

Underfloor heating

Infrared heating &
Infrared heaters

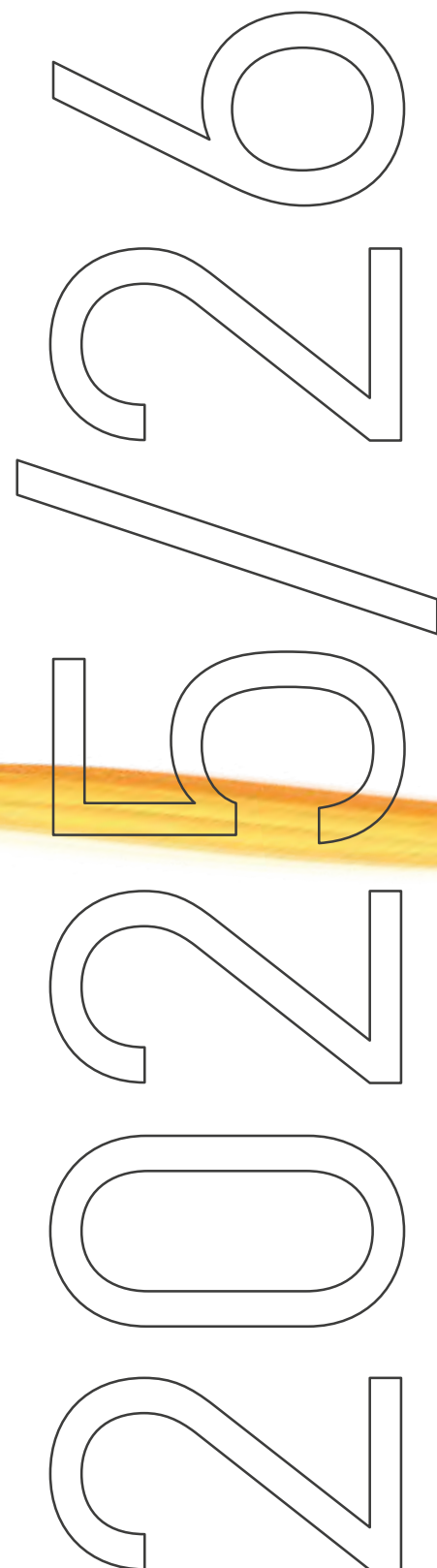
Heat pumps

Direct heating devices

Frost protection solutions

Control systems

PRODUCT CATALOG





A COMMITMENT
TO EXCELLENCE
FROM START TO
FINISH.

At ARC we do more than supply high-quality heating solutions, we build lasting partnerships. From the initial consultation to installation and aftersales support, we work alongside our customers and carefully selected installation partners every step of the way. We understand that choosing the right heating system is a life-style choice and long-term investment, which is why we only offer products that deliver outstanding comfort, performance, energy efficiency and durability.

Our solutions are built to last, engineered with precision, and designed to perform in even the most demanding environments. Our long-term partnership with leading manufacturers like ETHERMA ensures we know their products as if they were our own which means we are 100% confident they meet the high standards we expect, because we don't compromise on quality, and neither should you.

More than just a supplier, we're your partner in comfort and efficiency, providing expert guidance, seamless installation, and dedicated aftersales support. When you choose ARC, you're choosing reliability, expertise, and a commitment to working together from start to finish.

ETHERMA°
EFFICIENT. ELECTRIC. HEATING.

COMPETENCE
AND INNOVATION
FOR MORE THAN
40 YEARS.

With ETHERMA you have a strong and experienced partner for innovative heating solutions by your side. For over forty years we have been synonymous with premium product quality, modern design and ongoing innovation. We strive not only to offer you the best heating technology but also comprehensive service and customised solutions for your individual needs.

As an Austrian company with an international presence, we manufacture high-end electrical heating solutions in our own production facilities. Our quality-tested and certified products convince with their efficiency, safety and sophisticated design. Quick and simple installation ensures maximum comfort - you can enjoy cosy warmth and a special ambience at the push of a button.

ETHERMA is synonymous with sustainability and innovation. Our aim is to make the vision of CO₂-free heating a reality and ensure that future generations have an environment that is worth living in. All whilst constantly prioritising the satisfaction of our customers.

Welcome to the world of ETHERMA – heating reimagined.

ETHERMA NEW PRODUCTS 2025/26



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ETHERMA eFLOOR heating mats

The PFAS-free
underfloor heating



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ETHERMA eFLOOR PRO Sets

The PFAS-free
complete heating mat sets



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LAVA® BASIC 3.0

Smart
infrared heating
for your wall & ceiling



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LAVA® 3.0

Smart
infrared heating
for your wall



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LAVA® BATH PURE 3.0

Smart bathroom
infrared heating
with a towel rail



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LAVA® BATH 3.0

Smart bathroom infrared heating
with a towel rail



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ETHERMA DUO PLUS S2

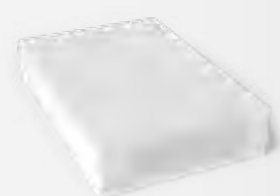
The convector
storage heating with
radiant heat



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ETHERMA SMARTCUBE

Smart radio thermostat –
part of the new ETHERMA
radio solution



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ETHERMA SMARTBOX

Smart radio receiver –
part of the new ETHERMA
radio solution

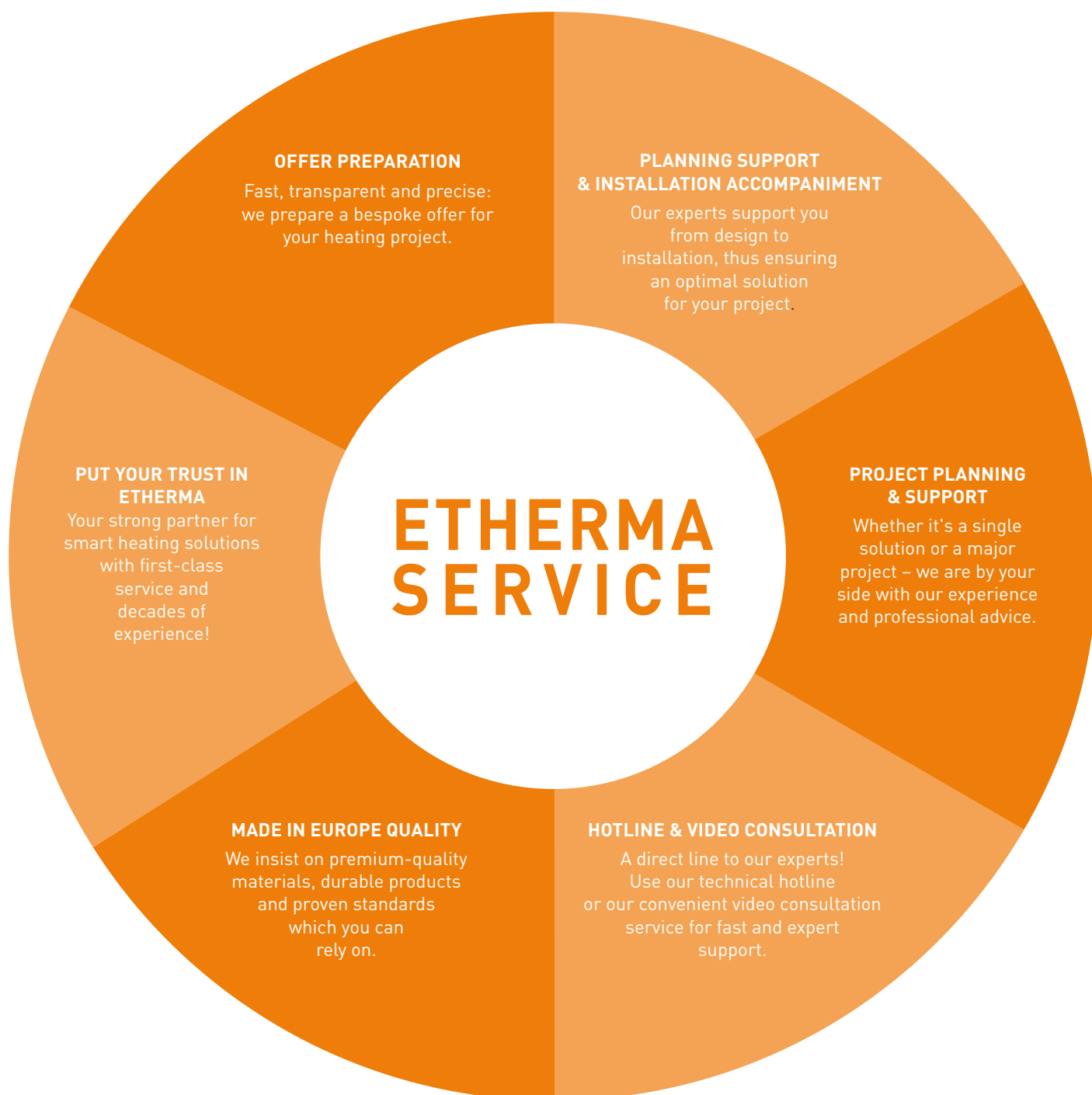


ETHERMA SERVICE

Your partner for successful heating projects.

With over 40 years of success in the area of electrical heating systems, ETHERMA is synonymous with premium quality, comprehensive know-how and excellent service. From your first consultation to the final installation, we accompany you with bespoke solutions and individual support.

As an ETHERMA partner you benefit from our expertise around smart heating solutions. We support you at each project stage – from planning to start-up – and make your work more efficient.



ETHERMA eWARRANTY

Our new guarantee extension up to 30 years.

At ETHERMA we insist on premium quality, durable products and cutting-edge technology. And to offer you even greater peace of mind, you can take advantage of our new eWARRANTY guarantee extension and protect your electrical heating over the long term for up to 30 years.

eWARRANTY - For electricians and installers



SELL

A persuasive sales argument - more sales closed. With a guarantee of up to 30 years you can convince your customers in the blink of an eye. This affords you competitive advantages and increases sales.



INSTALL

Installation as usual - no additional expenditure. You install the product as always. The end customer activates the guarantee themselves. Nothing changes for you - except the added value for your customers.



FORGET

Install, complete - and the rest takes care of itself. After installation you are finished. No registration, no deadlines - the customer applies for our eWARRANTY. Simple, secure, carefree.



TRUST

Long-term security achieves customer loyalty. Offering quality engenders trust. With our eWARRANTY you show your commitment to durable products - and strengthen your customer relations in the long term.

It's a simple process:

1. REGISTRATION

Your customer easily registers their ETHERMA eWARRANTY product free of charge within 6 months of purchase on our website.

2. GUARANTEE CERTIFICATE

Your customer receives their guarantee certificate from ETHERMA and keeps it just in case.

3. CARE-FREE ENJOYMENT

You and your customers take advantage of extended protection and first-class service.

With our ETHERMA guarantee extension you are opting for even more comfort, security and quality. Make your heating work for you in the long term - with no compromises!

FIND OUT MORE & REGISTER:

www.etherma.com/en/ewarranty



SUSTAINABLE HEAT

ALL ETHERMA HEATING MATS ARE 100% PFAS-FREE!

For us and the next generations.

What are PFAS?

PFAS, or per- and polyfluoroalkyl substances, are a group of chemical compounds known for their water, fat, dirt and heat-resistant qualities. They are part of the group of so-called "forever chemicals" because they hardly break down in the environment due to their stable chemical structure. PFAS are used in numerous products such as water-repellent clothing, non-stick coated cooking utensils and sometimes also in heat conductors. These materials ensure that mats remain resistant against moisture and other environmental impacts. However, the use of PFAS also entails considerable environmental and health risks.





Why PFAS-free?

PFAS-free heating mats offer numerous ecological and health advantages. A key advantage is the reduced impact on the environment. Since PFAS are not biodegradable, they remain in soils, waterways and the air for many years. The use of PFAS-free products helps free the environment of these harmful chemicals and reduce the CO₂ footprint of the product. A further advantage is the increased recyclability of PFAS-free heating mats. Products which contain PFAS are more difficult to recycle because the chemicals react with the materials and make them hard to reuse. PFAS-free products, in contrast, are easier and more environmentally friendly to recycle, resulting in a reduction in waste and use of resources.

PFAS-free products do not contain these harmful chemicals and stand for a safer and healthier future. By saying goodbye to PFAS, we are actively helping to conserve the environment and protect the health of our customers. Because our commitment extends beyond selling – ETHERMA stands for a CO₂-free future and a better world for our children.



SAFETY FOR YOUR HEALTH

Our PFAS-free products minimise the risks of harmful effects on your health.



INNOVATIVE QUALITY

Our decision to dispense with PFAS does not mean you have to make compromises when it comes to quality. Our products offer the same reliability and durability that you have come to expect from ETHERMA.



ENVIRONMENTALLY FRIENDLY

By dispensing with PFAS we reduce our environmental impact and contribute to a cleaner and healthier world.

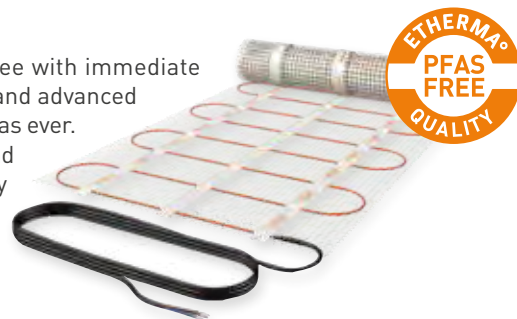


A PIONEERING ROLE

With our PFAS-free products we are making a powerful statement and showing that progress and sustainability are inextricably linked.

And durability?

All of our ETHERMA eFLOOR heating mats and our other heating mats are PFAS-free with immediate effect - with no adverse impact on durability or quality. By using innovative materials and advanced production techniques we have ensured that our products remain as robust and durable as ever. They continue to offer high performance levels, are resistant to mechanical impacts and guarantee a long lifespan. Even without PFAS our heating mats meet the highest quality standards and offer you reliable comfort and safety for many years.



Why now?

Now is the best time for introducing changes. At ETHERMA it has long been our aim to offer a CO₂-free heating solution and thus help shape a better world for future generations. The introduction of PFAS-free products is therefore a logical step in this direction. We are committed to constantly striving to find ways to improve our products and processes and make the world a bit safer and more sustainable.



A HUGE OPPORTUNITY – THE ECODESIGN REGULATION FOR ELECTRICAL HEATING SYSTEMS

Score with quality and service.

The EU Ecodesign Directive (2009/125/EG) ensures that electrical heating systems are more environmentally friendly, energy-efficient and smarter. And from 1st of July the new regulation (EU) 2024/1103 comes into effect, which further intensifies the requirements. The aims are to lessen energy consumption, reduce the emission of CO₂ and foster sustainable heating solutions. This provides a big opportunity for the electrical trade to position itself as an expert partner for the end customer.

1. ENERGY EFFICIENCY AND MINIMISATION OF LOSSES

- > Electrical heating systems must achieve a minimum annual efficiency.
- > Energy losses on standby or when switched to off are limited by thresholds.

2. SMART CONTROL & REGULATION

Electronic temperature regulation and timer functions for precise heat control.

Additional functions:

- > Adaptive heating behaviour
- > Open window recognition
- > Weekly programme for heat optimisation
- > Presence recognition with certain devices

3. CONSUMER INFORMATION & TRANSPARENCY

- > Mandatory information on consumption values, control and efficiency in instructions and online.
- > Guidance on disassembly, recyclability and disposal of devices.
- > Standardised control codes for thermostats in accordance with the requirements of the regulation.

4. SUSTAINABILITY AND DURABILITY

- > Use of recyclable materials and durable construction.

ECODESIGN REGULATION – opportunities for electricians and specialist trade

The Ecodesign Regulation not only brings new requirements but also provides exciting opportunities for electricians. With smart, efficient heating solutions customers can be given the best advice and at the same time new business fields can be exploited.

1. PRODUCT SELECTION AND RESPONSIBILITY

- > Only sell and install legally compliant electrical heating systems
- > Cooperate with reliable manufacturers
- > Regular verification of supply sources, give preference to quality manufacturers

2. ADVICE & SALES

- > Inform customers about energy efficiency and potential savings
- > Recommend suitable heating solutions
- > Introduce smart control systems

3. INSTALLATION & START-UP

- > Expert assembly for maximum efficiency and comfort
- > Installation of control systems
- > Help the customer to make best use of their heating system

4. FURTHER TRAINING & INSTRUCTION

- > Keep up-to-date with smart heating solutions and Ecodesign Training for the safe installation of new technologies – ETHERMA is an expert partner in this area.
- > Extend expertise and strengthen customer loyalty

5. SERVICE & MAINTENANCE

- > Regular inspection of control systems
- > Repairs rather than replacement for a longer lifespan
- > Enthuse customers with excellent service

Our electrical heating systems – 100 % ECODESIGN READY

As a manufacturer we have been committed to energy-efficient technologies for many years. Our products meet all the requirements of the Ecodesign Directive and offer smart individual room regulation, whereby heating is provided only where heat is really required - without starting up a complete heating system. Electrical heaters are among the most efficient heating systems and enable individual control to reduce operating costs. Each room can be heated separately so that no energy is wasted in unused areas. Thanks to flexible solutions living rooms, bedrooms, kitchens and bathrooms can be brought to just the right temperature.

ECODESIGN REGULATION label in the 2025 catalog

In our 2025 catalog we have endeavoured to ensure maximum transparency with regard to the Ecodesign Regulation. We have therefore labelled all products that are subject to this regulation accordingly. In addition, we have made it clear whether a product is already completely "Ecodesign-compliant" or is categorised as "Ecodesign-ready".

By providing this labelling we aim to offer you a well-founded basis for your decision and make orientation easier. In this way you can quickly recognise which products already meet the current requirements and which are ready for future adaptations. We will be happy to answer any questions you may have regarding the Ecodesign compliance of our products.



The "Ecodesign-compliant" icon is featured on all products that completely satisfy all of the current requirements of the Ecodesign Regulation.



The "Ecodesign-ready" icon features on products that are "ready". In conjunction with an Ecodesign-compliant thermostat they meet the requirements of the directive.

1.

NOTE

This product is an electric underfloor local space heater; in order to meet the mandatory Ecodesign requirements of Regulation (EU) 2024/1103 of the European Commission it must be supplemented with a controller that satisfies the following minimum control functions: electronic room temperature control plus week timer (TW) and at least one f-function (e.g. f2 or f4), the following combinations are possible: TW (f2), TW (f3), TW (f4), TW (f8)

2.

NOTE

This product is an electric fixed local space heater with a nominal heat output above 250 W; in order to meet the mandatory Ecodesign requirements of Regulation (EU) 2024/1103 of the European Commission it must be supplemented with a controller that satisfies the following minimum control functions: electronic room temperature control plus week timer (TW) and at least one f-function (e.g. f2, f4 or f8), the following combinations are possible: TW (f2), TW (f3), TW (f8)

3.

NOTE

This product is a towel rail with a nominal heat output of more than 250 W; in order to meet the mandatory Ecodesign requirements of Regulation (EU) 2024/1103 of the European Commission it must be supplemented with a controller that satisfies the following minimum control functions: electronic room temperature control plus week timer (TW).

4.

NOTE

This product is only suitable for well-insulated spaces or occasional use.

		Temperature control (TC) code	Control functions							
			f1	f2	f3	f4	f5	f6	f7	f8
Type of temperature control	Single stage, no temperature control	NC								
	Two or more manual stages, no temperature control	TX								
	Mechanic thermostat room temperature control	TM								
	Electronic room temperature controller	TE								
	Electronic room temperature controller plus day timer	TD								
	Electronic room temperature control plus week timer	TW								
Control functions	Presence detection		1							
	Open window detection			2						
	Distance control option				3					
	Adaptive start control					4				
	Working time limitation						5			
	Black bulb sensor							6		
	Self-learning function								7	
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**UNDERFLOOR
HEATING**



ETHERMA eFLOOR PRO

Dipole netted heating mat under tiles or stone



Self-adhesive eFLOOR PRO netted heating mats have been specially developed for use under tiles and stone floors and are used to control the temperatures of floors, to heat rooms or to insulate walls against the cold. All of our heating mats are completely PFAS-free and feature innovative, durable heat conductors for safe, efficient and environmentally friendly heat transfer.

With its low overall height of only 3.8 mm, this netted heating mat, which is factory-assembled and ready to install, has a low installation height and is therefore suitable for retrofitting. Thanks to its dipole design with only one connection cable and special processing, it is simple to lay the mat in the tile adhesive bed; high heating mat stability is guaranteed.

ETHERMA eFLOOR PRO is available as standard in five outputs from 60 W/m² to 200 W/m². On request, eFLOOR PRO netted heating mats are also manufactured to bespoke sizes, voltages, outputs and shapes.

On request we manufacture netted heating mats in your size, voltage, power output and shape as required.

ATTENTION: Do NOT shorten the heating mat!

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 60, 80, 100, 150, 200 W/m²
- > Temperature-resistant: Up to 90 °C
- > Heating mat thickness: 3.8 mm
- > Production width: 50 cm
- > Net type: 10 x 12 mm, self-adhesive
- > IP rating: IP X7
- > Safety function: Earth-leakage circuit breaker, 30 mA
- > Connection: 4 m; 2 x 1.0 mm² + aluminium protective sheath
- > Information acc. to (EU) 2024/1103: Note 1 (see page 9)

BENEFITS OF THIS PRODUCT

- + PFAS-free
- + Only 3.8 mm thin
- + Also suitable for wall heating
- + Self-adhesive netted heating mat
- + Only one connection
- + Very low magnetic field < 25 nT
- + Flat, torsion-free laying
- + Custom-made special orders and sizes
- + Custom-made connection cable available

SELECTION HELP (REFERENCE VALUES)

eFLOOR PRO 60 W/m² and 80 W/m²

Floor temperature control or central heating system in ultra-low energy and passive energy houses.

eFLOOR PRO 100 W/m²

Floor temperature control or central heating system in low energy housing.

eFLOOR PRO 150 W/m²

As full heating system in kitchens, bathrooms and vestibules with standard insulation.

eFLOOR PRO 200 W/m²

Room heating in rooms without insulation or with poor insulation; bathroom, sauna, wellness areas, winter gardens and wherever fast heating is necessary.

eFLOOR PRO netted heating mat, 60 W/m², mat width 50 cm, 230 V, IP X7

PG: M1

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m²
eFLOOR-PRO-60-200	46107	60	200	50	1.0
eFLOOR-PRO-60-300	46108	90	300	50	1.5
eFLOOR-PRO-60-400	46109	120	400	50	2.0
eFLOOR-PRO-60-500	46110	150	500	50	2.5
eFLOOR-PRO-60-600	46111	180	600	50	3.0
eFLOOR-PRO-60-800	46112	240	800	50	4.0
eFLOOR-PRO-60-900	46113	270	900	50	4.5
eFLOOR-PRO-60-1100	46114	330	1100	50	5.5
eFLOOR-PRO-60-1300	46115	390	1300	50	6.5
eFLOOR-PRO-60-1500	46116	450	1500	50	7.5
eFLOOR-PRO-60-1800	46117	540	1800	50	9.0
eFLOOR-PRO-60-2100	46118	630	2100	50	10.5
eFLOOR-PRO-60-2600	46119	780	2600	50	13.0
eFLOOR-PRO-60-3000	46120	900	3000	50	15.0

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

eFLOOR PRO netted heating mat, 80 W/m², mat width 50 cm, 230 V, IP X7

PG: M1

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
eFLOOR-PRO-80-200	46191	80	200	50	1.0
eFLOOR-PRO-80-300	46192	120	300	50	1.5
eFLOOR-PRO-80-400	46193	160	400	50	2.0
eFLOOR-PRO-80-500	46194	200	500	50	2.5
eFLOOR-PRO-80-600	46195	240	600	50	3.0
eFLOOR-PRO-80-800	46196	320	800	50	4.0
eFLOOR-PRO-80-900	46197	360	900	50	4.5
eFLOOR-PRO-80-1100	46198	440	1100	50	5.5
eFLOOR-PRO-80-1300	46199	520	1300	50	6.5
eFLOOR-PRO-80-1500	46200	600	1500	50	7.5
eFLOOR-PRO-80-1800	46201	720	1800	50	9.0
eFLOOR-PRO-80-2100	46202	840	2100	50	10.5
eFLOOR-PRO-80-2600	46203	1040	2600	50	13.0
eFLOOR-PRO-80-3000	46204	1200	3000	50	15.0

eFLOOR PRO netted heating mat, 100 W/m², mat width 50 cm, 230 V, IP X7

PG: M1

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
eFLOOR-PRO-100-200	44819	100	200	50	1.0
eFLOOR-PRO-100-300	44820	150	300	50	1.5
eFLOOR-PRO-100-400	44821	200	400	50	2.0
eFLOOR-PRO-100-500	44822	250	500	50	2.5
eFLOOR-PRO-100-600	44823	300	600	50	3.0
eFLOOR-PRO-100-700	44824	350	700	50	3.5
eFLOOR-PRO-100-800	44825	400	800	50	4.0
eFLOOR-PRO-100-1000	44826	500	1000	50	5.0
eFLOOR-PRO-100-1200	44827	600	1200	50	6.0
eFLOOR-PRO-100-1400	44828	700	1400	50	7.0
eFLOOR-PRO-100-1600	44829	800	1600	50	8.0
eFLOOR-PRO-100-1800	44830	900	1800	50	9.0
eFLOOR-PRO-100-2000	44831	1000	2000	50	10.0
eFLOOR-PRO-100-2400	44832	1200	2400	50	12.0
eFLOOR-PRO-100-3000	44833	1500	3000	50	15.0

eFLOOR PRO netted heating mat, 150 W/m², mat width 50 cm, 230 V, IP X7

PG: M1

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
eFLOOR-PRO-150-100	40047	75	100	50	0.5
eFLOOR-PRO-150-200	40048	150	200	50	1.0
eFLOOR-PRO-150-300	40049	225	300	50	1.5
eFLOOR-PRO-150-400	40050	300	400	50	2.0
eFLOOR-PRO-150-500	40051	375	500	50	2.5
eFLOOR-PRO-150-600	40052	450	600	50	3.0
eFLOOR-PRO-150-700	40053	525	700	50	3.5
eFLOOR-PRO-150-800	40054	600	800	50	4.0
eFLOOR-PRO-150-1000	40055	750	1000	50	5.0
eFLOOR-PRO-150-1200	40056	900	1200	50	6.0
eFLOOR-PRO-150-1400	40057	1050	1400	50	7.0
eFLOOR-PRO-150-1600	40058	1200	1600	50	8.0
eFLOOR-PRO-150-1800	40059	1350	1800	50	9.0
eFLOOR-PRO-150-2200	40060	1650	2200	50	11.0
eFLOOR-PRO-150-2700	40061	2025	2700	50	13.5

eFLOOR PRO netted heating mat, 200 W/m², mat width 50 cm, 230 V, IP X7

PG: M1

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
eFLOOR-PRO-200-145	34201	145	145	50	0.7
eFLOOR-PRO-200-215	34202	215	215	50	1.1
eFLOOR-PRO-200-320	34203	320	320	50	1.6
eFLOOR-PRO-200-355	34204	355	355	50	1.8
eFLOOR-PRO-200-435	34205	435	435	50	2.2
eFLOOR-PRO-200-520	34206	520	520	50	2.6
eFLOOR-PRO-200-615	34207	615	615	50	3.1
eFLOOR-PRO-200-735	34208	735	735	50	3.7
eFLOOR-PRO-200-870	34209	870	870	50	4.4
eFLOOR-PRO-200-1090	34210	1090	1090	50	5.5
eFLOOR-PRO-200-1230	34211	1230	1230	50	6.2
eFLOOR-PRO-200-1330	34891	1330	1330	50	6.7
eFLOOR-PRO-200-1585	34212	1585	1585	50	7.9
eFLOOR-PRO-200-1945	34213	1945	1945	50	9.7

eFLOOR PRO PREMIUM set – dipole netted heating mat with intelligent eTOUCH PRO built-in switch thermostat


- > 1 pc. eFLOOR PRO netted heating mat, 150 W/m²
- > 1 pc. eTOUCH PRO built-in switch thermostat
- > 1 sensor protective pipe FSH-12
- > 2.5 m of installation pipe SS-12


eFLOOR PRO PREMIUM set, 150 W/m², 230 V, IP X7

PG: M2

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
SET-eFLOOR-PRO-P-150-200	46165	150	200	50	1.0
SET-eFLOOR-PRO-P-150-300	46166	225	300	50	1.5
SET-eFLOOR-PRO-P-150-400	46167	300	400	50	2.0
SET-eFLOOR-PRO-P-150-500	46168	375	500	50	2.5
SET-eFLOOR-PRO-P-150-600	46169	450	600	50	3.0
SET-eFLOOR-PRO-P-150-700	46170	525	700	50	3.5
SET-eFLOOR-PRO-P-150-800	46171	600	800	50	4.0
SET-eFLOOR-PRO-P-150-1000	46172	750	1000	50	5.0
SET-eFLOOR-PRO-P-150-1200	46173	900	1200	50	6.0
SET-eFLOOR-PRO-P-150-1400	46174	1050	1400	50	7.0
SET-eFLOOR-PRO-P-150-1600	46175	1200	1600	50	8.0
SET-eFLOOR-PRO-P-150-1800	46176	1350	1800	50	9.0
SET-eFLOOR-PRO-P-150-2200	46177	1650	2200	50	11.0
SET-eFLOOR-PRO-P-150-2700	46178	2025	2700	50	13.5

eFLOOR PRO STANDARD SET – dipole netted heating mat with eBASIC ROTARY THERMOSTAT


- > 1 pc. eFLOOR PRO netted heating mat, 150 W/m²
- > 1 pc. eBASIC built-in switch thermostat
- > 1 sensor protective pipe FSH-12
- > 2.5 m of installation pipe SS-12


eFLOOR PRO STANDARD set, 150 W/m², 230 V, IP X7

PG: M2

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
SET-eFLOOR-PRO-S-150-200	46150	150	200	50	1.0
SET-eFLOOR-PRO-S-150-300	46151	225	300	50	1.5
SET-eFLOOR-PRO-S-150-400	46152	300	400	50	2.0
SET-eFLOOR-PRO-S-150-500	46153	375	500	50	2.5
SET-eFLOOR-PRO-S-150-600	46154	450	600	50	3.0
SET-eFLOOR-PRO-S-150-700	46155	525	700	50	3.5
SET-eFLOOR-PRO-S-150-800	46156	600	800	50	4.0
SET-eFLOOR-PRO-S-150-1000	46157	750	1000	50	5.0
SET-eFLOOR-PRO-S-150-1200	46158	900	1200	50	6.0
SET-eFLOOR-PRO-S-150-1400	46159	1050	1400	50	7.0
SET-eFLOOR-PRO-S-150-1600	46160	1200	1600	50	8.0
SET-eFLOOR-PRO-S-150-1800	46161	1350	1800	50	9.0
SET-eFLOOR-PRO-S-150-2200	46162	1650	2200	50	11.0
SET-eFLOOR-PRO-S-150-2700	46163	2025	2700	50	13.5

eFLOOR PRO netted heating mat accessories and eFLOOR PRO PREMIUM/STANDARD sets

Type	Item no.	Description	PG
KALT-eFLOOR-PRO-1	46410	Cold lead for eFLOOR PRO, 2 x 1.0 mm ² + aluminium protective sheath, price per m	A4
FSH-12	38128	Sensor protective pipe made of copper for installation pipe SS-12	A2
FSH-20	26881	Sensor protective pipe made of copper for installation pipe DN-20	A2
SS-12	38242	Installation pipe for positioning remote sensor, diameter: 12 mm, price per m	A2
MSD	35508	Repair set for heating conductor of eFLOOR PRO netted heating mat	A4
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eTOUCH-PRO-1-B	41432	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, black	E1
eBASIC-1	41278	Built-in switch thermostat with control dial and app function via Bluetooth, 16 A, 5-28 °C, white	E1
ET-RS-eBASIC-B	44912	Frame set for eBASIC consisting of cover and frame, black	A2
MTS	30640	Installation set, comprising FSH-12 and 2.5 m installation pipe SS-12	A2

ETHERMA[®] eFLOOR CABLE PRO

Dipole heating loop for free laying



- A Resistance cables
- B TPCP internal insulation
- C Aluminium protective sheath + protective conductor
- D PVC outer insulation

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 12 W/m
- > Temperature-resistant: up to 90 °C
- > Thickness of heating conductor: approx. 3.2 mm
- > IP rating: IP X7
- > Connection: 4 m; 2 x 1.0 mm² + aluminium protective sheath
- > Information acc. to (EU) 2024/1103: Note 1 (see page 9)

BENEFITS OF THIS PRODUCT

- + PFAS-free
- + Ideal for free laying
- + Easy installation due to single connection cable (no plug)
- + Flexible laying distance
- + Custom-made connection cable available
- + Custom-made finishing available



ETHERMA eFLOOR CABLE PRO is a factory-prepared heating loop with a 12 W/m output. It consists of a dipole heating conductor cable with a 4-m, waterproof, non-heating connection (thermistor). Heating loops are ideal for free laying in tiling adhesive and can easily be laid through just a connection cable. The output per m² can only be changed by altering the distance between the heating loops in order to satisfy the different heat need in the respective room. Like our eFLOOR heating mats, our eFLOOR cables are also completely PFAS-free and feature innovative, durable heat conductors for safe, efficient and environmentally friendly heat transfer.

eFLOOR CABLE PRO, 12 W/m, 230 V, IP X7 heating loop

PG: C1

Type	Item no.	Output (W)	7.5 cm; 160 W/m ²	10 cm; 120 W/m ²	15 cm; 80 W/m ²	Length (m)
eFLOOR-CABLE-PRO-12-10	46513	120	0.8	1.0	1.5	10
eFLOOR-CABLE-PRO-12-14	46514	160	1.1	1.4	2.1	14
eFLOOR-CABLE-PRO-12-17	46515	200	1.3	1.7	2.6	17
eFLOOR-CABLE-PRO-12-20	46516	234	1.5	2.0	3.0	20
eFLOOR-CABLE-PRO-12-24	46517	285	1.8	2.4	3.6	24
eFLOOR-CABLE-PRO-12-30	46518	356	2.3	3.0	4.5	30
eFLOOR-CABLE-PRO-12-33	46519	389	2.5	3.3	5.0	33
eFLOOR-CABLE-PRO-12-36	46520	420	2.7	3.6	5.4	36
eFLOOR-CABLE-PRO-12-40	46521	473	3.0	4.0	6.0	40
eFLOOR-CABLE-PRO-12-48	46522	563	3.6	4.8	7.2	48
eFLOOR-CABLE-PRO-12-56	46523	675	4.2	5.6	8.4	56
eFLOOR-CABLE-PRO-12-67	46524	806	5.0	6.7	10.1	67
eFLOOR-CABLE-PRO-12-79	46525	953	5.9	7.9	11.9	79
eFLOOR-CABLE-PRO-12-99	46526	1188	7.4	9.9	14.9	99
eFLOOR-CABLE-PRO-12-112	46527	1347	8.4	11.2	16.8	112
eFLOOR-CABLE-PRO-12-121	46528	1455	9.1	12.1	18.2	121
eFLOOR-CABLE-PRO-12-145	46529	1739	10.9	14.5	21.8	145
eFLOOR-CABLE-PRO-12-178	46530	2130	13.4	17.8	26.7	178

eFLOOR CABLE PRO accessories

Type	Item no.	Description	PG
KALT-eFLOOR-PRO-1	46410	Cold lead for eFLOOR PRO, 2 x 1.0 mm ² + aluminium protective sheath, price per m	A4
FSH-12	38128	Copper sensor protective pipe for installation pipe SS-12	A2
FSH-20	26881	Copper sensor protective pipe for installation pipe DN-20	A2
SS-12	38242	Installation pipe for positioning remote sensor, diameter: 12 mm, price per m	A2
MSTD	35508	Repair set for heating conductor of eFLOOR PRO netted heating mat	A4
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eTOUCH-PRO-1-B	41432	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, black	E1
eBASIC-1	41278	Built-in switch thermostat with control dial and app function via Bluetooth, 16 A, 5-28 °C, white	E1
ET-RS-eBASIC-B	44912	Frame set for eBASIC consisting of cover and frame, black	A2
MTS	30640	Installation set, comprising FSH-12 and 2.5 m installation pipe SS-12	A2

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

ETHERMA eFLOOR STRONG

Dipole netted heating mat extra robust



The factory-assembled eFLOOR STRONG netted heating mat is extremely robust due to the TPCP internal and external insulation of the heat conductor, making it suitable for use in indoor and outdoor areas. The TPCP outer insulation makes it chemical-resistant and it is exceptionally suitable for use in a chemically aggressive environment such as in public toilets, bathrooms, etc. in which concentrated cleaning agents or bases are used. The dipole completion guarantees an easy fitting. All of our heating mats are completely PFAS-free and feature innovative, durable heat conductors for safe, efficient and environmentally friendly heat transfer.

The eFLOOR STRONG netted heating mat is also suitable for use as open-air heating under panels in flexible adhesive or thin coverings. This enables an especially flat fitting for the reconstruction of ramps, foot paths and access roads.

POSSIBLE APPLICATIONS

Public areas, swimming pools or spas

It is exceptionally suitable for the use in spas because aggressive cleaning agents could affect a PVC-heating cable through the joints after a period of time. But our netted heating mats are resistant against these chemical effects due to the TPCP outer insulation and guarantee a long lifespan.

