

LICON HEAT s.r.o.



Quality Function **Design** Tradition



REFERENCES



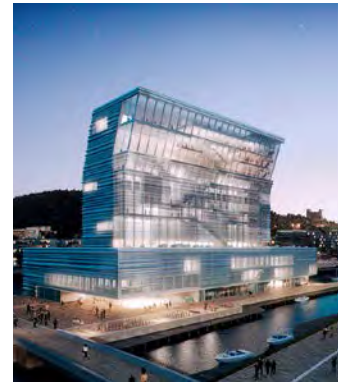
Sky Tower,
Wrocław, Poland



World of Volvo,
Gothenburg, Sweden



Opera House,
Copenhagen, Denmark



Museum Munch Oslo,
Norway



Lachta Centre,
Saint Petersburg, Russia



Ferring,
Copenhagen, Denmark



Landsbankinn,
Reykjavik, Iceland



Fyrstikkalléen 1 AS Oslo,
Norway



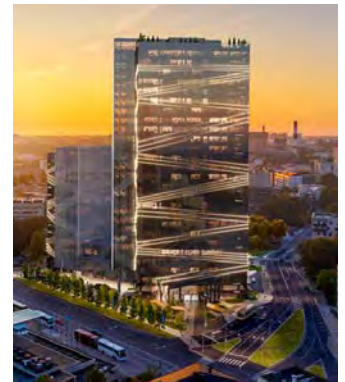
The Circle – airport,
Zurich, Switzerland



MCBA Museum,
Lausanne, Switzerland



H. C. Andersen Museum,
Odense, Denmark



Arter quarter,
Tallinn, Estonia



Einsteinova Business Centre,
Bratislava, Slovakia



Harpa Concert Hall,
Reykjavik, Iceland



Nordea Headquarters,
Copenhagen, Denmark



UBS Pleyad Business Centre,
Saint-Denis, France



TRENCH HEATERS
KORAFLEX



FREE-STANDING
CONVECTORS
KORALINE



WALL-MOUNTED
CONVECTORS
KORAWALL



CONVECTORS
WITH FORCED
CONVECTION

FACADE
CONVECTORS
KORASPACE



CONVECTORS
WITH NATURAL
CONVECTION



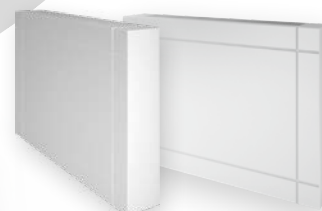
HEAT
EXCHANGERS
KORABASE



TRENCH
HEATERS
KORAFLEX



FREE-STANDING
CONVECTORS
KORALINE



WALL-MOUNTED
CONVECTORS
KORAWALL

PRODUCT PORTFOLIO

We offer a very wide range of products under one brand enabling comprehensive solutions for all types of building and space, all of which contribute to maximum compatibility, simplicity of design and service, individual solutions and financial savings.

LICON HEAT s.r.o.

LICON HEAT s.r.o. has a 50-year tradition of manufacturing convection units. It has been a member of the KORADO Group since 2013. LICON HEAT s.r.o. convectors are sold all over the world. LICON HEAT s.r.o. insists on using the most modern research and development methods, and works closely with leading experts in the field, including higher education institutions (the Technical University of Liberec, the Czech Technical University in Prague, etc.). We use the most up-to-date machines for the manufacture of our products, employing the principles of lean production. Products

are manufactured in the shortest possible time while maintaining maximum material's and design quality. We are a certified ISO 9001 Quality Management supplier. Our products are manufactured and tested according to ČSN EN 442 and ČSN EN 16430 standards. CE marking indicates that LICON convectors conform to the conditions set out in the Declaration of Performance in accordance with Regulation No. 305/2011 of the European Parliament and of the European Council, and further confirmed by notified authority No. 1015, the Engineering Test Institute, Brno.

LICON HEAT s.r.o. convectors are sold all over the world. They are manufactured using the most up-to-date technology at our LICON HEAT plant in Liberec, Czech Republic.



Quality for over 50 years



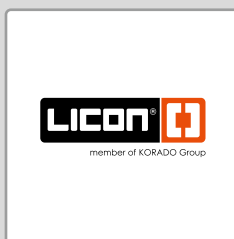
1968

The first LIKOV **steel convectors** were **manufactured** in Liberec in 1968.



1995

Product portfolio modernisation. **Production of the first trench heaters**, significantly improving the available range of design solutions.



2004

Comprehensive transformation of the company, **replacing the original LIKOV name to LICON HEAT s.r.o.**



2013

LICON HEAT s.r.o. acquired by KORADO.



