



Trench Technology

MODUS XE

Special convectors with electrical heater



- Electrical Heating Floor Convectors / Fan Powered Convection

- **POWERFULLY SIMPLE.** A special design of Gerhman Modus XE fan powered floor convector system with energy efficient fans options.
- Modus XE fan powered floor convectors is a testament to the power of a simple solution. With best-in-class, Gerhman-made components and no primary/secondary additional equipment required, the MODUS XE is the perfect choice for residential and light commercial applications – including high rise buildings, airports, offices, residential complex and multi-zone systems.

INTELLIGENT, DECENTRALISED
ROOM CLIMATE CONTROL

Trench Technology

MODUS XE



FOR HEATING

POWERFULLY SIMPLE. The Modus XE, floor convector is a testament to the power of a simple solution. With best-in-class, Gerhman-made components and no additional primary/secondary equipment required, the Modus is the perfect choice for residential and light commercial applications including high rise buildings, airports, residential applications, offices and multi-zone systems



LOW-NOISE

- **Decentralized climate** concepts differ from centralized systems because they are planned and installed 'room by room'. The space to be ventilated can be extended to several rooms by taking clever additional measures.

Energy-efficient solution

A much more energy-efficient and reliable solution is an intelligent indoor climate control system.

There are many reasons for using decentralized climate systems:

- Protection and conservation of the building fabric
- Assistance in eliminating moisture damage
- Domestic ventilation according to DIN1946-6 in the living area and the basement in order to achieve a good air quality
- Preservation of a constant climate to protect the valuables in museums and archives
- and many more

DESIGNED FOR HIGH-TRAFFIC AREAS

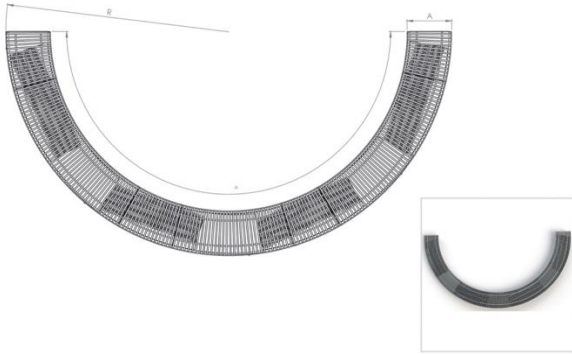
Modus XE units are built to withstand twice the weight specified tests, ensuring exceptional durability for heavy foot traffic in busy spaces.

Installed flush with the floor, these units are less prone to visible dents and scratches compared to other types of heaters.

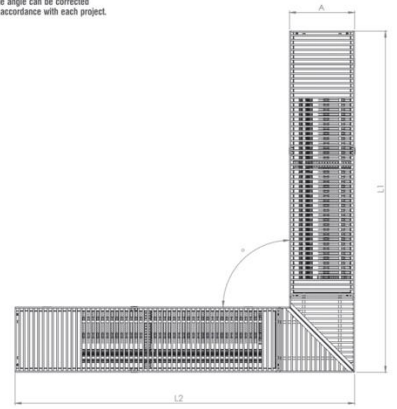


MITRED CORNERS

CURVED TRENCH TECHNOLOGY



The angle can be corrected
in accordance with each project.



GRILLS

MODUS



ALUMINIUM GRILLS

ROLL-UP GRILLS

The spacing between spring loaded transverse lamellas of aluminium alloy is delimited by residual rollers made of cured plastic. The lamellas have anodized and tinted surface. Any RAL shade may be reached by powder colour coating.



LINEAR GRILLS

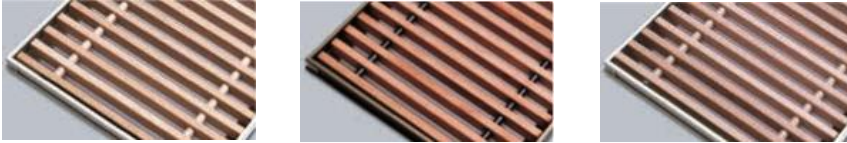
Lengthwise perforated aluminium lamellas are linked by carrying steel bar. Residual rollers of cured plastic delimitate the spacing.



WOODEN GRILLS

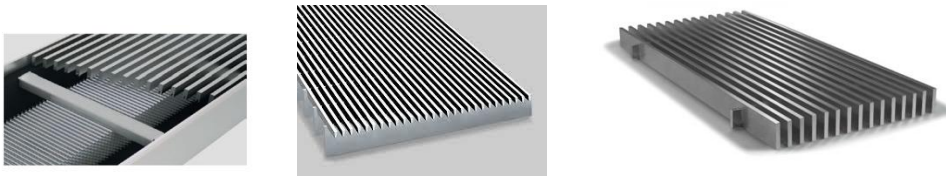
ROLL-UP GRILLS

The spacing between spring loaded oak or beech lamellas is delimited by residual rollers made of cured plastic. The surface is raw or stained.