Free space heating under tiles or thin covering

Its extremely thin construction also makes the eFLOOR STRONG ideal for keeping terraces, access ramps, entrance areas, emergency access routes, car parks, etc. free from snow and ice. It is ideal as wall heating or for the temperature control of walls, for heating entire rooms or for the insulation of outer walls. Our netted heating mats can also be laid in plaster and clay on walls.

eFLOOR STRONG netted heating mat accessories

Type	Item no.	Description	PG
KALT-eFLOOR-STRONG-1	46411	Cold lead for eFLOOR STRONG netted heating mats, 2 x 1.0 mm ² + aluminium protective sheath, price per	A4
KALT-eFLOOR-STRONG-1.5	46412	Cold lead for eFLOOR STRONG netted heating mats, 2 x 1.5 mm ² + aluminium protective sheath, price per m	A4
KALT-eFLOOR-STRONG-2.5	46413	Cold lead for eFLOOR STRONG netted heating mats, 2 x 2.5 mm ² + aluminium protective sheath, price per m	A4
FSH-12	38128	Copper sensor protective pipe for installation pipe SS-12	A2
FSH-20	26881	Copper sensor protective pipe for installation pipe DN-20	A2
SS-12	38242	Installation pipe for positioning remote sensor, diameter: 12 mm, price per m	A2
MTS	30640	Installation set, comprising FSH-12 and 2.5 m installation pipe SS-12	A2
MSTD	35508	Repair set for eFLOOR PRO, eFLOOR STRONG and eFLOOR CABLE PRO heat conductor	A4
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eTOUCH-PRO-1-B	41432	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, black	E1
eBASIC-1	41278	Built-in switch thermostat with control dial and app function via Bluetooth, 16 A, 5-28 °C, white	E1



- A Resistance cables
- B TPCP internal insulation
- C Protective sleeve made of tin-plated copper shield
- D TPCP external insulation

TECHNICAL DETAILS

- > Voltage: 230 V, 400 V
- > Output: 100, 150, 200, 300 W/m²
- > Temperature-resistant: up to 150 °C
- > Special output: On request
- > Heating mat thickness: 4 mm
- > Net type: 12.5 x 12.5 mm
- > Production width: 50 cm
- > IP rating: IP X7
- > Safety function: residual-current circuit-breaker, 30 mA
- > Connection: 4 m; 2 x 1.0 mm² + aluminium protective sheath
- > Information acc. to (EU) 2024/1103: Note 1 (see page 9)

BENEFITS OF THIS PRODUCT

- + PFAS-free
- + Chemical resistant and exceptionally robust
- + Custom-made special outputs available
- + Custom-made connection cable available

SELECTION GUIDE

eFLOOR STRONG 100 W/m²

As the main heating system in low energy housing. For drainage of damp walls, as mould prevention, or as foreclosure against cold walls

eFLOOR STRONG 150 W/m²

As main heating with standard insulation.

eFLOOR STRONG 200 W/m²

For heating living rooms with poor insulation. For cold insulation in exceptionally cold walls.

eFLOOR STRONG 300 W/m²

For heating of surfaces in wellness areas, but also as open-air heating under panels in thin layering or in thin coverings for the reconstruction of ramps in which a low floor construction is required.

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

eFLOOR STRONG netted heating mat, 100 W/m², 230V, IP X7

PG: M1

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
eFLOOR-STRONG-100-200	46217	100	200	50	1.0
eFLOOR-STRONG-100-300	46218	150	300	50	1.5
eFLOOR-STRONG-100-400	46219	200	400	50	2.0
eFLOOR-STRONG-100-500	46220	250	500	50	2.5
eFLOOR-STRONG-100-600	46221	300	600	50	3.0
eFLOOR-STRONG-100-700	46222	350	700	50	3.5
eFLOOR-STRONG-100-800	46223	400	800	50	4.0
eFLOOR-STRONG-100-1000	46224	500	1000	50	5.0
eFLOOR-STRONG-100-1200	46225	600	1200	50	6.0
eFLOOR-STRONG-100-1400	46226	700	1400	50	7.0
eFLOOR-STRONG-100-1600	46227	800	1600	50	8.0
eFLOOR-STRONG-100-1800	46228	900	1800	50	9.0
eFLOOR-STRONG-100-2200	46229	1100	2200	50	11.0
eFLOOR-STRONG-100-3000	46230	1500	3000	50	15.0

eFLOOR STRONG netted heating mat, 150 W/m², 230 V, IP X7

PG: M1

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
eFLOOR-STRONG-150-200	46231	150	200	50	1.0
eFLOOR-STRONG-150-300	46232	225	300	50	1.5
eFLOOR-STRONG-150-400	46233	300	400	50	2.0
eFLOOR-STRONG-150-500	46234	375	500	50	2.5
eFLOOR-STRONG-150-600	46235	450	600	50	3.0
eFLOOR-STRONG-150-700	46236	525	700	50	3.5
eFLOOR-STRONG-150-800	46237	600	800	50	4.0
eFLOOR-STRONG-150-1000	46238	750	1000	50	5.0
eFLOOR-STRONG-150-1200	46239	900	1200	50	6.0
eFLOOR-STRONG-150-1400	46240	1050	1400	50	7.0
eFLOOR-STRONG-150-1600	46241	1200	1600	50	8.0
eFLOOR-STRONG-150-1800	46242	1350	1800	50	9.0
eFLOOR-STRONG-150-2700	46243	2025	2700	50	13.5

eFLOOR STRONG netted heating mat, 200 W/m², 230 V, IP X7

PG: M1

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
eFLOOR-STRONG-200-115	46569	115	115	50	0.6
eFLOOR-STRONG-200-180	46570	180	180	50	0.9
eFLOOR-STRONG-200-255	46571	255	255	50	1.3
eFLOOR-STRONG-200-360	46572	360	360	50	1.8
eFLOOR-STRONG-200-525	46573	525	525	50	2.6
eFLOOR-STRONG-200-625	46574	625	625	50	3.1
eFLOOR-STRONG-200-885	46575	885	885	50	4.4
eFLOOR-STRONG-200-1180	46576	1180	1180	50	5.9
eFLOOR-STRONG-200-1485	46577	1485	1485	50	7.4

eFLOOR STRONG netted heating mat, 300 W/m², 230 V, IP X7

PG: M1

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
eFLOOR-STRONG-300-98	46578	147	98	50	0.5
eFLOOR-STRONG-300-143	46579	215	143	50	0.7
eFLOOR-STRONG-300-210	46580	315	210	50	1.1
eFLOOR-STRONG-300-293	46581	440	293	50	1.5
eFLOOR-STRONG-300-428	46582	642	428	50	2.1
eFLOOR-STRONG-300-510	46583	765	510	50	2.6
eFLOOR-STRONG-300-720	46584	1080	720	50	3.6
eFLOOR-STRONG-300-960	46585	1440	960	50	4.8
eFLOOR-STRONG-300-1215	46586	1823	1215	50	6.1
eFLOOR-STRONG-300-1720	46587	2567	1720	50	8.6

eFLOOR STRONG netted heating mat, 300 W/m², 400 V, IP X7

PG: M1

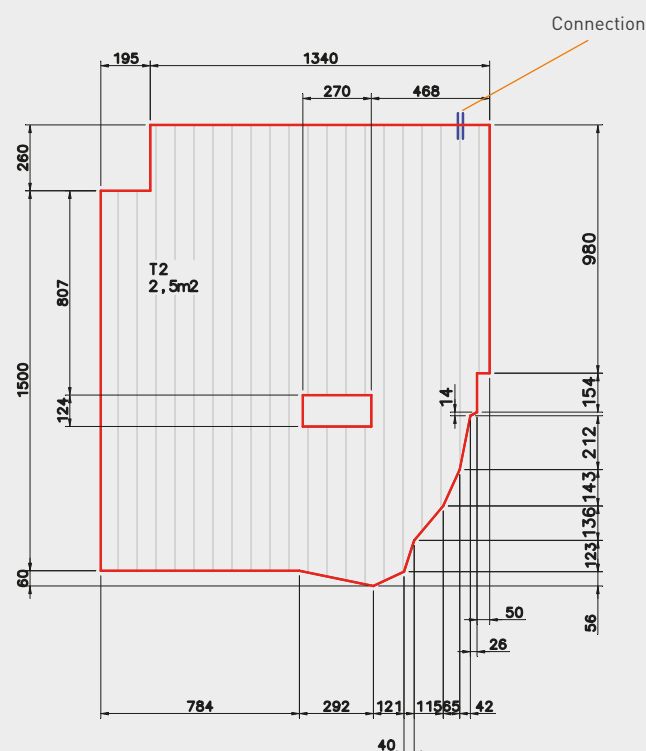
Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
eFLOOR-STRONG-300-400V-165	46588	248	165	50	0.8
eFLOOR-STRONG-300-400V-255	46589	383	255	50	1.3
eFLOOR-STRONG-300-400V-368	46590	552	368	50	1.8
eFLOOR-STRONG-300-400V-510	46591	765	510	50	2.6
eFLOOR-STRONG-300-400V-743	46592	1115	743	50	3.7
eFLOOR-STRONG-300-400V-885	46593	1328	885	50	4.4
eFLOOR-STRONG-300-400V-1253	46594	1880	1253	50	6.3
eFLOOR-STRONG-300-400V-1665	46595	2498	1665	50	8.3
eFLOOR-STRONG-300-400V-2108	46596	3162	2108	50	10.5
eFLOOR-STRONG-300-400V-2985	46597	4474	2985	50	14.9

Custom-made ETHERMA eFLOOR

Custom-made production of netted heating mats eFLOOR PRO and eFLOOR STRONG



ETHERMA is one of the few manufacturers to offer custom-made netted heating mats - for exceptional architecture such as bathrooms or spas custom-made netted heating mats are the ideal solution for avoiding cold areas and spots which cannot be covered with standard sizes. In this way lying surfaces, benches, steam showers and shower trays are pleasantly warmed. Our technical team will be happy to assist you with the precise planning of a custom-made heating mat. For more precise information on the individual steps visit: www.etherma.com



Example for custom-made netted heating mats

> Information acc. to
(EU) 2024/1103: Note 1 (see page 9)

eFLOOR PRO custom-made netted heating mat (we charge at least 1 m²)

PG: M7

Type	Item no.	Description	Output (W)	Dimensions
eFLOOR-PRO-0-2	46670	Netted heating mat with bipolar line, PVC outer insulation	up to 250 W/m ²	0 - 2 m ²
eFLOOR-PRO-2-5	46671	Netted heating mat with bipolar line, PVC outer insulation	up to 250 W/m ²	2.01 - 5 m ²
eFLOOR-PRO-ab5	46672	Netted heating mat with bipolar line, PVC outer insulation	up to 250 W/m ²	from 5.01 m ²
eFLOOR-PRO	46673	Netted heating mat with bipolar line, PVC outer insulation	other outputs	

eFLOOR STRONG custom-made netted heating mat (we charge at least 1 m²)

PG: M7

Type	Item no.	Description	Output (W)	Dimensions
eFLOOR-STRONG-0-2	46674	Netted heating mat with bipolar line, TPCP outer insulation	up to 400 W/m ²	0 - 2 m ²
eFLOOR-STRONG-2-5	46675	Netted heating mat with bipolar line, TPCP outer insulation	up to 400 W/m ²	2.01 - 5 m ²
eFLOOR-STRONG-ab5	46676	Netted heating mat with bipolar line, TPCP outer insulation	up to 400 W/m ²	from 5.01 m ²
eFLOOR-STRONG	46677	Netted heating mat with bipolar line, TPCP outer insulation	other output	

Custom-made netted heating mat accessories

Type	Item no.	Description	PG
KALT-eFLOOR-PRO-1	46410	Cold lead for eFLOOR PRO and eFLOOR LM, 2 x 1.0 mm ² + aluminium protective sheath, price per m	A4
KALT-eFLOOR-STRONG-1	46411	Cold lead for eFLOOR STRONG netted heating mats, 2 x 1.0 mm ² + aluminium protective sheath, price per	A4
KALT-eFLOOR-STRONG-1.5	46412	Cold lead for eFLOOR STRONG netted heating mats, 2 x 1.5 mm ² + aluminium protective sheath, price per m	A4
KALT-eFLOOR-STRONG-2.5	46413	Thermistor for eFLOOR STRONG netted heating mats, 2 x 2.5 mm ² + aluminium protective sheath, price per m	A4
FSH-12	38128	Copper sensor protective pipe for installation pipe SS-12	A2
FSH-20	26881	Copper sensor protective pipe for installation pipe DN-20	A2
SS-12	38242	Installation pipe for positioning remote sensor, diameter: 12 mm, suitable for FSH-12, price per m	A2
MTS	30640	Installation set, comprising FSH-12 and 2.5 m installation pipe SS-12	A2
MSTD	35508	Repair set for eFLOOR PRO, eFLOOR STRONG and eFLOOR CABLE PRO heat conductor	A4
ET-GHK-120-230/24	44842	Transformer encapsulated in plastic casing, 120 VA, 230 V/24 V, WxHxD: 87 x 79 x 130 mm, 2.5 kg	E2
ET-GHK-200-230/24	44843	Transformer encapsulated in plastic casing, 200 VA, 230 V/24 V, WxHxD: 87 x 103 x 130 mm, 3.9 kg	E2
ET-GHK-400-230/24	44845	Transformer encapsulated in plastic casing, 400 VA, 230 V/24 V, WxHxD: 108 x 133 x 177 mm, 6.5 kg	E2
ET-GHK-500-230/24	44847	Transformer encapsulated in plastic casing, 500 VA, 230 V/24 V, WxHxD: 108 x 133 x 177 mm, 8 kg	E2
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eBASIC-1	41278	Built-in switch thermostat with control dial and app function via Bluetooth, 16 A, 5-28 °C, white	E1

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 120 W/m²
- > Temperature-resistant: up to 90 °C
- > Thickness of the heating mat: 1.3 mm
- > Insulation: TPCP
- > IP Rating: IP X7
- > Safety function: Earth-leakage circuit breaker, 30 mA
- > Connection: 4 m; 2 x 1.0 mm²
+ aluminium protective sheath
- > Information acc. to (EU) 2024/1103: Note 1 (see page 9)

BENEFITS OF THIS PRODUCT

- + PFAS-free
- + Only 1.3 mm thin
- + Ideal heat distribution due to special foil
- + Very low magnetic field < 25 nT
- + Easy and quick mounting due to the floating installation and one connection cable (no plug)

SELECTION GUIDE

For use in dry rooms.

eFLOOR LM-120 W/m²

As main heating in kitchens, bathrooms, vestibules or winter gardens with standard insulation. Or to temper the floor in poorly insulated areas or in areas with increased heat demand.

ETHERMA[®] eFLOOR LAMINOTHERM

Dipole heating mat for floating installation



eFLOOR LAMINOTHERM heating mats are used for temperature control and heating of rooms with parquet and laminate floors. This heating system is exclusively for floating installation. In order to protect the heating mats, eFLOOR LAMINOTHERM should only be installed in conjunction with Laminoflies. ETHERMA Laminoflies impact sound insulation guarantees the optimal installation and heat distribution of the Laminotherm heating mat. eFLOOR LAMINOTHERM is also completely PFAS-free and features innovative, durable heat conductors for safe, efficient and environmentally friendly heat transfer.

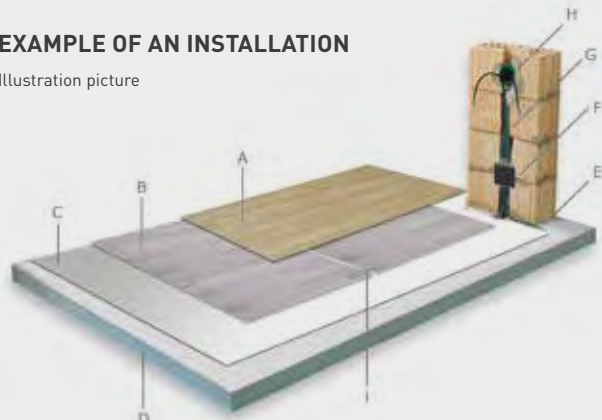
Laminotherm's reinforced aluminium fabric guarantees an optimal heat distribution and prevents the formation of "hot spots". The emission of electric smog is very low and due to the dipole completion and the setting of only 1.3 mm, this heating mat can be installed very easily.

ETHERMA NOTE:

Suitable for parquet, laminate, vinyl with carrier plate and cork flooring. Not suitable for carpet, PVC or tiles; please use the eFLOOR PRO or eFLOOR STRONG netted heating mat for this purpose. Laying under boxes, beds, cupboards, etc. must be avoided due to heat build-up.

EXAMPLE OF AN INSTALLATION

Illustration picture



- A Laminate floor (floating)
- B eFLOOR LAMINOTHERM
- C Laminoflies
- D Lower shell
- E Connection cable (no plug), 4 m
- F Connection socket
- G Installation pipe
- H Switch box 55
- I Aluminium tape

Possible top layers - LAMINOTHERM

	Cork	Vinyl with HDF carrier plate	Parquet	Laminate
Max. thickness in mm	10	9	15	9

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

eFLOOR LM, 120 W/m², 230 V, IP X7

PG: M1

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
eFLOOR-LM-120-100	46678	60	100	50	0.5
eFLOOR-LM-120-200	46679	120	200	50	1.0
eFLOOR-LM-120-400	46680	240	400	50	2.0
eFLOOR-LM-120-600	46681	360	600	50	3.0
eFLOOR-LM-120-800	46682	480	800	50	4.0
eFLOOR-LM-120-1000	46683	600	1000	50	5.0
eFLOOR-LM-120-1200	46684	720	1200	50	6.0
eFLOOR-LM-120-1400	46685	840	1400	50	7.0
eFLOOR-LM-120-1600	46686	960	1600	50	8.0
eFLOOR-LM-120-1800	46687	1080	1800	50	9.0
eFLOOR-LM-120-2000	46688	1200	2000	50	10.0

ETHERMA eFLOOR LM PREMIUM set – LAMINOTHERM with smart eTOUCH PRO built-in switch thermostat



eTOUCH PRO



LAMINOTHERM



Accessories

- > 1 pc. eFLOOR LM, 120 W/m²
- > 1 pc. eTOUCH PRO built-in switch thermostat
- > 1 sensor protective pipe FSH-12
- > 2.5 m of installation pipe SS-12

eFLOOR LM PREMIUM set, LAMINOTHERM 120 W/m², 230 V, IP X7

PG: M2

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
SET-eFLOOR-LM-P-120-200	46689	120	200	50	1.0
SET-eFLOOR-LM-P-120-400	46690	240	400	50	2.0
SET-eFLOOR-LM-P-120-600	46691	360	600	50	3.0
SET-eFLOOR-LM-P-120-800	46692	480	800	50	4.0
SET-eFLOOR-LM-P-120-1000	46693	600	1000	50	5.0
SET-eFLOOR-LM-P-120-1200	46694	720	1200	50	6.0
SET-eFLOOR-LM-P-120-1400	46695	840	1400	50	7.0
SET-eFLOOR-LM-P-120-1600	46696	960	1600	50	8.0
SET-eFLOOR-LM-P-120-1800	46697	1080	1800	50	9.0
SET-eFLOOR-LM-P-120-2000	46698	1200	2000	50	10.0

ETHERMA eFLOOR LM STANDARD set – LAMINOTHERM with eBASIC rotary thermostat



eBASIC



LAMINOTHERM



Accessories

- > 1 pc. eFLOOR LM, 120 W/m²
- > 1 pc. eBASIC built-in switch thermostat
- > 1 sensor protective pipe FSH-12
- > 2.5 m of installation pipe SS-12

eFLOOR LM STANDARD set, LAMINOTHERM 120 W/m², 230 V, IP X7

PG: M2

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
SET-eFLOOR-LM-S-120-200	46699	120	200	50	1.0
SET-eFLOOR-LM-S-120-400	46700	240	400	50	2.0
SET-eFLOOR-LM-S-120-600	46701	360	600	50	3.0
SET-eFLOOR-LM-S-120-800	46702	480	800	50	4.0
SET-eFLOOR-LM-S-120-1000	46703	600	1000	50	5.0
SET-eFLOOR-LM-S-120-1200	46704	720	1200	50	6.0
SET-eFLOOR-LM-S-120-1400	46705	840	1400	50	7.0
SET-eFLOOR-LM-S-120-1600	46706	960	1600	50	8.0
SET-eFLOOR-LM-S-120-1800	46707	1080	1800	50	9.0
SET-eFLOOR-LM-S-120-2000	46708	1200	2000	50	10.0

eFLOOR LM heating mat and eFLOOR LM PREMIUM/STANDARD sets accessories

Type	Item no.	Description	PG
WAK	28353	Aluminium adhesive tape, 50 m roll, width: 50 mm	A5
KRU	27544	Temperature limiter KRU, + 10 to + 60 °C	E1
Laminoflies-10	38553	Aluminium coated impact sound insulation for optimal distribution of heat, 10 m ² / roll, thickness: 3 mm	A4
KALT-eFLOOR-PRO-1	46410	Cold lead for eFLOOR PRO and eFLOOR LM, 2 x 1.0 mm ² + aluminium protective sheath, price per m	A4
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eTOUCH-PRO-1-B	41432	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, black	A2

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 10, 15, 20 W/m
- > Temperature-resistant: up to 105 °C
- > Min. bending radius: 5 d
- > Thickness of heating conductor: approx. 7 mm
- > IP rating: IP X7
- > Safety function: Earth-leakage circuit breaker, 30 mA
- > Connection: 2 x 1.5 (2.5) mm² + aluminium protective sheath
- > Information acc. to (EU) 2024/1103: Note 1 (see page 3)

BENEFITS OF THIS PRODUCT

- + PFAS-free
- + Ideal for free laying
- + Perfect for challenging room geometry
- + Easy installation due to one connection cable (no plug)
- + Flexible laying distance
- + Custom-made connection cable available
- + Custom-made finishing available

ETHERMA eFLOOR CABLE SCREED

Dipole heating loop for free-mount installation in screed flooring



eFLOOR CABLE SCREED is a factory-prepared heating loop with a 10, 15 or 20 W/m output. This consists of a dipole heat conductor and a permanently water-proof, non-heating connection cable (no plug) (PTC resistor) with a standard length of 4 m. eFLOOR CABLE SCREED heating loops are ideal for free laying in concrete and flowing screeds in indoor areas for tempering the floor temperature. The laying distance allows an application-oriented installation for every room. The power output of the heated surface varies with the laying distance. All of our eFLOOR cables are completely PFAS-free and feature innovative, durable heat conductors for safe, efficient and environmentally friendly heat transfer.

ETHERMA NOTE: Also available in 20 W/m.

eFLOOR CABLE SCREED heating loop, 10 W/m, 230 V, IP X7

PG: C2

Type	Item no.	Output (W)	Heated surface in m ² at laying distance			Length (m)
			7.5 cm; 133 W/m ²	10 cm; 100 W/m ²	15 cm; 67 W/m ²	
eFLOOR-CABLE-SCREED-10-12	46531	120	0.9	1.2	1.7	12
eFLOOR-CABLE-SCREED-10-15	46532	150	1.1	1.5	2.1	15
eFLOOR-CABLE-SCREED-10-21	46533	210	1.5	2.1	3.1	21
eFLOOR-CABLE-SCREED-10-29	46534	290	2.2	2.9	4.4	29
eFLOOR-CABLE-SCREED-10-36	46535	360	2.7	3.6	5.4	36
eFLOOR-CABLE-SCREED-10-43	46536	430	3.2	4.3	6.4	43
eFLOOR-CABLE-SCREED-10-51	46537	510	3.8	5.1	7.6	51
eFLOOR-CABLE-SCREED-10-72	46538	720	5.4	7.2	10.8	72
eFLOOR-CABLE-SCREED-10-96	46539	960	7.2	9.6	14.3	96
eFLOOR-CABLE-SCREED-10-110	46540	1100	8.3	11.0	16.4	110
eFLOOR-CABLE-SCREED-10-121	46541	1210	9.0	12.1	18.1	121
eFLOOR-CABLE-SCREED-10-171	46542	1710	12.8	17.1	25.6	171

eFLOOR CABLE SCREED heating loop, 15 W/m, 230V, IP X7

PG: C2

Type	Item no.	Output (W)	Heated surface in m ² at laying distance			Length (m)
			7.5 cm; 200 W/m ²	10 cm; 150 W/m ²	15 cm; 100 W/m ²	
eFLOOR-CABLE-SCREED-15-9	46543	147	0.7	0.9	1.4	9
eFLOOR-CABLE-SCREED-15-12	46544	176	0.9	1.2	1.8	12
eFLOOR-CABLE-SCREED-15-13	46545	203	1.0	1.3	2.0	13
eFLOOR-CABLE-SCREED-15-17	46546	259	1.3	1.7	2.6	17
eFLOOR-CABLE-SCREED-15-24	46547	358	1.8	2.4	3.6	24
eFLOOR-CABLE-SCREED-15-30	46548	441	2.3	3.0	4.5	30
eFLOOR-CABLE-SCREED-15-35	46549	521	2.6	3.5	5.3	35
eFLOOR-CABLE-SCREED-15-42	46550	617	3.2	4.2	6.3	42
eFLOOR-CABLE-SCREED-15-59	46551	879	4.4	5.9	8.9	59
eFLOOR-CABLE-SCREED-15-78	46552	1179	5.9	7.8	11.7	78
eFLOOR-CABLE-SCREED-15-90	46553	1336	6.8	9.0	13.5	90
eFLOOR-CABLE-SCREED-15-99	46554	1484	7.4	9.9	14.9	99
eFLOOR-CABLE-SCREED-15-140	46555	2099	10.5	14.0	21.0	140

eFLOOR CABLE SCREED heating loop accessories

Type	Item no.	Description	PG
KALT-eFLOOR-SCREED-1.5	46414	Cold lead for eFLOOR SCREED, 2 x 1.5 mm ² + aluminium protective sheath	A4
STEG-0	28030	Special formed linking tool, connection every 2.5 cm, length 100 m, not temperature-resistant	A3
MRS	33335	MRS repair set for heating conductor of the eFLOOR SCREED heating mat & eFLOOR CABLE SCREED heating loop	A4
FSH-20	26881	Copper sensor protective pipe for installation pipe DN-20	A2
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eBASIC-1	41278	Built-in switch thermostat with control dial and app function via Bluetooth 4.2, 16 A, 5-28 °C, white	E1

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

ETHERMA eFLOOR SCREED

Dipole heating mat for installation in screed flooring



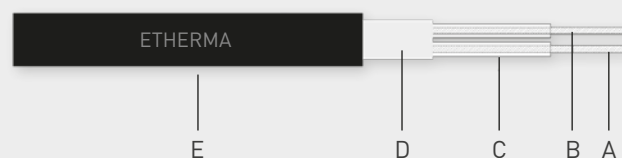
eFLOOR SCREED floor heating mats are used for direct, partial storage or for storage heating, according to the tariff model of the electrical supplier. The 60 W/m² heating mats in combination with a PV system are also ideal for optimising own energy consumption.

Installation is either in a 2-layer earth-moist screed or in flowing screed. The protective braiding of the heating loop ensures proper installation in damp and wet conditions. The premium dipole heating line has a standard connection cable (no plug) of 4 m, but can be manufactured as required, for a fee. All of our heating mats are completely PFAS-free and feature innovative, durable heat conductors for safe, efficient and environmentally friendly heat transfer.

On request we produce heating mats in your size, voltage, power output and shape as required.

eFLOOR SCREED 60 dipole heating mat, 60 W/m², 230 V, IP X7

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
eFLOOR-SCREED-60-65-285	46598	109	285	65	1.80
eFLOOR-SCREED-60-65-510	46599	199	510	65	3.30
eFLOOR-SCREED-60-65-720	46600	278	720	65	4.65
eFLOOR-SCREED-60-65-1035	46601	405	1035	65	6.75
eFLOOR-SCREED-60-65-1245	46602	483	1245	65	8.05
eFLOOR-SCREED-60-65-1755	46603	683	1755	65	11.44
eFLOOR-SCREED-60-65-2340	46604	910	2340	65	15.15
eFLOOR-SCREED-60-65-2955	46605	1150	2955	65	19.15
eFLOOR-SCREED-60-65-4170	46606	1626	4170	65	27.10



- A Heating cord
- B Heating cord
- C Networked high-temperature polymer insulation
- D Aluminium shield + protective earth conductor
- E Outer insulation radiation cross-linked polyolefin

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 60, 80, 100, 150 W/m²
- > Output on request: 40, 120, 175, 200, 240 W/m²
- > Temperature-resistant: up to 105 °C
- > Heating mat thickness: 7.2 mm
- > Min. bending radius: 5 d
- > IP rating: IP X7
- > Safety function: Earth-leakage circuit breaker, 30 mA
- > Connection: 4 m, 2 x 1.5 (2.5) mm² + aluminium protective sheath
- > Information acc. to (EU) 2024/1103: Note 1 (see page 9)

BENEFITS OF THIS PRODUCT

- + PFAS-free
- + Very low magnetic field < 25 nT
- + Only one connection
- + Ideal heating system for heating low energy and passive houses
- + Various sizes and power outputs enable easy planning and simple installation

SELECTION GUIDE

Take advantage of our **free offer, planning and ordering service**. The ETHERMA technical team will assist you to calculate your heating needs, as well as size and, if required, plan your electrical underfloor heating. In addition, we help you in selecting the best electricity rate, depending on the activation times of each EVU or we provide you with a suitable solution in combination with a PV system.

The values given here are reference values.

PG: M3

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
eFLOOR-SCREED-60-105-180	46607	109	180	105	1.80
eFLOOR-SCREED-60-105-315	46608	199	315	105	3.30
eFLOOR-SCREED-60-105-435	46609	278	435	105	4.65
eFLOOR-SCREED-60-105-645	46610	405	645	105	6.75
eFLOOR-SCREED-60-105-765	46611	483	765	105	8.05
eFLOOR-SCREED-60-105-1080	46612	683	1080	105	11.44
eFLOOR-SCREED-60-105-1440	46613	910	1440	105	15.15
eFLOOR-SCREED-60-105-1830	46614	1150	1830	105	19.15
eFLOOR-SCREED-60-105-2580	46615	1626	2580	105	27.10

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

eFLOOR SCREED 80 dipole heating mat, 80 W/m², 230 V, IP X7

PG: M3

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m²
eFLOOR-SCREED-80-65-240	46616	126	240	65	1.56
eFLOOR-SCREED-80-65-435	46617	230	435	65	2.83
eFLOOR-SCREED-80-65-615	46618	321	615	65	4.00
eFLOOR-SCREED-80-65-900	46619	468	900	65	5.85
eFLOOR-SCREED-80-65-1080	46620	558	1080	65	7.02
eFLOOR-SCREED-80-65-1515	46621	789	1515	65	9.85
eFLOOR-SCREED-80-65-2025	46622	1051	2025	65	13.16
eFLOOR-SCREED-80-65-2550	46623	1328	2550	65	16.58
eFLOOR-SCREED-80-65-3615	46624	1878	3615	65	23.50

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m²
eFLOOR-SCREED-80-105-150	46625	126	150	105	1.56
eFLOOR-SCREED-80-105-270	46626	230	270	105	2.83
eFLOOR-SCREED-80-105-375	46627	321	375	105	4.00
eFLOOR-SCREED-80-105-555	46628	468	555	105	5.85
eFLOOR-SCREED-80-105-660	46629	558	660	105	7.02
eFLOOR-SCREED-80-105-945	46630	789	945	105	9.85
eFLOOR-SCREED-80-105-1245	46631	1051	1245	105	13.16
eFLOOR-SCREED-80-105-1575	46632	1328	1575	105	16.58
eFLOOR-SCREED-80-105-2235	46633	1878	2235	105	23.50

eFLOOR SCREED 100 dipole heating mat, 100 W/m², 230 V, IP X7

PG: M3

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m²
eFLOOR-SCREED-100-65-210	46634	141	210	65	1.40
eFLOOR-SCREED-100-65-390	46635	257	390	65	2.55
eFLOOR-SCREED-100-65-555	46636	359	555	65	3.60
eFLOOR-SCREED-100-65-810	46637	523	810	65	5.25
eFLOOR-SCREED-100-65-960	46638	624	960	65	6.25
eFLOOR-SCREED-100-65-1350	46639	882	1350	65	8.80
eFLOOR-SCREED-100-65-1800	46640	1175	1800	65	11.75
eFLOOR-SCREED-100-65-2280	46641	1485	2280	65	14.85
eFLOOR-SCREED-100-65-3225	46642	2100	3225	65	21.00

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m²
eFLOOR-SCREED-100-105-135	46643	141	135	105	1.40
eFLOOR-SCREED-100-105-240	46644	257	240	105	2.55
eFLOOR-SCREED-100-105-345	46645	359	345	105	3.60
eFLOOR-SCREED-100-105-495	46646	523	495	105	5.25
eFLOOR-SCREED-100-105-600	46647	624	600	105	6.25
eFLOOR-SCREED-100-105-840	46648	882	840	105	8.80
eFLOOR-SCREED-100-105-1125	46649	1175	1125	105	11.75
eFLOOR-SCREED-100-105-1410	46650	1485	1410	105	14.85
eFLOOR-SCREED-100-105-1995	46651	2100	1995	105	21.00

eFLOOR SCREED 150 dipole heating mat, 150 W/m², 230 V, IP X7

PG: M3

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m²
eFLOOR-SCREED-150-55-170	46652	141	170	55	0.95
eFLOOR-SCREED-150-55-310	46653	257	310	55	1.70
eFLOOR-SCREED-150-55-440	46654	359	440	55	2.40
eFLOOR-SCREED-150-55-630	46655	523	630	55	3.50
eFLOOR-SCREED-150-55-760	46656	624	760	55	4.15
eFLOOR-SCREED-150-55-1070	46657	882	1070	55	5.90
eFLOOR-SCREED-150-55-1420	46658	1175	1420	55	7.85
eFLOOR-SCREED-150-55-1800	46659	1485	1800	55	9.90
eFLOOR-SCREED-150-55-2540	46660	2100	2540	55	14.00

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m²
eFLOOR-SCREED-150-95-100	46661	141	100	95	0.95
eFLOOR-SCREED-150-95-180	46662	257	180	95	1.70
eFLOOR-SCREED-150-95-250	46663	359	250	95	2.40
eFLOOR-SCREED-150-95-370	46664	523	370	95	3.50
eFLOOR-SCREED-150-95-440	46665	624	440	95	4.15
eFLOOR-SCREED-150-95-620	46666	882	620	95	5.90
eFLOOR-SCREED-150-95-820	46667	1175	820	95	7.85
eFLOOR-SCREED-150-95-1040	46668	1485	1040	95	9.90
eFLOOR-SCREED-150-95-1470	46669	2100	1470	95	14.00

eFLOOR SCREED heating mat accessories

Type	Item no.	Description	PG
KALT-eFLOOR-SCREED-1.5	46414	Cold lead for eFLOOR SCREED, 2 x 1.5 mm² + aluminium protective sheath	A4
STEG-0	28030	Special formed linking tool, connection every 2.5 cm, length 100 m, not temperature-resistant	A3
MRS	33335	MRS repair set for heating conductor of the eFLOOR SCREED heating mat & eFLOOR CABLE SCREED heating loop	A4
FSH-20	26881	Copper sensor protective pipe for installation pipe DN-20	A2
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eBASIC-1	41278	Built-in switch thermostat with control dial and app function via Bluetooth 4.2, 16 A, 5-28 °C, white	E1



ETHERMA PA

Heating carpet



Heating carpets provide a pleasant way of preventing cold floors in the office or at home, behind a sales desk, at the supermarket till or at an exhibition stand.

TECHNICAL DETAILS

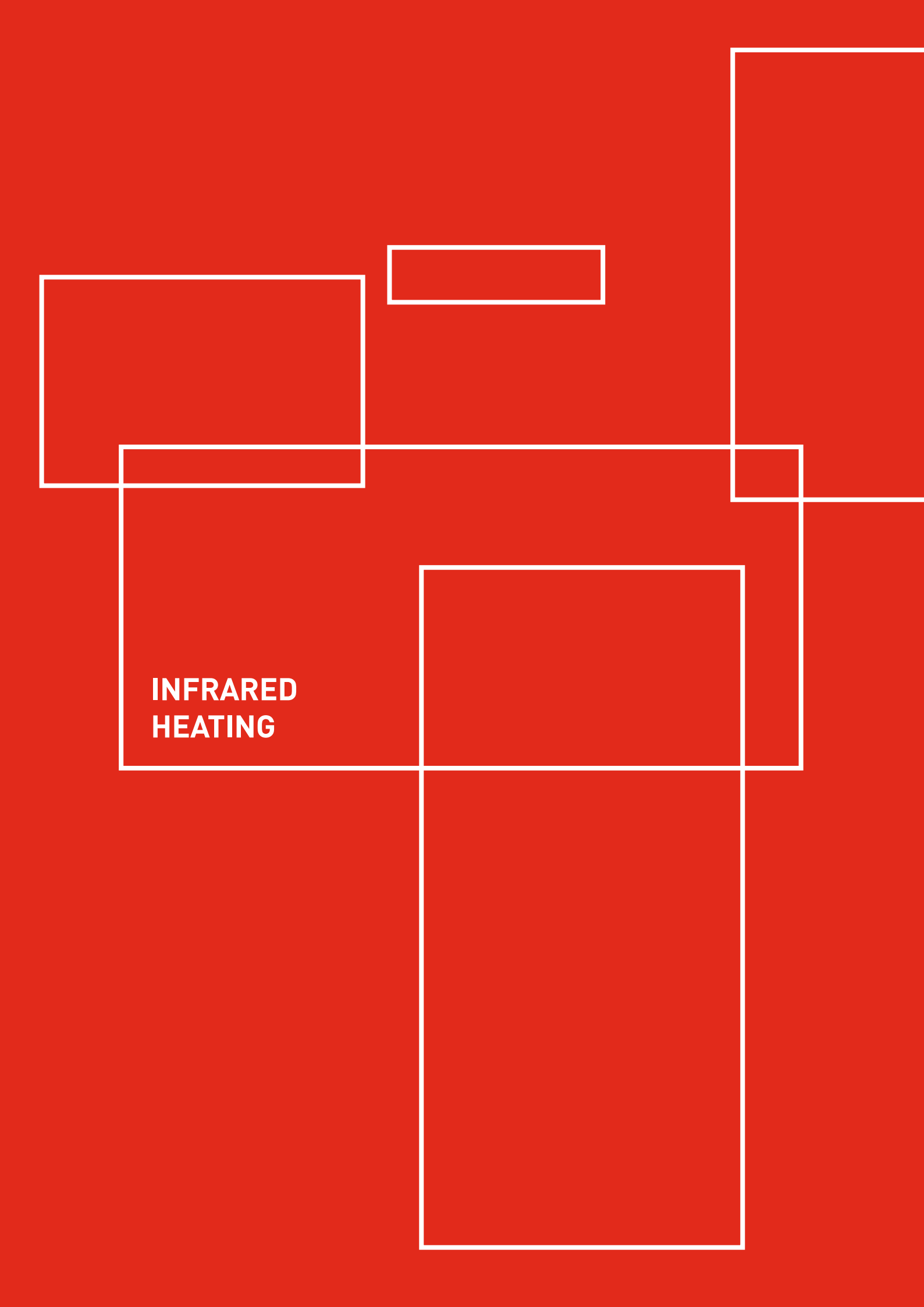
- > Voltage: 230 V
- > Surface temperature: ~ 35 °C
- > Surface: Loops
- > Material: 100% PP
- > Standard colour: Anthracite
- > Thickness: 10 mm
- > IP rating: IP X1
- > Safety function: Protective insulation
- > Connection: Connection cable (with plug), 2 m, with switch
- > Information acc. to (EU) 2024/1103: Note 1 (see page 9)

PA heating mat, 230 V, IP X1, anthracite

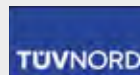
PG: M4

Type	Item no.	Output (W)	Voltage (V)	Length (cm)	Width (cm)
PA-1-NA	40853	60	230	40	60
PA-2-NA	40854	105	230	70	60
PA-3-NA	40855	150	230	100	60
PA-4-NA	40856	180	230	80	90



The image features a solid red background with several white-outlined rectangles of various sizes and orientations. These rectangles are arranged in a way that they overlap, creating a complex, layered geometric pattern. The rectangles are positioned in the upper and middle sections of the frame, leaving the lower section mostly empty except for the text.

