient*.

* compared to traditional systems that adopt 8 x 1.1 mm pipes
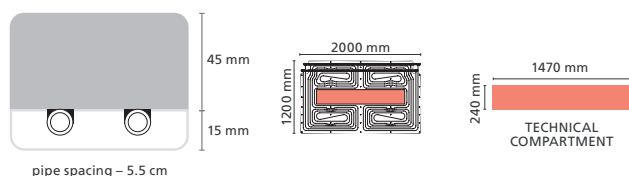
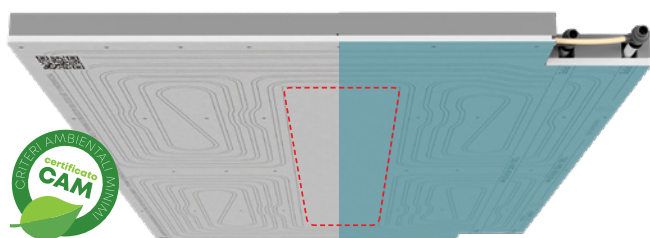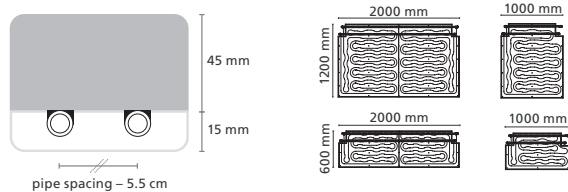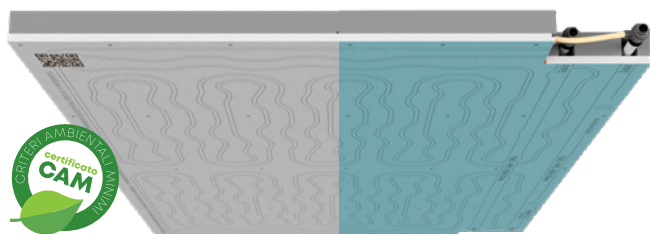### Laser tracing
Laser marking clearly indicates the presence of the pipe, preventing accidental drilling during installation.
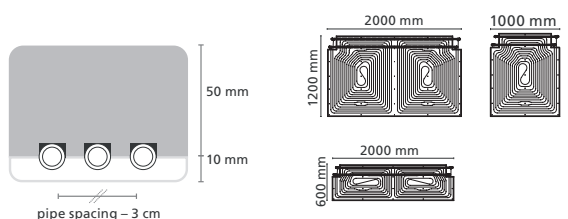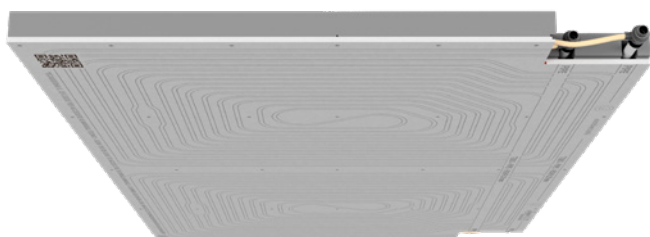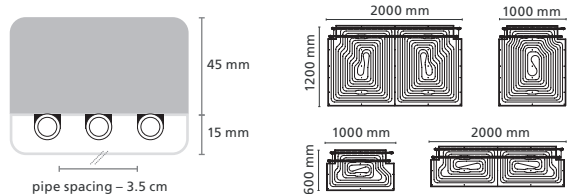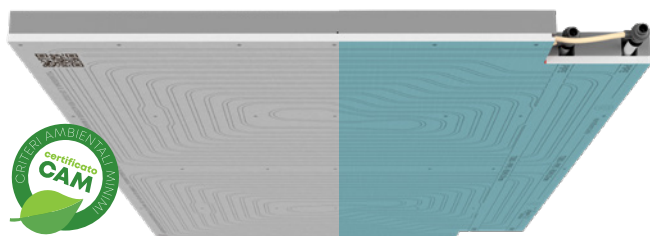
Leonardo Click&Safe 5.5 | 5.5 HYDRO

The Leonardo 5.5 and 5.5 HYDRO systems consist of a 15 mm plasterboard panel or a hydro plasterboard panel coupled with 45 mm graphite-sintered expanded polystyrene for a total thickness of 60 mm. The plasterboard is fitted with a 5-layer PE-RT Type II MidiX Plus polyethylene pipe with oxygen barrier spaced at 5.5 cm.

INSULATION	EPS graphite + (hydro) plasterboard panel
λ_D	0.031 W/mK (insulation)
THICKNESS	60 mm (45 + 15)
WEIGHT*	~13.5 kg/m² (1200 x 2000) / ~13.8 kg/m² (600 x 2000) / ~13.3 kg/m² (1200 x 1000, 600 x 1000)
HYDRO-WEIGHT*	~14.2 kg/m² (1200 x 2000) / ~13.9 kg/m² (1200 x 1000) /~14.4 kg/m² (600 x 2000)
PIPE	10 x 1.3 mm
PIPE SPACING	5.5 cm

🔴 **Ph 76.9 W/m²**

🔵 **Pc 47.7 W/m²**

🔴 Water inlet 40° C, Δθ = 2K

🔵 Water inlet 15° C, Δθ = 2K

*specific weight of the panel with water in the pipes

pipe spacing – 5.5 cm

2000 mm   1000 mm
1200 mm
2000 mm   1000 mm
600 mm

Leonardo Click&Safe Lux | Lux HYDRO

Leonardo Lux allows lighting, ventilation and other installations to be installed quickly and easily thanks to a special technical compartment (1470 x 240 mm) in the centre of the panel.