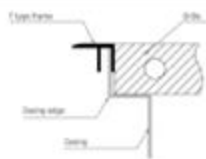
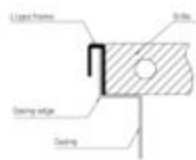
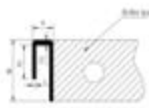


STAINLESS STEEL GRILLS

Stainless steel rectangular profiles are linked by steel drawbars. The spacing of lamellas is delimited by residual metal rollers. A fix non-rolling grill.



FRAMES



Information on design

MODUS XE are suitable for use in all kinds of buildings.

They are generally positioned directly in front of the external facade without a large gap. MODUS XE can provide cost-effective heating, particularly in front of large areas of glazing.

Heating Element

- Nickel-Chromium wire heating element encased in steel sheath with aluminum fins (standard)
- Stainless steel heating element with aluminum fins (optional)

Outlet

MODUS XF are positioned with output on the façade side. If it is arranged on the room side, the high air output would result in lower levels of comfort in the occupied zone.

Sound Level

When designing a system, it should be noted that disruptive noise may occur at higher fan speeds. The respective sound power levels of MODUS XF are indicated in the tables (see "Technical data"). The sound pressure levels were calculated with an assumed room insulation of 8 dB(A). This corresponds to a distance of 2m, a room volume of 100m³ and a reverberation time of 0.5 s (in accordance with VDI 2081).

Modus:
Heating from the floor
with electrical heating
element

Functions

- Room heating (primary or secondary heating),
- Maintenance of uniform air circulation field in the room, and thereby, uniform distribution of heat throughout the room,
- Increasing of cold areas surface temperature,
- Prevention of condensation build-up on glass surfaces,
- Prevention of ingress of cold outside air through big glass surfaces,



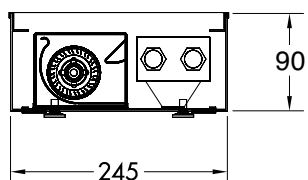
Quick selection

Length	Q (W)
500	750
1000	1500
1500	2250
2000	3000
2500	3750

- 1) $t_{L1} = 20\text{ }^{\circ}\text{C}$,
- 2) 100% fan capacity

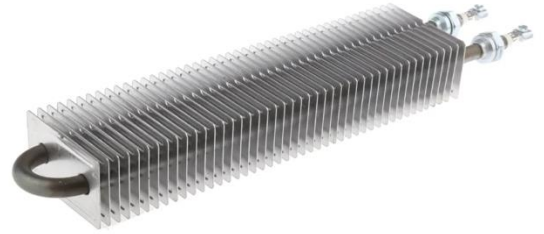
Technical drawing

Modus XE



**Height
90 mm**

Heating Equipment



Custom-molded U-shaped resistors with stainless steel fins significantly expand the air contact area, ensuring high thermal efficiency. These resistors make it possible to equip underfloor convectors, traditionally designed with water batteries, with electric batteries without altering the original design. Designed specifically for underfloor convector manufacturers, these components are crafted in diverse sizes and capacities, using 304 stainless steel, to perfectly align with convector dimensions.

Performance data | Modus XE

Fan control and sound power

1. Values rounded up within the measurement tolerances.
 2. The sound pressure levels were calculated with an assumed room insulation of 8 dB(A). This corresponds to a distance of 2 m, a room volume of 100 m³ and a reverberation time of 0.5 s (in accordance with VDI 2081)
 Sound pressure level < 20 dB (A) and sound power level < 28 dB (A) outside the usual measuring and audible range.

Length	Air flow	Sound pressure level	Sound power level
(mm)	[m ³ /h]	(dB (A))	(dB (A))
950	174	35	43
	144	30	38
	108	24	31
	77	20	27
	46	20	27
1250	292	37	45
	236	32	40
	185	25	33
	133	20	27
	82	20	27
1750	472	37	45
	425	35	43
	352	28	36
	249	20	27
	152	20	27
2150	617	40	48
	503	35	43
	390	28	36
	276	20	28
	168	20	27
2550	812	40	48
	704	37	45
	547	30	38
	390	21	29
	233	20	27
3050	1001	40	48
	904	38	46
	698	31	39
	496	22	30
	298	20	27



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