**INFRARED
HEATING**



LAVA® BASIC 3.0

Smart infrared heating for walls & ceilings.



The new, innovative LAVA® 3.0 infrared heating range heralds a new era in the area of infrared heating and smart homes. All 3.0 devices can now be controlled with the new app ETHERMA SMART via the integrated SMARTBOX, which serves as a control unit, and the accompanying SMARTCUBE, a radio thermostat.

Discover the LAVA® BASIC 3.0, our most advanced infrared heating panel, which marries stylish design with exceptional heat output. With a installation depth of just 48 mm and a specially developed coating, the panel convinces with exceptional efficiency, while the high-quality materials ensure a long lifespan.

The innovative coating of the LAVA® BASIC 3.0 ensures optimal radiant heating effect and thus even and efficient heat distribution. This innovative technology not only reduces your heating costs but also spares the environment through lower energy use. The slimline metal casing blends perfectly into any room thanks to its timeless design. The versatile installation options – be it on walls, ceilings or as part of a modular ceiling – make the panel the ideal solution for the widest variety of application areas.

The LAVA® BASIC 3.0 stands for flexibility in use. It can be used both as zone heating for the targeted heating of specific areas and full heating for comprehensive heat distribution in an entire room. This allows for individual adaptation to your heating needs. A particular advantage of the LAVA® BASIC 3.0 is its simplicity of installation, which can easily be done by just one person. This saves time and installation costs and makes it even easier to use.

In the SMART version with SMARTBOX (radio receiver), SMARTCUBE (radio thermostat) and safety plug the infrared heating requires just one socket. The new SMARTBOX on the reverse of the LAVA® 3.0 SMART models in combination with the SMARTCUBE allow for easy use via the app ETHERMA SMART. Also available without SMART control and with just a connection cable.

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 200 -1350 W
- > Surface temperature: Ceiling installation max. 120 °C / Wall installation max. 95 °C
- > Surface: Steel sheet
- > Colour: White RAL 9016, Nano-anthracite RAL 7016
- > Installation heights
- Ceiling installation: min. 1.85 m up to max. 2.8 m
- > Optimal installation height Ceiling installation: 2.40 m to 2.60 m
- > Device/Installation depth: 18/48 mm
- > IP rating: IP X4
- > IEC Protection Class: I
- > Connection cable or connection cable with plug 1 m; 3 x 1.0 mm²
- > Information acc. to (EU) 2024/1103 for basic model: Note 2 (see page 9)



BENEFITS OF THIS PRODUCT

- + **Ecodesign-compliant:**
The SMART version satisfies all current Ecodesign requirements, contributing to higher energy efficiency and a smaller ecological footprint. The basic version is Ecodesign-compliant with an appropriate thermostat.
- + **Smart home integration:**
Integrated SMARTBOX and SMARTCUBE enable all 3.0 range devices to be easily controlled with WiFi via the app ETHERMA SMART – ideal for efficient heating in home and work areas.
- + **Innovative coating for even greater efficiency:**
The special coating ensures optimal radiant effect, resulting in even and efficient heat distribution and lower heating costs.
- + **Slimline and stylish design:**
With a panel thickness of just 18 mm and a high-quality casing, the panel blends perfectly into any room.
- + **Versatile installation options:**
The panel can be installed on the wall, the ceiling or as part of a modular ceiling (325 W & 680 W), making it the ideal solution for the widest range of application areas.
- + **Flexibility in use:** It can be used both as zone heating for targeted heating in specific areas and full heating for comprehensive heat distribution.
- + **Exceptionally easy installation:**
Installation of the panel can easily be done by just one person, saving time and costs.
- + **Maintenance-free and durable:**
The high-quality materials mean the panel has an exceptionally long lifespan and is absolutely maintenance-free.



LAVA® BASIC 3.0 reverse



LAVA® BASIC 3.0 SMART reverse



PG: I1

LAVA® BASIC 3.0 infrared heating, without control system, with connection cable, white (W)

Type	Item no.	Control system	Output (W)	Length (mm)	Height (mm)	Weight (kg)
LAVA3-BASIC-200-W	46276	none	200	600	400	4
LAVA3-BASIC-325-W	46278	none	325	620	620	6
LAVA3-BASIC-400-W	46279	none	400	1200	400	7.5
LAVA3-BASIC-450-W	46281	none	450	900	620	8.5
LAVA3-BASIC-680-W	46284	none	680	1245	620	12
LAVA3-BASIC-700-W	46282	none	700	900	900	12
LAVA3-BASIC-900-W	46286	none	900	1600	620	15
LAVA3-BASIC-1350-W	46287	none	1350	1245	1245	21
LAVA3-BASIC-325EP-W	46277	none	325	595	595	6
LAVA3-BASIC-680EP-W	46283	none	680	1195	595	12



PG: I1

LAVA® BASIC 3.0 infrared heating, without control system, with connection cable, nano-anthracite (NA)

Type	Item no.	Control system	Output (W)	Length (mm)	Height (mm)	Weight (kg)
LAVA3-BASIC-325-NA	46288	none	325	620	620	6
LAVA3-BASIC-450-NA	46289	none	450	900	620	8.5
LAVA3-BASIC-680-NA	46290	none	680	1245	620	12
LAVA3-BASIC-900-NA	46291	none	900	1600	620	15
LAVA3-BASIC-325EP-NA	46384	none	325	595	595	6
LAVA3-BASIC-680EP-NA	46385	none	680	1195	595	12

Accessories

Type	Item no.	Description	PG
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eTOUCH-PRO-1-B	41432	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, black	E1
eBASIC-1	41278	Built-in switch thermostat with control dial and app function via Bluetooth 4.2, 16 A, 5-28 °C, white	E1
ET-SMARTBOX-W	46404	Radio receiver in combination with SMARTCUBE radio thermostat, white	E1
ET-SMARTBOX-B	46405	Radio receiver in combination with SMARTCUBE radio thermostat, black	E1
ET-SMARTCUBE-TH-W	46406	Radio thermostat in combination with SMARTBOX radio receiver and app ETHERMA SMART, WiFi, white	E1
ET-SMARTCUBE-TH-B	46407	Radio thermostat in combination with SMARTBOX radio receiver and app ETHERMA SMART, WiFi, black	E1
LAVA-DA	46185	Straight ceiling suspension using 4 individual cables; for LAVA BASIC 3.0, LAVA MAXIMUS and LAVA LUX	E1



PG: I1

LAVA® BASIC 3.0 SMART infrared heating, with smart WiFi control, connection cable with plug, white (W)

Type	Item no.	Control system	Output (W)	Length (mm)	Height (mm)	Weight (kg)
LAVA3-BASIC-SMART-200-W	46260	with	200	600	400	4
LAVA3-BASIC-SMART-325-W	46262	with	325	620	620	6
LAVA3-BASIC-SMART-400-W	46263	with	400	1200	400	7.5
LAVA3-BASIC-SMART-450-W	46265	with	450	900	620	8.5
LAVA3-BASIC-SMART-680-W	46268	with	680	1245	620	12
LAVA3-BASIC-SMART-700-W	46266	with	700	900	900	12
LAVA3-BASIC-SMART-900-W	46270	with	900	1600	620	15
LAVA3-BASIC-SMART-1350-W	46271	with	1350	1245	1245	21
LAVA3-BASIC-SMART-325EP-W	46261	with	325	595	595	6
LAVA3-BASIC-SMART-680EP-W	46267	with	680	1195	595	12



PG: I1

LAVA® BASIC 3.0 SMART infrared heating, with smart WiFi control, connection cable with plug, nano-anthracite (NA)

Type	Item no.	Control system	Output (W)	Length (mm)	Height (mm)	Weight (kg)
LAVA3-BASIC-SMART-325-NA	46272	with	325	620	620	6
LAVA3-BASIC-SMART-450-NA	46273	with	450	900	620	8.5
LAVA3-BASIC-SMART-680-NA	46274	with	680	1245	620	12
LAVA3-BASIC-SMART-900-NA	46275	with	900	1600	620	15
LAVA3-BASIC-SMART-325EP-NA	46382	with	325	595	595	6
LAVA3-BASIC-SMART-680EP-NA	46383	with	680	1195	595	12

LAVA® 3.0

Smart infrared heating for walls



The new, innovative LAVA® 3.0 infrared heating range heralds a new era in the area of infrared heating and smart homes. All 3.0 devices can now be controlled with the new app ETHERMA SMART via the integrated SMARTBOX, which serves as a control unit, and the accompanying SMARTCUBE, a radio thermostat.

Thanks to the integrated SMARTBOX and accompanying SMARTCUBE, all devices in the 3.0 range can be seamlessly controlled via the brand new app ETHERMA SMART. This makes smart heating even more efficient, simple and convenient – whether in the home or the office.

The LAVA® 3.0 infrared heaters are now even slimmer with safety glass just 5 mm thick. In addition to the ESG surface material, two temperature limiters in each device ensure safety of use. The perfectly insulated reverse in combination with the even heat distribution on the surface guarantee a very high level of radiation efficiency and as a result a maximum heat output forwards in the room. The frameless construction ensures a modern, timeless design and makes the LAVA® 3.0 panel a stylish complement in every room.

Wall-mounted, the infrared panel is ideal as a full or zone heater in both living spaces and office environments. In the SMART version with SMARTBOX (radio receiver), SMARTCUBE (radio thermostat) and safety plug the infrared heating requires just one socket. The new SMARTBOX on the reverse of the LAVA® 3.0 SMART models in combination with the SMARTCUBE allow for easy use via the app ETHERMA SMART. Also available without SMART control and just with a connection cable.



LAVA® 3.0 reverse

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 240 - 900 W
- > Surface temperature: Max. 95 °C at normal indoor temperatures
- > Surface: 5 mm ESG safety glass
- > Wall mounting: Horizontally or vertically
- > Device/Installation depth: 25/55 mm
- > IP rating: IP X4
- > IEC Protection Class: I
- > Connection cable or connection cable with plug: 1 m; 3 x 1.0 mm²
- > Information acc. to (EU) 2024/1103 for basic model: Note 2 (see page 9)



BENEFITS OF THIS PRODUCT

- + **Ecodesign-compliant:**
The SMART version satisfies all current Ecodesign requirements, contributing to higher energy efficiency and a smaller ecological footprint. The basic version is Ecodesign-compliant with an appropriate thermostat.
- + **Smart home integration:**
Integrated SMARTBOX and SMARTCUBE enable all 3.0 range devices to be easily controlled with WiFi via the app ETHERMA SMART – ideal for efficient heating in home and work areas.
- + **Optimal heat output:**
The perfectly insulated reverse and even heat distribution ensure a very high level of radiation efficiency and efficient infrared heat output.
- + **Modern, minimalist design:**
The clear, frameless appearance combined with 5-mm-thick safety glass lend the panels a slimline and timeless design which fits harmoniously into any room.
- + **The highest safety standards:**
Two integrated temperature limiters per device and high-quality ESG surface materials ensure safe operation.
- + **Efficiency and ease of use:**
Cutting-edge technology and intuitive control via the app offer exceptional efficiency and comfort in installation and use.
- + **Flexible applications:**
Whether as full or zone heating – the diverse installation options, including on the wall, make the panels the ideal solution for the widest range of space concepts.



LAVA® 3.0 SMART reverse

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.



LAVA® 3.0 infrared heating, without control system, with connection cable, glass, pure white (W)

PG: I2

Type	Item no.	Output (W)	Length (mm)	Height (mm)	Weight (kg)
LAVA3-GL-240-PW	46310	240	500	630	8
LAVA3-GL-450-PW	46311	450	900	630	14
LAVA3-GL-600-PW	46312	600	1300	500	16
LAVA3-GL-680-PW	46313	680	1300	630	20
LAVA3-GL-800-PW	46314	800	1600	500	20
LAVA3-GL-900-PW	46315	900	1600	630	25



LAVA® 3.0 infrared heating, without control system, with connection cable, glass, pure white, satined (PWS)

PG: I2

Type	Item no.	Output (W)	Length (mm)	Height (mm)	Weight (kg)
LAVA3-GL-240-PWS	46316	240	500	630	8
LAVA3-GL-450-PWS	46317	450	900	630	14
LAVA3-GL-600-PWS	46318	600	1300	500	16
LAVA3-GL-680-PWS	46319	680	1300	630	20
LAVA3-GL-800-PWS	46320	800	1600	500	20
LAVA3-GL-900-PWS	46321	900	1600	630	25



LAVA® 3.0 infrared heating, without control system, with connection cable, glass, mirror (MR)

PG: I2

Type	Item no.	Output (W)	Length (mm)	Height (mm)	Weight (kg)
LAVA3-GL-240-MR	46322	240	500	630	8
LAVA3-GL-450-MR	46323	450	900	630	14
LAVA3-GL-600-MR	46324	600	1300	500	16
LAVA3-GL-680-MR	46325	680	1300	630	20
LAVA3-GL-800-MR	46326	800	1600	500	20
LAVA3-GL-900-MR	46327	900	1600	630	25

Accessories

Type	Item no.	Description	PG
ET-SMARTBOX-W	46404	Radio receiver in combination with SMARTCUBE radio thermostat, white	E1
ET-SMARTBOX-B	46405	Radio receiver in combination with SMARTCUBE radio thermostat, black	E1
ET-SMARTCUBE-TH-W	46406	Radio thermostat in combination with SMARTBOX radio receiver and app ETHERMA SMART, WiFi, white	E1
ET-SMARTCUBE-TH-B	46407	Radio thermostat in combination with SMARTBOX radio receiver and app ETHERMA SMART, WiFi, black	E1
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eTOUCH-PRO-1-B	41432	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, black	E1
eBASIC-1	41278	Built-in switch thermostat with control dial and app function via Bluetooth, 16 A, 5-28 °C, white	E1

LAVA® 3.0 SMART infrared heating, with smart WiFi control, connection cable with plug, glass, pure white (PW)



PG: I2

Type	Item no.	Output (W)	Length (mm)	Height (mm)	Weight (kg)
LAVA3-GL-SMART-240-PW	46292	240	500	630	8
LAVA3-GL-SMART-450-PW	46293	450	900	630	14
LAVA3-GL-SMART-600-PW	46294	600	1300	500	16
LAVA3-GL-SMART-680-PW	46295	680	1300	630	20
LAVA3-GL-SMART-800-PW	46296	800	1600	500	20
LAVA3-GL-SMART-900-PW	46297	900	1600	630	25

LAVA® 3.0 SMART infrared heating, with smart WiFi control, connection cable with plug, glass, pure white satined (PWS)



PG: I2

Type	Item no.	Output (W)	Length (mm)	Height (mm)	Weight (kg)
LAVA3-GL-SMART-240-PWS	46298	240	500	630	8
LAVA3-GL-SMART-450-PWS	46299	450	900	630	14
LAVA3-GL-SMART-600-PWS	46300	600	1300	500	16
LAVA3-GL-SMART-680-PWS	46301	680	1300	630	20
LAVA3-GL-SMART-800-PWS	46302	800	1600	500	20
LAVA3-GL-SMART-900-PWS	46303	900	1600	630	25



LAVA® 3.0 SMART infrared heating, with smart WiFi control, connection cable with plug, glass, mirror (MR)

PG: I2

Type	Item no.	Output (W)	Length (mm)	Height (mm)	Weight (kg)
LAVA3-GL-SMART-240-MR	46304	240	500	630	8
LAVA3-GL-SMART-450-MR	46305	450	900	630	14
LAVA3-GL-SMART-600-MR	46306	600	1300	500	16
LAVA3-GL-SMART-680-MR	46307	680	1300	630	20
LAVA3-GL-SMART-800-MR	46308	800	1600	500	20
LAVA3-GL-SMART-900-MR	46309	900	1600	630	25

LAVA® BATH PURE 3.0

Smart Bathroom infrared heating with a towel rail



The new, innovative LAVA® BATH 3.0 infrared heating range heralds a new era in the area of infrared heating and smart homes. All 3.0 devices can now be controlled with the new app ETHERMA SMART via the integrated SMARTBOX, which serves as a control unit, and the accompanying SMARTCUBE, a radio thermostat.

Thanks to the integrated SMARTBOX and accompanying SMARTCUBE, all devices in the 3.0 range can be seamlessly controlled via the brand new app ETHERMA SMART. This smart networking allows for intuitive use and energy efficient heat output – individually adjustable to personal needs.

The LAVA® BATH PURE 3.0 blends with simple elegance into your bathroom and provides cosy heat in shortest time at all. The perfectly insulated reverse in conjunction with the even heat distribution on the metal surface guarantees efficient heat output forwards into the room. Once switched on, the surface is heated to a maximum 80°C, so that towels can be cosily warmed on the accompanying towel rail. The LAVA BATH PURE 3.0 is installed vertically onto the wall and the safety plug means just a single socket is required.

In the SMART version with SMARTBOX (radio receiver), SMARTCUBE (radio thermostat) and safety plug the infrared heating requires just one socket. The new SMARTBOX on the reverse of the LAVA® 3.0 SMART models in combination with the SMARTCUBE allow for easy use via the app ETHERMA SMART. Also available without SMART control and just with a connection cable.



TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 350 - 700 W
- > Surface temperature: Max. 80 °C at normal indoor temperatures
- > Surface: Steel sheet
- > Wall mounting: Vertical
- > Colour: White (RAL 9016), Nano-anthracite (RAL 7016)
- > Device/installation depth: 18/48 mm
- > IP rating: IP X4
- > IEC Protection Class: I
- > Connection cable or connection cable with plug: 1 m; 3 x 1.0 mm²
- > Information acc. to (EU) 2024/1103 for basic model: Note 3 (see page 9)



BENEFITS OF THIS PRODUCT

- + **Ecodesign-compliant:**
The SMART version satisfies all current Ecodesign requirements, contributing to higher energy efficiency and a smaller ecological footprint. The basic version is Ecodesign-compliant with an appropriate thermostat.
- + **Smart home integration:**
Integrated SMARTBOX and SMARTCUBE enable all 3.0 range devices to be easily controlled with WiFi via the app ETHERMA SMART – ideal for efficient heating inhome and work areas.
- + **Optimal heat output:**
The perfectly insulated reverse and the even heat distribution on the metal surface guarantee efficient heat output forwards in the room.
- + **Fast heating and towel heater function:** Shortly after switching on, the surface reaches a maximum of 80 °C, allowing towels to become cosy and warm on the accompanying LAVA® Halti towel rail. Two further Halti models are also available as accessories.
- + **Modern, minimalist design:**
The simple elegance of the LAVA® BATH PURE 3.0 blends harmoniously into your bathroom, adding a touch of style.
- + **Straightforward installation:**
The vertical wall mounting ensures a straightforward installation, enabling the infrared heating to be put into operation quickly and with little effort.



ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.



LAVA® BATH PURE 3.0 reverse



LAVA® BATH PURE SMART reverse

LAVA® BATH PURE 3.0 infrared heating, without control system, with connection cable, white (W)

PG: I1

Type	Item no.	Output (W)	Height (mm)	Width (mm)	Weight (kg)	Halti
LAVABATH3-PURE-350-W	46364	350	900	620	11	max. 1
LAVABATH3-PURE-500-W	46365	500	1245	620	15	max. 3
LAVABATH3-PURE-700-W	46366	700	1600	620	19	max. 3

LAVA® BATH PURE 3.0 infrared heating, without control system, with connection cable, nano-anthracite (NA)

PG: I1

Type	Item no.	Output (W)	Height (mm)	Width (mm)	Weight (kg)	Halti
LAVABATH3-PURE-350-NA	46367	350	900	620	11	max. 1
LAVABATH3-PURE-500-NA	46368	500	1245	620	15	max. 3
LAVABATH3-PURE-700-NA	46369	700	1600	620	19	max. 3

Accessories

Type	Item no.	Description	PG
LAVA-Halti-63-GNA	44841	Powder-coated towel rail for LAVA BATH 2.0 PURE, width: 63 cm, nano anthracite	A7
LAVA-Halti-63-GW	36489	Powder-coated towel rail for LAVA BATH 2.0 PURE, width: 63 cm, white	A7
ET-SMARTBOX-W	46404	Radio receiver in combination with SMARTCUBE radio thermostat, white	E1
ET-SMARTBOX-B	46405	Radio receiver in combination with SMARTCUBE radio thermostat, black	E1
ET-SMARTCUBE-TH-W	46406	Radio thermostat in combination with SMARTBOX radio receiver and app ETHERMA SMART, Wi-Fi, white	E1
ET-SMARTCUBE-TH-B	46407	Radio thermostat in combination with SMARTBOX radio receiver and app ETHERMA SMART, Wi-Fi, black	E1
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eTOUCH-PRO-1-B	41432	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, black	E1
eBASIC-1	41278	Built-in switch thermostat with control dial and app function via Bluetooth, 16 A, 5-28 °C, white	E1

LAVA® BATH PURE 3.0 SMART infrared heating, with smart WiFi control, connection cable with plug, white (W)

PG: I1

Type	Item no.	Output (W)	Height (mm)	Width (mm)	Weight (kg)	Halti
LAVABATH3-PURE-SMART-350-W	46358	350	900	620	11	max. 1
LAVABATH3-PURE-SMART-500-W	46359	500	1245	620	15	max. 3
LAVABATH3-PURE-SMART-700-W	46360	700	1600	620	19	max. 3

LAVA® BATH PURE 3.0 SMART infrared heating, with smart WiFi control, connection cable with plug, nano-anthracite (NA)

PG: I1

Type	Item no.	Output (W)	Height (mm)	Width (mm)	Weight (kg)	Halti
LAVABATH3-PURE-SMART-350-NA	46361	350	900	620	11	max. 1
LAVABATH3-PURE-SMART-500-NA	46362	500	1245	620	15	max. 3
LAVABATH3-PURE-SMART-700-NA	46363	700	1600	620	19	max. 3

LAVA® BATH 3.0

Smart glass infrared heating for the bathroom with towel rail



The new, innovative LAVA® BATH 3.0 infrared heating range heralds a new era in the area of infrared heating and smart homes. All 3.0 devices can now be controlled with the new app ETHERMA SMART via the integrated SMARTBOX, which serves as a control unit, and the accompanying SMARTCUBE, a radio thermostat. This smart networking allows for intuitive use and energy efficient heat output – individually adjustable to personal needs.

The LAVA® BATH 3.0 is the perfect heat source for your bathroom. The robust ESG safety glass surface material and two temperature limiters in all panels ensure safety at all times in use. The perfectly insulated reverse in conjunction with the even heat distribution on the surface guarantees efficient heat output forwards into the room. Once switched on, the surface on the glass is heated to a maximum 70°C, so that towels can be cosily warmed on the accompanying towel rail. The frameless construction ensures a modern, timeless design. A maximum of two further LAVA® towel rails can be attached to the device.

The LAVA BATH 3.0 is mounted vertically on the wall. In the SMART version with SMARTBOX (radio receiver), SMARTCUBE (radio thermostat) and safety plug the infrared heating requires just one socket. The new SMARTBOX on the reverse of the LAVA® 3.0 SMART models in combination with the SMARTCUBE allow for easy use via the app ETHERMA SMART. Also available without SMART control and with just a connection cable.

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 350 - 700 W
- > Surface temperature: Max. 70 °C at normal indoor temperatures temp.
- > Surface: 5 mm safety glass (ESG)
- > Device/Installation depth: 25/55 mm
- > IP rating: IP X4
- > IEC Protection Class: I
- > Connection cable or connection cable with plug: 1 m; 3 x 1.0 mm²
- > Wall mounting: Vertical
- > Information acc. to (EU) 2024/1103 for basic model: Note 3 (see page 9)



BENEFITS OF THIS PRODUCT

- + **Ecodesign-compliant:**
The SMART version satisfies all current Ecodesign requirements, contributing to higher energy efficiency and a smaller ecological footprint. The basic version is Ecodesign-compliant with an appropriate thermostat.
- + **Smart home integration:**
Integrated SMARTBOX and SMARTCUBE enable all 3.0 range devices to be easily controlled with WiFi via the app ETHERMA SMART - ideal for efficient heating in home and work areas.
- + **Optimal heat output:**
The perfectly insulated reverse and the even heat distribution on the metal surface guarantee efficient heat output forwards in the room.
- + **Fast heating and towel heater function:**
Shortly after switching on, the surface reaches a maximum of 70 °C, allowing towels to become cosy and warm on the accompanying LAVA® Halti towel rail. Two further Halti models are also available as accessories.
- + **Modern, minimalist design:**
The simple elegance of the LAVA® BATH 3.0 blends harmoniously into your bathroom, adding a touch of style.
- + **Straightforward installation:**
The vertical wall mounting ensures a straightforward installation, enabling the infrared heating to be put into operation quickly and with little effort.



Reverse
LAVA® BATH 3.0



Reverse
LAVA® BATH 3.0 SMART



ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.



LAVA® BATH 3.0 infrared heating, without control system, with connection cable, glass, pure white (PW)

PG: I2

Type	Item no.	Output (W)	Height (mm)	Width (mm)	Weight (kg)	Halti
LAVABATH3-GL-350-PW	46343	350	900	630	14	max. 1
LAVABATH3-GL-400-PW	46344	400	1300	500	16	max. 3
LAVABATH3-GL-500-PW	46345	500	1300	630	20	max. 3
LAVABATH3-GL-600-PW	46346	600	1600	500	20	max. 3
LAVABATH3-GL-700-PW	46347	700	1600	630	25	max. 3



LAVA® BATH 3.0 infrared heating, without control system, with connection cable, glass, pure white satined (PWS)

PG: I2

Type	Item no.	Output (W)	Height (mm)	Width (mm)	Weight (kg)	Halti
LAVABATH3-GL-350-PWS	46348	350	900	630	14	max. 1
LAVABATH3-GL-400-PWS	46349	400	1300	500	16	max. 3
LAVABATH3-GL-500-PWS	46350	500	1300	630	20	max. 3
LAVABATH3-GL-600-PWS	46351	600	1600	500	20	max. 3
LAVABATH3-GL-700-PWS	46352	700	1600	630	25	max. 3



LAVA® BATH 3.0 infrared heating, without control, with connection cable, glass, mirror (MR)

PG: I2

Type	Item no.	Output (W)	Height (mm)	Width (mm)	Weight (kg)	Halti
LAVABATH3-GL-350-MR	46353	350	900	630	14	max. 1
LAVABATH3-GL-400-MR	46354	400	1300	500	16	max. 3
LAVABATH3-GL-500-MR	46355	500	1300	630	20	max. 3
LAVABATH3-GL-600-MR	46356	600	1600	500	20	max. 3
LAVABATH3-GL-700-MR	46357	700	1600	630	25	max. 3

Accessories

Type	Item no.	Description	PG
LAVA-Halti-50-E0	40034	Polished stainless steel towel rail for LAVA® BATH 3.0 / 2.0, 400 600, width: 50 cm	A7
LAVA-Halti-63-E0	40035	Polished stainless steel towel rail for LAVA® BATH 3.0 / 2.0, 350 500 700, width: 63 cm	A7
ET-SMARTBOX-W	46404	Radio receiver in combination with SMARTCUBE radio thermostat, white	E1
ET-SMARTBOX-B	46405	Radio receiver in combination with SMARTCUBE radio thermostat, black	E1
ET-SMARTCUBE-TH-W	46406	Radio thermostat in combination with SMARTBOX radio receiver and app ETHERMA SMART, Wi-Fi, white	E1
ET-SMARTCUBE-TH-B	46407	Radio thermostat in combination with SMARTBOX radio receiver and app ETHERMA SMART, Wi-Fi, black	E1
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eTOUCH-PRO-1-B	41432	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, black	E1
eBASIC-1	41278	Built-in switch thermostat with control dial and app function via Bluetooth, 16 A, 5-28 °C, white	E1

LAVA® BATH 3.0 SMART infrared heating, with smart WiFi control, connection cable with plug, glass, pure white (PW)



PG: I2

Type	Item no.	Output (W)	Height (mm)	Width (mm)	Weight (kg)	Halti
LAVABATH3-GL-SMART-350-PW	46328	350	900	630	14	max. 1
LAVABATH3-GL-SMART-400-PW	46329	400	1300	500	16	max. 3
LAVABATH3-GL-SMART-500-PW	46330	500	1300	630	20	max. 3
LAVABATH3-GL-SMART-600-PW	46331	600	1600	500	20	max. 3
LAVABATH3-GL-SMART-700-PW	46332	700	1600	630	25	max. 3

LAVA® BATH 3.0 SMART infrared heating, with smart WiFi control, connection cable with plug, glass, pure white satined (PWS)



PG: I2

Type	Item no.	Output (W)	Height (mm)	Width (mm)	Weight (kg)	Halti
LAVABATH3-GL-SMART-350-PWS	46333	350	900	630	14	max. 1
LAVABATH3-GL-SMART-400-PWS	46334	400	1300	500	16	max. 3
LAVABATH3-GL-SMART-500-PWS	46335	500	1300	630	20	max. 3
LAVABATH3-GL-SMART-600-PWS	46336	600	1600	500	20	max. 3
LAVABATH3-GL-SMART-700-PWS	46337	700	1600	630	25	max. 3

LAVA® BATH 3.0 SMART infrared heating, with smart WiFi control, connection cable with plug, glass, mirror (MR)



PG: I2

Type	Item no.	Output (W)	Height (mm)	Width (mm)	Weight (kg)	Halti
LAVABATH3-GL-SMART-350-MR	46338	350	900	630	14	max. 1
LAVABATH3-GL-SMART-400-MR	46339	400	1300	500	16	max. 3
LAVABATH3-GL-SMART-500-MR	46340	500	1300	630	20	max. 3
LAVABATH3-GL-SMART-600-MR	46341	600	1600	500	20	max. 3
LAVABATH3-GL-SMART-700-MR	46342	700	1600	630	25	max. 3

LAVA® DYL 3.0

Smart self-designed individual image infrared heating



The new, innovative LAVA® 3.0 infrared heating range heralds a new era in the area of infrared heating and smart homes. All 3.0 devices can now be controlled with the new app ETHERMA SMART via the integrated SMARTBOX, which serves as a control unit, and the accompanying SMARTCUBE, a radio thermostat. This smart networking allows for intuitive use and energy efficient heat output – individually adjustable to personal needs. With the LAVA® DYL 3.0 heating has now also become personally designable. This model offers the opportunity to provide infrared heating with an individual motif. Whether its a personal holiday photo, a company logo or a unique design – the image is printed to a high standard behind glass, thus making the heating a stylish design element in a room.

The LAVA® DYL 3.0 infrared panel is specially designed for wall mounting and can – regardless of the chosen motif – be installed both vertically and horizontally.

All LAVA® DYL 3.0 heat panels are equipped with SMARTBOX (radio receiver), SMARTCUBE (radio thermostat) and a safety plug, enabling them to be easily controlled via the app ETHERMA SMART. In this way LAVA® DYL marries cutting-edge technology with maximum individuality and smart home comfort.

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 180 – 700 W
- > Surface temperature: Max. 70 °C at normal indoor temperatures
- > Surface: 5 mm ESG safety glass
- > Device/Installation depth: 25/55 mm
- > IP rating: IP X4
- > IEC Protection Class: I
- > Connection cable (with plug): 1 m; 3 x 1.0 mm²



BENEFITS OF THIS PRODUCT

- + **Ecodesign-compliant:**
As a SMART version the LAVA® DYL 3.0 satisfies all current Ecodesign requirements, contributing to higher energy efficiency and a smaller ecological footprint.
- + **Smart home integration:**
Integrated SMARTBOX and SMARTCUBE enable all 3.0 range devices to be easily controlled with WiFi via the app ETHERMA SMART – ideal for efficient heating in home and work areas.
- + **Individual style:**
With LAVA® DYL 3.0 heating has now also become personally designable. Give your infrared heating an individual touch – be it with a holiday photo, a company logo or a unique design. The desired motif is printed to a high standard behind glass, thus making the heating a stylish design element.
- + **Flexible wall installation:**
The panel designed especially for wall mounting can be installed vertically or horizontally, regardless of the chosen motif and adapted perfectly to the room.

ETHERMA HINT:

At www.etherma.com you will find tips on how to design your image file to ensure perfect printing results.

ETHERMA RULE OF THUMB:

The file should be at least **5 MB in size, with a 300 dpi resolution!** Should you have any questions, please contact: marketing@etherma.com.

LAVA® DYL 3.0 SMART infrared heating, with smart WiFi control, connection cable with plug, customer motif, glass

PG: 12

Type	Item no.	Output (W)	Length (mm)	Height (mm)	Weight (kg)
LAVA3-DYL-GL-SMART-180	46370	180	500	630	8
LAVA3-DYL-GL-SMART-350	46371	350	900	630	14
LAVA3-DYL-GL-SMART-500	46372	500	1300	630	20
LAVA3-DYL-GL-SMART-700	46373	700	1600	630	25

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 350, 500, 740, 750 W
- > Surface temperature: Max. 120 °C at normal indoor temperatures
- > Surface: Steel sheet, structured
- > Frame: Steel housing, white (RAL 9016)
- > Device depth: 22 mm
- > Depth: 75 mm
- > IP rating: IP 21
- > IEC Protection Class: I
- > Connection: 1 m, 3 x 1.5 mm² without plug
- > Information acc. to (EU) 2024/1103: Note 2 (see page 9)

BENEFITS OF THIS PRODUCT

- + Suitable for wall and ceiling installation
- + Mounting frame with Easy-Click
- + Flush-mounted installation
- + Simple installation
- + Large infrared radiation surface
- + High radiant heating effect
- + Maintenance-free and magnetic field-free

SELECTION GUIDE

The selection of the output depends on the heat demand in the room (H: 2.5 m) and the use of the heater. The following is a guide:

20-45 W/m²	Low energy and passive house
50-70 W/m²	Well insulated living space
75-95 W/m²	Moderately insulated living space
100-120 W/m²	Poorly insulated living space

LAVA® FRAME

Infrared heating for wall and ceiling installation



The LAVA® FRAME infrared heating panel is an innovative heating solution which can be integrated perfectly into walls or ceilings thanks to its mounting frame. In drywall or concrete installations in particular it creates an aesthetically pleasing and unobtrusive appearance that blends perfectly into the room architecture.

With its efficient infrared technology the LAVA® FRAME heating panel is suitable for both full heating and targeted zone heating. This results in optimised energy use, reduces heating costs and ensures a pleasant and healthy room climate. Thanks to its flush-mounted installation the heating is almost invisible whilst it provides cosy warmth.

LAVA® FRAME built-in infrared heating including mounting frame, connection cable, steel sheet, white (W)

PG: I2

Type	Item no.	Output (W)	Installation dimension (mm)	Dimensions without frame (mm)		Weight without frame (kg)
				Length	Width	
LAVA-FRAME-350	40505	350	635 x 635 x 75	620	620	7.5
LAVA-FRAME-500	40506	500	635 x 915 x 75	900	620	12
LAVA-FRAME-740	44719	700	915 x 915 x 75	900	900	17
LAVA-FRAME-750	40507	750	635 x 1260 x 75	1245	620	16

Accessories

Type	Item no.	Description	PG
ET-SMARTBOX-W	46404	Radio receiver in combination with SMARTCUBE radio thermostat, white	E1
ET-SMARTBOX-B	46405	Radio receiver in combination with SMARTCUBE radio thermostat, black	E1
ET-SMARTCUBE-TH-W	46406	Radio thermostat in combination with SMARTBOX radio receiver and app ETHERMA SMART, WiFi, white	E1
ET-SMARTCUBE-TH-B	46407	Radio thermostat in combination with SMARTBOX radio receiver and app ETHERMA SMART, WiFi, black	E1
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eTOUCH-PRO-1-B	41432	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, black	E1
eBASIC-1	41278	Built-in switch thermostat with control dial and app function via Bluetooth, 16 A, 5-28 °C, white	E1

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

LAVA® MAXIMUS

High-temperature infrared heating for ceilings



The LAVA® MAXIMUS by ETHERMA is a high output infrared panel which stands out above all for its high surface temperature. The additional heat output makes it ideal for rooms with high ceilings or increased energy needs.

NEW VERSION:

The even thinner new frame lends the panel a particularly modern and elegant appearance.

FLEXIBLE INSTALLATION:

- as a surface-mounted version on the ceiling or
- through integration into a modular ceiling thanks to the standard dimensions of the panel.
- suspended with the optional set for ceiling suspension

In a matter of minutes the panel provides pleasant, gentle heat from above and can be used both for full building heating and additional or zone heating in offices, retail spaces and high living spaces.

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 600, 800, 1500 W
- > Surface temperature: approx. 180 °C at normal indoor temperatures
- > Surface: Satinized safety glass
- > Colour: White
- > Device/Installation depth: 25/55 mm
- > Installation heights: min. 1.85 m up to max. 4 m
- > Optimal installation height: 2.8 m
- > IP rating: IP 24
- > IEC Protection Class: I
- > Connection: 1 m, 3 x 1.0 mm² without plug
- > Information acc. to (EU) 2024/1103: Note 2 (see page 9)

BENEFITS OF THIS PRODUCT

- + Extra powerful performance thanks to high surface temperature
- + Ideal for high-ceilinged rooms or for more demanding heat requirements
- + Ceiling installation
- + Complete integration in modular ceilings possible
- + Fully-fledged building heating system or additional or zone heating
- + High-quality design
- + No service or maintenance required

SELECTION GUIDE

The selection of the output depends on the heat demand in the room (H: 2.8 m) and the use of the heater. The following is a guide:

20-55 W/m ²	Low energy and passive house
60-90 W/m ²	Well insulated living space
95-120 W/m ²	Moderately insulated living space
125-150 W/m ²	Poorly insulated living space

LAVA® MAXIMUS infrared heating, connection cable, glass, pure white, satin (PW)

PG: I4

Type	Item no.	Output (W)	Length (mm)	Height (mm)	Weight (kg)
LAVA-MAX2-GL-600-PW	46711	600	480	480	5
LAVA-MAX2-GL-800-PW	46712	800	620	620	7
LAVA-MAX2-GL-1500-PW	46713	1500	1245	620	14
LAVA-MAX2-GL-800EP-PW	46714	800	595	595	7
LAVA-MAX2-GL-1500EP-PW	46715	1500	1195	595	14

Accessories

Type	Item no.	Description	PG
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eTOUCH-PRO-1-B	41432	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, black	E1
eBASIC-1	41278	Built-in switch thermostat with control dial and app function via Bluetooth 4.2, 16 A, 5-28 °C, white	E1
LAVA-DA	46185	Straight ceiling suspension using 4 individual cables; for LAVA BASIC 3.0, LAVA MAXIMUS and LAVA LUX	A7



ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.