INSULATION	EPS graphite + (hydro) plasterboard panel
λ_D	0.031 W/mK (insulation)
THICKNESS	60 mm (45 + 15)
WEIGHT*	~13.5 kg/m² (1200 x 2000 mm)
HYDRO-WEIGHT*	~14.1 kg/m² (1200 x 2000 mm)
PIPE	10 x 1.3 mm
PIPE SPACING	5.5 cm

🔴 **Ph 76.9 W/m²**

🔵 **Pc 47.7 W/m²**

🔴 Water inlet 40° C, Δθ = 2K

🔵 Water inlet 15° C, Δθ = 2K

*specific weight of the panel with water in the pipes

pipe spacing – 5.5 cm

2000 mm
1200 mm

1470 mm
240 mm
TECHNICAL COMPARTMENT
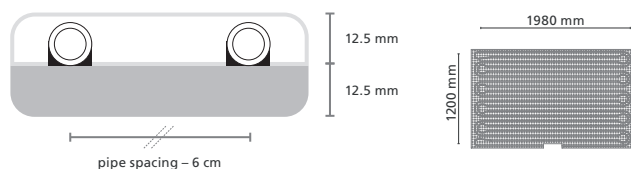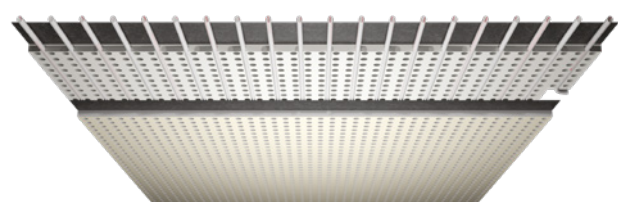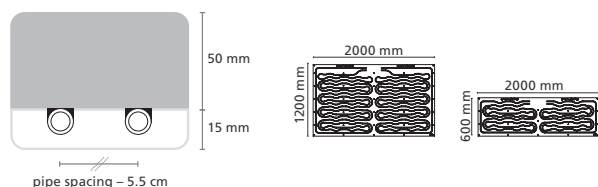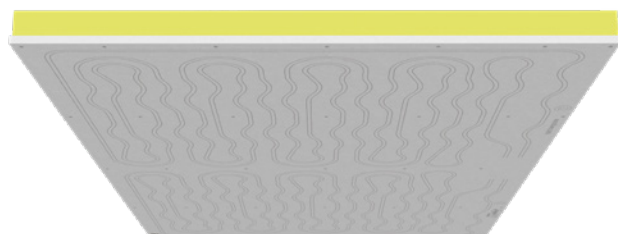
Leonardo Click&Safe 3.5 | 3.5 HYDRO

The Leonardo 3.5 and 3.5 HYDRO systems consist of 15 mm plasterboard or hydro plasterboard panel coupled with 45 mm graphite-sintered expanded polystyrene for a total thickness of 60 mm. The plasterboard is fitted with a 5-layer PE-RT Type II MidiX Plus polyethylene pipe with oxygen barrier spaced at 3.5 cm.

INSULATION	EPS graphite + (hydro) plasterboard panel
λ_D	0.031 W/mK (insulation)
THICKNESS	60 mm (45 + 15)
WEIGHT*	~13.6 kg/m² (1200 x 2000) / ~13.8 kg/m² (600 x 2000) /~13.3 kg/m² (1200 x 1000, 600 x 1000)
HYDRO-WEIGHT*	~14.1 kg/m² (1200 x 2000) / ~14.4 kg/m² (600 x 2000) / ~13.9 kg/m² (1200 x 1000, 600 x 1000)
PIPE	10 x 1.3 mm
PIPE SPACING	3.5 cm

🔴 **Ph 86.8 W/m²**

🔵 **Pc 61.6 W/m²**

🔴 Water inlet 39° C, Δθ = 2K

🔵 Water inlet 15° C, Δθ = 2K

*specific weight of the panel with water in the pipes

pipe spacing – 3.5 cm

2000 mm   1000 mm
1200 mm
1000 mm   2000 mm
600 mm

Leonardo Click&Safe 3.0 PLUS

10 mm pre-finished plasterboard panel with Activ'Air® technology coupled with 50 mm graphite-sintered expanded polystyrene, complete with 5-layer polyethylene PE-RT Type II MidiX Plus pipe with oxygen barrier spaced at 3.0 cm.