CASE STUDY

FAST, EFFICIENT HEAT FOR HEAT WAVE YOGA

LAVA® MAXIMUS high-performance infrared heating | Denmark

THE SITUATION AT THE OUTSET

Heating high-ceilinged, high-volume rooms is always a challenge. And this is exactly what heating a typical fitness studio involves: high-ceilinged rooms with lots of space. The aim was to heat the training area quickly and precisely for Heat Wave yoga sessions. The operators also wanted high-quality infrared panels to ensure an extended lifespan.

When they chose ETHERMA, PureGym opted for a manufacturer providing European premium quality, to generate long-lasting, reliable heat. The advantages of infrared warmth are obvious: if your body is already warmed from the outside with infrared radiation, muscles and joints reach "operating temperature" more quickly, so that fat burning begins immediately and the training is more effective.

THE ETHERMA SOLUTION

For fast, even heating of large, high-ceilinged spaces, ETHERMA LAVA® MAXIMUS high-performance panels, offering extra powerful performance and high surface temperatures, were used in this case to ensure fast, high heat output.

In the studio, a total of 23 panels were installed on the ceiling above the workout areas, which now provide targeted heat for the participants immediately once they are switched on. This means that the room no longer needs to be heated continuously – which saves energy and money.

The LAVA® MAXIMUS can not only be installed on the ceiling as shown above, but also integrated completely into a modular ceiling thanks to the standard dimensions of the ceiling.



LAVA® MAXIMUS
1500 W



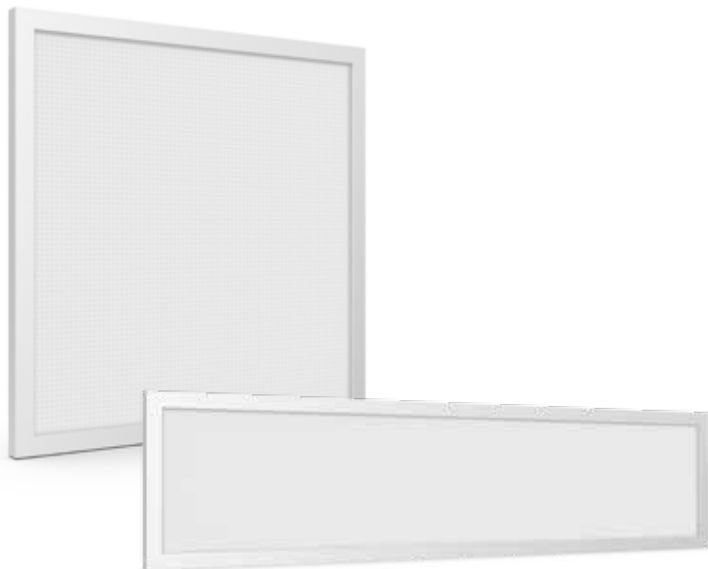
LAVA® MAXIMUS
800 W



Integration in modular ceilings

LAVA® LUX

Infrared heating with integrated LED lights for ceilings



Innovative LAVA® LUX infrared heating combines efficient infrared heating with an exclusive LED light in a single unit thanks to its patented technology. The entire surface of the panel lights up, emitting homogeneous light downward. This combination of light and heat makes the LAVA® LUX particularly suitable for additional and zone heating for offices, surgeries and reception areas as well as for living spaces such as kitchens, bathrooms or home offices. The full-surface light in neutral white (4000 K) guarantees optimal illumination and is therefore ideal for working spaces. Heating and light can be controlled separately or together. The unit can be either installed directly onto the ceiling or suspended. It can also be integrated into modular ceilings, as the panel has the same dimensions as the modular ceiling and can be inserted instead of one of the modules.

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 370 – 400 W
- > Surface temperature: Max. 120 °C at normal indoor temperatures
- > Surface: Safety glass
- > Frame: White aluminium
- > Device/Installation depth: 25/55 mm
- > IP rating: IP 21
- > IEC Protection Class: I
- > Connection: 2 x 1 m, 3 x 1.0 mm² without plug
- > Light colour: 4000 K
- > LED voltage: 48 V DC
- > LED output: 58 W
- > Transformer IP rating: IP 20
- > Transformer protection class: II
- > CRI: Ra > 90
- > Glare rating (UGR): < 19
- > Energy efficiency rating Lighting: E
- > Information acc. to (EU) 2024/1103: Note 2 (see page 9)

BENEFITS OF THIS PRODUCT

- + Efficient infrared heating and LED light in a single unit
- + Ideal for workplace heating with fully-fledged lighting solution
- + Low light consumption thanks to LED technology
- + Full-surface light in neutral white (4000 K)
- + Easy installation on the ceiling or suspended
- + Complete integration in modular ceilings available
- + Fully-fledged building heating system or additional or zone heating
- + High-quality design
- + No service or maintenance required

SELECTION GUIDE

The selection of the output depends on the heat demand in the room (H: 2.5 m) and the use of the heater. The following is a guide:

20-45 W/m ²	Low energy and passive house
50-70 W/m ²	Well insulated living space
75-95 W/m ²	Moderately insulated living space
100-120 W/m ²	Poorly insulated living space

LAVA® LUX infrared heating with LED lighting, connection cable, glass, white (PW)

PG: I4

Type	Item no.	Output (W)	Length (mm)	Height (mm)	Lumen	Weight (kg)
LAVA-LUX-GL-370-30-PW-NW	46186	370	1200	300	1800	9.5
LAVA-LUX-GL-400-62-PW-NW	46187	400	620	620	2500	9.8
LAVA-LUX-GL-370-59-PW-NW	46189	370	595	595	2400	9.5

Accessories

Type	Item no.	Description	PG
eTOUCH-PRO-1-W	41236	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, white	E1
eTOUCH-PRO-1-B	41432	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, black	E1
eBASIC-1	41278	Built-in switch thermostat with control dial and app function via Bluetooth 4.2, 16 A, 5-28 °C, white	E1
LAVA-DIMM-LUX	46408	Dimmer for all LAVA LUX, controllable via push button or hand-held transmitter	A7
LAVA-FHS-LUX	46409	Hand-held transmitter for LAVA-DIMM-LUX dimmer	A7
LAVA-DA	46185	Straight ceiling suspension using 4 individual cables; for LAVA BASIC 3.0, LAVA MAXIMUS and LAVA LUX	A7

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.





LAVA® DESK ZONE

For individual heat zones on your desk /workspace



Cosy, comfortable warmth in your workspace or at your desk – adjusted to the individual needs of each person. The new LAVA® DESK ZONE set consisting of the innovative and elegant LAVA® DESK TOP and LAVA® DESK SUB table infrared heaters creates an individual and at the same time extremely efficient heat zone directly at your desk.

With LAVA® DESK TOP, the emphasis is on design, efficiency and optimal integration into the work area. Free-standing on the desk, it integrates perfectly, looks like a stylish design element and provides warmth for the hands and upper body. In combination with the LAVA® DESKSUB, which offers four simple and flexible installation options under the table, and thus warms the lower body, you can create a cosy heat zone. Both infrared panels – which are also available individually – work best together and operate extremely efficiently, as the heat effect can be felt immediately after switching on, thanks to their new GRP technology. This means that the ambient temperature can be significantly reduced and working areas are only heated when they are actually in use – without compromising on the individual comfort of your employees. Studies (TU Dresden) have shown that this can lead to significant cost savings of up to 30% and a work space can be heated for as little as €50 per year.

Both units are intuitively controlled thanks to a timer function and the LAVA® DESK SUB also comes with three dimmer settings – on the LAVA® DESK TOP this is directly on the unit, while the LAVA® DESK SUB uses a separate operating element on the connection cable.

TECHNICAL DATA LAVA® DESK TOP

- > Voltage: 230 V
- > Output: 50 W
- > Surface temperature: Max. 85 °C at normal indoor temperatures
- > Surface: Smooth surface
- > Frame: aluminium, GRP
- > Frame: White RAL 9016, Black RAL 9005
- > Device/Installation depth: 14 mm
- > IP rating: IP 21
- > IEC Protection Class: II
- > Connection: 1.5 m connection cable
- > Control: Timer 1-2-4 hours
- > Position of controls: Right

TECHNICAL DATA LAVA® DESK SUB

- > Voltage: 230 V
- > Output: 90 W
- > Surface temperature: Max. 85 °C at normal indoor temperatures
- > Surface: Smooth surface
- > Frame: aluminium, GRP
- > Colour: White RAL 9016, Black RAL 9005
- > Device/Installation depth: 14 mm
- > IP rating: IP 21
- > IEC Protection Class: II
- > Connection: 1.5 m connection cable
- > Control: Timer 1-2-4 hours, three-level power control
- > Position of controls: Integrated into connection cable; can be installed either on the unit or on the underside of the table

BENEFITS OF THIS PRODUCT

- + Very short heating phase thanks to GRP technology
 - + Timer (1, 2, 4 hours) and dimmer function (SUB version)
 - + Reduces the room temperature thanks to individual comfort zones directly on the desk – with no loss of comfort
 - + Considerable potential savings of up to 30% of total energy requirement (TU Dresden study)
 - + High cost efficiency – only provides heat when the workspace is occupied
 - + Individual perceptions of warmth are vital – this creates employee satisfaction
 - + Maintenance-free, easy to install with the accessories provided, ready to use immediately
 - + Integrates perfectly into the office landscape thanks to modern industrial design
 - + Available in white and monitor black
- > Information acc. to (EU) 2024/1103: Note 4 (see page 9)

LAVA® DESK ZONE table infrared heating, connection cable, white (W) or black (B)

PG: I4

Type	Item no.	Output (W)	Length (mm)	Height (mm)	Weight (kg)
LAVA-DESK-ZONE-W	46380	LAVA® DESK ZONE set consisting of LAVA® DESK TOP and LAVA® DESK SUB, white			
LAVA-DESK-ZONE-B	46381	LAVA® DESK ZONE set consisting of LAVA® DESK TOP and LAVA® DESK SUB, black			
LAVA-DESK-TOP-50-W	46376	50	600	120	0.6
LAVA-DESK-TOP-50-B	46377	50	600	120	0.6
LAVA-DESK-SUB-90-W	46378	90	600	200	0.9
LAVA-DESK-SUB-90-B	46379	90	600	200	0.9

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

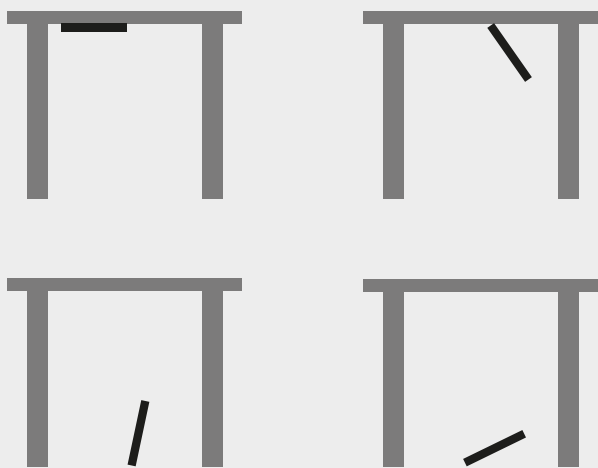


LAVA® DESK ZONE

CREATE YOUR OWN
MICROCLIMATE ON YOUR DESK

LAVA® DESK SUB INSTALLATION OPTIONS

Thanks to its flexible mounting bracket, the infrared panel can be installed either under the table or on the floor – just the way you want it.



LAVA® DESK ZONE HEAT ZONE



INFRARED HEATER

for outdoor areas



ETHERMA EXO OVERVIEW

The diversity of ETHERMA infrared heaters at a glance

	EXO DARK	EXO PRO	EXO COMFORT	EXO BASIC
Output	2000 W	2000/2500 W	1400/1800 W	1800 W
IP rating	IP 65	IP 65	IP 65	IP 65
Switch	-	-	RC model only	-
Timer	-	-	RC model only	-
3-step dimmer	RC model only	RC model only	-	-
Tube technology	Ultra-low-glare infrared tube	Premium carbon tube	Infrared halogen tube - Gold	Infrared halogen tube
Heatable surface*	14 m²	16/18 m²	10/12 m²	12 m²
ø Heating tube lifespan	5,000 h	10,000 h	5,000 h	5,000 h
Number of T-tilting brackets	2	2	1	1

*At an ambient temperature of 15°C, ceiling-mounted at a height of 2.2 m (up to 2,000 W) to 2.5 m (2,500 W), vertical radiation, hardly any wind

ETHERMA EXO DARK



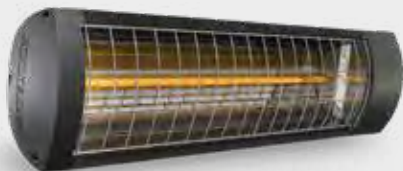
ETHERMA EXO PRO



ETHERMA EXO COMFORT

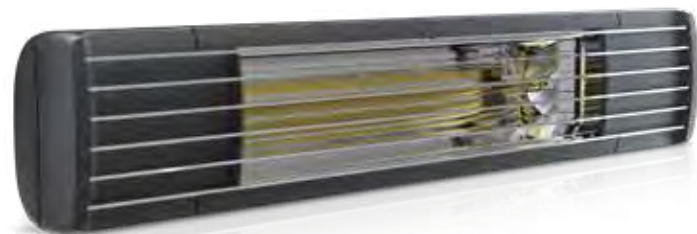


ETHERMA EXO BASIC



ETHERMA EXO DARK

Premium dark heater with & without integrated control



The ETHERMA EXO DARK premium dark heater is the optimal solution for wind-protected outdoor areas. The ultra-low-glare infrared tube is a sure-fire winner with its pleasant infrared warmth and minimal residual light of only 1 lux/kW/m². The RC version of this radiant heater can be easily dimmed in three settings (33/66/100% of maximum output) using the optional remote control. The device is made from high-quality, corrosion-proof aluminium, has a striking industrial design and is protected from projected water thanks to its IP 65 protection class.

TECHNICAL DETAILS

- > Voltage: 230 V
- > Heating tube: Ultra low glare infrared tube, Ø Heating tube lifespan 5,000 h
- > Residual light: 1 lux/kW/m²
- > Power consumption: 2000 W
- > Colours: White RAL 9016, Black RAL 9011
- > On/Off switch: No
- > IP rating: IP 65
- > Connection: Connection cable with plug 180 cm

BENEFITS OF THIS PRODUCT

- + Innovative "Ultra-Low-Glare" heating element
- + More comfort at the push of a button, immediate constant heat without light component
- + Suitable for ceiling and wall installation
- + New, simple quick assembly system with two T-tilting brackets
- + RC version adjustable with remote control (433 MHz)
- + RC version dimmable in 3 steps (33% / 66% / 100%)

AREA OF USE

- + Protected outdoor areas such as pavilions or covered seating areas
- + Heatable surface: up to 14 m²



4-channel wireless remote control
(not included in the scope of delivery.)

ETHERMA EXO DARK premium dark heater without switch

PG: R2

Type	Item no.	Output (W)	Width (mm)	Height (mm)	Depth (inc. bracket) (mm)	Weight (kg)
ET-EXO-DARK-2000-W	45012	2000	930	155	111 (250)	5.63
ET-EXO-DARK-2000-B	45013	2000	930	155	111 (250)	5.63

ETHERMA EXO DARK RC premium dark heater with radio control

PG: R2

Type	Item no.	Output (W)	Width (mm)	Height (mm)	Depth (inc. bracket) (mm)	Weight (kg)
ET-EXO-DARK-2000RC-W	45015	2000	930	155	111 (250)	5.86
ET-EXO-DARK-2000RC-B	45016	2000	930	155	111 (250)	5.86

W: White B: Black

Accessories

PG: A8

Type	Item no.	Description
ET-RC-EXO-RC	45050	Radio remote control for ETHERMA EXO radio controls
ET-LM-EXO-DARK-2000	45042	Infrared tube with 2000 W for ETHERMA EXO DARK dark heater

ETHERMA NOTE: For the initial start-up of the EXO DARK RC models radio control is required.

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

TECHNICAL DETAILS

- > Voltage: 230 V
- > Heating tube: Premium carbon tube
- > Power consumption: 2000/2500 W
ø Heating tube lifespan 10,000 h
- > Colours: White RAL 9016, Black RAL 9011
- > On/Off - switch: No
- > IP rating: IP 65
- > Connection: Connection cable with plug 180 cm

BENEFITS OF THIS PRODUCT

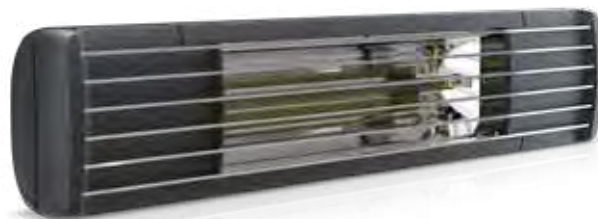
- + Optimal heat density thanks to innovative infrared premium carbon tube
- + No visible light radiation when in use
- + The premium infrared carbon tube has an exceptionally long lifespan
- + For ceiling and wall installation
- + New, simple quick assembly system with two T-tilting brackets
- + RC version adjustable with remote control (433 MHz)
- + RC version dimmable in 3 steps (33 % / 66 % / 100 %)

AREA OF USE

- + Outdoor areas such as terraces, balconies, gardens, campsites, holiday homes or restaurants.
- + Heatable surface: up to 16 m² at 2000 W
up to 18 m² at 2500 W

ETHERMA EXO PRO

Premium infrared heater with & without integrated control



The ETHERMA EXO PRO premium infrared heater has been specially developed for use in outdoor areas such as patios, terraces, restaurants or ski cabins. Because of its wavelength, its highly efficient, short-wave infrared heat radiation penetrates the air particularly efficiently, generating a noticeable feeling of warmth very rapidly, and thus guaranteeing extensive operating cost savings compared to gas heaters or mushroom heaters. Infrared radiant heaters can be used particularly flexibly in outdoor areas, and are sure-fire winners thanks to their lack of maintenance requirement. The ETHERMA EXO PRO is also available with an integrated wireless dimmer option, so that your heat radiators can be easily controlled via remote control and dimmed in three settings (33/66/100%). The unit is made from high-quality, corrosion-resistant aluminium and is projected water-proof thanks to its IP 65 protection class, making it suitable for year-round use in outdoor areas. The innovative carbon heating tubing reliably generates maximum heat output with only minimal residual light, and has an above-average service life of 10,000 hours. It is surrounded by the reflector, ensuring that the heat is emitted forwards in a targeted manner.



4-channel wireless remote control
(not included in the scope of delivery.)

ETHERMA EXO PRO premium infrared heater without switch

PG: R2

Type	Item no.	Output (W)	Width (mm)	Height (mm)	Depth (inc. bracket) (mm)	Weight (kg)
ET-EXO-DARK-2000-W	45000	2000	830	155	111 (250)	5.00
ET-EXO-PRO-2000-B	45001	2000	830	155	111 (250)	5.00
ET-EXO-PRO-2500-W	45002	2500	930	155	111 (250)	5.67
ET-EXO-PRO-2500-B	45003	2500	930	155	111 (250)	5.67

ETHERMA EXO PRO RC premium infrared heater with integrated radio control

PG: R2

Type	Item no.	Output (W)	Width (mm)	Height (mm)	Depth (inc. bracket) (mm)	Weight (kg)
ET-EXO-PRO-2000RC-W	45006	2000	830	155	111 (250)	5.23
ET-EXO-PRO-2000RC-B	45007	2000	830	155	111 (250)	5.23
ET-EXO-PRO-2500RC-W	45008	2500	930	155	111 (250)	5.90
ET-EXO-PRO-2500RC-B	45009	2500	930	155	111 (250)	5.90

W: White B: Black

Accessories

PG: A8

Type	Item no.	Description
ET-RC-EXO-RC	45050	Radio remote control for ETHERMA EXO radio controls
ET-LM-EXO-PRO-2000	45040	2000 W carbon tube for ETHERMA EXO PRO infrared heater
ET-LM-EXO-PRO-2500	45041	2500 W carbon tube for ETHERMA EXO PRO infrared heater

ETHERMA NOTE: For the initial start-up of the EXO PRO RC models radio control is required

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

ETHERMA EXO COMFORT

Comfort infrared heater with and without integrated control



The ETHERMA EXO COMFORT offers perfect value for money and optimal comfort. Thanks to its versatility, it can be used in countless individual applications in private and commercial outdoor areas. The gold-coated infrared halogen tube combined with the new, optimised reflector offers highly effective forward heat concentration. The high-quality aluminium body ensures that the heater not only has a modern design, but also an extended service life. The unit is installed using a T-tilting bracket, to ensure targeted use of heat radiation. On the RC model, the unit is operated using a multifunction electronic switch on the rear of the device, which has an integrated timer as well as a short-heating function. Alternatively, it can also be controlled by means of a remote control (optional). Its compact construction, low weight and integrated safety shutdown makes the RC model ideal for installation on restaurant umbrellas and awnings.

TECHNICAL DETAILS

- > Rated voltage: 230 V
- > Heating tube: Infrared halogen tube - Gold, Ø Heating tube lifespan 5,000 h
- > Power consumption: 1400/1800 W
- > Colours: White RAL 9016, Black RAL 9011
- > Connection: Connection cable with plug 180 cm
- > IP rating: IP 65

BENEFITS OF THIS PRODUCT

- + Innovative Infrared halogen tube (gold)
- + Maximum heat radiation forwards thanks to optimised reflector
- + Fast heat reaction
- + Compact construction
- + Suitable for ceiling and wall installation
- + T-tilting bracket for simple installation

EXO COMFORT RC MODEL

- + With ON/OFF switch
- + Electronic safety shutdown in the event of a change in location or position thanks to the smart position sensor
- + Integrated 30, 60 or 90-minute timer
- + 5-minute short heating function (ideal for smoking areas)
- + Optional radio remote control (433 MHz)

AREA OF USE

- + Outdoor areas such as terraces, balconies, gardens, campsites, holiday homes or restaurants - also for umbrellas and awnings.
- + Heatable surface: up to 10 m² at 1400 W
up to 12 m² at 1800 W

ETHERMA EXO COMFORT infrared heater without switch

PG: R1

Type	Item no.	Output (W)	Width (mm)	Height (mm)	Depth (inc. bracket) (mm)	Weight (kg)
ET-EXO-COMFORT-1400-W	45052	1400	540	110	76 (164)	2.20
ET-EXO-COMFORT-1400-B	45053	1400	540	110	76 (164)	2.20
ET-EXO-COMFORT-1800-W	45054	1800	540	110	76 (164)	2.20
ET-EXO-COMFORT-1800-B	45055	1800	540	110	76 (164)	2.20

W: White B: Black

ETHERMA EXO COMFORT RC infrared heater with integrated radio control

PG: R1

Type	Item no.	Output (W)	Width (mm)	Height (mm)	Depth (inc. bracket) (mm)	Weight (kg)
ET-EXO-COMFORT-1400RC-W	45020	1400	540	110	76 (164)	2.40
ET-EXO-COMFORT-1400RC-B	45021	1400	540	110	76 (164)	2.40
ET-EXO-COMFORT-1800RC-W	45023	1800	540	110	76 (164)	2.40
ET-EXO-COMFORT-1800RC-B	45024	1800	540	110	76 (164)	2.40

W: White B: Black

Accessories

PG: A8

Type	Item no.	Description
ET-RC-EXO-RC	45050	Radio remote control for ETHERMA EXO radio controls
ET-LM-EXO-COMFORT-1400	45043	1400 W infrared tube for ETHERMA EXO COMFORT infrared heater
ET-LM-EXO-COMFORT-1800	45044	1800 W infrared tube for ETHERMA EXO COMFORT infrared heater



4-channel wireless remote control
(not included in the scope of delivery.)



TECHNICAL DETAILS

- > Voltage: 230 V
- > Heating tube: Infrared halogen tube,
Ø Heating tube lifespan 5,000 h
- > Power consumption: 1800 W
- > Body colour: Black anodised,
similar to RAL 9011
- > Colour of end caps: nano-anthracite, similar to RAL 7016
- > On/Off - switch: No
- > Connection: Connection cable with plug 180 cm
- > IP rating: IP 65

BENEFITS OF THIS PRODUCT

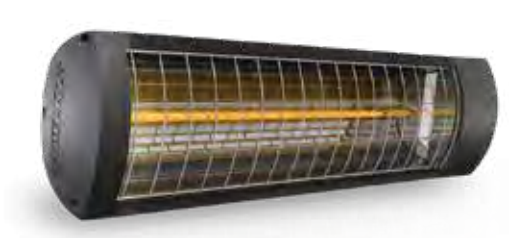
- + Innovative infrared halogen tube
- + Maximum heat radiation forwards thanks to new reflector
- + Fast heat reaction
- + For ceiling and wall installation
- + T-tilting bracket for simple installation

AREA OF USE

- + Outdoor areas such as terraces, balconies, gardens, campsites, holiday homes or restaurants.
- + Heatable surface: up to 12 m²

ETHERMA EXO BASIC

Outdoor infrared heater



The ETHERMA EXO BASIC is the affordable entry version for individual applications in outdoor areas. The device comes with a low-glare infrared halogen lamp, ensuring that, for all the high output, the red light fraction is minimised. The high-quality aluminium body ensures that the heater not only has a modern design, but also an extended service life.

ETHERMA EXO BASIC INFRARED HEATER

PG: R1

Type	Item no.	Output (W)	Width (mm)	Height (mm)	Depth (inc. bracket) (mm)	Weight (kg)
ET-EXO-BASIC-1800-NA	45030	1800	423	110	76 (164 mm)	1.50

NA: Nano-anthracite

Accessories

PG: A8

Type	Item no.	Description
ET-LM-EXO-BASIC-1800	45045	1800 W infrared tube for ETHERMA EXO BASIC infrared heater





ETHERMA EEZ

Industrial ceiling heater



The EEZ radiant ceiling heater has been developed to provide complete as well as additional heat and as protection against the cold drafts of windows in environments such as department stores, assembly halls and industrial buildings, etc. EEZ radiant heaters give an even, pleasant heat and can thus create a wide range of different comfort zones with a directed spot or surface heating.

TECHNICAL DETAILS

> Voltage:	230, 400 V
> Output	800 – 3600 W
> Max. element temp.:	290 °C
> Colour 800-2000 W:	Traffic white, RAL 9016
> Colour 2400-3600W:	Anodised steel panel
> Mounting height:	2.5 - 35m
> IP Rating:	IP 44
> Permanent connection	
> Information acc. to (EU) 2024/1103:	Note 2 (see page 9)

BENEFITS OF THIS PRODUCT

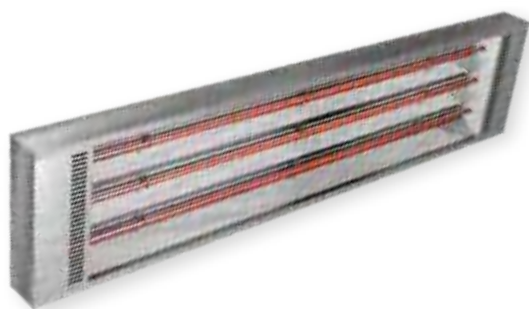
- + Full area heating or zone heating
- + Hygienic room climate
- + Dark radiator
- + Rust-proof body
- + Straightforward installation
- + Surface structure optimises radiation

Radiant ceiling heater EEZ, 230 V/400 V, IP 44

Type	Item no.	Output (W)	Voltage (V)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	PG
EEZ-800	38206	800	230	650	290	50	6	R3
EEZ-1200	38207	1200	230	960	290	50	8.5	R3
EEZ-1600	38208	1600	230	1360	290	50	11.5	R3
EEZ-2000	38209	2000	230	1680	290	50	14	R3
EEZ-2400	46047	2400	230	1680	290	50	14	R3
EEZ-3600	38907	3600	230 400	1680	430	50	20	R3
EEZ-WH	39173	Wall bracket EEZ-800 / 1200 / 1600 / 2000 / 2400 / 3600, traffic white, RAL 9016, 1 PU (2 pc.)						R3
EEZ-DH	39342	Suspension device for EEZ ceiling radiant heater, 1 VPE (4 pcs.), galvanised, unpainted						A5

ETHERMA EIH

Industrial ceiling heater



The EIH infrared heater is suitable for the complete or additional heating of rooms with large amounts of space and high ceilings. These heaters can also be used in the open air, e.g. in grandstands or loading ramps to keep them dry and frost-free. Robust industrial design: The blank anodised aluminium reflector provides optimal heat distribution.



TECHNICAL DETAILS

> Voltage:	230, 400 V
> Output	3000 – 6000 W
> Max. element temp.:	750 °C
> Colour:	Anodised steel panel
> Mounting height:	3 - 35 m
> IP Rating:	IP 44
> Permanent connection	
> Information acc. to (EU) 2024/1103:	Note 2 (see page 9)

BENEFITS OF THIS PRODUCT

- + For rooms with large amounts of space and high ceilings
- + Good warmth distribution
- + Rust-proof body
- + Robust design
- + Adjustable angle
- + Also for outdoor areas

Radiant ceiling heater EIH, 230 V, IP 44

Type	Item no.	Output (W)	Voltage (V)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	PG
EIH-3000	38198	3000	230/400	1030	300	80	5.5	R3
EIH-4500	38199	4500	400	1360	300	80	7.0	R3
EIH-6000	38200	6000	400	1680	300	80	8.5	R3
EIHG-3000	38201	Protective grill for EIH-3000						R3
EIHG-4500	38202	Protective grill for EIH-4500						R3
EIHG-6000	38203	Protective grill for EIH-6000						R3
ET-S123	34976	3-phase switch						E2

HEAT PUMP

ETHERMA FIRE+ICE

Heating and cooling in a single device



The FIRE+ICE living room heat pump with air conditioning function is an innovative monoblock air heat pump with no external unit. It is perfect for rooms up to 35 m² in size (such as living rooms or bedrooms) and is the optimal decentralised solution for individual residential units – either for older buildings or for easy, rapid apartment renovations. Regardless of whether you are a private apartment owner or a housing cooperative – with any number of apartments – who want to break their dependence on oil, gas or a night storage heater.

How it works: The device draws in the outside air and extracts the heat from it. In the next step, this is fed into the room air, and the cool outside air is directed back into the open air again – all of this in two completely separate air circuits. When outdoor temperatures are cooler, the integrated additional heating element is activated automatically as required. At the same time, FIRE+ICE is a fully-fledged air conditioning unit, making it perfect for year-round use.

Installation: FIRE+ICE can be easily installed on the inside of any vertical external wall with an even surface: two core holes for supply and exhaust air (200 mm respectively) as well as a hole for condensation water (20 mm) – and that's it! Unattractive, bulky outdoor units, a familiar sight with conventional heat pumps or air conditioning units, are therefore a thing of the past. Installation can be performed for example by an electrician or fitter.

TECHNICAL DETAILS

- > Voltage: 230 V
- > Fuse rating (inert): 16 A
- > Max. connected load without/with additional electric heater: 1.09/2.89 kW
- > Additional heating output: 0.9/1.8 kW
- > Max. heat output
at outdoor temperature of 7 °C
 without/with additional electric heater: 3.05/4.85 kW
- > Max. heat output
at outdoor temperature of 2 °C
 without/with additional electric heater: 2.51/4.31 kW
- > Max. heat output
at outdoor temperature of -7 °C
 without/with additional electric heater: 1.60/3.40 kW
- > Max. cooling output at 35/27°C: 3.10 kW
- > COP at 7 °C
 (Coefficient of Performance): 3.28
- > EER (Energy Efficiency Ratio): 3.25
- > Indoor noise pressure level
 (measured according to ISO 7779): 27.0-41.0 dB(A)
- > Noise pressure level
 at maximum fan speed: Up to 63 dB(A)
- > PFAS-free refrigerant: R32 (0.5 kg)
- > Air hole diameter
 External wall (2x): 200 mm
- > Condensation line diameter
 External wall (1x): 20 mm
- > Weight: 41 kg
- > Plug connection cable: 1.7 m
- > IP rating: IPX0
- > Energy efficiency class - heating: A
- > Energy efficiency class - cooling: A+

BENEFITS OF THIS PRODUCT

- + Monoblock air heat pump with no external unit, for rooms up to 35 m² (depending on structural conditions)
- + Heating and air conditioning unit all in one
- + The perfect de-centralised heating solution for the renovation of individual apartments (private or housing association)
- + Simple installation on the inside of external walls, no refrigeration engineer required
- + Protection against cold bridges thanks to insulated wall duct
- + Flexible control using the touchscreen display on the device or remote control

ETHERMA FIRE+ICE living room heat pump with air conditioning function, 230 V

(The scope of delivery includes all parts required for installation, including the drilling template, 2 outer covers, insulated wall duct (1 m) and installation rail, as well as remote control incl. battery.)

PG: HC1

Type	Item no.	Width (mm)	Height (mm)	Depth (mm)
ET-HP-FIRE+ICE2-5-W	48001	1010	549	165

Accessories

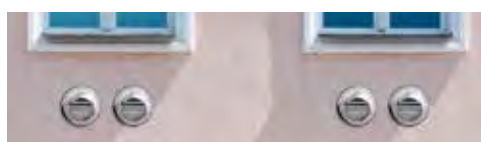
PG: A10

Type	Item no.	Description
ET-HP-FIRE+ICE-AP-ISOPIPE-160	48094	Insulated wall duct for 200 mm bore hole, additionally required for wall thicknesses above 50 cm, EPS material, 1 m length, packing unit: 1 unit (Fig. 1)
ET-HP-FIRE+ICE-AP-CLS	48099	Cover for underside of unit, privacy screen for elevated installations, packing unit: 1 unit (no image)

1.



2.



fireice.etherma.com/en/



CASE STUDY

WARMTH AND AIR CONDITIONING FOR YOUR TINY HOME

Wolf Tiny House | Austria

THE SITUATION AT THE OUTSET

A Tiny House is more than simply a minimalist living concept – it combines functionality, comfort and sustainability in the smallest space. It is through the interplay of innovative technologies in particular that these small houses can truly reveal their benefits. The Tiny House by Wolf offers not just a compact and carefully considered design but also prioritises efficiency, comfort and sustainability in the heating system. This is why ETHERRMA was chosen.

THE CHALLENGE

The “Tiny House” concept was invented in the USA. In Japan living in the smallest spaces has long been commonplace and the concept is finding ever more adherents in Europe. The modern Wolf Tiny Houses offer between 34 and 62 m² of space, making them ideal for anyone who wishes to live efficiently, consciously and with respect for the environment without relinquishing comfort. And naturally the heating system must also fulfil these requirements. Space is a valuable asset here and must not be wasted. Space for technology or a boiler room, which is always necessary with water-based heating systems, is not available. A heating system that can also cool was also desirable.

THE ETHERRMA SOLUTION

The heating system for such a pioneering project can only be electrical: the innovative FIRE+ICE living space heat pump, which does not have an unattractive, bulky outdoor unit, is the ideal solution which ticks every box and can both heat and cool. In this way a small living space becomes a place which offers maximum comfort for minimal energy use. The bathroom in the Wolf Tiny House is built using the modular construction, with custom-made ETHERRMA heat conductors integrated into the floor plates for the electrical underfloor heating. Because there's no need to suffer from cold feet in a small space either. Electrical heating systems also offer the big advantage of simple combination with a PV system – this creates independence and is an important step towards even greater efficiency.







ETHERMA DUO PLUS S2

Convector storage heating with radiant heat



ETHERMA DUO PLUS S2 convector storage heating is a modern direct heating unit, with heating technology that will win you over in three different ways: the unique combination of convection, radiant heat and heat storage not only offers more in terms of performance, but also optimises operating costs. This high-performance heating unit saves space thanks to its compact structure and generates pleasant radiant heat at the same time. It is particularly suitable as efficient interim heating for large rooms and is an ideal replacement for outmoded storage heaters. The heating unit can be installed horizontally on the wall and is connected by means of a connection cable with a plug.

The ETHERMA DUO PLUS S2 has a switch with three settings: Off / No internal control / With internal control. The "No internal control" setting is used when the ETHERMA DUO PLUS S2 is controlled using an external room thermostat. Make sure that the room thermostat is Ecodesign-compliant.

With internal control setting functions: If there is a sudden drop in temperature, e.g. because of an open window, the unit switches off automatically. In addition, the ETHERMA DUO PLUS S2 can be adjusted to your individual needs using the daily and weekly programme. When switched to Off, the unit's frost protection mode is enabled.



TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 1500 W, 2000 W
- > Temperature range: 5 – 30 °C
- > Frost protection function: 7 °C
- > Surface temperature: Max. 85 °C at normal indoor temperatures
- > Surface: 12 mm stone, white similar to RAL 9003
- > Device/Installation depth: 105 mm
- > IP rating: IP 24
- > IEC Protection Class: II
- > Connection: Connection cable with plug 1 m

BENEFITS OF THIS PRODUCT

- + Powerful convector with additional radiant heat
- + Space-saving
- + Frameless Infinity design
- + Daily and weekly programme
- + Temperature drop detection
- + Silent control thanks to TRIAC technology
- + Switch: Off / No int. control / With int. control
- + Highest safety against breakage and overheating
- + No service or maintenance required
- + Keylock display

SELECTION GUIDE

The selection of the power output depends on the heat demand of the room (height: 2.5 m) and the use of the heater. The following is a guide:

- | | |
|--------------------------------|------------------------------|
| 30-55 W/m² | Low energy and passive house |
| 60-80 W/m² | Well insulated housing |
| 85-105 W/m² | Moderately insulated housing |
| 110-130 W/m² | Poorly insulated housing |

ETHERMA TIP:
The ETHERMA DUO PLUS S2 is the ideal substitute for outmoded storage heaters – no soot build-ups, pinpoint accurate temperature control, space-saving and high performance.