INSULATION	EPS sintered with graphite
λ_D	0.031 W/mK (insulation)
THICKNESS	60 mm (50 + 10)
WEIGHT*	~11.7 kg/m² (1200 x 2000, 1200 x 1000) ~12 kg/m² (600 x 2000)
PIPE	10 x 1.3 mm
PIPE SPACING	3 cm

🔴 **Ph 84.9 W/m²**

🔵 **Pc 79.0 W/m²**

🔴 Water inlet 37° C, Δθ = 2K

🔵 Water inlet 15° C, Δθ = 2K

*specific weight of the panel with water in the pipes

pipe spacing – 3 cm

2000 mm   1000 mm
1200 mm
2000 mm
600 mm
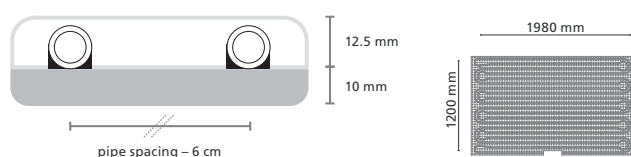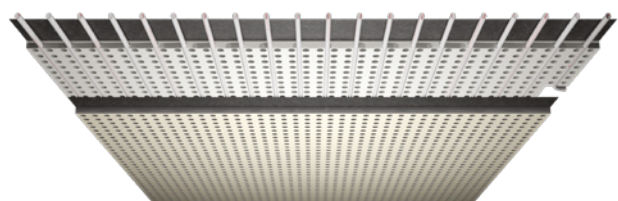
Leonardo **RF** SPECIAL

The Leonardo fire-resistant system is made up of 15 mm thick plasterboard with 50 mm high-density fibreglass, fire resistance class B2-s1, d0 in accordance with UNI EN 13501-1, fitted with a 5-layer PE-RT Type II MidiX Plus polyethylene pipe with oxygen barrier spaced at 5.5 cm.

INSULATION	Fibreglass + plasterboard
λ_D	0.037 W/mK (insulation)
THICKNESS	65 mm (50 + 15)
WEIGHT*	~16.1 kg/m² (1200 x 2000 mm) ~16.2 kg/m² (600 x 2000 mm)
PIPE	10 x 1.3 mm
PIPE SPACING	5.5 cm

🔴 **Ph 76.9 W/m²**
🔵 **Pc 47.7 W/m²**

🔴 Water inlet 40° C, $\Delta\theta = 2K$
🔵 Water inlet 15° C, $\Delta\theta = 2K$

*specific weight of the panel with water in the pipes

Acoustic ceiling

The acoustic ceiling system consists of two coupled perforated plasterboard panels and 12.5 mm acoustic felt, 25 mm in total. The plasterboard is fitted with a 5-layer PE-RT Type II MidiX Plus polyethylene pipe with oxygen barrier.

INSULATION	Fibreglass* + acoustic plasterboard
λ_D	0.036 W/mK (insulation)
THICKNESS	25 mm (12.5 + 12.5)
WEIGHT*	~19.5 kg/m² (1200 x 1980 mm)
PIPE	10 x 1.3 mm
PIPE SPACING	6 cm

🔴 **Ph 71.1 W/m²**
🔵 **Pc 42.7 W/m²**

🔴 Water inlet 40° C, $\Delta\theta = 2K$
🔵 Water inlet 15° C, $\Delta\theta = 2K$

*specific weight of the panel with water in the pipes

Acoustic ceiling **High Performance**

The acoustic ceiling system consists of two perforated plasterboard panels coupled together and 12.5 mm and 10 mm graphite acoustic felt with a total thickness of 22.5 mm. The plasterboard is fitted with a 5-layer PE-RT Type II MidiX Plus polyethylene pipe with oxygen barrier.

INSULATION	Fibreglass* + acoustic plasterboard with graphite
λ_D	0.036 W/mK (insulation)
THICKNESS	22.5 mm* (12.5 + 10)
WEIGHT*	~18.5 kg/m² (1200 x 1980 mm)
PIPE	10 x 1.3 mm
PIPE SPACING	6 cm

🔴 **Ph 80.0 W/m²**
🔵 **Pc 50.0 W/m²**

🔴 Water inlet 40° C, $\Delta\theta = 2K$
🔵 Water inlet 15° C, $\Delta\theta = 2K$

*specific weight of the panel with water in the pipes

HAVE A LOOK AT THE VIDEO

The **SAPP®** system

The metal ceiling SAPP® (Smart Acoustic Passive Power) is the solution for those who seek the highest standards of sustainability and eco-friendliness, but accept no compromise on acoustic and thermal comfort. The metal ceiling SAPP® lends itself to any creative architectural solution, thanks to its unique and harmonious open structure.

HIGH DESIGN AESTHETICS

LOW ENERGY CONSUMPTION

**HIGH EFFICIENCY ALL YEAR ROUND**

OPTIMAL ACOUSTIC PERFORMANCE

EPD

1. Insulating material
2. SAPP-Clips®
3. MidiX Plus pipe
4. SAPP® system steel slats

Architect' Studio: Roberto Nicoletti Architettura & Design – Photo credits: Marco Zanta

The ceiling system works with heat pumps, geothermal and other environmentally friendly sources that significantly reduce both energy waste and environmentally harmful emissions. Only steel was used in its construction, thus avoiding energy-consuming and polluting processes.