ETHERMA DUO PLUS S2 convector storage heating, 1500 - 2000 W, 230 V, IP 24

PG: D6

Type	Item no.	Output (W)	Width (mm)	Height (mm)	Weight (kg)
ET-DUO-PLUS-S2-1500-W	46728	1500	1010	510	24
ET-DUO-PLUS-S2-2000-W	46729	2000	1010	510	24

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 500 – 2000 W
- > Temperature range: 7 – 27 °C
- > Control: Electronic thermostat
- > Surface: Steel housing, powder coated
- > Colour: Traffic white RAL 9016
- > Device depth: 105 mm
- > IP rating: IP 24
- > IEC Protection Class: II
- > Connection: 2 pin + working length 90 cm

BENEFITS OF THIS PRODUCT

- + Fast heating due to the Monobloc heating element
- + No wall discolouration as heat gets released to the front
- + Accurate electronic room temperature measurement
- + 4 modes: Comfort, reduction, frost protection, off through control line or programming on device
- + Weekly program optimizes operating times
- + Suitable for bathrooms
- + Child lock
- + Ecodesign guidelines compliant

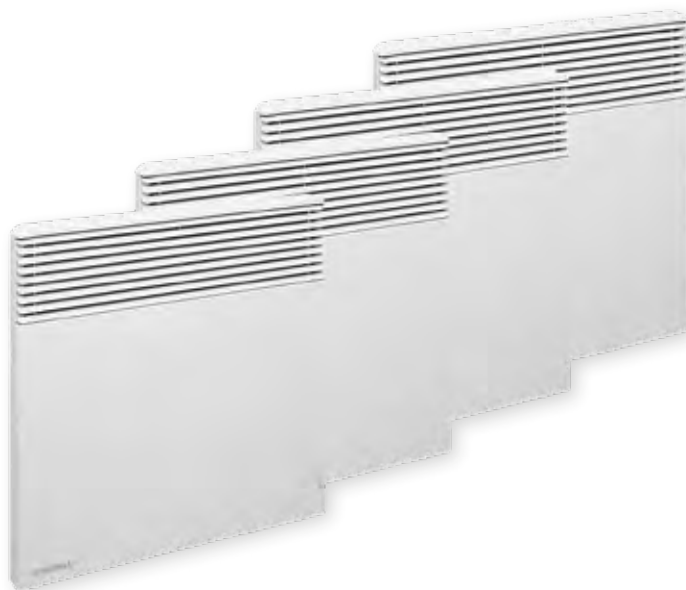
SELECTION GUIDE

The selection of the power output depends on the heat demand of the room (height: 2.5 m) and the use of the heater. The following is a guide:

30-55 W/m²	Low energy and passive house
60-80 W/m²	Well insulated housing
85-105 W/m²	Moderately insulated housing
110-130 W/m²	Poorly insulated housing

ETHERMA SERENA ECO

Convector with electronic thermostat



The compact convector for fast heating of living areas, cellars, toilets, bedrooms and even hobby rooms. The design is ideal for bathrooms as the devices are splash-resistant. The monobloc heating element heats the room air very quickly and efficiently. The ventilation grilles release the warm air from the front into the room through natural convection and thus prevent discolouration on the wall. The electronic thermostat ensures accurate room temperature measurement and the setting of the 4 operating modes: Comfort, reduction, frost protection and Off. The thermostat can be adapted to individual needs by means of a weekly program. The temperature drop detection also optimises the use of the heater, thus complying with the Ecodesign Directive.



Electronic thermostat with child lock

Convactor Serena Eco, 500 – 2000 W, 230 V, IP 24

PG: D1

Type	Item no.	Output (W)	Width (mm)	Height (mm)	Weight (kg)
SN-500-Eco	40513	500	340	440	3.7
SN-1000-Eco	40514	1000	420	440	4.3
SN-1500-Eco	40515	1500	580	440	5.6
SN-2000-Eco	40516	2000	740	440	6.7



ETHERMA BHK

Bathroom heater



The BHK bathroom heater in an attractive design without visible welding seams is an excellent heat source for in the bathroom. It also provides cuddly warm towels.

It is frost-proof up to -20 °C and filled with a heat transfer fluid. The screwed-in heating element can be set to 45 °C or 60 °C radiator temperature with an attached control thermostat. Due to the circulation of the fluid the lowest and highest bars are cooler than the other bars. The device has an On/Off switch with LED display and a timer function for 2 hours. The mounting material for easy installation is included.

TECHNICAL DETAILS

- > Voltage: 230 V/50 Hz
- > Output: 400 – 1000 W
- > Colour: Traffic white RAL 9016
- > Device depth: 85 mm
- > Control: 2 steps, 45 °C or 60 °C, timer function 2 hours
- > IP rating: IP X5
- > IEC Protection Class: I
- > Connection: Connection cable (with plug) 1.5 m right
- > Information acc. to (EU) 2024/1103: Note 3 (see page 9)

BENEFITS OF THIS PRODUCT

- + Suitable for bathrooms
- + 2-step control for radiator temperature
- + Optional infrared control available
 - Ecodesign guidelines-compliant in combination with infrared control
 - Week and day programming
 - Temperature drop detection



BHK-TH infrared room thermostat

Tip: Ecodesign-compliant through BHK-TH thermostat. This controller fulfils the following control functions according to (EU) 2024/1103: TW (f5)

Bathroom radiators BKH, 400 – 1000 W, 230 V, IP X5

PG: D2

Type	Item no.	Output (W)	Width (mm)	Height (mm)	Weight (kg)
BHK-53/78	40540	400	530	780	8
BHK-53/119	40542	600	530	1190	12
BHK-63/119	40543	800	630	1190	14
BHK-63/168	40544	1000	630	1680	20
BHK-TH	40598	Infrared room thermostat, LCD display with clock and week programme			

ETHERMA FW

Frost monitor



The ETHERMA frost monitor EFW is suitable for frost-proofing your guest toilet, cellar, conservatory, and other such areas. The thermostat is continuously adjustable, and the indicator lights when heating.



TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 500 W
- > Thermostat: 5-15 °C
- > IP rating: IP 21
- > IEC Protection Class: II
- > Connection: Connection cable with plug 1 m
- > Certification: EC compliant

Frost monitor EFW, 500 W, 230 V, IP 21

PG: D1

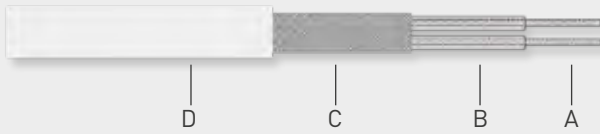
Type	Item no.	Output (W)	Length (mm)	Width (mm)	Depth (mm)
EFW-500	36186	500	240	240	105



ET-ZESTO-40-160-1-CR



ET-ZESTO-40-160-1-CR-NT



- A Resistance cables
- B TPCP internal insulation
- C Protective sleeve made of tin-plated copper shield
- D TPCP external insulation

TECHNICAL SPECIFICATIONS - HEATING MAT

- > Voltage: 230 V
- > Power consumption: 320 W
- > Wall temperature: approx. 55 °C
- > Limit temp.: approx. 60 °C
- > Heating mat thickness: approx. 4 mm
- > Mat dimensions: 160 x 40 cm
- > Grid type: 12 x 12 mm, self-adhesive
- > IP rating: IP X7
- > Safety function: residual-current circuit-breaker, 30 mA
- > Connection: 4 m; 2 x 1.0 mm²/1.5 mm² + protective netting
- > Information acc. to (EU) 2024/1103: Note 1 (see page 9)

BENEFITS OF THIS PRODUCT

- + A harmonious interior scene thanks to wall-integrated heating systems
- + Elegant KEUCO towel rail included – more optional units possible
- + Designer mounted thermostat with 2 relay outputs included
- + Pleasant infrared radiant heat

POSSIBLE APPLICATIONS

To dry and warm your towels.

BUILT-IN HAND TOWEL WARMER

ETHERMA ZESTO

Towel warmer incl. designer thermostat & KEUCO towel rail



The flush-mounted ZESTO towel warmer is a wall heating set consisting of a heating mat and limiter (approx. 60 °C), an eTOUCH HYBRID designer fixed thermostat with its sophisticated look and smart button programming, a high-quality, chrome-plated KEUCO towel rail, and an insulating plate.

The netted heating mat and insulating plate are mounted flush with the wall. The thin-bed netted heating mat can be laid in tiling adhesive under panels or under plaster. The designer KEUCO towel rail is then surface-mounted.

The eTOUCH HYBRID designer fixed thermostat is included in the set to control the ZESTO towel warmer. This includes an OLED display, programmable switch-on/-off times, and complies with the Ecodesign Directive. The set can also be ordered without a thermostat in the ET-ZESTO-40-160-1-CR-NT version.

ZESTO towel warmer, 230 V

PG: D2

Type	Item no.	Output (W)	Length (cm)	Width (cm)	Towel rail
ET-ZESTO-40-160-1-CR	46417	320	160	40	1
ET-ZESTO-40-160-1-CR-NT	46418	320	160	40	1

NT: No thermostat

Accessories

PG: A7

Type	Item no.	Description
HALTI-GC-60-ZESTO	46028	KEUCO towel rail for ZESTO towel warmer, chrome-plated, closed version, W 65 cm



eTOUCH HYBRID





ETHERMA KST

Infrared dark emitter - church heating system



Gentle to the building, inexpensive to operate, durable and safe - this characterises the KST church heating. Electrical connection via mains plug, on-site wiring layout, easy and fast installation without needing to open the device, integrated overheating protection with automatic reset. Break-resistant special heating element with no glowing heating coils with high heat output; angle joint included in the scope of delivery.

ATTENTION:
Item is individually manufactured and cannot be returned.

TECHNICAL DETAILS

- > Rated voltage: 230 V
- > Output 400 W/lfm
- > Heat output: Downwards and forwards
- > Surface temperature: 70 °C
- > Colour: Clay brown, RAL 8003
- > Body: Zinc-coated steel sheet
- > Dimensions: 185 mm x 60 mm
- > IP Rating: IP 21
- > IEC Protection Class: I
- > Information acc. to (EU) 2024/1103: Note 2 (see page 9)



KST with left-side connection

Type	Item no.	Output (W)	Length (mm)	PG
KST050L	30793	200	500	D3
KST060L	30891	240	600	D3
KST070L	30828	280	700	D3
KST080L	30712	320	800	D3
KST090L	30820	360	900	D3
KST100L	30718	400	1000	D3
KST110L	31082	440	1100	D3
KST120L	30822	480	1200	D3
KST130L	30823	520	1300	D3
KST140L	30824	560	1400	D3
KST150L	30825	600	1500	D3
PG-ST	34551	Connection cable 0.5 m		A9

KST with right-side connection

Type	Item no.	Output (W)	Length (mm)	PG
KST050R	34152	200	500	D3
KST060R	32335	240	600	D3
KST070R	32333	280	700	D3
KST080R	32332	320	800	D3
KST090R	33053	360	900	D3
KST100R	31044	400	1000	D3
KST110R	32334	440	1100	D3
KST120R	33530	480	1200	D3
KST130R	32599	520	1300	D3
KST140R	31639	560	1400	D3
KST150R	31022	600	1500	D3
PG-ST	34551	Connection cable 0.5 m		A9

NOTE
Please note the minimum distances around the heater as per installation instructions.





ET-RRU-xxx(x)



ET-RDA2-xxx(x)



FINNED PIPE RADIATOR

FINNED PIPE RADIATOR

stainless steel



For heating of damp spaces such as greenhouses, for protection of sensitive plants from frost, for heating in harsh operating environments such as petrol stations, crane cabs, construction site offices and foreman's offices in workshops. The integrated ceramic heating element provides good heat distribution. Robust stainless high-grade steel 1.4512 radiators; all installation points must be dust and water-proof; suitable for wall and floor installation.

TECHNICAL DETAILS

- > Voltage: 230 V
- > Surface: Stainless steel
- > Surface temperature: Max. 185 °C (RRU, RDA2)
- > Connection: Fixed wiring or plug; connection cable (no plug) not included in the scope of delivery
- > Fin diameter: 120 mm
- > IP rating: IP 66/67
- > Information acc. to (EU) 2024/1103:
For basic model Note 2 (see page 9)

PRODUCT ADVANTAGES

- + Robust, dust and water-proof
- + Corrosion resistance - high-grade stainless steel
- + ET-RDA2 including frost protection control +7°C
- + Good heat distribution
- + Optional floor and horizontal wall mounting

ET-RRU, no controller, IP 66/67

PG: D4

Type	Item no.	Output (W)	Voltage (V)	Height (mm)	Length (mm)	Width (mm)
ET-RRU-500	40530	500	230	184	500	120
ET-RRU-1000	40531	1000	230	184	700	120
ET-RRU-1500	40532	1500	230	184	900	120
ET-RRU-2000	40533	2000	230	184	1100	120
ET-RRU-3000	40534	3000	230	184	1500	120

ET-RDA2, with integrated frost protection control +7°C, IP 66/67

PG: D4

Type	Item no.	Output (W)	Voltage (V)	Height (mm)	Length (mm)	Width (mm)
ET-RDA2-250	46717	250	230	184	400	120
ET-RDA2-500	46718	500	230	184	500	120
ET-RDA2-1000	46719	1000	230	184	700	120
ET-RDA2-1500	46720	1500	230	184	900	120
ET-RDA2-2000	46721	2000	230	184	1100	120
ET-RDA2-3000	46722	3000	230	184	1500	120

Accessories

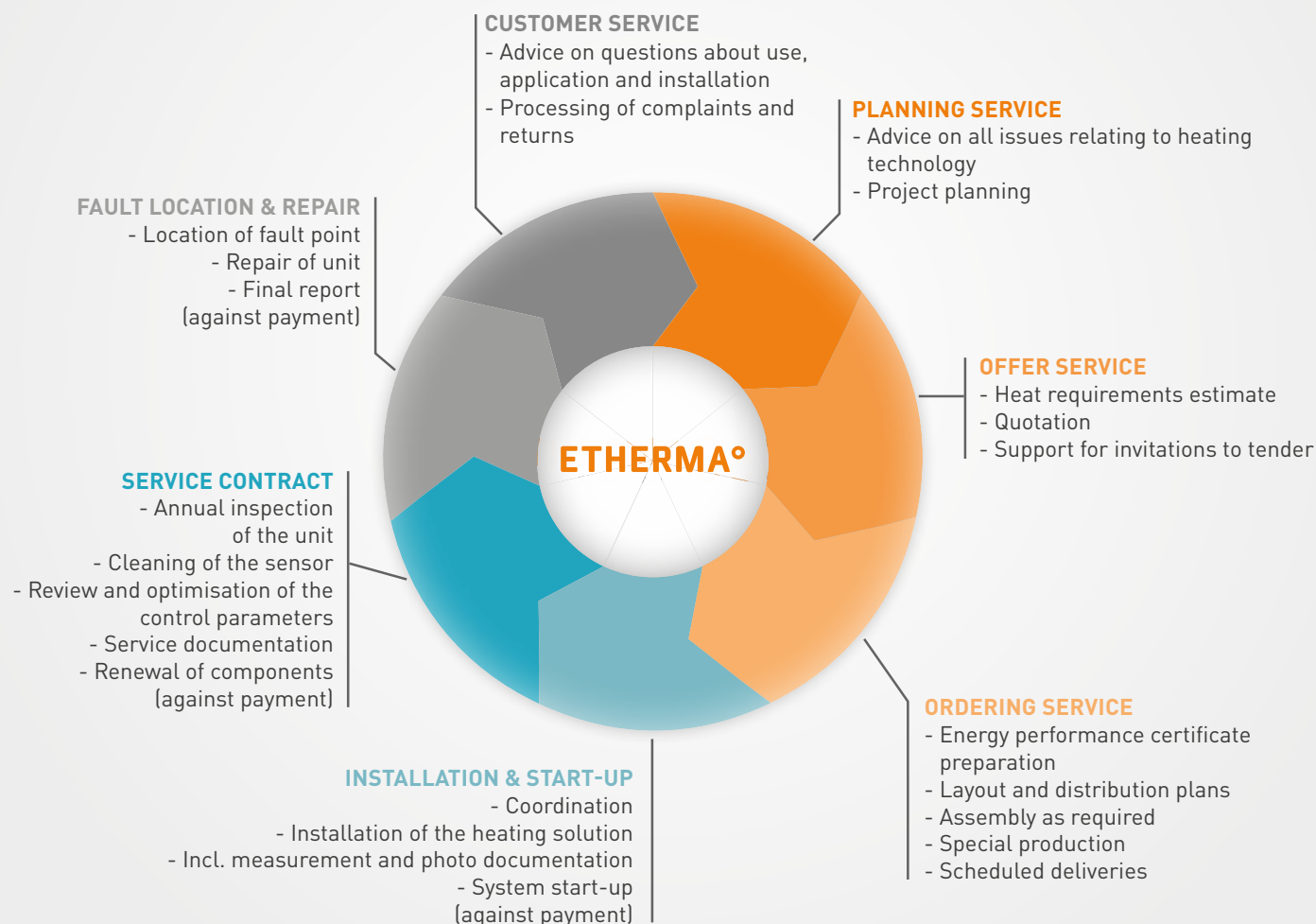
PG: A9

Type	Item no.	Description
ET-SK-500	40585	Protective cage for finned pipe radiator types RRU-500, RDA-250 and RDA 500
ET-SK-1000	40586	Protective cage for finned pipe radiator types RRU-1000 and RDA2-1000
ET-SK-1500	40587	Protective cage for finned pipe radiator types RRU-1500 and RDA2-1500
ET-SK-2000	40588	Protective cage for finned pipe radiator types RRU-2000 and RDA2-2000
ET-SK-3000	40589	Protective cage for finned pipe radiator types RRU-3000 and RDA2-3000

The background is a solid teal color. Overlaid on this are several white lines that form a complex, abstract geometric pattern. These lines intersect to create a series of nested and overlapping rectangles and parallelograms, some of which are tilted at various angles. The pattern is reminiscent of a stylized architectural drawing or a modern graphic design.

FROST PROTECTION

ETHERMA 360° SERVICE PORTFOLIO



ETHERMA can call on over 40 years' experience in the planning, design, production and installation of electrical heating systems.

Take advantage of this know-how and use our extensive service offering as part of our ETHERMA 360° Service. From on-site planning, through tender and bidding support, to order services, ETHERMA accompanies your project free of charge.

For all open-space, gutter, roof area and pipeline trace heating systems ETHERMA offers complete installation of the facility through an ETHERMA specialist partner on request. Only the electrical and technical connections must be performed by the relevant electrical company of the project.

Our optional service contract guarantees optimal equipment operation and includes an annual inspection and optimisation of the heating system for the heating season. ETHERMA also offers fault location and repair of frost protection equipment and underfloor heating systems - including for equipment with third-party products.

Request an offer for installation, maintenance or fault location now:

montage@etherma.com

All products which are installed and maintained by qualified ETHERMA partners are marked with this logo in the latest product catalog:



THE BENEFITS AT A GLANCE

- + Premium-quality, durable materials
- + Production of all heating mats and heating tapes for each project individually custom made – including for stairways and landings
- + Custom-made connection cables – no inconvenient extension works
- + An installation plan with numbered heating mats for simple, fast laying
- + Simplified start-up through precise electronic planning and circuit diagrams
- + Support during installation
- + Operating cost estimates (on request)
- + Coordination with other providers
- + Scheduled delivery

ETHERMA BRS

Heating mats for installation in concrete and rolled asphalt



BRS open area heating for installation in concrete and rolled asphalt is used to keep car park access ramps, emergency access routes, entrance areas, etc. free from snow and ice. The heating mats are laid on a load-bearing under-layer (concrete or asphalt) in accordance with a laying plan.

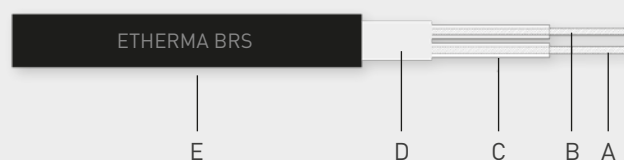
CONCRETE: Once the heating mats are laid, the concrete is then applied - ideally suited for concrete screed, fluid concrete, monolithic concrete, site concrete and even 3 cm of protective concrete.

Laying in a gravel bed is possible under certain conditions. Please contact the ETHERMA technical team.

ASPHALT: Once the heating mats are laid, the first layer of rolled asphalt is applied, manually distributed and compacted. The top layer is coated in the second process step. The temperature of the rolled asphalt is 180°C. The minimum thickness of the asphalt is 6 cm (2 x 3 cm). Grain of lower layer: 0 – 8 mm, grain size of the top-layer: 0 – 8 mm or 0 – 11 mm.

ETHERMA TIP:

- All our connection cables are produced custom-made.
- On request, we will be happy to take care of the installation and maintenance of your open space heating.
- Project-specific manufacture of heating mats in various sizes and outputs on request.



- A Heating cord
- B Heating cord
- C Networked high-temperature polymer insulation new heat conductor construction, RLH, BRLH heating mats
- D Aluminium shield + protective earth conductor
- E Outer insulation radiation cross-linked polyolefin

TECHNICAL DETAILS

- > Voltage: 230, 400 V
- > Output: 240, 300 W/m²
- > Special output: 400 W/m²
- > Nominal limit temperature: up to 105 °C
- > Temperature-resistant heating conductor: 180 °C/45 min
- > Min. installation temperature: - 5 °C
- > Max. bending radius: 5 d
- > Heating mat thickness: approx. 7 mm
- > IP rating: IP X7
- > Connection: 10 m; 3 x 1.5 (2.5) mm²

BENEFITS OF THIS PRODUCT

- + Connection cable (no plug) custom-made
- + Increased mechanical toughness
- + Only one connection cable for an easy installation
- + Flexible heating line
- + Resistant to faeces, spherical acids and bases
- + Second layer of rolled asphalt can be applied with the finisher

SELECTION GUIDE

BRGS-240 W/m² – For smaller private ramps, access roads, terraces and pavements below a sea level of 1000 m.

BRUS-300 W/m² – For public ramps, access roads and pavements, parking garages, landing places etc. below a sea level of 1000 m.

BRAS-400 W/m² – For public ramps, access roads and pavements, parking garages, landing places etc. below a sea level of 1000 m.

Heating mat 243-BRGS, 240 W/m², 400 V, IP X7, connection cable 10 m

PG: M5

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
243-BRGS-75-210	39466	379	210	75	1.58
243-BRGS-75-390	39468	693	390	75	2.90
243-BRGS-75-540	39469	968	540	75	4.00
243-BRGS-75-780	39470	1409	780	75	5.85
243-BRGS-75-930	39471	1680	930	75	6.98
243-BRGS-75-1320	39472	2376	1320	75	9.90
243-BRGS-75-1755	39473	3165	1755	75	13.25
243-BRGS-75-2220	39474	4000	2220	75	16.65
243-BRGS-75-3150	39476	5657	3150	75	23.60

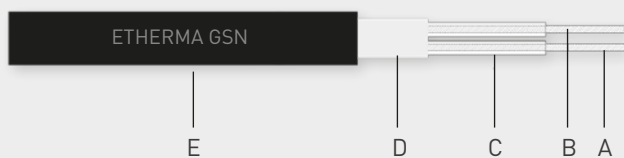
Heating mat 303-BRUS, 300 W/m², 400 V, IP X7, connection cable 10 m

PG: M5

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
303-BRUS-75-150	40698	346	150	75	1.15
303-BRUS-75-280	40699	632	280	75	2.11
303-BRUS-75-390	40700	883	390	75	2.94
303-BRUS-75-570	40701	1287	570	75	4.29
303-BRUS-75-680	40702	1534	680	75	5.11
303-BRUS-75-960	40703	2169	960	75	7.23
303-BRUS-75-1280	40704	2889	1280	75	9.63
303-BRUS-75-1620	40705	3651	1620	75	12.17
303-BRUS-75-2300	40706	5164	2300	75	17.21

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
243-BRGS-95-165	39600	379	165	95	1.58
243-BRGS-95-300	39602	693	300	95	2.90
243-BRGS-95-420	39603	968	420	95	4.00
243-BRGS-95-615	39604	1409	615	95	5.85
243-BRGS-95-735	39605	1680	735	95	6.98
243-BRGS-95-1035	39606	2376	1035	95	9.90
243-BRGS-95-1395	39607	3165	1395	95	13.25
243-BRGS-95-1755	39608	4000	1755	95	16.65
243-BRGS-95-2475	39610	5657	2475	95	23.60

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
303-BRUS-95-120	40707	346	120	95	1.15
303-BRUS-95-220	40708	632	220	95	2.11
303-BRUS-95-310	40709	883	310	95	2.94
303-BRUS-95-450	40710	1287	450	95	4.29
303-BRUS-95-540	40711	1534	540	95	5.11
303-BRUS-95-760	40712	2169	760	95	7.23
303-BRUS-95-1010	40713	2889	1010	95	9.63
303-BRUS-95-1280	40714	3651	1280	95	12.17
303-BRUS-95-1810	40715	5164	1810	95	17.21



- A Heating cord
- B Heating cord
- C Networked high-temperature polymer insulation
- D Aluminium shield + protective earth conductor
- E Outer insulation radiation cross-linked polyolefin

TECHNICAL DETAILS

- > Voltage: 230, 400 V
- > Output: 300W/m²
- > Special output: 250, 350, 400 W/m²
- > Nominal limit temperature: up to 105 °C
- > Temperature-resistant heating conductor: 240 °C/35 min
- > Min. installation temperature: - 5 °C
- > Max. bending radius: 5 d
- > Mat thickness: approx. 7.6 mm
- > IP rating: IP X7
- > Connection: 10 m; 3 x 1.5 (2.5) mm²

BENEFITS OF THIS PRODUCT

- + Planning of the project and custom-made production
- + Connection cable (no plug) custom-made
- + Carrier mesh prevents the heating mat from floating
- + Wear warning

SELECTION GUIDE

GUSN-300 W/m² – For public ramps, access roads and pavements, car parks, landing places etc. below a sea level of 1000 m.

ETHERMA GSN

Heating mat for installation in mastic asphalt



GSN open area heating for installation in mastic asphalt is used to keep car park entrance ramps, emergency access routes, entrance areas, etc. free from snow and ice. The GSN heating mat consists of a glass fibre and armoured braid, onto which a dipole heat conductor is bonded. The allowable temperature of the appliance is 240° C for 35 minutes.

The glass fibre net and armoured braid prevent the heating conductor from floating upwards. The installation of the glass fibre net must be upwards. Our special processing guarantees a 100 % solid installation and the stability of the heating mat. The mat need not be fixed on the underfloor. The optimum thickness of the asphalt is 2 x 2 cm and must be applied in 2 steps. The heating conductor is resistant to spherical acid and base.

ETHERMA TIP:

- All our connection cables are produced custom-made.
- Upon request, we will be happy to take care of the installation and maintenance of your open space heating.
- Project-specific manufacture of heating mats in various sizes and outputs on request.

303-GUSN heating mat, 300 W/m², 400 V, IP X7, connection cable 10 m

PG: M5

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
303-GUSN-75-150	40730	346	150	75	1.15
303-GUSN-75-280	40731	632	280	75	2.11
303-GUSN-75-390	40732	883	390	75	2.94
303-GUSN-75-570	40733	1287	570	75	4.29
303-GUSN-75-680	40734	1534	680	75	5.11
303-GUSN-75-960	40735	2169	960	75	7.23
303-GUSN-75-1280	40736	2889	1280	75	9.63
303-GUSN-75-1620	40737	3651	1620	75	12.17
303-GUSN-75-2300	40738	5164	2300	75	17.21

Type	Item no.	Output (W)	Length (cm)	Width (cm)	m ²
303-GUSN-95-120	40739	346	120	95	1.15
303-GUSN-95-220	40740	632	220	95	2.10
303-GUSN-95-310	40741	883	310	95	2.95
303-GUSN-95-450	40742	1287	450	95	4.30
303-GUSN-95-540	40743	1534	540	95	5.15
303-GUSN-95-760	40744	2169	760	95	7.20
303-GUSN-95-1010	40745	2889	1010	95	9.60
303-GUSN-95-1280	40746	3651	1280	95	12.15
303-GUSN-95-1810	40747	5164	1810	95	17.21

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

ETHERMA NOTE: A list of accessories for the heating mats can be found on page 64. Control systems are listed from page 90 onwards.

ETHERMA DSN

Roof heating mats

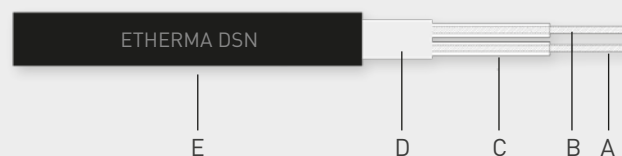


The DSN heating mat consists of a glass fibre mesh onto which a heat conductor with a UV-resistant outer insulation is sewn (for foil and tin roofs). This is a safety measure to prevent damage to the roof, roof gutters and building from snowfall.

The heating mat is particularly easy to install and secure to the roof because of the glass fibre mesh. Due to the advanced stitching technology with PTFE thread, a completely reliable layer and the stability of the heating mat are guaranteed. All components are 100% UV-resistant.

ETHERMA TIP:

- All our connection cables are produced custom-made.
- On request, we will be happy to take care of the installation and maintenance of your roof area heating.
- Project-specific manufacture of heating mats in various sizes and outputs on request.



- A Heating cord
- B Heating cord
- C Networked high-temperature polymer insulation
- D Aluminium shield + protective earth conductor
- E Outer insulation radiation cross-linked polyolefin

TECHNICAL DETAILS

- > Voltage: 230, 400 V
- > Output: 175W/m²
- > Special output: 200 W/m²
- > Nominal limit temperature: up to 105°C
- > Min. installation temperature: - 5 °C
- > Max. bending radius: 5 d
- > Mat thickness: approx. 8 mm
- > IP rating: IP X7
- > Connection: 1 x 10 m; 3 x 1.5 (2.5) mm²
- > Weight: 900 g/m²

BENEFITS OF THIS PRODUCT

- + Planning of the project and custom-made production
- + Connection cable (no plug) custom-made
- + Stable surface performance
- + Webs simplify mounting and installation
- + UV, ozone and weather-resistant
- + Heating conductor resistant to acids and bases

Heating mat 172-GUSN, 175 W/m², 230 V

PG: M5

Type	Item no.	Output [W]	Length [cm]	Width [cm]	m ²
172-DUSN-50-170	46000	152	170	50	0.9
172-DUSN-50-320	46001	278	320	50	1.6
172-DUSN-50-1460	46006	1274	1460	50	7.3
172-DUSN-50-1830	46007	1604	1830	50	9.2
172-DUSN-50-2590	46008	2268	2590	50	13.0
172-DUSN-75-120	37999	152	120	75	0.8
172-DUSN-75-210	37997	278	210	75	1.6
172-DUSN-75-970	37987	1269	970	75	7.3
172-DUSN-75-1220	37983	1604	1220	75	9.2
172-DUSN-75-1730	37980	2268	1730	75	13.0

Heating mat 173-DUSN, 175 W/m², 400 V

PG: M5

Type	Item no.	Output [W]	Length [cm]	Width [cm]	m ²
173-DUSN-50-300	46009	265	300	50	1.5
173-DUSN-50-550	46010	483	550	50	2.8
173-DUSN-50-2530	46015	2216	2530	50	12.7
173-DUSN-50-3190	46016	2789	3190	50	16.0
173-DUSN-50-4510	46017	3944	4510	50	22.6
173-DUSN-75-200	37976	265	200	75	1.5
173-DUSN-75-370	37973	483	370	75	2.8
173-DUSN-75-1680	37957	2207	1680	75	12.6
173-DUSN-75-2120	37954	2789	2120	75	16.0
173-DUSN-75-3000	37951	3944	3000	75	22.6

Accessories for DSN heating mats

Type	Item no.	Description	PG
KALT-AS-1.5	27473	Cold lead for BRS, GSN and DSN heating mats, dipole with protective netting 1.5 mm ² , price per m	A4
KALT-AS-2.5	27474	Cold lead for BRS, GSN and DSN heating mats, dipole with protective netting 2.5 mm ² , price per m	A4
KALT-AS-2.5/400	38499	Cold lead for BRS, GSN and DSN heating mats, dipole with protective netting 2.5 mm ² , 400 V, price per m	A4
MRSA	37853	Connection set for heating mats in asphalt BRS, DSN in shrink technology	A4
SH-GPTD	38726	Factory-made ready-for-use, dual thermostat, 3 m connection cable [with plug]	A5
Power-Glue-SW	39972	Mounting adhesive, all-purpose adhesive, 290 ml, black	A4

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

ETHERMA NOTE: A list of accessories for the heating mats can be found on page 67. Control systems are listed from page 90 onwards.

ETHERMA BRLH-30

Dipole heating loop for free laying



- A Heating cord
B Heating cord
C Networked high-temperature polymer insulation
D Aluminium shield + protective earth conductor
E Outer insulation radiation cross-linked polyolefin

TECHNICAL DETAILS

- > Voltage: 230, 400 V
- > Output: 30 W/m
- > Nominal limit temperature: up to 105 °C
- > Min. installation temperature: - 5 °C
- > Min. bending radius: 5 d
- > Outside diameter: 7 mm
- > IP rating: IP X7
- > Connection: 1 x 10 m; 3 x 1.5 (2.5) mm²

BENEFITS OF THIS PRODUCT

- + Connection cable (no plug) custom-made
- + Custom-made finishing
- + Only one connection cable for an easy installation
- + Sturdy and impact-proof heating conductor
- + Increased mechanical toughness

SELECTION GUIDE

250 W/m² – For smaller private ramps, access roads, terraces and pavements below a sea level of 1000 m.

300 W/m² – For public ramps, access roads and pavements, parking garages, landing places etc. below a sea level of 1000 m.

The BRLH heating loop is suitable for free laying in curvatures, curves, and anywhere with demanding geometrical installation structures. The loop can be laid in mastic asphalt, rolled asphalt, fluid concrete, monolithic concrete, site concrete, sand and mortar bed and under cobblestone. The dipole heating conductor has an outer insulation that is very sturdy and impact resistant – even under heavy mechanical strain.

Thanks to its UV resistance the BRLH heating loop can also be used as gutter heating for metal gutters (only for single laying) or as roof area heating.

Nominal rated temperature - rolled asphalt: 180 °C/45 min

Nominal rated temperature - mastic asphalt: 240 °C/35 min

Heating loop BRLH-302, 30 W/m, 230 V, IPX7

PG: C3

Type	Item no.	Output (W)	Heated surface in m ² at laying distance			Length (m)
			7.5 cm; 400 W/m ²	10 cm; 300 W/m ²	15 cm; 200 W/m ²	
BRLH-302-7	35465	189	0.5	0.7	1.1	7
BRLH-302-12	35480	367	0.9	1.2	1.8	12
BRLH-302-17	35481	506	1.3	1.7	2.6	17
BRLH-302-25	35482	730	1.9	2.5	3.8	25
BRLH-302-30	35483	882	2.2	2.9	4.5	30
BRLH-302-42	35484	1260	3.2	4.2	6.3	42
BRLH-302-56	35485	1657	4.1	5.5	8.4	56
BRLH-302-70	35486	2099	5.3	7.0	10.5	70
BRLH-302-99	35487	2969	7.4	9.9	14.9	99

Heating loop BRLH-303, 30 W/m, 400 V, IPX7

PG: C3

Type	Item no.	Output (W)	Heated surface in m ² at laying distance			Length (m)
			7.5 cm; 400 W/m ²	10 cm; 300 W/m ²	15 cm; 200 W/m ²	
BRLH-303-12	36071	333	0.9	1.2	1.8	12
BRLH-303-21	36072	635	1.6	2.1	3.2	21
BRLH-303-29	36073	897	2.2	2.9	4.4	29
BRLH-303-43	36074	1283	3.2	4.3	6.5	43
BRLH-303-51	36075	1569	3.8	5.1	7.7	51
BRLH-303-72	36076	2222	5.4	7.2	10.8	72
BRLH-303-96	36077	2924	7.2	9.6	14.4	96
BRLH-303-122	36078	3643	9.2	12.2	18.3	122
BRLH-303-172	36079	5168	12.9	17.2	25.8	172

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

ETHERMA NOTE: A list of accessories for the heating mats can be found on page 67. Control systems are listed from page 90 onwards.

ETHERMA BRS-TS

Stairway heating for installation in concrete and rolled asphalt



BRS-TS made-to-measure heating mats for open air heating on stairs are manufactured by ETHERMA in accordance with provided specifications. Heating mats which are manufactured in accordance with the stair dimensions are used, so that the stair mats and platform mats where necessary combine to form a coherent unit. Our heating mats, planned and produced in-house, guarantee your stair heating a constant surface output and simple, quick installation. The joint cross web and only one connection cable simplify the installation of the heating mats.

TECHNICAL DETAILS

- > Voltage: 230, 400 V
- > Output: 250 to 350 W/m²
- > Nominal limit temperature: up to 105 °C
- > Temperature-resistant heating conductor: 180 °C/45 min
- > Min. installation temperature: - 5 °C
- > Max. bending radius: 5 d
- > Mat thickness: a. 8.5 mm
- > IP rating: IP X7
- > Connection: 1 x 10 m; 3 x 1.5 (2.5) mm²

ATTENTION:
Please send us a plan or a simple sketch for planning purposes.

Stair heating BRS-TS, 250 to 350 W/m², IP X7

PG: M5

Type	Item no.	Description
BRS-TS	40749	Individual project preparation for stair and/or landing heating: BRS-ST Stair mat according to calculation, price per m BRS-POD Landing mat according to calculation, price per m ²

ETHERMA NSP-TS

Stairway heating for thin-bed installation



TECHNICAL DETAILS

- > Voltage: 230, 400 V
- > Output: 250 to 350 W/m²
- > Nominal limit temperature: up to 150 °C
- > Mat thickness: approx. 4 mm
- > IP rating: IP X7
- > Connection: 1 x 10 m

ATTENTION:
Please send us a plan or a simple sketch for planning purposes.

ETHERMA NSP-TS stairway heating is ideal for post-installation on existing stairs. These can be laid under tiles in an adhesive bed, under plates or under a 2 cm thick, particularly slip-resistant and secure polyurethane layer. Advantageous for free-standing stairs. Prepared in our plant to specifications, integrated individual stair mats and landing mats where required comprising a fibre-glass mesh and robust special heat conductor with a permanently waterproof muffled connection.