Heating performance

WINTER
Curves from yield certificates according to UNI EN 14037-5:2016 in heating.
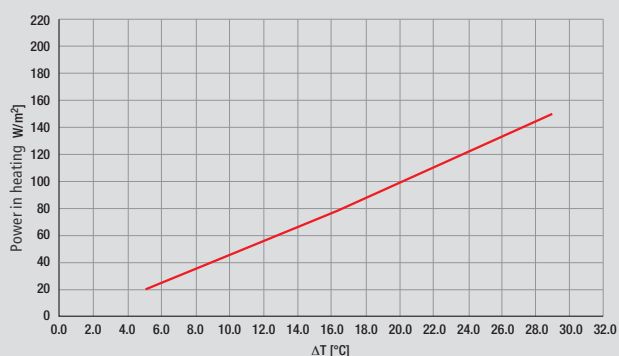
ΔT between mean water temperature and reference room temperature = 15 K **71 W/m²** (in accordance with EN14037)

Cooling performance

SUMMER
Curves from yield certificates according to UNI EN 14037-5:2016 in cooling.
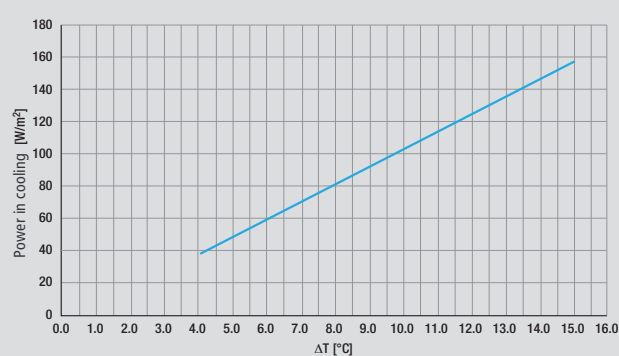
ΔT between reference ambient temperature and average water temperature = 10 K **103 W/m²** (in accordance with EN14240)

The **EASY-KLIMA®** system

Easy installation and maintenance-free operation make EASY-KLIMA® the versatile and adaptable ceiling that contributes to an extremely comfortable room climate and acoustics. The numbers speak for themselves: more than one million square metres of metal ceiling already installed.

LOW INSTALLATION HEIGHT	OPTIMAL ACOUSTIC PERFORMANCE	SUITABLE FOR RENOVATIONS	FLEXIBLE FOR COMMERCIAL APPLICATION
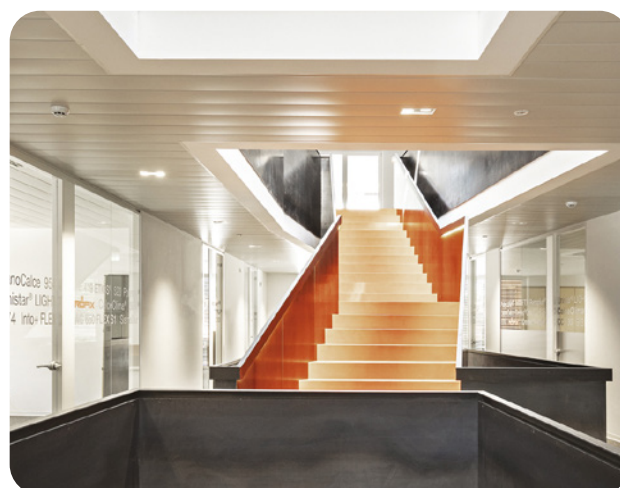
EPD

1. Insulating material
2. Easy-Plus Clips
3. MidiX Plus pipe
4. EASY-KLIMA® system steel slats

The ceiling system works with heat pumps, geothermal and other environmentally friendly sources that significantly reduce both energy waste and environmentally harmful emissions. Only steel was used in its construction, thus avoiding energy-consuming and polluting processes.

Heating performance

WINTER
Curves from yield certificates according to UNI EN 14037-5:2016 in heating.
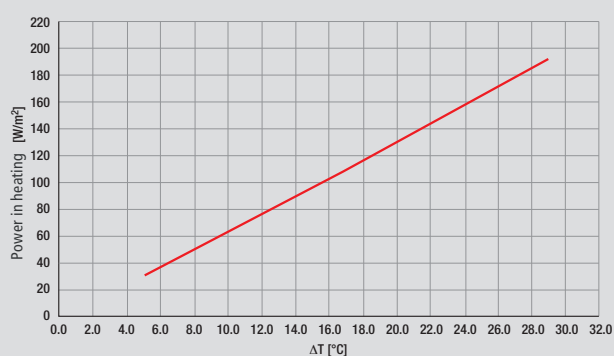
ΔT between mean water temperature and reference room temperature = 15K **96 W/m²** (in accordance with EN14037)

Cooling performance

SUMMER
Curves from yield certificates according to UNI EN 14240:2005 in cooling.
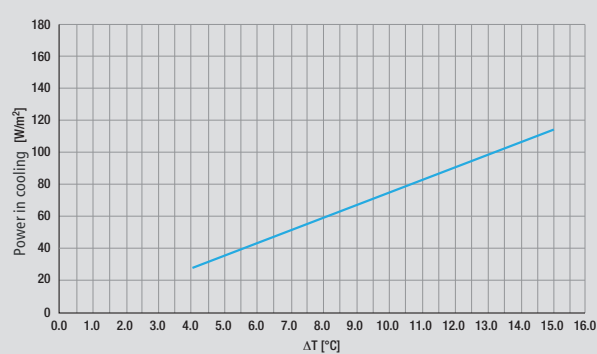
ΔT between reference ambient temperature and average water temperature = 10 K **74 W/m²** (according to EN14240)

MidiX Plus pipe

- 5-layer pipe with oxygen barrier.
- Oxygen barrier 10 times higher than standard specification EN 1264-4:2021.
- High flexibility and maximum durability thanks to state-of-the-art production lines.
- Innovative twist-free unrolling system from the inside.
- Indication of installed and remaining length on the hose.

The MidiX Plus PE-RT Type II pipe (ISO 22391, ISO 24033, ISO 21003, EN 1264, BRL 5602, BRL 5607, DIN 4726, ISO EN 11855) is a high-temperature resistant polyethylene pipe with an EVOH oxygen barrier. It features low vapour permeability (0.32 mg/(m²d) at 40 °C and 3.6 mg/(m²d) at 80 °C, tested per ISO 17455). The pipe meets mechanical strength standards for classes 4 and 5 at 6 bar (ISO 10508), ensuring a 50-year lifespan.

It can be laid cold and is supplied in rolls of suitable lengths, stored away from sunlight. The pipe is marked with its mechanical properties and remaining roll length. Quality is verified through third-party inspections by KIWA N.V., with KOMO K 86478, DIN CERTCO 3 V399 PE-RT system certification, and CE marking (ETA 17-1013). An externally verified EPD based on EN ISO 14025 confirms the product's life cycle assessment.

Field of application

|	Underfloor heating panels	High temperature radiators
Class	4	5
T max	70 °C	90 °C
Pressure	6 bar	6 bar

1) Detailed information on request.

1. **High-temperature resistant polyethylene**
2. **Adhesive**
3. **Oxygen barrier**
4. **Adhesive**
5. **High-temperature resistant polyethylene**

Technical information

Pipe	Diameter	Water content (l/m)	Curve radius	Curve diameter
10 x 1.3	10 mm	0.043	50 mm	100 mm
12 x 2	12 mm	0.050	60 mm	120 mm
14 x 2	14 mm	0.079	70 mm	140 mm
15 x 1.5	15 mm	0.113	75 mm	150 mm
16 x 2	16 mm	0.113	80 mm	160 mm
17 x 2	17 mm	0.138	85 mm	170 mm
18 x 2	18 mm	0.154	90 mm	180 mm
20 x 2	20 mm	0.201	120 mm	240 mm
25 x 2.3	25 mm	0.327	200 mm	400 mm
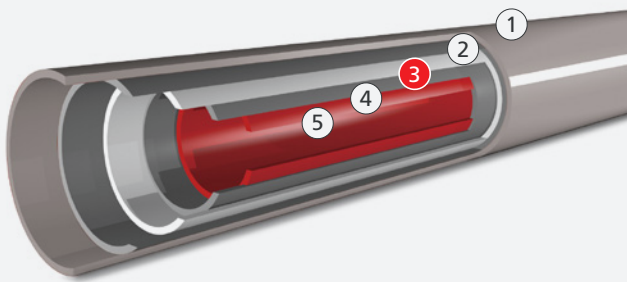
Innovative **pipe decoiler**

- Lightweight aluminium body.
- Mounting without screws or tools.
- Double ball bearings.
- Unrolling from inside and outside.
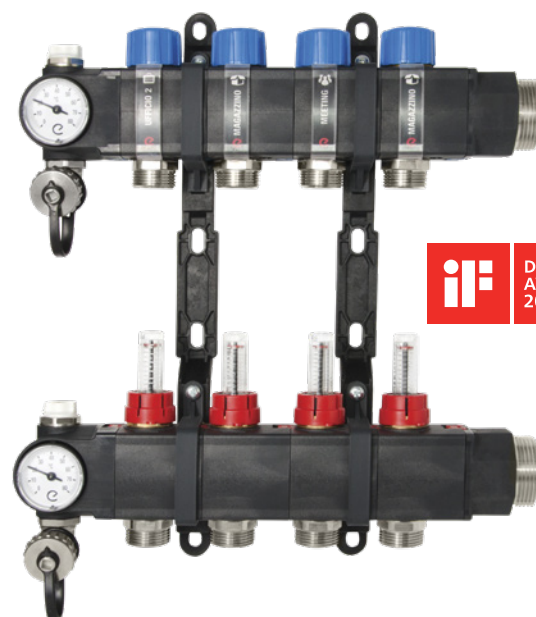- Compact and transportable.

New pipe decoiler designed to optimise the laying of MidiX Plus pipes. The ability to unwind from the inside ensures quick and easy laying without twisting.
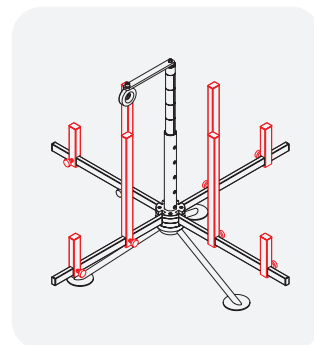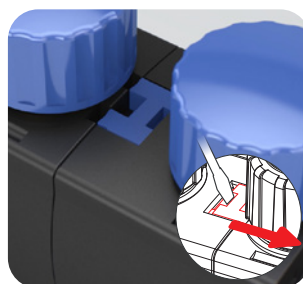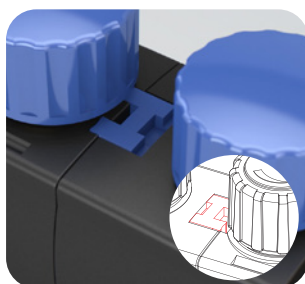
SL 1" manifold

- Safe and fast Screw & Lock assembly system.
- Integrated thermal insulation chambers and valve PE insulation (optional).
- Double O-ring connection for maximum tightness.
- Version with Automatic Flow Control (AFC).