Stair heating NSP-TS, 250 to 350 W/m², IP X7

PG: M5

Type	Item no.	Description
NSP-TS	40751	Individual project preparation for stair and/or platform heating: NSP-ST Stair mat according to calculation, price per m NSP-POD Landing mat according to calculation, price per m ²

ETHERMA NOTE: A list of accessories for the heating mats can be found on page 67. Control systems are listed from page 90 onwards.

Accessories - open-air heating

Type	Item no.	Description	PG
STEG-M	31263	Metal flat band with fixing links every 2.5 cm, roll of 20 m	A3
STEG-0	28030	Special formed linking tool, connection every 2.5 cm, length 100 m, not temperature-resistant	A3
KALT-AS-1.5	27473	Cold lead for BRS, GSN and DSN heating mats, dipole with protective netting 1.5 mm ² , price per m	A4
KALT-AS-2.5	27474	Cold lead for BRS, GSN and DSN heating mats, dipole with protective netting 2.5 mm ² , price per m	A4
KALT-AS-2.5/400	38499	Cold lead for BRS, GSN and DSN heating mats, dipole with protective netting 2.5 mm ² , 400 V, price per m	A4
KALT-eFLOOR-STRONG-1.5	46412	Cold lead for eFLOOR STRONG and NSP-TS heating mats, 1.5 mm ² , dipole with protective netting 1.5 mm ² , price per m	A4
KALT-eFLOOR-STRONG-2.5	46412	Cold lead for eFLOOR STRONG and NSP-TS heating mats, 2.5 mm ² , dipole with protective netting 1.5 mm ² , price per m	A4
BIND-01	30515	Nylon cable connector, 100 pieces/pack, 10 cm, black	A5
MRSA	37853	Connection set for heating mats in asphalt BRS, GSN, DSN and BRLH heat conductor in shrink technology	A4
MSTD	35508	Repair set for heating conductor of eFLOOR PRO and eFLOOR-STRONG netted heating mat	A4
Stapaflex-FPR	30011	Stapaflex hose, diameter 20 mm for asphalt installation, price per m	A2
WKS-1K	39338	Spacers made of UV-resistant plastic for up to 3 heating tapes, length 280 mm	A5
WKS-2K	39339	Spacers made of UV-resistant plastic for up to 7 heating tapes, length 580 mm	A5
SH-EAAR	38486	Asphalt joint factory-made for drainage heating tape, dipole, incl. earth	A3



STEG-0



STEG-M



BIND-01



Stapaflex-FPR



WKS-1K



WKS-2K

ETHERMA HEATING TAPES AT A GLANCE

Type	Pipeline trace heating, metal		Pipeline trace heating, plastic		Roof gutter heating, metal	Roof gutter heating, plastic
	Temperature control	Frost protection	Temperature control	Frost protection		
eTRACE-10-PRO		x		x		
eTRACE-15-PRO		x		x	x	x
eTRACE-15-SG		x		x	x	x
eTRACE-25-PRO		x		x	x	x
eTRACE-25-SG		x		x	x	x
eTRACE-HW-PRO	x		x			
eTRACE-30CHT	x	x			x	
ICESTOP		x				
ICESTOP TRACE		x		x		

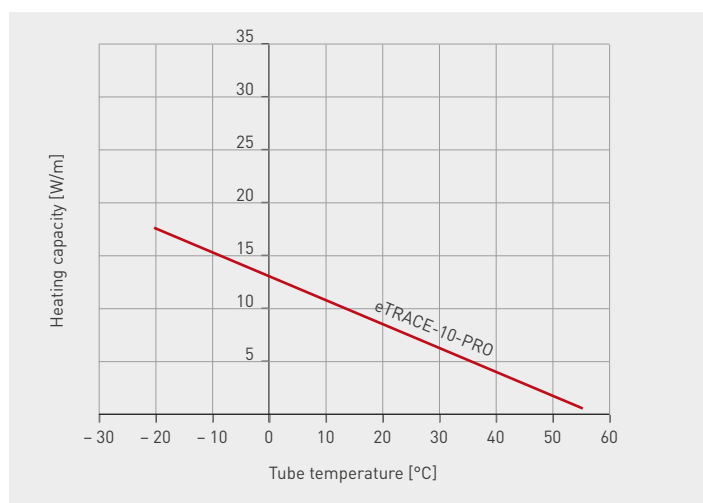
eTRACE-10-PRO

Self-regulating heating tape

The eTRACE-10-PRO heating tape offers you the smallest possible dimensions, is very flexible in use and is ideal for short heating circuits. The heating tape can be used for frost protection and temperature maintenance up to 65 °C. The eTRACE-10-PRO is a lightweight self-regulating heating tape. Fields of application are industry and household appliances. Applications range from frost protection to temperature maintenance on pipes and vessels. The supply conductors are nickel-plated copper, and all heating strips are moisture-proof and UV-resistant. Self-regulating heating tapes can easily be cut to the desired length and used immediately.

OUTPUT OF THE eTRACE-10-PRO

(for insulated metallic pipes in accordance with EN 62395-1)

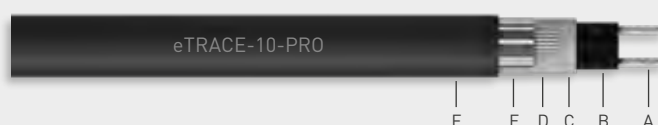


eTRACE-10-PRO HEATING CIRCUIT LENGTHS

having regard to

- > 230 V voltage
- > slow-blow fuses (C-characteristic) with max. workload of 80 %
- > max. 10 % voltage drop at the supply conductor of the heating tape
- > one heating tape, fed in on one side

resulting in the following maximum heating circuit lengths:



- A Supply conductor 0.56 mm²
- B Self-regulating heating element
- C Insulating sheath
- D Protective conductor tin-plated copper
- E Protective foil aluminium
- F Outer jacket TPE-O

TECHNICAL DETAILS

- > Voltage: 230 V
- > Outer insulation: TPE-O
- > Supply conductor: 0.56 mm² nickel-plated copper
- > Max. permissible ambient temperature:
 - switched off: +85 °C
 - switched on: +65 °C
- > Min. installation temperature: -30 °C
- > Min. bending radius: 25 mm

BENEFITS OF THIS PRODUCT

- + Self-regulating
- + Can be cut from the roll
- + Moisture-proof
- + UV, ozone and weather-resistant
- + Small dimensions

SELECTION GUIDE

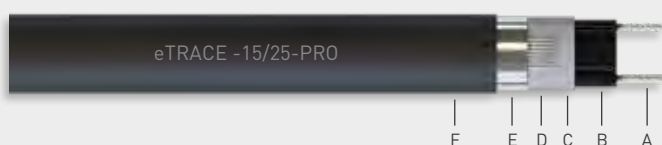
Pipeline trace heating, frost protection for industrial applications, temperature maintenance on pipes and vessels

Switch-on temperature [°C]	A-rated fuse	Heating circuit lengths (m) for eTRACE-10-PRO
10	10	130.0
	16	130.0
0	10	123.0
	16	123.0
-10	10	116.0
	16	116.0
-20	10	110.0
	16	110.0
-40	10	75.0
	16	90.0

Self-regulating heating tape eTRACE-10-PRO

Type	Item no.	Weight [g/m]	Dimensions approx. (mm)	Rated output	PG
eTRACE-10-PRO	41243	66	8.3 x 5.5	10 W/m at 10 °C	T1
EA-1	26585	Pipe coupling set for end-joint for heating tapes in shrinkage technology			A5
EA-2	26586	Pipe coupling set for connection / end joints using shrinkage technology, incl. 3 m PTC resistor, 3 x 1.5 mm ²			A5

ETHERMA NOTE: A list of accessories for the heating tape can be found on page 77. Control systems are listed from page 90 onwards.



- A Supply conductor 1.25 mm²
- B Self-regulating heating element
- C Insulating sheath
- D Protective conductor tin-plated copper
- E Protective foil aluminium
- F Outer jacket TPE-O

TECHNICAL DETAILS

- > Voltage: 230 V
- > Outer insulation: TPE-O
- > Supply conductor: 1.25 mm² nickel-plated copper
- > Max. permissible ambient temperature:
 - switched off: +85 °C
 - switched on: +65 °C
- > Min. installation temperature: -30 °C
- > Min. bending radius: 25 mm
- > Certification: VDE

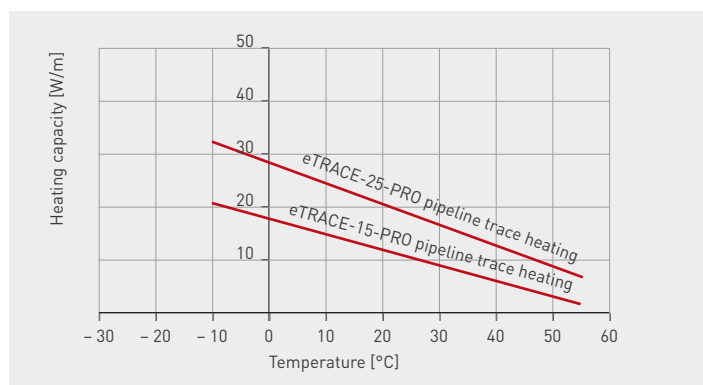
BENEFITS OF THIS PRODUCT

- + Self-regulating
- + Can be cut from the roll
- + Moisture-proof
- + UV, ozone and weather-resistant
- + Also suitable for plastic roof gutters

SELECTION GUIDE

Pipeline trace heating, frost protection for industrial applications, temperature maintenance on pipes and vessels, roof gutter heating

eTRACE -15/25-PRO OUTPUT FOR PIPELINE TRACE HEATING (for insulated metallic pipes in accordance with EN 62395-1)



Self-regulating heating tape eTRACE -15/-25-PRO

Type	Item no.	Weight (g/m)	Dimensions approx. (mm)	Rated output in air	PG
eTRACE-15-PRO	41244	106	12.5 x 5.8	15 W/m at 10 °C	T1
eTRACE-25-PRO	41245	106	12.5 x 5.8	25 W/m at 10 °C	T1
EA-2	26586	Pipe coupling set for connection / end joints using shrinkage technology, incl. 3 m cold lead, 3 x 1.5 mm ²			A5
EA-3	26587	Pipe coupling set for connection / end joints for socket connectors, incl. M25 bolts, for eTRACE-15-, -25			A5
EA-1	26585	Pipe coupling set for end-joint for heating tapes in shrinkage technology			A5

eTRACE-15/-25-PRO

Self-regulating heating tape for pipeline and roof gutter heating

The new self-regulating eTRACE-15-PRO and eTRACE-25-PRO heating tapes are now even more robust. They are suitable for temperatures up to 65 °C and can be used both as pipeline trace heating and roof gutter heating. They are appropriate for use in both building services and industry. The supply conductors are nickel-plated copper. All heating tapes are moisture-proof and UV-resistant. The best start for an extended service life and absolute reliability. As self-regulating heating tapes they can be easily cut to the desired length and used immediately. In roof gutter heating, also suitable for plastic gutters. As pipeline trace heating in particular as frost protection or for maintenance of constant temperature on pipes and vessels.

eTRACE -15/25-PRO HEATING CIRCUIT LENGTHS

having regard to:

- > 230 V voltage
- > slow-blow fuses (C-characteristic) with max. workload of 80 %
- > max. 10 % voltage drop at the supply conductor of the heating tape
- > one heating tape, fed in on one side

resulting in the following maximum heating circuit lengths:

PIPELINE TRACE HEATING eTRACE-15-PRO

Switch-on temperature [°C]	A-rated fuse	Heating circuit lengths (m) for eTRACE-15-PRO
10	10	120.0
	16	170.0
0	10	107.0
	16	160.0
-10	10	96.0
	16	150.0
-20	10	85.0
	16	140.0

PIPELINE TRACE HEATING eTRACE-25-PRO

Switch-on temperature [°C]	A-rated fuse	Heating circuit lengths (m) for eTRACE-25-PRO
10	10	65.0
	16	105.0
0	10	56.0
	16	94.0
-10	10	48.0
	16	82.0
-20	10	40.0
	16	70.0

ROOF GUTTER HEATING

Type	A-rated fuse	Heating circuit lengths (m) for iced water	Output in iced water (W/m)
eTRACE-15-PRO	16	81	36
eTRACE-25-PRO	16	59	56

eTRACE-15/25-SG

Self-regulating heating tapes for pipeline trace and roof gutter heating with protective netting

The eTRACE-15-SG and eTRACE-25-SG self-regulating heating tapes have a protective netting and are intended for temperatures up to 65 °C. They can be used both as pipeline trace heating and roof gutter heating and are suitable for use in both homes and industrial settings. The supply conductors are nickel-plated copper. All heating tapes are moisture-proof and UV-resistant. The best start for an extended service life and absolute reliability. As self-regulating heating tapes they can be easily cut to the desired length and used immediately. In roof gutter heating, also suitable for plastic gutters. As pipeline trace heating in particular as frost protection or for maintenance of constant temperature on pipes and vessels.

eTRACE -15-SG/25-SG HEATING CIRCUIT LENGTHS

having regard to:

- > 230 V voltage
- > slow-blow fuses (C-characteristic) with max. workload of 80 %
- > max. 10 % voltage drop at the supply conductor of the heating tape
- > one heating tape, fed in on one side

resulting in the following maximum heating circuit lengths:

eTRACE-15-SG PIPELINE TRACE HEATING

Switch-on temperature [°C]	A-rated fuse	Heating circuit lengths (m) for eTrace-15-SG
10	10	103.0
	16	160.5
0	10	84.0
	16	134.0
-10	10	71.0
	16	114.0
-20	10	62.0
	16	99.0

eTRACE-25-SG PIPELINE TRACE HEATING

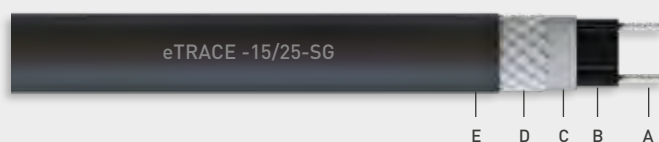
Switch-on temperature [°C]	A-rated fuse	Heating circuit lengths (m) for eTrace-25-SG
10	10	64.0
	16	103.0
0	10	54.0
	16	87.0
-10	10	47.0
	16	75.0
-20	10	37.5
	16	60.0

ROOF GUTTER HEATING

Type	A-rated fuse	Heating circuit lengths (m) for iced water	Output in iced water (W/m)
eTRACE-15-SG	16	70	36
eTRACE-25-SG	16	55	56

Self-regulating heating tape eTRACE-15/-25-SG

Type	Item no.	Weight (g/m)	Dimensions approx. (mm)	Rated output in air	PG
eTRACE-15-SG	40907	98	11 x 5.6	15 W/m at 10 °C	T1
eTRACE-25-SG	40908	98	11 x 5.6	25 W/m at 10 °C	T1
EA-2	26586	Pipe coupling set for connection / end joints using shrinkage technology, incl. 3 m PTC resistor, 3 x 1.5 mm ²			A5
EA-3	26587	Pipe coupling set for connection / end joints for socket connectors, incl. M25 bolts, for eTRACE-15, -25			A5
EA-1	26585	Pipe coupling set for end-joint for heating tapes in shrinkage technology			A5



- A Supply conductor 1.23 mm²
- B Self-regulating heating element
- C Insulating sheath
- D protective netting
- E Outer jacket TPE-O

TECHNICAL DETAILS

- > Voltage: 230 V
- > Outer insulation: TPE-O
- > Supply conductor: 1.23 mm² nickel-plated copper
- > Max. permissible ambient temperature:
 - switched off: +80 °C
 - switched on: +65 °C
- > Min. installation temperature: -50 °C
- > Min. bending radius: 25 mm
- > Certification: NEMKO

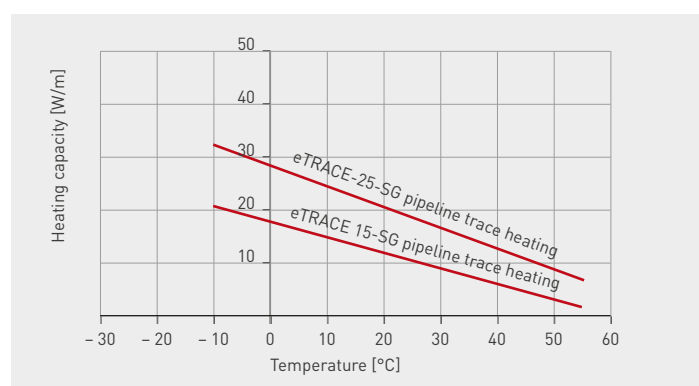
BENEFITS OF THIS PRODUCT

- + Self-regulating
- + Can be cut from the roll
- + Moisture-proof
- + UV, ozone and weather-resistant
- + Also suitable for plastic roof gutters

SELECTION GUIDE

Pipeline trace heating, frost protection for industrial applications, temperature maintenance on pipes and vessels, roof gutter heating

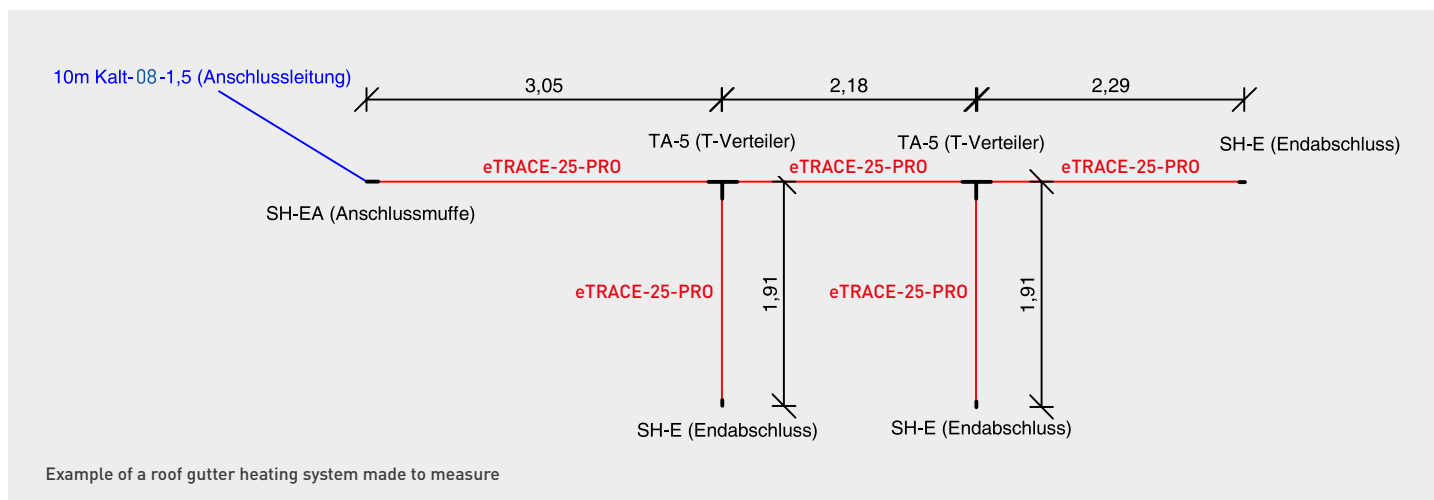
eTRACE -15/25-SG OUTPUT FOR PIPELINE TRACE HEATING (for insulated metallic pipes in accordance with EN 62395-1)



ETHERMA NOTE: A list of accessories for the heating tape can be found from page 77 onwards. Control systems are listed from page 90 onwards.

HEATING TAPES TO MEASURE

ETHERMA heating tapes made to customer requirements



THE BENEFITS AT A GLANCE

- + Individual heating tapes with made-to-measure connections
- + Quick assembly thanks to factory muffling
- + Guaranteed waterproof cladding
- + Professional planning help from the ETHERMA team

NOTE:

Send us a CAD plan or a sketch of your project and we will do the rest.

Heating tapes to measure, per metre

PG: T1

Type	Item no.	Weight (g/m)	Dimensions approx. (mm)	Rated output
eTRACE-10-PRO	41243	66	8.3 x 5.5	10 W/m at 10 °C
eTRACE-15-PRO	41244	106	12.5 x 5.8	15 W/m at 10 °C
eTRACE-15-SG	40907	98	11 x 5.6	15 W/m at 10 °C
eTRACE-25-PRO	41245	106	12.5 x 5.8	25 W/m at 10 °C
eTRACE-25-SG	40908	98	11 x 5.6	25 W/m at 10 °C
eTRACE-HW-PRO	41248	141	13.2 x 6.1	11 W/m at 65 °C
eTRACE-30CHT	40909	85	11 x 8	30 W/m

Muffling for heating tapes made to measure

Type	Item no.	Description	PG
SH-E	29134	End-connector for heating tapes, plant-side	A5
SH-EA	27858	Plant finishing with connection and end joints, incl. 3 m cold lead 3 x 1.5 mm ²	A5
SH-FPT	36052	Plant finishing with thermostat in connection joint, < 3 °C ON and > 9 °C OFF	A5
SH-GPT	37873	Plant finishing with bimetal thermostat in connection joint, incl. 3 m cold lead	A3
SH-GPTD	38726	Plant finishing with dual thermostat, incl. 3 m cold end	A5
Thermokit-FPT	38892	Connection cable (with plug) with thermostat, < 3 °C ON and > 9 °C OFF, 2 m, incl. EA-5	A5
Thermokit-GPTD	38893	Connection cable (with plug) with dual thermostat, 3 °C < ON > - 10 °C, 3 m, UV-resistant, incl. EA-5	A5
TA-5	34058	Plant-side poured T-joint incl. connections on request incl. SH-E	A5
KALT-AS-1.5	27473	cold lead for BRS, GSN and DSN heating mats, dipole with protective netting 1.5 mm ² , price per m	A4
KALT-AS-2.5	27474	cold lead for BRS, GSN and DSN heating mats, dipole with protective netting 2.5 mm ² , price per m	A4
KALT-08-1.5	27476	cold lead for heating tapes, triple-pole incl. earth 1.5 mm ² , price per m	A5
KALT-08-2.5	31274	cold lead for heating tapes, triple-pole incl. earth 2.5 mm ² , price per m	A5

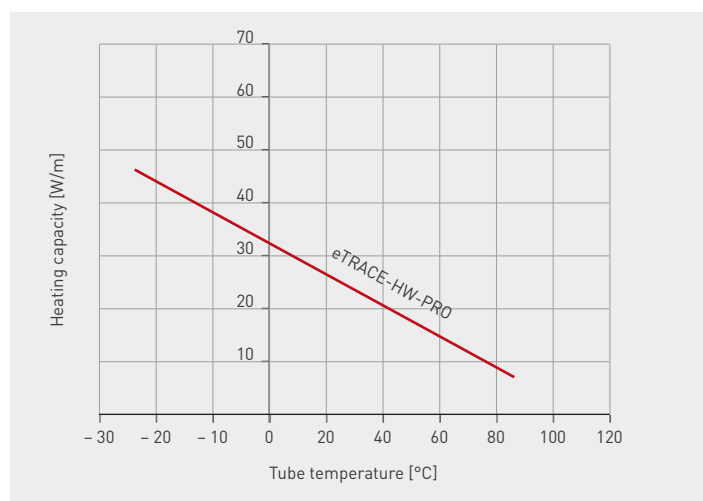
eTRACE-HW-PRO

Self-regulating hot water heating tape

The eTRACE-HW-PRO (hot water) self-regulating heating tape is used on vessels, pipes, valves, etc. for process temperatures between 30 °C and around 80 °C. Particularly important is its use in water pipes to prevent bacterial contamination such as Legionella bacteria. The supply conductors are nickel-plated copper, the heating tape is moisture-proof and UV-resistant. Self-regulating heating tapes can easily be cut to the desired length and used immediately.

OUTPUT OF THE eTRACE-HW-PRO

(for insulated metallic pipes in accordance with EN 62395-1)

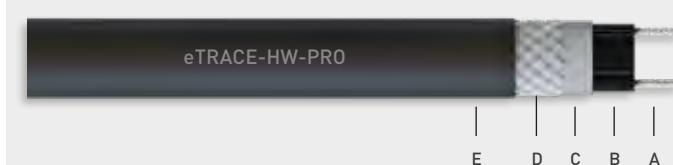


HEATING CIRCUIT LENGTHS eTRACE-HW-PRO

having regard to

- > 230 V voltage
- > slow-blow fuses (C-characteristic) with max. workload of 80 %
- > max. 10 % voltage drop at the supply conductor of the heating tape
- > one heating tape, fed in on one side

resulting in the following maximum heating circuit lengths:



- A Supply conductor 1.25 mm²
- B Self-regulating heating element
- C Insulating sheath
- D Protective meshwork tin-plated copper
- E Outer jacket TPE

TECHNICAL DETAILS

- > Voltage: 230 V
- > Outer insulation: TPE
- > Supply conductor: 1.25 mm² nickel-plated copper
- > Max. permissible ambient temperature:
 - switched off: 85 °C
 - switched on: 65 °C
- > Min. installation temperature: -30 °C
- > Min. bending radius: 25 mm
- > Certification: EC compliant

BENEFITS OF THIS PRODUCT

- + Self-regulating
- + Can be cut from the roll
- + Moisture-proof
- + UV, ozone and weather-resistant

SELECTION GUIDE

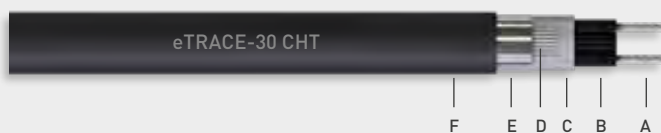
Pipeline trace heating for maintaining the temperature of pipes and vessels, e.g. in the food industry, waste water pipes in canteens and (large) kitchens

eTRACE-HW-PRO self-regulating heating tape

Type	Item no.	Weight (g/m)	Dimensions approx. (mm)	Rated output	PG
eTRACE-HW-PRO	41248	141	13.2 x 6.1	11 W/m at 65 °C	T1
EA-2	26586	Pipe coupling set for connection / end joints using shrinkage technology, incl. 3 m cold lead, 3 x 1.5 mm ²			A5
EA-1	26585	Pipe coupling set for end-joint for heating tapes in shrinkage technology			A5

Switch-on temperature (°C)	A-rated fuse	Heating circuit length (m) for eTRACE-HW-PRO
50	16	110
20	16	80
0	16	75
-20	16	60

ETHERMA NOTE: A list of accessories for the heating tape can be found from page 77 onwards. Control systems are listed from page 90 onwards.



- A Tin-plated copper conductor 0.75 mm²
- B Silicone stranded wire insulation
- C Silicone inner insulation
- D Heating cord soldered
- E Overbraid tin-plated copper wire 2.5 mm²
- F Silicone coating

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output: 30 W/m
- > Nominal temperature: +200 °C
- > Min. installation temp.: - 60 °C
- > Max. single length: 58 m
- > Min. bending radius: 25 mm
- > Dimensions: 11 x 8 mm
- > Certification: EC compliant

BENEFITS OF THIS PRODUCT

- + Highly elastic – No residual stiffness
- + Outstanding heat transfer
- + High efficiency
- + Rapid de-icing
- + No high input voltage
- + Can be cut to length every 60 cm, can also be custom-made at the factory
- + Fast, easy installation
- + Needs connection from one side only
- + UV and ozone-resistant
- + Resistant to acids and bases

PLANNING AID FOR ROOF GUTTER HEATING SYSTEMS

For standard gutters, a 30 W/m output is installed at heights up to 1000 m above sea level. For box drains, the power output per meter is determined as follows:

- > Width of the gutter (in m) x 250 W
- > For a gutter with a width of 24 cm this means:
0.24 x 250 = 60 Watt

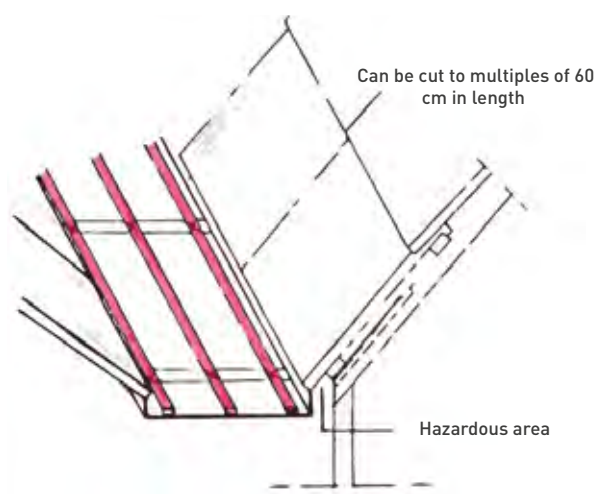
This corresponds to 2 heating strips per 30 W/m.

eTRACE-30CHT

Constant heating tape for roof and box drains

The eTRACE-30CHT constant heating tape is ideal for heating box drains. The heating tape is soft-elastic made of insulated, flexible tape element with constant power output. Design according to VDE regulation with soldered resistance wire. It lies flat in the gutter and reliably prevents tunnel formation of snow. In order to achieve the lowest possible operating costs for gutter heating, it is necessary that the heating tape has optimum contact with the gutter. Constant heating tapes are used in particular in metal box drains.

PLEASE NOTE: Constant heating tapes must not be installed in plastic gutters and drains.



HEATING CIRCUIT LENGTHS eTRACE-30CHT

having regard to

- > 230 V voltage
- > slow-blow fuses (C-characteristic) with max. workload of 80 %

resulting in the following maximum heating circuit lengths:

Switch-on temperature (°C)	A-rated fuse	Heating circuit lengths (m) for eTRACE-30CHT
0	16	58

eTRACE-30CHT constant heating tape

Type	Item no.	Weight (g/m)	Dimensions approx. (mm)	Rated output	PG
eTRACE-30CHT	40909	85	8 x 11	30 W/m	T2
EA-2	26586	Pipe coupling set for connection / end joints using shrinkage technology, incl. 3 m PTC resistor, 3 x 1.5 mm ²			A5
EA-1	26585	Pipe coupling set for end-joint for heating tapes in shrinkage technology			A5

ETHERMA NOTE: A list of accessories for the heating tape can be found from page 77 onwards. Control systems are listed from page 90 onwards.

ETHERMA ICESTOP

Plug-in heating loop with thermostat



ETHERMA ICESTOP protects pipes from ice and subsequent damage. ICESTOP is a plug & play heating cable with a constant power output of approx. 10 W/m. The thermostat is 100 % protected against humidity and switches on frost protection with temperatures below + 3°C and off again above + 12 °C.

ONLY SUITABLE FOR METALLIC PIPES.

TECHNICAL DETAILS

- > Voltage: 230 V
- > Output at 5°C: approx. 10 W/m
- > Min. installation temp.: -15 °C
- > On- off switching temp.: +3 °C, +12 °C
- > Min. bending radius: 3 d
- > Dimensions: 5.5 x 8.5 mm
- > IP rating: IP X7
- > Connection: Connection cable with plug 2 m

ICESTOP, heating loop with thermostat, 230 V, IP X7

PG: C4

Type	Item no.	Output (W)	Length (m)
ICE-01	40570	10	1
ICE-02	40571	20	2
ICE-04	40572	40	4
ICE-06	40573	60	6
ICE-08	40574	80	8
ICE-10	40575	100	10
ICE-12	40576	120	12
ICE-14	40577	140	14
ICE-16	40578	160	16
ICE-18	40579	180	18
ICE-20	40580	200	20
ICE-24	40581	240	24
ICE-30	40582	300	30
ICE-42	40583	420	42
ICE-60	40584	600	60



TECHNICAL DETAILS

- > Voltage: 230 V
- > Output at 10 °C: 15 W/m
- > Min. installation temp.: -30 °C
- > On- off switching temp.: +3 °C, +9 °C
- > Min. bending radius: 25 mm
- > Dimensions: 12.5 x 5.8 mm
- > IP rating: IP X7
- > Connection: Connection cable (with plug) 2 m;
3 x 1.5 mm²

BENEFITS OF THIS PRODUCT

- + Factory assembly simplifies installation
- + Self-regulating heating tape optimises heat performance
- + Automatic activation below +3°C
- + Automatic switch-off above +9°C
- + Can be used on plastic pipes

IMPORTANT NOTES

- > The heating tape may be used in plastic pipes.
- > Additional insulation of the pipe is absolutely necessary.

ETHERMA ICESTOP TRACE

Plug & play, self-regulating heating tape with thermostat



ETHERMA ICESTOP TRACE protects pipes from ice and subsequent damage. It is a Plug & Play, self-regulating heating tape with a power output of 15 W/m at + 10°C.

The thermostat is 100% moisture-proof and activates frost protection below +3°C, and switches it off again at +9°C.

CAN BE INSTALLED ON PLASTIC PIPES.



ICESTOP TRACE - self-regulating heating tape with thermostat, IP X7, 230 V

PG: T3

Type	Item no.	Output (W)	Length (m)
FPT-2	37431	30	2
FPT-4	37352	60	4
FPT-6	37353	90	6
FPT-8	37354	120	8
FPT-10	37355	150	10
FPT-12	37356	180	12
FPT-14	37357	210	14
FPT-16	37358	240	16
FPT-18	37359	270	18
FPT-20	37360	300	20
FPT-22	37361	330	22
FPT-24	37362	360	24
FPT-26	37363	390	26
FPT-28	37364	420	28
FPT-30	37365	450	30

ETHERMA NOTE: A list of accessories for the heating tape can be found from page 77 onwards. Control systems are listed from page 90 onwards.

ETHERMA SATHEAT

Satellite dish heating



SATHEAT is a specially developed heating element to keep satellite dishes free from snow and ice for private and public use. The heating element is available in four standard sizes. It has an installed thermostat that switches on below a temperature of +3° C and switches off when the temperature of the surface reaches +9° C. An additional heating line guarantees that the receiver arm is free from snow. SATHEAT is not self- adhesive, so we recommend ordering Installation Power Glue together with your order (see table). We also offer custom-made sizes on request.



Rear view
SATHEAT-65, -85, -100

TECHNICAL DETAILS

- > Voltage: 230 V
- > Power consumption: 60 – 200 W
- > On/off switching temp.: + 3 °C / + 9 °C
- > Colour: Grey
- > Connection: 1 x 3 m
- > IP rating: IP X7
- > The mounting is done on-site, either mechanically or adhesive-backed.

BENEFITS OF THIS PRODUCT

- + Rapid de-icing
- + Integrated thermostat - enables completely automatic deicing
- + Receiver arm is also heated
- + Fast, easy installation
- + Special sizes available on request
- + UV, ozone and weather-resistant
- + Resistant to acids and bases

SELECTION GUIDE

All SATHEAT heating elements fit the shape and mounting systems of current manufacturers.