Modular pre-assembled SL flow/return manifold, easy to assemble thanks to the innovative Screw & Lock system, made of reinforced polyamide, with integrated thermal insulation chambers, ideal for heating and cooling, complete with: micrometric flow controller for each circuit, flow meter for each circuit, terminal with fill/drain tap, air bleed valves, flow thermometer, return thermometer and clip-on local identification plates. Brackets for fixing the manifold to the wall or inside the cabinet. Possibility of reversibility on site for right or left connections, top or bottom and also single circuit. Prepared for the installation of actuators on each circuit. 1"¼ M GAS connections with flat head designed for flat gasket connection (manifold connection with flat gasket). Installation depth 90 mm or 80 mm with steel bracket kit for cabinet 80.


Screw and lock: simple and safe

The innovative Screw & Lock system allows you to quickly and safely assemble the SL manifold in just a few steps, without using special tools. In fact, each individual module has a double O-ring for fastening which guarantees a perfect seal. After tightening, it will be possible to firmly lock all the individual parts of the manifold body by simply pressing the clips located on the base and upper side of the modules. The Screw & Lock system allows you to easily invert the couplings or reverse one or more modules on-site.

Labels

The SL manifold is equipped with room labelling clips, which can also be customised.
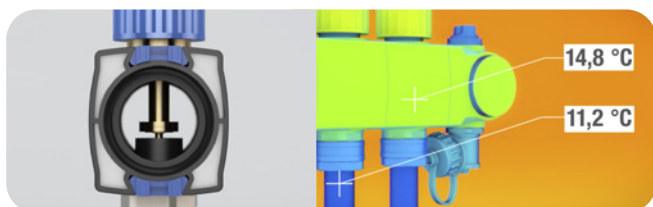
Always insulated manifold

The SL manifold incorporates an air chamber that thermally insulates each module. This avoids unnecessary heat loss caused by low winter temperatures and condensation problems in the summer when the radiant system is in cooling mode. Thanks to a specially designed PE shell, the insulation extends beyond the manifold body to the ball valves.

Innovative **AFC** technology

AFC is the **innovative valve insert for automatic flow control**. Once the desired value has been set, the valve ensures that it is not exceeded.
It is possible to use this technology even in complex systems or in existing buildings where the system dimensional data are often not available and the use of traditional valves may prove inefficient.

The SL manifold is the only one of its kind to be pre-configured for the installation of the AFC unit.

MADE IN ITALY

The intelligence of **SmartComfort 365** controlling the radiant system

A performance car needs an exceptional driver. This is why Eurotherm radiant systems are driven by management technology that is as advanced as it is simple to use. **SmartComfort 365** and **SmartOne 365** are high-tech solutions for fully remote management of heating and cooling through PID (Proportional Integral Derivative Strategy) control logic adapted for radiant systems. Both control underfloor, wall and ceiling radiant systems through software that memorises usage habits and optimises switching on, dimming and switching off to keep costs down without sacrificing comfort. The performance of the system is always top notch.

SmartComfort 365 – multiple zones

SmartComfort 365 is the evolution of the SmartComfort intelligent regulation system. Featuring a 5-inch capacitive multitouch display, it offers improved graphics for easier usability and enhanced functionalities. It connects via WiFi or Ethernet to a cloud platform, allowing users to monitor and manage the radiant system, ventilation, request assistance, and access personalized services through a dedicated account.

The device's on-board intelligence enables smart management compatible with modern smart home applications, with the Away function automatically adjusting the temperature to save energy when no one is home.

The updated App allows remote monitoring and control of multiple systems across different locations, with all settings synchronized with the main device. The App continues to operate even without connectivity.

NEW DESIGN!

WiFi

5" CAPACITIVE TOUCHSCREEN DISPLAY WITH MULTITOUCH TECHNOLOGY	WIFI, ETHERNET AND SERIAL BUS CONNECTION (RS 485)		OPTIMUM START/STOP
TEMPERATURE/HUMIDITY SENSORS IN EVERY ROOM, IAQ (WITH SMARTONE SENSORS ONLY)	CONNECTION TO THE CLOUD PLATFORM AND DEDICATED APP		PID REGULATION STRATEGY
THE SYSTEM OFFERS THE BEST OPERATING MODE FOR EACH ROOM	SEVERAL SMARTONE 365 CAN BE CONNECTED AS SENSORS IN A SMARTCOMFORT 365 WIFI (REQUIRES ROUTER) OR BUS SYSTEM		ADVANCED MANAGEMENT OF HEATING AND COOLING SYSTEMS
	COMPATIBLE WITH HOME AUTOMATION AND VOICE CONTROL DEVICES		ADVANCED AIR TREATMENT MANAGEMENT

SmartOne 365 – one zone

SmartOne 365 is Eurotherm's new smart display with small dimensions but big performance. A 4" multitouch capacitive fullglass screen equipped with two relay outputs that control a heating/cooling zone and dehumidification consent. Inside the display are temperature and humidity sensors. Thanks to WiFi connectivity it is possible to connect SmartOne 365 directly to the Cloud Platform and App, or to link several devices as a single system. For radiant system management, the display makes use of PID control, Optimum start/stop. SmartOne 365 is compatible with voice control applications.

WiFi

|			
4" CAPACITIVE TOUCHSCREEN DISPLAY WITH MULTITOUCH TECHNOLOGY	WIFI, ETHERNET AND SERIAL BUS CONNECTION (RS 485)		OPTIMUM START/STOP
2 RELAY OUTPUTS 1 ZONE CONTROL. HEATING / COOLING + DEHUMIDIFICATION	CONNECTION TO THE CLOUD PLATFORM AND OWN APP		PID REGULATION STRATEGY
TEMPERATURE, HUMIDITY, IAQ (INDOOR AIR QUALITY) SENSORS	COMPATIBLE WITH HOME AUTOMATION AND VOICE CONTROL DEVICES		
THE SYSTEM OFFERS THE BEST OPERATING MODE FOR EACH ROOM			

Deuclima-CMV

CMV UNIT WITH HIGHLY EFFICIENT HEAT RECOVERY AND AIR TREATMENT

Mechanical ventilation, dehumidification and air integration unit for indoor ceiling or wall installation, designed to optimise the comfort of rooms equipped with radiant heating and cooling systems.
The unit is equipped with a high-efficiency dual-flow heat exchange system, a motorised damper system for switching between recirculation and/or air exchange modes, and 2 high-head EC fans.
The unit can perform dehumidification (through a dedicated refrigeration cycle), integration and renewal with heat recovery through a

high efficiency dual flow heat recovery unit and free cooling (internal damper). The unit has a casing with intermediate insulation to maintain high performance even when the temperature of the room in which the machine is installed varies. Automatic air disinfection system with UV LED lamp. Filters can be easily removed for cleaning. Automatic air intake temperature control. CO_2 probe available (optional).
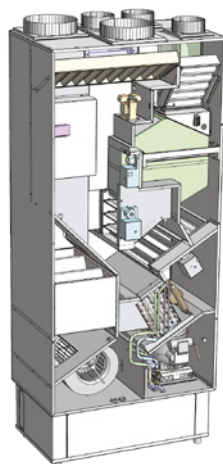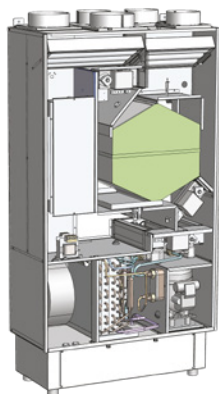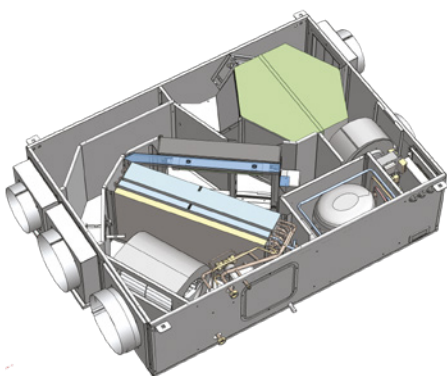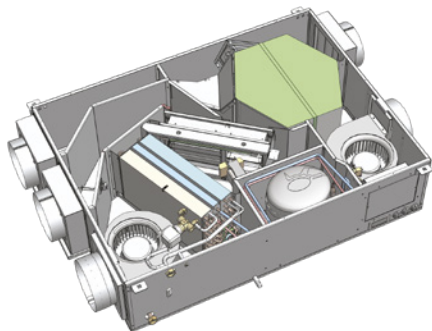
Deuclima-CMV **300 S**

SANITISING UV LAMP AS STANDARD

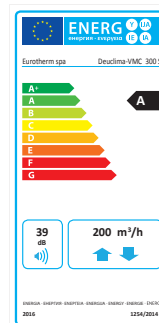3 FILTERS **ePM$_{10}$ 50%** (ISO 16890)

Apartments up to 110 m²
Dimensions: 1205 x 798 x 244 mm
Condensate capacity (recirculation): 26 l/g
Nominal treated air flow rate: 300 m³/h
Sensible cooling power: 620 W
External airflow: 75-200 m³/h

Deuclima-CMV **500 S**

SANITISING UV LAMP AS STANDARD

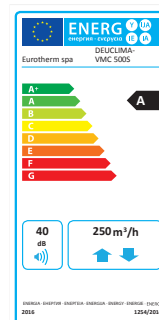3 FILTERS **ePM$_{10}$ 50%** (ISO 16890)

Apartments up to 190 m²
Dimensions: 1255 x 811 x 294 mm
Condensate capacity (recirculation): 48 l/g
Nominal treated air flow rate: 500 m³/h
Sensible cooling power: 1.550 W
External airflow: 100-250 m³/h

Deuclima-CMV **300 V**

SANITISING UV LAMP AS STANDARD

3 FILTERS **ePM$_{10}$ 50%** (ISO 16890)
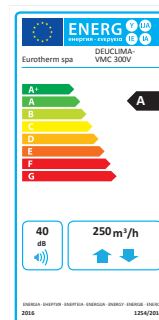
Apartments up to 110 m²
Dimensions: 1392 x 700 x 343 mm
Condensate capacity (recirculation): 36 l/g
Nominal treated air flow rate: 300 m³/h
Sensible cooling power: 920 W
External airflow: 100-250 m³/h