For satellite antennae with the following diameters:

- SatHeat-65:** 65 - 75 cm
- SatHeat-85:** 85 - 95 cm
- SatHeat-100:** 100 - 115 cm
- SatHeat-120:** 120 cm



Heat conductor for heating the receiver arm



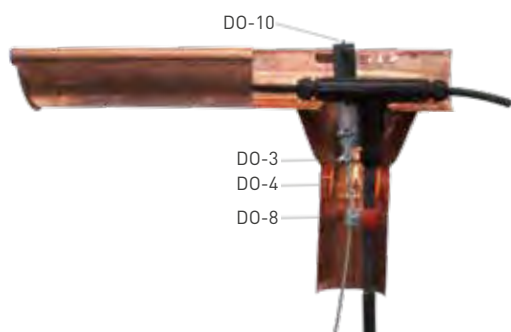
Integrated thermostat

SATHEAT, satellite dish heating, 230 V, IP X7

Type	Item no.	Output (W)	Description	PG
SATHEAT-65	35764	60	Satellite dish heating for all current models, 65 - 75 cm diameter	M7
SATHEAT-85	35765	100	Satellite dish heating for all current models, 85 - 95 cm diameter	M7
SATHEAT-100	35766	140	Satellite dish heating for all current models, 100 - 115 cm diameter	M7
SATHEAT-120	35863	200	Satellite dish heating for all current models, 120 cm diameter	M7
KALT-eFLOOR-STRONG-1.5	46412		Cold lead for eFLOOR STRONG netted heating mats, 2 x 1.5 mm² + aluminium protective sheath, price per m	A4
Power-Glue-SW	39972		Mounting adhesive, all-purpose adhesive, 290 ml, black	A4

FASTENING MATERIAL

Type	Item no.	Description	PG
SPACERS, ROPES, CLAMPS			
DO-1-25	40526	Heat conductor spacer, securing width: 50 mm, for RLH and BRLH, set of 25 pcs.	A5
DO-2	26569	Down pipe strap retaining cross head, Makrolon, width: 200 mm	A5
DO-3	26571	Wire rope clamp, galvanised	A5
DO-4	26572	Wire rope with Teflon outer mantle for load relief on down pipes, galvanised, thickness: 4 mm	A5
DO-5-10	40527	Load relief clamp doubled for BRLH heat conductors, to be used in combination with DO-4, set of 10 pcs.	A5
DO-6-25	40988	Gutter heating tape fastening clip, set with 25 pc.	A5
DO-8-10	40529	Load relief clamp simple for eTRACE heating tapes, to be used in combination with DO-4well, set of 10 pcs.	A5
DO-10	26568	Hook-on retainer bar for down pipe rope suspension incl. 2 rope clamps	A5
DO-10-Set	40360	Set consisting of 1x DO-10, 5m DO-4 and 5 x DO-8	A5
WKS-1K	39338	Spacers made of UV-resistant plastic for up to 3 heating tapes, length 280 mm	A5
WKS-2K	39339	Spacers made of UV-resistant plastic for up to 7 heating tapes, length 580 mm	A5
WBK	31827	Mounting bracket for junction box AD-2	A5
CABLE CONNECTOR			
BIND-01	30515	Cable connector black UV-resistant, 100 pcs. packing unit, 100 x 2.5 mm	A5
ADHESIVE TAPE			
WAK	28353	Aluminium adhesive tape, width: 50 mm, 50 m roll	A5
WGK	28409	Adhesive fabric tape, width: 9 mm, roll of 25 m	A5
EDGE PROTECTION			
WKS-1	28519	Edge protection, 300 mm, w/out cable ties	A5
OTHER			
WIK	28893	Insulation lead-in incl. metal sheeting for heating tapes	A5
Power-Glue-SW	39972	Mounting adhesive, all-purpose adhesive, 290 ml, black	A4
AKD	25786	Warning label "Attention electric gutter heating"	A5



WGK



WKS-1

WKS-1K - spacer
Length 280 mmWKS-2K - spacer
Length 580 mm

OPTIONAL CONNECTION TECHNOLOGIES

PG: A5

Type	Item no.	Description
MUFFLING SETS, SHRINK SET		
EA-4	26589	Pipe coupling set for joining heating tape - heating tape or heating tape - connection lines
EA-5	34636	Connection and end terminal sealing kit in shrinking technology with no cold lead
T-PIECE		
TA-4	34057	T-piece set for casting inc. 3 longitudinal bolts, clamps, grouting compound and EA-1
CONNECTION CABLE (WITH PLUG) WITH THERMOSTAT		
Thermokit-FPT	38892	Connection cable (with plug) with thermostat, < 3 °C ON and > 9 °C OFF, 2 m, incl. EA-5
Thermokit-GPTD	38893	Connection cable (with plug) with dual thermostat, 3 °C < ON > - 10 °C, 3 m, UV-resistant, incl. EA-5
CONNECTION SOCKET		
ET-A2	28059	Damp-proof junction box, IP 44
ET-AD2	33777	Damp-proof junction box inc. 4 pc. M-25 bolts, shrink material and clamping bracket
PTC THERMISTOR		
KALT-08-1.5	27476	Cold lead for heating tapes, triple-pole inc. earth 1.5 mm², price per m
KALT-08-2.5	31274	Cold lead for heating tapes, triple-pole inc. earth 2.5 mm², price per m



EA-3



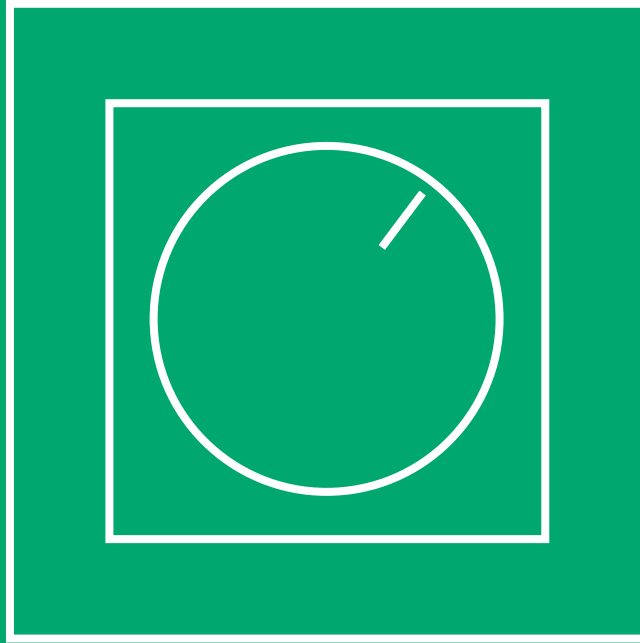
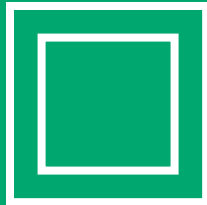
EA-4



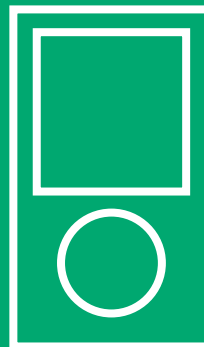
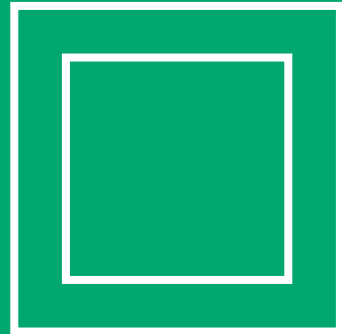
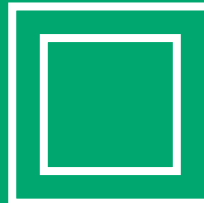
TA-4



ET-AD2



**CONTROL
TECHNOLOGY**

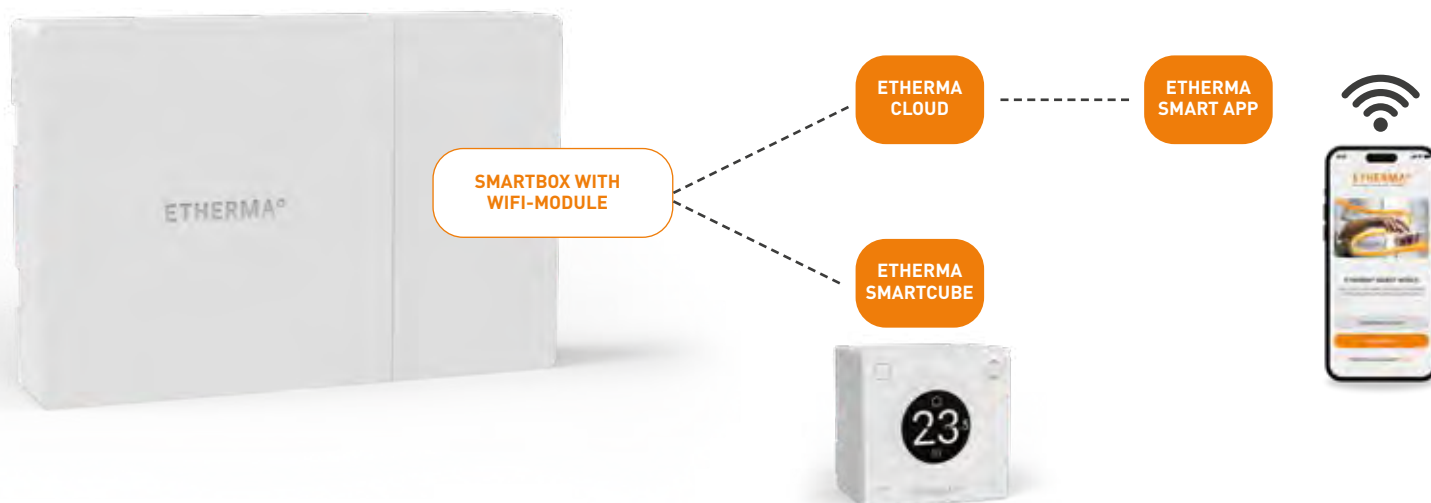


ETHERMA SMART SYSTEM

Smart radio control for maximum comfort

AVAILABLE
FROM
AUTUMN
2025

With the ETHERMA SMART SYSTEM your infrared heating becomes smarter, more intuitive and more convenient. Thanks to cutting-edge technology the system can be seamlessly integrated into your smart world and easily controlled via the associated app ETHERMA SMART. Consisting of the SMARTBOX radio receiver, which is installed directly onto the device, the SMARTCUBE radio thermostat for precise control and a secure cloud platform, the system offers maximum ease of use. Naturally our cloud platform is located in Germany and meets the most stringent data protection standards.



ETHERMA SMART APP

Smart control for maximum comfort

With the app ETHERMA SMART heating is easier than ever before! Control your infrared heating with ease wherever you are – whether it's from your couch, the office or even when you are out and about. The intuitive user interface enables precise temperature regulation, individually-adjustable timing programmes and smart scenarios that adapt perfectly to your everyday life.

The ETHERMA SMART SYSTEM marries cutting-edge heating technology with digital comfort. The app works seamlessly with the SMARTBOX radio receiver, which is installed directly on the heating device, and the SMARTCUBE radio thermostat, which ensures efficient control. All data are processed securely via our cloud platform in Germany – naturally in accordance with the highest data protection standards.

Whether for individual rooms or your entire home – with the app ETHERMA SMART you have complete control over your heating system and enjoy maximum comfort at the touch of a finger!



SURFACE-MOUNTED



BUILT-IN SWITCH



SMART HEATING WITH RADIO COMFORT

- + Simple retrofitting - no conversion required thanks to radio solution
- + App control wherever you are - intuitive and convenient
- + Energy-efficient heating - smart timing programmes
- + Compatible with all electrical heating systems



FREESTANDING

ETHERMA SMARTSET

The smart radio solution for your existing heating system



Make your electrical heating system smart in the blink of an eye - with the ETHERMA SMARTSET! This innovative radio retrofit solution enables easy integration into existing heating systems and offers comfortable control via the app ETHERMA SMART.

Thanks to the WLAN-capable SMARTBOX, which is installed directly onto the heating device, and the SMARTCUBE thermostat, you have complete control over your heating system - whether you are at home or out and about. Smart timing programmes, temperature control and smart scenarios offer maximum comfort whilst at the same time helping to save energy.

With the ETHERMA SMARTSET you take your heating to the next level - intelligent, efficient and convenient!

SMARTSET control set

Type	Item no.	Description	PG
ET-SMARTSET-TH-W	46725	Set consisting of SMARTBOX radio receiver and SMARTCUBE radio thermostat, WiFi, white	E1
ET-SMARTSET-TH-B	46726	Set consisting of SMARTBOX radio receiver and SMARTCUBE radio thermostat, WiFi, black	E1

ETHERMA SMARTCUBE

Smart radio thermostat – part of the new radio solution



The ETHERMA SMARTCUBE radio thermostat was developed especially for control of the LAVA[®] infrared heaters and naturally complies with the Ecodesign Regulation. It can be installed in a variety of ways - whether surface-mounted, in the latest mounting frame or free-standing. Available in black and white, the display colour can also be adjusted individually via the app. In this way the ETHERMA SMARTCUBE blends perfectly into every environment.

Innovative technology for intuitive use

The SMARTCUBE combines exceptional design with the highest level of user-friendliness. Intuitive control is enabled by a soft-touch micro switch and an exceptionally easy-to-read eINK display – the most energy-efficient display technology on the market at present. The display only requires energy when the display actively changes or is used, ensuring sustainable and energy-efficient operation.

An integrated battery offers cable-free operation and can easily be charged via the accompanying USB cable; naturally a permanent connection is also possible during installation. We also insist on sustainability in the Trifilon stand: This innovative plastic contains natural additives and reduces the emission of CO₂ by up to 90 % compared with conventional plastic.

Experience smart heating control at the highest level

The ETHERMA SMART SYSTEM offers a future-proof solution for the smart control of your heating devices. The app gives you access to your heating solutions any time and anywhere and can perform individual adjustments and optimise energy use. Discover the ETHERMA SMART SYSTEM and enjoy maximum comfort with smart technology.

SMARTCUBE radio thermostat

Type	Item no.	Description	PG
ET-SMARTCUBE-TH-W	46406	Radio thermostat in combination with SMARTBOX radio receiver and app ETHERMA SMART, WiFi, white	E1
ET-SMARTCUBE-TH-B	46407	Radio thermostat in combination with SMARTBOX radio receiver and app ETHERMA SMART, WiFi, black	E1

TECHNICAL DETAILS

- > Supply voltage: Integrated battery
750 mAh 3,7V, USB-C
- > Transmission frequency: Bluetooth Low Energy
- > Temperature range: + 5° C to + 40° C
- > Dimensions: 55.4 x 55.4 x 13 mm
55.4 x 55.4 x 41 mm (with stand)
55.4 x 55.4 x 15 mm (surface-mounted)
- > Weight: 40 g
100 g with accessories
- > Installation: Surface-mounted, flush-mounted box, stand
- > IP rating: IP 30
- > Display: eINK
(energy-saving display)

BENEFITS OF THIS PRODUCT

- + **Smart control & app integration:**
Maintain complete control over your heating devices – simply and conveniently by app ETHERMA SMART, wherever you are.
- + **Intuitive use & soft button:**
The user-friendly interface and soft button allow you to control your heating simply and conveniently.
- + **Versatile operating modes & smart sensor technology**
Five different operating modes and automatic temperature fall recognition ensure an efficient and need-based heat output.
- + **Flexible installation options:**
Whether-flush-mounted, with a mounting frame or free-standing – the versatile installation options fit every living situation.
- + **Energy-efficient eINK-Display:**
With minimal power consumption and optimal readability, the display is always extremely visible - even in direct sunlight.
- + **Modern & adaptable design:**
Individual colour adjustment and display settings via app facilitate a seamless integration into any living situation.
- + **Sustainable & secure technology:**
Thanks to the German cloud location and sustainable materials, the system stands out with a high level of data security and sustainability.

AREA OF APPLICATION

Radio room thermostat for the control of electrical heating devices.

This controller fulfils the following control functions according to (EU) 2024/1103: TW (f2 / f3 / f4 / f5 / f8)

TECHNICAL DETAILS

- > Supply voltage: 230 V
- > Switching current: 8 A, 230 V
- > Dimensions: 99 mm x 148 mm x 30 mm
- > External connector cable: 3 x 1mm² diameter max. 7 mm
- > Installation: Surface-mounted
- > IP rating: IP 44
- > WLAN: 2.4 GHz 802.11bgn

BENEFITS OF THIS PRODUCT

- + **Intelligent control for smart heating solutions:**
The ETHERMA SMART SYSTEM enables precise control of your heating devices. Thanks to smart technology the heating adapts optimally to individual needs – for supreme comfort and maximum energy efficiency.
- + **Universal use:**
Versatile and flexible: the ETHERMA SMART SYSTEM is compatible with all electrical heating devices and can be integrated into the widest range of applications including direct and infrared heating.
- + **Quick and easy installation:**
Direct installation into the heating device makes the system especially user-friendly and is suitable for both new buildings and retrofits. This allows for the effortless modernisation of existing heating systems.
- + **Generous connection area:**
With ample space for comfortable cabling and installation, the SMARTBOX is especially easy to use – even in more complex installations.
- + **Two cable lead-through options:**
Maximum flexibility in installation: The two cable lead-through options allow for easy adaptation to the individual conditions on site.
- + **WLAN-capable for maximum connectivity:**
Thanks to WiFi-integration smart control is possible anytime and anywhere – for efficient and need-based use of heating devices.
- + **Comfortable use via ETHERMA SMARTCUBE and SMART app:**
With control via the ETHERMA SMARTCUBE and the app ETHERMA SMART all heating functions can be easily used. Temperature control, timing programmes and individual settings are easily accessed – for a comfortable, efficient and future-proof heating solution.

AREA OF APPLICATION

Wired radio receiver for all electrical heating devices in combination with SMARTCUBE and app ETHERMA SMART.

ETHERMA SMARTBOX

Smart radio receiver – part of the new radio solution

AVAILABLE
FROM
AUTUMN
2025



With the ETHERMA SMART SYSTEM your infrared heating becomes smarter, more intuitive and more convenient. Thanks to cutting-edge technology the system can be seamlessly integrated into your smart world and easily controlled via the associated app ETHERMA SMART. Consisting of the SMARTBOX control unit, which is installed directly onto the device, the SMARTCUBE radio thermostat for precise control and a secure cloud platform, the system offers maximum ease of use. Naturally our cloud platform is located in Germany and meets the most stringent data protection standards.

ETHERMA SMARTBOX – the smart controller for electrical heating devices

The ETHERMA SMARTBOX is a key component of the ETHERMA SMART SYSTEM and permits smart control of your infrared heating devices. Together with the ETHERMA SMARTCUBE and the associated app ETHERMA SMART it ensures efficient, comfortable and networked heat in your home.

As a wired radio receiver for all electrical heating devices the ETHERMA SMARTBOX is installed directly on the device. Thanks to its generous connection area it offers ample space for connection and convinces with a special installation-friendly construction. The set is also suitable for retrofitting and is ideal for flexible retrofitting.

Optimise your heating solution with the ETHERMA SMARTBOX – for smart heat, whenever and wherever you need it!

SMARTBOX radio receiver

Type	Item no.	Description	PG
ET-SMARTBOX-W	46404	Radio receiver in combination with SMARTCUBE radio thermostat, white	E1
ET-SMARTBOX-B	46405	Radio receiver in combination with SMARTCUBE radio thermostat, black	E1



ETHERMA eTOUCH PRO

Built-in switch thermostat with app and WiFi function



In addition to local use, the smart eTOUCH PRO with self-learning mode can also be integrated into a 2.4GHz-WiFi and be used from anywhere via an iOS or Android terminal. The controller has a 1.8" TFT colour display with three capacitive buttons for operation. Five different operating modes can be selected to optimise personal comfort and energy costs: Home, Absence, Weekly programme, Frost protection or Power control. In addition, the floor, room or combination thermostat has an adjustable heating behaviour to protect different floor coverings, temperature drop detection and is compliant with Ecodesign guidelines. Support for a large number of commercially available temperature sensors makes it easy to convert old thermostats.

ETHERMA INFO: Compatible switch programmes can be found on www.etherma.com.

MORE INFORMATION

- > Easy-Start Up, the start programme for easy initial control installation.
- > The smart control guarantees optimal adaptation to user behaviour.
- > Adjustable heating behaviour to protect a range of different floor coverings.

TECHNICAL DETAILS

- > Voltage: 230 V
- > Switching current: 16 A
- > Temp. range: +5 to +40 °C
- > Floor temperature Calibration: +/- 5 °C
- > Room temp. Calibration: +/- 5 °C
- > Floor temperature Threshold value: +50 °C
- > Installation: In flush-mounted switch-box
- > Dimensions: 55 x 55 mm (without frame)
- > Floor sensor: 3 m NTC (extendable to max. 50 m)
- > IP rating: IP 21
- > WLAN: 2.4GHz 802.11bgn
- > Display: 1.8" TFT colour display

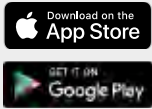
BENEFITS OF THIS PRODUCT

- + WiFi-capable
- + Remote control via app
- + Easy menu navigation
- + Installation mode: Calibration sensor
- + Self-learning mode
- + Energy consumption indicator
- + Automatic switching from summer to winter time
- + Switchable between output control, underfloor, room or combi thermostat
- + Ecodesign guidelines compliant

APPLICATION AREA

Wired switch mounted thermostat for all floor heating mats, infrared heaters and other heating devices.

Free ETHERMA eTOUCH app for direct control via WiFi.



This controller fulfils the following control functions according to (EU) 2024/1103: TW (f2 / f3 / f4)

eTOUCH PRO built-in switch thermostat with touch pad, 230 V

Type	Item no.	Description	PG
eTOUCH-PRO-1-W	41236	Built-in switch thermostat with touchpad and WiFi function, 16 A, 5-40 °C, white, similar to RAL 9003	E1
eTOUCH-PRO-1-B	41432	Smart thermostat with Wi-Fi and app control, 5-40 °C, 16 A, black, similar to RAL 9011	E1
ET-Snubber	30593	Induction snubber in conjunction with relay/protection connector, IP 20, 230 V	A2
ET-EF-eTOUCH	36826	Replacement sensor for eTOUCH and eBASIC series	A2



eTOUCH PRO in black



App: ETHERMA eTOUCH

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.



BUILT-IN SWITCH

TECHNICAL DETAILS

- > Voltage: 230 V
- > Switching current: 16 A
- > Temp. range: 5 to 28 °C
- > Installation: In flush-mounted switch-box
- > Colour: White
- > Dimensions: 55 x 55 mm
- > Floor sensor: 3 m (extendable to max. 50 m)
- > IP rating: IP 21

BENEFITS OF THIS PRODUCT

- + Easy dial operation
- + Bluetooth control via free app
- + Weekly programme and many other functions via app
- + Ecodesign guidelines compliant in combination with the app
- + Valve protection
- + Temperature reduction via external timer

APPLICATION AREA

Wired switch mounted thermostat for floor heating mats, infrared heaters and other heating devices with menu navigation with the eCONTROL app via Bluetooth 5.0.

This controller fulfils the following control functions according to (EU) 2024/1103: TW (f2 / f4 / f8)

ETHERMA eBASIC

Rotary thermostat with app function



The eBASIC combines the simplicity of the dial with modern, efficient technology. The dial can be used to control the room and floor temperature. Bluetooth 5.0 and the free app allow further functions such as switch-on times in a weekly programme and adjustment of the operating mode. The eBASIC has 4 modes: Floor, room, combi or PWM (in %). Temperature reduction is possible with the app and weekly programme or via the control cable.

ETHERMA INFO: Compatible switch programmes can be found at www.etherma.com.

eBASIC built-in switch thermostat

Type	Item no.	Description	PG
eBASIC-1	41278	Built-in switch thermostat with control dial and app control via Bluetooth 5.0, 16 A, 5-28 °C, white	E1
ET-RS-eBASIC-B	44912	Frame set for eBASIC consisting of cover and frame, black	A2
ET-EF-eTOUCH	36826	Replacement sensor for eTOUCH and eBASIC	A2



ETHERMA eCONTROL

The app that does it all for you

With the help of the free eCONTROL app, advanced functions for controlling eBASIC thermostats can be conveniently selected via iOS or Android. In addition, the operating hours and the temperature curve per day can also be checked. Optimisations such as sensor calibration, temperature reduction, valve protection and setting of minimum and maximum values are also possible.

- + Week programme
- + Calibration of floor or room temperature sensors
- + Temperature range of floor or room temperature sensors
- + Setting of the heating capacity range by means of PWM (in %)
- + Brightness of the front LED signal
- + Set-back temperature
- + Modes: Floor, room, combi, PWM
- + Manual or automatic operation



ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.



ETHERMA eTOUCH HYBRID

Designer mounted thermostat with 2 relay outputs and Touch function



eTOUCH HYBRID is the elegant designer mounted thermostat from ETHERMA and is characterised by its energy-saving self-learning function, outstanding user-friendliness and elegant Infinity Design. The controller comes with a high-quality glass touch-screen display and its two relay outputs allow it to control 2 heating systems simultaneously - either by means of a timer function (up to 3 h) or weekly programming. The unit is Ecodesign-guideline compliant.

TECHNICAL DETAILS

- > Voltage: 230 V
- > Total switching current: 16 A
- > Temp. range: 18 to 27 °C
- > Installation: In flush-mounted switch-box
- > Colour: White
- > Dimensions: 90 x 90 mm
- > IP rating: IP 21

BENEFITS OF THIS PRODUCT

- + Easy menu navigation
- + Self-learning function
- + Switching from summer to winter time is completely automatic
- + 2 relay outputs
- + Timer up to 3 hours
- + Week programme
- + Ecodesign guidelines compliant

APPLICATION AREA

Wired switch mounted thermostat for all floor heating mats in combination with external limiter, infrared heaters and other heating devices.

This controller fulfils the following control functions according to (EU) 2024/1103: TW (f4)

eTOUCH HYBRID built-in switch thermostat

PG: E1

Type	Item no.	Description
eTOUCH-hybrid	40641	Designer mounted thermostat with two relay outputs, 16 A, 18-27 °C, white
KRU	27544	Temperature limiter KRU, + 10 to + 60 °C

Function options:

- On/Off button for e.g. additional electrical heaters
- Back to the menu

- Timer selection button for e.g. additional electrical heaters
- Menu button or menu input button



- On/Off button for floor heating
- Forward within the menu

- Target temperature selector button for floor heating
- Backward within the menu

Backlighting On/Off

OLED Display

Reset button

ETHERMA TIP: Get your extended guarantee period at www.etherma.com/en/ewarranty.

TECHNICAL DETAILS

- > Power supply: Battery, 2 x 1.5 V AAA
- > Range: Up to 300 m
- > Installation: Surface-mounted, stand
- > Temperature range: +5°C to +30 °C
- > Colour: Pure white, RAL 9010
- > Dimensions: 135 x 80 x 23 mm
- > IP Rating: IP 30

BENEFITS OF THIS PRODUCT

- + Large, illuminated LCD display
- + 5 Operating modes (Comfort, reduction, frost protection, AUTO, OFF)
- + Week and day programming
- + Battery level indicator
- + Ecodesign guidelines compliant
- + Adaptive start-up control

APPLICATION AREA

Radio room thermostat for the control of the ET-111A.

This controller fulfils the following control functions according to (EU) 2024/1103: TW (f4)

ET-14A

Electronic radio-controlled room thermostat with clock



ET-14A is an electronic radio-controlled room thermostat with clock for temperature detection in residential, office and hotel rooms. Elaborate elevation and plaster work for cable routing are avoided, allowing for easy installation. The thermostat can be mounted on a flush box or surface-mounted box on the wall.

Radio thermostat ET-14A, 230 V

PG: E1

Type	Item no.	Description
ET-14A	40595	Electronic radio room thermostat with clock (ET-111A radio receiver available separately)

TECHNICAL DETAILS

- > Switching current: 16 A, 230 V
- > Transmission frequency: 868 MHz
- > Range: Up to 300 m
- > Installation: Surface-mounted
- > Dimensions: 140 x 54 x 25 mm
- > IP rating: IP 20

APPLICATION AREA

Wired radio receiver for LAVA® LUX or LAVA® FRAME infrared heaters, requires the ET-14A radio room thermostat.

ET-111A

Radio receiver with 16 A relay



The ET-111A radio receiver, in conjunction with an ET-14A (available separately), allows for easy switching of heating devices. The frequency range of 868 MHz ensures a wide range and optimal connection.

Radio receiver ET-111A, 230 V

PG: E1

Type	Item no.	Description
ET-111A	36758	Radio receiver with 16 A relay in wall-mounted housing (in combination with ET-14A)

ET-111C

Radio receiver with 10A relay in flush-mounted box



The ET-111C radio receiver enables simple switching for electric heaters. The receiver can control the room temperature with the ET-14A (available separately).

TECHNICAL DETAILS

- > Voltage: 230 V
- > Switching current: 10 A
- > Installation: Flush mounted
- > Range: 100 - 300 m
- > Dimensions: 50 x 47 x 33 mm
- > IEC Protection Class: IP 20

APPLICATION AREA

Wired radio receiver for flush mounting requires the ET-14A radio thermostat.

Radio receiver ET-111C, 230 V

PG: E1

Type	Item no.	Description
ET-111C	40039	Radio receiver with 10A relay in flush-mounted box

KRU

Capillary thermostat as floor temperature limiter



The KRU maximum control limit is a mechanical capillary tube sensor for limiting underfloor temperatures for storage and expansion heating or even beneath laminate floors. The KRU is suitable for installation in a 100 | 100 flush-mounted box.

TECHNICAL DETAILS

- > Voltage: 230 V
- > Switching current: 16 A
- > Temp. range: 10 to 60 °C
- > Floor sensor: 1.5 m

APPLICATION AREA

Temperature limiter for all floor heating mats. Used when the thermostat does not have its own floor temperature limiter, e.g. in building management systems.

Capillary thermostat KRU

PG: E1

Type	Item no.	Description
KRU	27544	Temperature limiter KRU, + 10 to + 60 °C

TECHNICAL DETAILS

- > Voltage: 230 V
- > Switching current: 16 A
- > Installation: on standard mounting rail
- > Temp. range: +5 to 60 °C
- > Hysteresis: 0.5 °C
- > Width: 35 mm (2 TE)
- > Floor sensor: 3 m
- > IP rating: IP 20

APPLICATION AREA

Built-in distribution thermostat for use in household appliances and in industry.

ITR-70

Electronic thermostat for distributor installation



The ITR-70 controller is intended for mounting on a DIN rail, which enables easier installation in the switching cabinet. The normal and setback temperature can be easily adjusted via two control dials. The temperature can be lowered via an external timer.

Built-in distribution thermostat ITR-70

Type	Item no.	Description	PG
ITR-70	46723	Electronic universal thermostat for distributor installation, including NTC sensor	E2
ET-EF-7x	37847	Replacement sensor, length: 3 m, NTC 10 kOhm	A2
ET-Snubber	30593	Induction snubber in conjunction with relay/protection connector, IP 20, 230 V	A2

TECHNICAL DETAILS

- > Voltage: 230 V
- > Switching current: 16 A
- > Installation: on standard mounting rail
- > Temp. range: -15 to 75 °C
- > Width: 35 mm (2 TE)
- > Floor sensor: 3 m
- > IP rating: IP 20

BENEFITS OF THIS PRODUCT

- + LCD display
- + Ecodesign guidelines compliant
- + Temperature drop detection
- + Week programme
- + Comprehensive range of accessories

APPLICATION AREA

Built-in distribution thermostat for use in household appliances and in industry.

This controller fulfils the following control functions according to (EU) 2024/1103: TW (f4 / f8)

ITR-80

Electronic universal thermostat for distributor installation with digital display



The ITR-80 is a universal thermostat with four different operating modes: Heating, Cooling, Industry or MAX/MIN mode. The unit is universally designed for heating and cooling applications. Individual properties can be adjusted using the parameter settings. The target value and all controller parameters are set using only three buttons.

Built-in distribution thermostat ITR-80

Type	Item no.	Description	PG
ITR-80	39334	Electronic universal thermostat for distributor installation with digital display, including NTC sensor	E2
ET-EF-7x	37847	Replacement sensor, length: 3 m, NTC	A2
ET-TF-ITR80-AP	39422	Remote temperature sensor including body as room sensor for TR-80, temperature range -50 °C to 105 °C	A2
ET-FF-ITR80-HT	39979	Remote high temperature sensor for ITR-80, PTC sensor, temperature range 0 °C to 170 °C, length: 3 m	A2
ET-Snubber	30593	Induction snubber in conjunction with relay/protection connector, IP 20, 230 V	A2

THE ETHERMA eFROST SYSTEM

Smart in any weather

Safe operation while simultaneously achieving operating cost savings is guaranteed by fully automatic monitoring. eFROST ice and snow detectors with one or two combined humidity and temperature sensors have the task of detecting ice formation and snowfall at an early stage and preventing ice formation by switching on the heating in good time, preventing snow from building up and ice formation. The sensor determines the current temperature and the incipient snowfall. In order for the heating system to switch on, the temperature must be lower than the set value, while the humidity level must also be above its own set value. Energy savings compared to thermostatically controlled systems can even be up to 70 %. This ensures economical operation of the system.

WLAN MODULE FOR GREATER COMFORT

Expand the abilities of your ET-9300 control system with the ET-9380 Internet module and enjoy even greater comfort and the other advantages of our eFROST online portal.

EASY REMOTE OPERATION

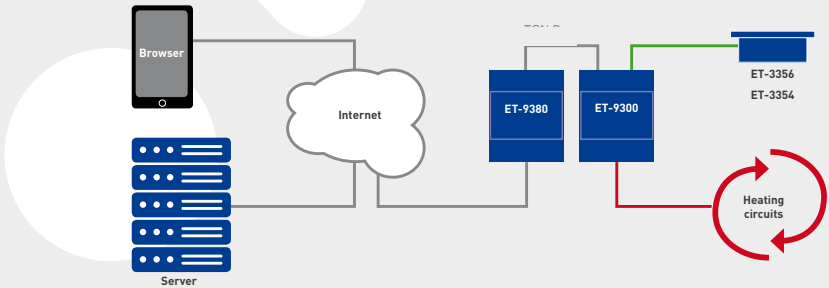
Control your heating system with ease from your Notebook or from the road via your Smartphone using the ETHERMA eFROST Online Portal.

SMART REMOTE MAINTENANCE

In the event of a fault, or for annual maintenance, the installer can quickly and easily access the unit remotely - thus saving time and money.

AUTOMATED CONTROL BASED ON LOCAL WEATHER REPORTS

Precise weather data is loaded and automatically processed in order to ensure the optimal use of your unit. Like this, your heating system practically controls itself.



ET-9300

Expandable all-round control system for open-air and roof heating systems with touch-screen display



The new ET-9300 ice and snow detector is a single-channel base unit suitable for all ice and snow detection applications. With the ET-9375 expansion unit, it can be scaled into a multifunction unit with up to 8 sensors/heating channels. The ET-9380 Internet module renders it Internet-enabled, either via LAN or WLAN.

TECHNICAL DETAILS



- > Voltage: 230 V
- > Relay output: 16 A
- > Installation: on standard mounting rail
- > Space requirements: 3 TE in accordance with DIN43880
- > Sensor: Available separately
- > Temp. range: -30°C to +80°C
- > Alarm signal in case of sensor malfunction
- > Certification: EC compliant

SENSOR POSITIONING

Ice- and snow sensor

In the heated part of the surface to determine the humidity and temperature.

APPLICATION AREA

Open-air heating and roof gutter and roof surface heating systems.

Open space control system ET-9300

PG: E2

Type	Item no.	Description
ET-9300	40675	Completely automated open-air and roof gutter control system
ET-9375	40753	Expansion module for ET-9300 for coupling multiple units
ET-3354	34089	Humidity and temperature sensor for roof gutter and roof surface heating, connection cable (no plug): 6 m
ET-3354-20	44717	Humidity and temperature sensor for roof gutter and roof surface heating, connection cable (no plug): 20 m
ET-3356	40596	Humidity and temperature sensor for open air heating, including installation sleeve, connection cable: 6 m
ET-3356-20	40769	Humidity and temperature sensor for open-air areas, including installation sleeve, connection cable (no plug): 20 m
ET-3356-50	40788	Humidity and temperature sensor for open-air areas, including installation sleeve, connection cable (no plug): 50 m

TECHNICAL DETAILS

- > Voltage: 230 V, 50 Hz
- > Power consumption: max. 5 VA
- > Installation: on standard mounting rail
- > Space requirements: 3 TE in accordance with DIN43880
- > IP rating: IP 20

COMMUNICATION

- TCP/IP protocol to the local Internet router
- Ethernet connection (RJ45)
- WLAN/LAN module (antenna jack)
- TGN bus to control unit
- Mini-USB to Laptop/PC

ET-9380

WLAN/LAN module for ET-9300 including antenna



The ET-9380 compact gateway is the latest thing in ice and snow sensing. Thanks to the gateway, an ice and snow detection system can for the first time process a weather forecast and report its status to the customer, configure the main settings and offers the option of remote operation. The gateway connects the ice and snow sensors of the ET-9300 and any of its expansion units to the ETHERMA portal on the Internet. The gateway can be cabled to a normal DSL/UMTS router and also comes with a WLAN function and an antenna jack. The radio antenna for the gateway is included.

ETHERMA eFROST Online Portal

For control of the ET-9300 all-round system in conjunction with ET-9380

The Internet gateway functions can be used via an ETHERMA eFROST Portal account. This can be accessed via a standard browser from any smart device, tablet or PC. A one-time registration on the ETHERMA eFROST Portal is required for this purpose.

THE BENEFITS TO YOU:

- + Local weather report, exact Geo-ID can be set interactively on the user portal
- + Remote control of the entire unit via the user portal with an HTML browser and Smartphone, tablet or PC
- + Control data per channel: Operating mode, activation temperature, humidity threshold, minimum heating time, area assignment, start command for minimum heating time
- + Measurement data per channel: Temperature, humidity, status, heating circuit output, operating hours, air temperature, if necessary
- + Time control: weekly program for operating modes per area, holiday programme for the entire unit



www.etherma.com/efrost

ET-9380 gateway incl. antenna

PG:E2

Type	Item no.	Description
ET-9380	40677	WLAN/LAN module for ET-9300 including antenna, optional LAN and WLAN connection
ET-SP-9380	40767	Annual service fee

ET-9200F

Control for
open-space heating



The ET-9200F ice and snow detection system is ideally suited for use with open space heating systems, and, as an entry-level model, for the control of smaller units with a single temperature and humidity sensor and a single heating circuit. Its two control dials, which control the activation temperature and humidity threshold respectively, ensure easy start-up. Further functional parameters, such as the lower switch off temperature, minimum and reheating times, can be set in parameter mode as required. The operating display comprises two tri-colour LEDs. Suitable for a single sensor (ET-3356).

TECHNICAL DETAILS

- > Voltage: 230 V, 50 Hz
- > Relay output: 16 A at nominal output
- > Installation: on standard mounting rail
- > Space requirements: 3 TE in accordance with DIN43880
- > Temp. range: -30°C to +75°C
- > Post-heating override timer

SENSOR POSITIONING

In the heated part of the surface to determine the humidity and temperature.

APPLICATION AREA

Open-space heating

Open-space heating control system ET-9200F

Type	Item no.	Description	PG
ET-9200F	40674	Control system for open-air heating, for 1 sensor (not included)	E2
ET-3356	40596	Humidity and temperature sensor for open-air areas, including installation sleeve, connection cable (no plug): 6 m	E2
ET-3356-20	40769	Humidity and temperature sensor for open-air areas, including installation sleeve, connection cable (no plug): 20 m	E2
ET-3356-50	40788	Humidity and temperature sensor for open-air areas, including installation sleeve, connection cable (no plug): 50 m	E2
ET-MA-3356	40789	Mounting cover, aluminium, for ground sleeve sensor ET-3356 during installation	A2

ET-9100D

Control for
roof gutter &
roof heating systems



The ET-9100D ice and snow detection system is optimally suited for use with roof gutter heating systems, and, as an entry-level model, for the control of smaller units with a single temperature and humidity sensor and a single heating circuit. Its two control dials, which control the activation temperature and humidity threshold respectively, ensure easy start-up. Further functional parameters, such as the lower switch off temperature, minimum and reheating times, can be set in parameter mode as required. The operating display comprises two tri-colour LEDs. Suitable for a single sensor (ET-3354).

TECHNICAL DETAILS

- > Voltage: 230 V, 50 Hz
- > Relay output: 16 A at nominal output
- > Installation: on standard mounting rail
- > Space requirements: 3 TE in accordance with DIN43880
- > Temp. range: -30°C to +80°C
- > Post-heating override timer

APPLICATION AREA

Roof area and roof gutter heating systems

ET-9100D roof gutter and roof heating system

Type	Item no.	Description	PG
ET-9100D	40673	Control system for roof gutter heating, for 1 sensor (not included)	E2
ET-3354	34089	Humidity and temperature sensor for roof gutters and roof surfaces, connection cable: 6 m	E2
ET-3354-20	44717	Humidity and temperature sensor for roof gutters and roof surfaces, connection cable: 20 m	E2
ET-MB-3354-ZN	37774	Titanium zinc mounting plate for ET-3354 roof gutter sensor, installation aid for precise adjustability of the sensor	A2
ET-MB-3354-CU	44721	Copper mounting plate for ET-3354 roof gutter sensor, installation aid for precise adjustability of the sensor	A2



TECHNICAL DETAILS

- > Switching current: 16 A, 230 V
- > Installation: Surface-mounted
- > Plus range: 0 to +15 °C
- > Minus range: 0 to -15 °C
- > Dimensions: 120 x 122 x 55 mm
- > IP rating: IP 65

APPLICATION AREA

Temperature control of small roof gutter heating systems.

ET-3102

Bimetal dual thermostat including sensor



Bimetal dual thermostat for simple control of roof gutter heating dependent on temperature, 2 temperature points possible. For small units only -- for larger units, we recommend a humidity- and temperature-dependent control system.

Bimetal dual thermostat ET-3102

PG: E2

Type	Item no.	Description
ET-3102	26616	Bimetal dual thermostat

TECHNICAL DETAILS



- > Voltage: 230 V
- > Switching current: 20 A
- > Installation: Surface-mounted
- > Ambient temp.: +55 °C
- > Dimensions: 65 x 75 x 70 mm
- > Certification: EC compliant

APPLICATION AREA

Load-break switch, 3-group switch for industrial applications such as halls or workshops.