Deuclima-CMV **500 V**

SANITISING UV LAMP AS STANDARD

3 FILTERS **ePM$_{10}$ 50%** (ISO 16890)
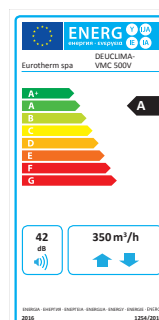
Apartments up to 190 m²
Dimensions: 1697 x 700 x 421 mm
Condensate capacity (recirculation): 48 l/g
Nominal treated air flow rate: 500 m³/ha
Sensible cooling power: 1.500 W
External airflow: 100-350 m³/h

Lifetime
Warranty

Eurotherm radiant systems are *lifelong* guaranteed by ITAS Assicurazioni. Eurotherm extends the guarantee to the entire lifetime of the radiant system against unintentional damage caused to third parties resulting from manufacturing, assembly and/or design defects.

ITAS ASSICURAZIONI   eurotherm *radiant comfort systems* | B Certified

CERTIFICATO DI GARANZIA EUROTHERM
EUROTHERM WARRANTY CERTIFICATE
EUROTHERM-GARANTIEZERTIFIKAT

Eurotherm, per garantire la sicurezza e la tranquillità dei propri Clienti si è dotata delle necessarie coperture assicurative al fine di tutelarne l'interesse, affidandosi a ITAS Mutua. La garanzia prevede:

- Assicurazione della Responsabilità Civile del Produttore, **senza limite di tempo, su tutti i prodotti e per l'intera durata contrattuale assicurativa**, per difetti originari di produzione, assemblaggio e/o progettazione, istruzione, imballaggio, contro i danni involontariamente cagionati a Terzi.
  I massimali assicurati sono i seguenti:
  per sinistro **€ 10.000.000,00**

- Assicurazione della responsabilità Civile dell'Attività, contro Terzi e su tutti i lavori di manutenzione e installazione effettuati da personale specializzato Eurotherm.
  I massimali assicurati sono i seguenti:
  per sinistro, limite per persona e limite per danni a cose **€ 10.000.000,00**
  Copertura valida per segnalazione sinistro entro 24 mesi di messa in pressione con prova tenuta impianto.

ITAS garantisce quindi contro i danni sopra descritti fino alla concorrenza dei massimali indicati nelle certificazioni assicurative allegate e nell'ambito delle rispettive condizioni contrattuali di assicurazione.
La garanzia vale in tutto il mondo escluso USA/CAN/MEX.

To guarantee our Clients' safety and peacefulness, Eurotherm has entered into the proper insurance covers with ITAS Mutua in order to protect our clients' interest. The warranty includes:

- A product liability insurance, **without any temporal limitation, on all products and throughout the entire duration of the contract**, for flaws due to imperfect production, assembly and/or planning, instruction and packaging against damages accidentally caused to Third parties.
  The covered limit of liability are:
  per accident **€ 10.000.000,00**

- A business liability insurance against Third parties and on all the maintenance and installation works fulfilled by Eurotherm expert staff.
  The covered limit of liability are:
  per accident, limit per person and limit per damage to goods **€ 10.000.000,00**
  The coverage is valid whether the accident is alerted within 24 months from the pressurization with plant tightness test.

Hence, ITAS guarantees against the above-described damages within the limits laid down in the attached insurance certifications and within the consequent insurance's terms and conditions. The guarantee is valid worldwide excluding USA/CAN/MEX.

Um die Sicherheit und Zufriedenheit seiner Kunden zu garantieren, hat Eurotherm einen Versicherungsschutz für alle notwendigen Fälle mit ITAS Mutua abgeschlossen. Die Garantie umfasst wie folgt:

- *Unbefristete Haftpflichtversicherung, **für alle Produkte und für die gesamte Dauer des Versicherungsvertrages** für Fabrikationsfehler, Montage- und/oder Konstruktionsfehler, Fehler in der Anleitung oder Verpackungsfehler, Haftpflichtversicherung gegenüber Dritten.*
  Die Obergrenzen sind wie folgt:
  ***€ 10.000.000,00** pro Schadensfall*

- *Haftpflichtversicherung gegenüber Dritte und für Wartungs- und Installationsarbeiten, die von Spezialisten von Eurotherm ausgeführt werden.*
  Obergrenzen sind wie folgt:
  ***€ 10.000.000,00** pro Schadensfall, Höchstgrenze pro Person und für Sachschäden*
  Versicherungsdeckung gültig bei Schadenseröffnung innerhalb von 24 Monaten nach Druckprüfung der Anlage.

ITAS garantiert daher gegen die oben genannten Schäden innerhalb der in den beigefügten Versicherungsbescheinigungen angegebenen Höchstgrenzen und im Rahmen der jeweiligen vertraglichen Versicherungsbedingungen. Die Garantie gilt weltweit, ausgenommen USA/CAN/MEX.

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More quality for the indoor **climate.**

More value for **well-being.**

eurotherm ®
radiant *comfort* systems

Certified
Ⓑ
Corporation

TÜV SÜD ISO 9001

TÜV SÜD ISO 14001

TÜV SÜD ISO 45001

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