ET-S123

Group switch for EEZ and EIH



Controls output in three groups - 0-1/1-2/1-2-3. When used in combination with EEZ or EIH, the radiant heater elements can be manually actuated in groups.

Group switch ET-S123

PG: E2

Type	Item no.	Description
ET-S123	34976	Manual switch for steps 1-2-3

WALL DISTRIBUTOR 6 - 100 kW

Wall distributor for open-space heating, enclosed on all sides, door with lock, device on standard mounting rail, front cover with necessary cutouts, control indicator lights, Operation-On-Fault, incl. all necessary fittings, serial clamps. Ready for connection, either upward or downward facing. **The control system and surge arrester are not included in the scope of supply.**

TECHNICAL DETAILS

up to 100 kW	
> Material:	Metal
> Surface:	Powder coated
> Colour:	Light grey, RAL7035
> Dimensions:	Project-related
> IP rating:	IP 54

Distributor for gutter and open- space heating 6 - 100 kW

PG: E4

Type	Item no.	Description
FHW-10	34631	Wall distributor up to 10 kW
FHW-20	33504	Wall distributor up to 20 kW
FHW-40	33505	Wall distributor up to 40 kW
FHW-60	33506	Wall distributor up to 60 kW
FHW-80	34632	Wall distributor up to 80 kW
FHW-100	34633	Wall distributor up to 100 kW

WALL DISTRIBUTOR 6 - 100 kW

Wall distributor for open-space heating, enclosed on all sides, door with lock, devices on DIN rail, front cover with necessary cutouts, control lights, inc. all necessary installations, terminal blocks.

TECHNICAL DETAILS

> Material:	Metal
> Surface:	Powder coated
> Colour:	Light grey, RAL7035
> Dimensions:	Project-related
> IP rating:	IP 54

Distributor for roof gutter and open-space heating

KG: E4

Type	Item no.	Description
SK230WDV	40605	Wall distributor up to 3.6 kW
SK22WDV	40606	Wall distributor up to 22 kW
SK43WDV	40607	Wall distributor up to 43 kW
SK57WDV	40608	Wall distributor up to 57 kW
SK88WDV	40609	Wall distributor up to 88 kW
SK100WDV	40610	Wall distributor up to 100 kW

STATIONARY DISTRIBUTOR 10 - 250 kW

Floor-standing distributor for open-space heating, closed on all sides, door with lock, devices on standard rail, front cover with required cut-outs, indicator lights, operation-on-fault, including all necessary installations, terminal blocks, prepared for connection - optionally at the top or bottom. **The control system and surge arrester are not included in the scope of supply.**

TECHNICAL DETAILS

> Material:	Metal
> Surface:	Powder coated
> Colour:	Light grey, RAL7035
> Dimensions:	Project-related
> IP rating:	IP 54

Distributor for gutter and open-space heating 10 - 250 kW

PG: E4

Type	Item no.	Description
FHS-10	32925	Floor-standing distributor up to 10 kW
FHS-20	30378	Floor-standing distributor up to 20 kW
FHS-40	30986	Floor-standing distributor up to 40 kW
FHS-60	29784	Floor-standing distributor up to 60 kW
FHS-80	32857	Floor-standing distributor up to 80 kW
FHS-100	31938	Floor-standing distributor up to 100 kW
FHS-250	33325	Floor-standing distributor up to 250 kW

ETHERMA NOTE: Please note that the price of wall/floor-standing distributors is increased by special equipment and necessary extra expenditure. For an individual distributor offer please contact the ETHERMA technical team.

PROVEN QUALITY GUARANTEE



The "MADE IN AUSTRIA" quality stamp indicates products which have been produced in Austria. In this way, the end-customers can, whenever they see this seal, know for sure that they are dealing with a quality Austrian product.



BVF is a grouping of well-known systems and components suppliers. Its member companies work together to produce guidelines and brochures which document the state of the art in the field of surface heating/cooling systems.



The aim of the IG Infrared initiative is to establish "heating with infrared" as a recognised standard heating solution for buildings, develop application and design guidelines, define and monitor quality standards for members and to support standardisation processes.



Confirms compliance with harmonised EU standards. "CE" is a mark of product safety in Europe in accordance with applicable EC guidelines. By fixing this label, manufacturers confirm that the product complies with the European directives governing product safety.



German Association of Electrical Engineers. Testing on behalf of manufacturers to determine whether their products are safe and comply with EC directives. German national certification label for electronic products.



Finnish Association of Electrical Engineers. Testing on behalf of manufacturers to determine whether their products are safe and comply with EC directives. Finnish national certification label for electronic products.



When a product is awarded the KEMA-KEUR mark, it doesn't matter in safety terms where it was manufactured, as the product and production facilities are regularly inspected by KEMA. These inspections do not comprise one-time tests, but continuous monitoring.



Norwegian Association of Electrical Engineers. Testing on behalf of manufacturers to determine whether their products are safe and comply with EC directives. Norwegian national certification label for electronic products.



Austrian Association of Electrical Engineers. Testing on behalf of manufacturers to determine whether their products are safe and comply with EC directives. National certification label for electronic products for Austria.



TÜV Nord - Technical inspection association, general safety certification mark. This certifies that a product complies with the requirements of the German Device and Product Safety Law (GPSG).



The European Infrared Heating Alliance (EIHA) introduced the "European Quality Label for Infrared Heating" on 10 April 2024. This quality seal defines quality criteria for infrared heating systems, whereby the radiation efficiency in accordance with the IEC 60675-3 standard is a central criterion. The label was developed in partnership with the IG Infrared regional associations in Germany, Austria and Benelux along with the Dutch Stichting Binnenklimaattechniek and the Peutz testing laboratory.

GENERAL TERMS AND CONDITIONS AUSTRIA

1. APPLICABILITY

- 1.1 These general terms and conditions shall apply to legal transactions between companies, namely to the delivery of goods and, mutatis mutandis, also to the provision of services. Software shall primarily be governed by the software conditions issued by the Austrian Association of Electrical and Electronic Industries; installation shall be governed by the installation conditions of the Austrian High-voltage and Low-voltage Industry and/or those of the Austrian Electrical and Electronics Industry for Electro-medical Technology (the latest versions are available from www.feei.at).
- 1.2 Deviations from the terms and conditions set forth in 1.1 shall only be effective when made known in writing by the Vendor.

2. PROPOSAL

- 2.1 The Vendor's offers shall be deemed to be non-binding.
- 2.2 Offer and project documents may not be copied or made available to third parties without the approval of the Vendor. Their return may be requested at any time, and shall be returned to the seller immediately if the order is placed elsewhere.

3. CONTRACT FORMATION

- 3.1 The contract shall be deemed to have been concluded if, upon receipt of the order, the Vendor sends a written order confirmation or a delivery.
- 3.2 The information contained in catalogues, brochures and the like as well as other written or oral statements shall only be relevant insofar as the order confirmation expressly refers to them.
- 3.3 Subsequent amendments and additions to the contract shall require written confirmation to become valid.

4. PRICES

- 4.1 The prices are ex works or ex warehouse of the seller excluding VAT, packaging, loading, disassembly, redemption and proper recycling and disposal of waste of electrical and electronic devices for commercial purposes for the purposes of the Waste Electrical Devices Ordinance. In the event that charges, taxes or other dues are levied in connection with the supply, these shall be borne by the buyer. Where supply including delivery is agreed upon, this shall be invoiced separately together with any transportation insurance required by the buyer, but shall not include unloading and handling. Packaging shall only be retrieved where expressly agreed upon.
- 4.2 In the event of order which deviates from the overall offer, the Vendor reserves the right to amend the price correspondingly.
- 4.3 The prices are based on costs at the time of the first price offer. In the event that there is any increase in costs by the time that supply is made, the seller shall be entitled to amend the price accordingly.
- 4.4 For repair orders, the services deemed to be expedient by the Vendor shall be provided, and invoiced on the basis of the expenses incurred. This shall also apply to services and additional services, the expediency of which only becomes apparent during the performance of the order, without requiring any particular notification to the buyer.
- 4.5 The cost of preparing repair offers or for expert valuations shall be indicated to the Purchaser in the invoice.
- 4.6 The cost of delivering items which do not originate from the valid product catalogue or are non-stock items shall be billed to the Purchaser in the invoice at a minimum cost of € 20.00.

5. DELIVERY

- 5.1 The delivery period shall start on the latest of the dates given below:
 - a) Date of order confirmation
 - b) The date of completion of all technical, commercial and other conditions attributable to the Purchaser;
 - c) The date on which the Vendor receives a due payment or security deposit before delivery of the goods.
- 5.2 Regulatory and other permits required for the construction of facilities by third parties shall be obtained by the Purchaser. Where such approvals are not obtained in time, the delivery period shall be extended accordingly.
- 5.3 The Vendor shall be entitled to perform and invoice for partial or preliminary deliveries. Where supply on demand is agreed upon, the goods shall be deemed to have been demanded at the latest one year following issue of the order.
- 5.4 Where circumstances occur which are unforeseeable or beyond the will of the Parties, such as all instances of force majeure, which hinder compliance with the agreed delivery period, this shall in any case be extended by the duration of the circumstances; these shall in particular include armed conflict, official interventions and prohibitions, delay in transport and customs clearance, transport damage, energy and raw material shortages, industrial disputes, pandemics as well as the shutdown of a major, difficult to replace supplier. These aforementioned circumstances shall also entitle an extension to the delivery period when they occur at a supplier.

6. TRANSFER OF RISK AND PLACE OF PERFORMANCE

- 6.1 Use and risk shall be transferred upon departure of the delivery ex works and/or ex warehouse of the Purchaser, and irrespective of the pricing agreed for the delivery (e.g. carriage paid, CIF inter alia). This shall also apply in the event that supply is performed as part of an installation or where transport is performed or organised and directed by the seller.
- 6.2 All deliveries shall be made freight forward and sent by parcel post. The following shall apply in the event that supply is performed by the seller: € 29.00 shall be charged for a delivery in Austria below a goods net value of € 750.00. All deliveries in excess of these goods values shall be free of charge. The cost of transit shipments shall be invoiced to the buyer at an additional unit cost of €30.
- 6.3 For services, the place of performance shall be the location where the service is provided. Risk for a service or an agreed partial service shall be transferred to the buyer upon the performance thereof.
- 6.4 Notice of apparent defects in the delivered goods are only permissible if the defects are noted in the consignment note; the same applies to transport damage. Notification must be made immediately in writing. Hidden defects must be reported to us immediately (at the latest within 5 working days) after discovery. Complaints cannot be asserted later.
- 6.5 The unloading and carriage of the goods into the building is the responsibility of the Customer. A surcharge shall be charged for particular requests such as express shipment, Avis or particular delivery times.
- 6.6 Except where otherwise agreed, the packaging shall be charged at cost.
- 6.7 Returns Only inventory items (see note about product tables in the price list) in new condition with unopened, undamaged original packaging may be returned upon prior agreement. Returns of items purchased more than 14 days previously are excluded. Articles which are purchased or produced specifically according to customer requirements cannot be returned. A sales receipt must be present for processing. The following handling fees will be charged: 20% of the net order amount but at least € 25.00, as compensation for our work plus postage and/or freight costs where supply is carriage paid.

7. PAYMENT

- 7.1 For initial deliveries and provided that no other payment terms have been agreed, the deliveries shall be performed solely against pre-payment and/or cash on delivery. For other individual agreements, please refer to:
 - > Your dealer discount agreement
 - > Your current valid offer
- 7.2 For partial invoicing, the corresponding partial payments shall become due upon receipt of the respective invoice. This shall also apply to clearing amounts which arise from subsequent deliveries or other agreements beyond the original contractual amount, irrespective of the payment terms agreed for the main delivery.
- 7.3 Payments shall be made without any discount by the Vendor in the agreed currency. Any acceptance of a check or bill of exchange shall always be on account of payment. All associated interest and expenses (e.g., collection and discount charges) shall be borne by the buyer.
- 7.4 The Purchaser shall not be entitled to withhold or deduct payments due to warranty claims or other counterclaims.
- 7.5 A payment shall be deemed to have been made on the date on which it becomes available to the Vendor.
- 7.6 Where the Purchaser defaults on an agreed payment or other service under this or any other transaction, the Vendor may, without prejudicing any other rights:
 - a) postpone the fulfilment of his own obligations until such time as payment or other performance has been completed, and claim a reasonable extension to the delivery period,
 - b) settle all open claims arising from this or other transactions and charge default interest on such amounts as of their respective due dates in the amount of 1.25 % per month including VAT, provided that the seller does not prove any additional costs. In any case, the seller shall be entitled to charge preliminary litigation costs, in particular including dunning expenses and legal costs.
- 7.7 Allocated discounts or bonuses shall become due upon the timely performance of full payment.
- 7.8 The Vendor shall retain ownership to all goods supplied by them until full payment of the invoiced amounts including interest and costs. In order to secure his purchase price claim, the buyer hereby assigns to the seller his claim from a resale of the reserved goods, even when these have been processed, transformed or mixed. The Purchaser shall be empowered to dispose of the goods subject to reservation of title for further sale with deferral of the purchase price only under the condition that he notifies the second purchaser of the assignment of security or notes the assignment in their ledger. Upon request, the Purchaser shall make known to the Vendor the assigned claim as well as the debtor thereof, make available all information and documents required for the collection of the debt, and notify the third-party debtor. In the event of seizure or other claims, the buyer is required to refer to the right of ownership of the seller, and notify the latter without delay.

8. WARRANTY AND LIABILITY FOR DEFECTS

- 8.1 The Vendor is, in compliance with the agreed payment terms and in accordance with the following provisions, obliged to remedy every defect affecting functionality which exists at the time of transfer and which is due to a defect in the design, the materials or their implementation. No warranty claims can be derived from information in catalogues, prospectuses, advertisements and written or oral statements which are not included in the contract.
- 8.2 The warranty period shall be 24 months, provided that no specific warranty periods have been agreed for individual delivery items. This shall also apply to goods and services which are fixedly associated with a building or land. The warranty period shall start at the time upon which risk is transferred in accordance with Item 6.
- 8.3 Any warranty claim shall require the Purchaser to have notified in writing the defects within 14 days, and the notification to have reached the Vendor. The buyer is required to prove the existence of the defect within a reasonable period of time, in particular by making his documents and/or data available to the seller. In the event of a defect covered by the warranty in accordance with 8.1, the seller, at their own choice, shall repair the defective goods and/or the defective components at the place of performance, or have this sent for repair, or propose a reasonable reduction in price.
- 8.4 All expenses arising in connection with the remedying of the defect, such as installation and disassembly, transport, disposal, travel and travel time) shall be borne by the Purchaser. The auxiliaries, lifting equipment, scaffolding and minor materials, etc necessary for warranty tasks on the buyer's premises shall be provided free of charge. Replace parts shall become the property of the seller.
- 8.5 For queried defects which are not covered by the warranty 20% of the product net total or a minimum charge of €25 shall be invoiced for all incurred costs (e.g. transport, packing, cost of checking, etc.).
- 8.6 Where an item is manufactured by the Vendor on the basis of design information, drawings, models or other specifications provided by the Purchaser, the liability of the Vendor shall only extend to their correct execution.
- 8.7 The warranty shall not cover defects which arise from assembly and installation which are not performed by the Vendor, insufficient tooling, non-compliance with the installation requirements and usage conditions, overloading of the parts beyond the limits stipulated by the Vendor, negligent or incorrect handling and use of inappropriate operating materials; this shall also apply to defects which are attributable to materials provided by the Purchaser. The seller shall also not be liable for damages which can be attributed to third parties, atmospheric discharges, overvoltage and chemical impacts. The warranty does not cover the replacement of components which are subject to natural wear and tear. The seller provides no warranty when selling used goods.
- 8.8 The warranty shall be immediately voided in case that, without the written approval of the Vendor, the Purchaser themselves or a third party not expressly authorised by the Vendor makes changes or repairs to the supplied items.
- 8.9 Claims in accordance with § 933b ABGB shall in any event lapse upon expiry of the period stipulated in 8.2.
- 8.10 Provisions 8.1 to 8.8 shall also apply mutatis mutandis to any defects arising on other legal grounds.
- 8.10 Dimensions, weights and assurances of characteristics shall be provided as precisely as possible but are not however binding and do not constitute a definitive assurance of characteristics. The user of these products must, under their own responsibility, determine their suitability for their expected use, or receive such assurance from ETHERMA. We reserve the right to make changes to materials and processes without notification to customers.

9. WITHDRAWAL FROM THE CONTRACT

- 9.1 A precondition for the withdrawal of the Purchaser from the contract is that insofar as no specific arrangement has been made, a delivery delay which is attributable to the gross negligence of the Vendor or the unremedied expiry of a set appropriate period of grace. Withdrawal shall be confirmed by means of a registered letter.
- 9.2 Irrespective of their other right, the Vendor shall be entitled to withdraw from the contract,
 - a) if the performance of the delivery and/or the start or further performance of the delivery is impossible or further delayed despite the granting of a reasonable grace period for reasons attributable to the buyer,
 - b) if any doubt arises regarding the buyer's ability to pay and the latter either fails, upon request by the seller, to make advance payment or to provide adequate security prior to delivery, or
 - c) if the extension of the delivery period exceeds more than half of the original agreed delivery period due to circumstances listed in 5.4, but comprises at least 6 months.
- 9.3 The withdrawal may also be explained on the above grounds for a due part of the delivery or service.

- 9.4 If the assets of a party to the contract are involved in insolvency proceedings or a request to start insolvency proceedings is refused due to insufficient assets, the other party to the contract shall be entitled to withdraw from the contract without setting a grace period.
- 9.5 Without prejudicing claims for damages by the Vendor including litigation costs, services or partial services already provided shall be invoiced and paid for in accordance with the contract in the event of withdrawal. This shall also apply where the supply or service has not yet been accepted by the buyer, as well as to preliminary work provided by the seller. The seller shall also be entitled to demand the return of items already supplied.
- 9.6 No other consequences of the withdrawal shall be entertained.
- 9.7 The admissibility of claims for laesio enormis, error and frustration of the basis of the contract by the Purchaser shall not be entertained.

10. DISPOSAL OF WASTE ELECTRICAL AND ELECTRONIC DEVICES

- 10.1 The Purchaser of electrical and electronic devices for commercial purposes, who is domiciled in Austria, shall undertake the obligation to fund the sampling and processing of the electrical and electronic devices for the purposes of the Waste Electrical Devices Ordinance in case that they themselves are the user of the electrical and electronic device. Where the buyer is not the final user, he shall be required to transfer this fully through mutual agreement to his buyer, and provide documentation thereof to the seller.
- 10.2 The Purchaser, who is domiciled in Austria, shall ensure that the Vendor is provided with all information in order that the Vendor is in a position to fulfil their obligations as manufacturer/importer, specifically in accordance with §§ 11 and 24 of the Waste Electrical Device Ordinance and the Waste Management Act.
- 10.3 The Purchaser, who is domiciled in Austria, shall be liable to the Vendor for all damage and other financial losses which the Vendor incurs due to the missing or faulty performance of their financial obligation as well as other obligations in accordance with 10. by the Purchaser. The buyer shall bear the burden of proof for the performance of these obligations.

11. LIABILITY OF THE SELLER

- 11.1 The Vendor shall only be liable for damages beyond the scope of application of product liability law insofar that their intent or gross negligence is proven in accordance with the statutory requirements. Liability for minor negligence, damages for consequential loss, purely pecuniary damages, lost earnings, non-achieved savings, losses of interest and damages from claims by third parties against the buyer are excluded.
- 11.2 Non-compliance with the conditions for installation, commissioning and use (e.g. contained in operating instructions) or official permit conditions shall void any claim for compensation.
- 11.3 If contractual penalties are agreed, claims which go beyond the respective title shall not be entertained.
- 11.4 For all damages without gross negligence or intent, our maximum liability for an order amount of up to 250,000 Euro is 12,500 Euro; for an order amount exceeding 250,000 Euro, a maximum of 5% of the order amount but limited to 250,000 Euro.

12. INDUSTRIAL PROPERTY RIGHTS AND COPYRIGHT

- 12.1 Where an item is manufactured by the Vendor on the basis of design information, drawings, models or other specifications provided by the Purchaser, the Purchaser shall indemnify and hold them blameless against any infringement of property rights.
- 12.2 Design documents, such as plans, sketches and other technical documentation as well as patterns, catalogues, brochures, drawings, etc. shall remain the property of the Vendor and are also subject to the relevant statutory provisions governing copying, imitation, competition, etc. in 2.2. These may not be copied or made available to third parties without written approval.

13. GENERAL

In the event that an individual provision of the contract or of these conditions should be infeasible, this shall not affect the effectiveness of the remaining provisions. The infeasible provision shall be substituted with a valid replacement which comes as close as possible to the original intent.

14. JURISDICTION AND APPLICABLE LAW:

The competent court at the domicile of the Vendor shall have sole jurisdiction over decisions relating to all disputes arising from the contract – including those relating to its existence or non-existence. The contract shall be subject to Austrian law, excluding referral rules. The use of the United Nations UNCITRAL Convention On Contracts For The International Sale Of Goods is not permitted.

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GENERAL TERMS AND CONDITIONS GERMANY

1. APPLICABILITY

- 1.1 These general terms and conditions shall apply to legal transactions between companies, namely to the delivery of goods and, mutatis mutandis, also to the provision of services. With regard to software, the terms and conditions of the software issued by the German Association for the Electrical and Electronics Industries shall primarily apply; with regard to installations, the installation terms and conditions of the German Power Current and Light Current Engineering Industry and/or of the German Electrical and Electronics Industry for Electrical Equipment used in Medicine (the latest versions are available here: www.zvei.org).
- 1.2 Deviations from the terms and conditions set forth in 1.1 shall only be effective when made known in writing by the Vendor.

2. PROPOSAL

- 2.1 The Vendor's offers shall be deemed to be non-binding.
- 2.2 Offer and project documents may not be copied or made available to third parties without the approval of the Vendor. Their return may be requested at any time, and shall be returned to the seller immediately if the order is placed elsewhere.

3. CONTRACT FORMATION

- 3.1 The contract shall be deemed to have been concluded if, upon receipt of the order, the Vendor sends a written order confirmation or a delivery.
- 3.2 The information contained in catalogues, brochures and the like as well as other written or oral statements shall only be relevant insofar as the order confirmation expressly refers to them.
- 3.3 Subsequent amendments and additions to the contract shall require written confirmation to become valid.

4. PRICES

- 4.1 The prices are ex works or ex warehouse of the seller excluding VAT, packaging, loading, disassembly, redemption and proper recycling and disposal of waste of electrical and electronic devices for commercial purposes for the purposes of the Waste Electrical Devices Ordinance. In the event that charges, taxes or other dues are levied in connection with the supply, these shall be borne by the buyer. Where supply including delivery is agreed upon, this shall be invoiced separately together with any transportation insurance required by the buyer, but shall not include unloading and handling. Packaging shall only be retrieved where expressly agreed upon.
- 4.2 In the event of an order which deviates from the overall offer, the Vendor reserves the right to amend the price correspondingly.
- 4.3 The prices are based on costs at the time of the first price offer. In the event that there is any increase in costs by the time that supply is made, the seller shall be entitled to amend the price accordingly.
- 4.4 For repair orders, the services deemed to be expedient by the Vendor shall be provided, and invoiced on the basis of the expenses incurred. This shall also apply to services and additional services, the expediency of which only becomes apparent during the performance of the order, without requiring any particular notification to the buyer.
- 4.5 The cost of preparing repair offers or for expert valuations shall be indicated to the Purchaser in the invoice.
- 4.6 The cost of procuring items which do not originate from the valid product catalogue or are non-stock items shall be billed to the Purchaser in the invoice at a minimum cost of € 20.00.

5. DELIVERY

- 5.1 The delivery period shall start on the latest of the dates given below:
 - a) Date of order confirmation
 - b) The date of completion of all technical, commercial and other conditions attributable to the Purchaser;
 - c) The date on which the Vendor receives a due payment or security deposit before delivery of the goods.
- 5.2 Regulatory and other permits required for the construction of facilities by third parties shall be obtained by the Purchaser. Where such approvals are not obtained in time, the delivery period shall be extended accordingly.
- 5.3 The Vendor shall be entitled to perform and invoice for partial or preliminary deliveries. Where supply on demand is agreed upon, the goods shall be deemed to have been demanded at the latest one year following issue of the order.
- 5.4 Where circumstances occur which are unforeseeable or beyond the will of the Parties, such as all instances of force majeure, which hinder compliance with the agreed delivery period, this shall in any case be extended by the duration of the circumstances; these shall in particular include armed conflict, official interventions and prohibitions, delay in transport and customs clearance, transport damage, energy and raw material shortages, industrial disputes, pandemics as well as the shutdown of a major, difficult to replace supplier. These aforementioned circumstances shall also entitle an extension to the delivery period when they occur at a supplier.

6. TRANSFER OF RISK AND PLACE OF PERFORMANCE

- 6.1 Use and risk shall be transferred upon departure of the delivery ex works and/or ex warehouse of the Purchaser, and irrespective of the pricing agreed for the delivery (e.g. carriage paid, CIF inter alia). This shall also apply in the event that supply is performed as part of an installation or where transport is performed or organised and directed by the seller.
- 6.2 All deliveries shall be made freight forward and sent by parcel post. The following shall apply in the event that supply is performed by the seller: € 29.00 shall be charged for a delivery in Germany below a goods net value of € 750.00 (excluding islands, price on request) All deliveries in excess of these goods values shall be free of charge. The cost of transit shipments shall be invoiced to the buyer at an additional unit cost of €30.
- 6.3 For services, the place of performance shall be the location where the service is provided. Risk for a service or an agreed partial service shall be transferred to the buyer upon the performance thereof.

- 6.4 Notice of apparent defects in the delivered good are only permissible if the defects are noted in the consignment note; the same applies to transport damage. Notification must be made immediately in writing, in accordance with section 377 of the German commercial code (HGB). Hidden defects must be reported to us immediately (at the latest within 5 working days) after discovery, in accordance with section 377 of the German commercial code (HGB). Complaints cannot be asserted later.
- 6.5 The unloading and carriage of the goods into the building is the responsibility of the Customer. A surcharge shall be charged for particular requests such as express shipment, Avis or particular delivery times.
- 6.6 Except where otherwise agreed, the packaging shall be charged at cost.
- 6.7 Returns Only inventory items (see note about product tables in the price list) in new condition with unopened, undamaged original packaging may be returned upon prior agreement. Returns of items purchased more than 14 days previously are excluded. Articles which are purchased or produced specifically to customer requirements cannot be returned. A sales receipt must be present for processing. The following handling fees will be charged: 20% of the net product total but at least € 25.00, as compensation for our work plus postage and/or freight costs where supply is carriage paid.

7. PAYMENT

- 7.1 For initial deliveries and provided that no other payment terms have been agreed, the deliveries shall be performed solely against pre-payment and/or cash on delivery. For other individual agreements, please refer to:
 - > Your dealer discount agreement
 - > Your current valid offer
- 7.2 For partial invoicing, the corresponding partial payments shall become due upon receipt of the respective invoice. This shall also apply to clearing amounts which arise from subsequent deliveries or other agreements beyond the original contractual amount, irrespective of the payment terms agreed for the main delivery.
- 7.3 Payments shall be made without any discount by the Vendor in the agreed currency. Any acceptance of a check or bill of exchange shall always be on account of payment. All associated interest and expenses (e.g., collection and discount charges) shall be borne by the buyer.
- 7.4 The Purchaser shall not be entitled to withhold or deduct payments due to warranty claims or other counterclaims.
- 7.5 A payment shall be deemed to have been made on the date on which it becomes available to the Vendor.
- 7.6 Where the Purchaser defaults on an agreed payment or other service under this or any other transaction, the Vendor may, without prejudicing any other rights:
 - a) postpone the fulfilment of his own obligations until such time as payment or other performance has been completed, and claim a reasonable extension to the delivery period,
 - b) settle all open claims arising from this or other transactions and charge default interest on such amounts as of their respective due dates in the amount of 1.25 % per month including VAT, provided that the seller does not prove any additional costs. In any case, the seller shall be entitled to charge preliminary litigation costs, in particular including dunning expenses and legal costs.
- 7.7 Allocated discounts or bonuses shall become due upon the timely performance of full payment.
- 7.8 The Vendor shall retain ownership to all goods supplied by them until full payment of the invoiced amounts including interest and costs. In order to secure his purchase price claim, the buyer hereby assigns to the seller his claim from a resale of the reserved goods, even when these have been processed, transformed or mixed. The Purchaser shall be empowered to dispose of the goods subject to reservation of title for further sale with deferral of the purchase price only under the condition that he notifies the second purchaser of the assignment of security or notes the assignment in their ledger. Upon request the Purchaser shall make known to the Vendor the assigned claim as well as the debtor thereof, make available all information and documents required for the collection of the debt, and notify the third-party debtor. In the event of seizure or other claims, the buyer is required to refer to the right of ownership of the seller, and notify the latter without delay.

8. WARRANTY AND LIABILITY FOR DEFECTS

- 8.1 The statutory provisions shall apply to the Buyer's rights in the event of material defects and defects of title (including incorrect and short delivery), unless otherwise specified below. In all cases, the statutory provisions on the sale of consumer goods (§§ 474 . et seq. BGB) and the rights of the customer arising from separately issued guarantees shall remain unaffected.
- 8.2 The basis of our liability for defects is above all the agreement reached on the quality and intended use of the goods (including accessories and instructions). Product descriptions or manufacturer's specifications shall only be deemed to be an agreement on quality in this sense if this has been contractually agreed or if such descriptions or specifications were made public by us (in particular in catalogues or on our internet homepage) at the time the contract was concluded. If the quality has not been agreed, it shall be assessed in accordance with the statutory provisions whether a defect exists or not (Section 434 (3) BGB).
- 8.3 Where an item is manufactured by the Vendor on the basis of design information, drawings, models or other specifications provided by the Purchaser, the liability of the Vendor shall only extend to their correct execution.
- 8.4 We shall not be liable for defects of which the Buyer is aware at the time of conclusion of the contract or is unaware due to gross negligence (§ 442 BGB). Furthermore, the Buyer's claims for defects shall be subject to the condition that he has complied with his statutory obligations to inspect the goods and report any defects (§§ 377, 381 HGB). In the case of goods which are intended for installation or other further processing, an

inspection must be carried out immediately before processing in every case. If a defect is detected upon delivery, inspection or at any later time, the Buyer shall inform us thereof in writing without delay. In any case, obvious defects shall be notified to us in writing within 10 working days from delivery and defects which are not detected upon inspection within the same period from the time they are detected. If the Buyer fails to make the proper inspection and/or report the defects, our liability for the defect not reported or not reported on time or not in a proper manner shall be excluded in accordance with the statutory provisions. In the case of goods intended for incorporation, attachment or installation, this also applies if the defect became apparent as a result of the breach of one of these obligations only after the corresponding processing; in this case, in particular, the customer shall not be entitled to reimbursement of corresponding costs ("removal and installation costs").

- 8.5 If the delivered item is defective, we may initially choose whether to provide subsequent performance by remedying the defect (subsequent improvement) or by delivering an item free of defects (replacement delivery). If the type of subsequent performance chosen by us is unreasonable for the customer in the individual case, the customer may reject it. Our right to refuse subsequent performance under the statutory conditions remains unaffected.
- 8.6 We are entitled to make the subsequent performance owed dependent on the customer paying the purchase price due. However, the customer is entitled to retain a reasonable part of the purchase price in relation to the defect.
- 8.7 The customer shall give us the time and opportunity required for the subsequent performance owed to hand over the defective items for inspection purposes. In the event of a replacement delivery, the customer shall return the defective item to us at our request in accordance with the statutory provisions; however, the customer shall not be entitled to return the item. Subsequent performance shall not include the removal or disinstallation of the defective item or the attachment or installation of a defect-free item if we were not originally obliged to perform these services; the customer's claims for reimbursement of corresponding costs ("removal and installation costs") shall remain unaffected.
- 8.8 We shall bear or reimburse the expenses necessary for the purpose of inspection and subsequent performance, in particular transport, travel, labour and material costs and, if applicable, removal and installation costs, in accordance with the statutory provisions and these terms and conditions, if a defect exists. Otherwise, we may demand reimbursement from the customer of the costs arising from the unjustified request for rectification of defects if the customer knew or could have recognised that there was in fact no defect.
- 8.9 In urgent cases, e.g. if operational safety is at risk or to avoid unreasonable damages, the Customer shall be entitled to remove the defect themselves and to demand from us reimbursement of the expenses objectively required for this. We must be informed of such self-performance immediately and in advance, if possible. The right to self-performance shall be void if we would be entitled to refuse corresponding supplementary performance pursuant to statutory provisions.
- 8.10 If a grace period for supplemental performance to be granted by the Customer has expired without success or is dispensable pursuant to statutory provisions, the Customer shall be entitled to withdraw from the contract or to reduce the price of the Goods. The right to withdraw shall become void in the event of insignificant defects.
- 8.11 Claims of the Purchaser for expenses pursuant to Section 445a sub-clause 1 BGB are excluded, unless the last contract in the delivery chain is a purchase of consumer goods (Sections 478, 474 BGB).
- 8.12 Notwithstanding Section 438 Para. 1 No. 3 BGB, the general limitation period for claims arising from material defects and defects of title is one year from delivery. Insofar as acceptance has been agreed, the limitation period shall commence upon acceptance.
- 8.13 The aforementioned limitation periods of the law on the sale of goods shall also apply to contractual and non-contractual claims for damages of the Customer which are based on a defect of the goods, unless the application of the regular statutory limitation period would lead to a shorter limitation period in individual cases. Claims for damages of the Customer in accordance with the Product Liability Act are subject exclusively to the statutory limitation periods.
- 8.14 Dimensions, weights and assurances of characteristics shall be provided as precisely as possible but are not however binding and do not constitute a definitive assurance of characteristics. The user of these products must, under their own responsibility, determine their suitability for their expected use, or receive such assurance from ETHERMA. We reserve the right to make changes to materials and processes without notification to customers.

9. WITHDRAWAL FROM THE CONTRACT

- 9.1 A precondition for the withdrawal of the Purchaser from the contract is that insofar as no specific arrangement has been made, a delivery delay which is attributable to the gross negligence of the Vendor or the unremedied expiry of a set appropriate period of grace. Withdrawal shall be confirmed by means of a registered letter.
- 9.2 Irrespective of their other right, the Vendor shall be entitled to withdraw from the contract,
 - a) if the performance of the delivery and/or the start or further performance of the delivery is impossible or further delayed despite the granting of a reasonable grace period for reasons attributable to the buyer,
 - b) if any doubt arises regarding the buyer's ability to pay and the latter either fails, upon request by the seller, to make advance payment or to provide adequate security prior to delivery, or
 - c) if the extension of the delivery period exceeds more than half of the original agreed delivery period due to circumstances listed in 5.4, but comprises at least 6 months.

- 9.3 The withdrawal may also be explained on the above grounds for a due part of the delivery or service.
- 9.4 If the assets of a party to the contract are involved in insolvency proceedings or a request to start insolvency proceedings is refused due to insufficient assets, the other party to the contract shall be entitled to withdraw from the contract without setting a grace period.
- 9.5 Without prejudicing claims for damages by the Vendor including litigation costs, services or partial services already provided shall be invoiced and paid for in accordance with the contract in the event of withdrawal. This shall also apply where the supply or service has not yet been accepted by the buyer, as well as to preliminary work provided by the seller. The seller shall also be entitled to demand the return of items already supplied.
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- 10.1 The Purchaser of electrical and electronic devices for commercial purposes, who is domiciled in Germany, shall undertake the obligation to fund the sampling and processing of the electrical and electronic devices for the purposes of the Waste Electrical Devices Ordinance in case that they themselves are the user of the electrical/electronic device. Where the buyer is not the final user, he shall be required to transfer this fully through mutual agreement to his buyer, and provide documentation thereof to the seller.
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- 10.3 The Purchaser, who is domiciled in Germany, shall be liable to the Vendor for all damage and other financial losses which the Vendor incurs due to the missing or faulty performance of their financial obligation as well as other obligations in accordance with 10. by the Purchaser. The buyer shall bear the burden of proof for the performance of these obligations.

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- 11.2 Non-compliance with the conditions for installation, commissioning and use (e.g. contained in operating instructions) or official permit conditions shall void any claim for compensation.
- 11.3 If contractual penalties are agreed, claims which go beyond the respective title shall not be entertained.
- 11.4 For all damages without gross negligence or intent, our maximum liability for an order amount of up to 250,000 Euro is 12,500 Euro; for an order amount exceeding 250,000 Euro, a maximum of 5% of the order amount but limited to 250,000 Euro.

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- 12.2 Design documents, such as plans, sketches and other technical documentation as well as patterns, catalogues, brochures, drawings, etc. shall remain the property of the Vendor and are also subject to the relevant statutory provisions governing copying, imitation, competition, etc. in 2.2. These may not be copied or made available to third parties without written approval.

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SERVICE If you have a service request after purchasing an ETHERMA product, the ETHERMA Customer Service department will help you quickly and reliably. To initiate the process, contact us by email at: Austria: service.at@etherma.com Germany: service.de@etherma.com Benelux: service.nl@etherma.com Nordics: service.dk@etherma.com			

PRODUCT GROUPS OVERSIGHT

PRODUCT GROUP	PRODUCT GROUP DESCRIPTION
A1	Accessories direct heating devices
A2	Accessories energy management
A3	Accessories heat conductors
A4	Accessories heating mats
A5	Accessories heating tapes
A6	Accessories hot water
A7	Accessories infrared heating
A8	Accessories infrared heaters
A9	Accessories industry
C1	Heating cables - thin bed
C2	Heating cables - screed
C3	Heating cables - open-air
C4	Plug-in heating cables
D1	Direct heating units
D2	Bathroom radiators
D3	Under-pew heating
D4	Industry
D5	Oil wall panels
D6	Convactor storage heating
E1	Thermostats
E2	Controls
E3	Energy monitoring, home automation
E4	Distributor
I1	Infrared heating basic
I2	Infrared heating premium
M1	Thin-bed heating mats
M2	Heating mat sets
M3	Heating mats - screed installation
M4	Netted heating mat for installation
M5	Heating mats - frost protection
M6	Mirror heating
M7	Customised
R1	Infrared heater basic
R2	Infrared heater premium
R3	Infrared heater industry
T1	Self-regulating heating strips
T2	Constant heating strips
T3	Plug & play heating strips
W1	Flow heaters
W2	Small storage tanks pressure-less
W3	Small storage tanks pressure resistant
W4	Hot water storage tanks
W5	Service water heat pump



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