2018

New generation of heat exchangers and free-standing convectors.

Why choose LICON convectors?



A solution for every interior...

We offer trench heaters, wall-mounted, free-standing and special convectors, all of which can be installed unobtrusively, including in stylish interiors.



An effective heating strategy...

Our convectors offer rapid heat availability, high efficiency, low energy consumption, and economic and environmentally-friendly operation.



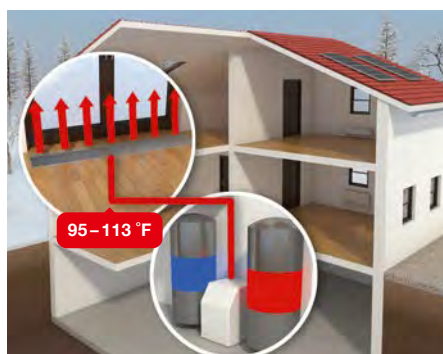
A very wide range...

You can choose from a variety of styles suitable for any interior, including dry and humid environments, and pool-side models. We have convectors and trench heaters that both heat and cool, all available in a wide variety of designs.

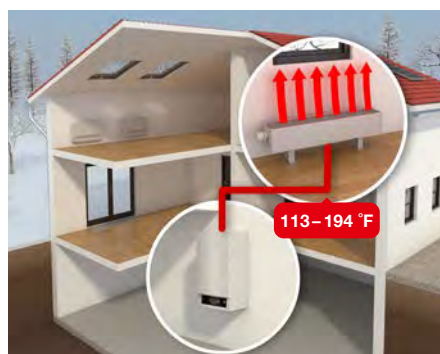


The highest technical level...

Convectors and trench heaters are compatible with heating systems using all sources of heat (heat pumps, gas, electricity, solar energy, wood and biomass), including heating systems with low temperature gradient. They provide safe solutions, displaying low surface temperatures not exceeding 109 °F. Both the natural convection and forced convection convectors and trench heaters are fitted with quality grilles, including pencil proof options, guaranteeing enhanced user safety.



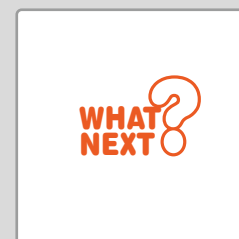
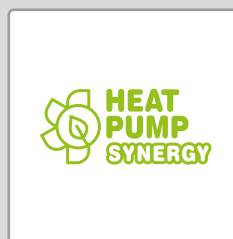
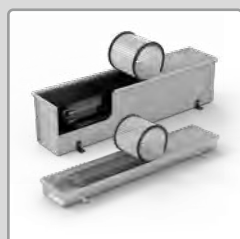
WINTER heat pump



WINTER boilers, hot-water fireplaces, heaters



SUMMER heat pump (dry cooling)



2020

New generation of KORA FLEX trench heaters

2022

In 2022, the KORALINE free-standing convectors portfolio was significantly expanded to include new types, focusing on safety, design and high performance.

2023

Convectors achieve high efficiency even at low temperature gradients and are ideal for heating buildings where the heat source is a heat pump, solar system or condensing boiler.

We will continue improving our products using the most up-to-date technologies and all our experience and knowledge gathered during 55 years of convector production.

KORAFLEX

TRENCH HEATERS WITH NATURAL CONVECTION



- 897 standard sizes
- 23 standard lengths
- 4 model lines

- Heat output up to 11 874 Btu/h
- 16 standard grilles
- Design solution options

KORAFLEX Optimal FKO with natural convection

Our widest range of trench heaters. Available in Economic and Exclusive versions, may be fitted with the entire range of grilles and frames.



KORAFLEX Thin FKT with natural convection

Trench heater with lowest unit height 2.4". This model is particularly suited to interiors with low floor depth. Thin trench heaters may only be fitted with Thin grilles and Thin frames. Available in Economic and Exclusive versions.



KORAFLEX Basic FKB with natural convection

Economic model suitable for design solutions. Manufactured from non-lacquered galvanized steel.

KORAFLEX Pool FKP with natural convection

For humid environments, manufactured from AISI 316 stainless steel finished with hem, RAL 9006 grey lacquered heat exchanger.



KORAFLEX

TRENCH HEATERS WITH FORCED CONVECTION



- 180 standard sizes
- 12 standard lengths
- 3 model lines
- Heat output up to 45 842 Btu/h
- Cooling output up to 3 531.57 Btu/h
- 16 standard grilles
- Safe regulation guaranteeing precise fan rotation and declared output
- 24 V DC or 230 V AC regulation
- Design solution options



KORAFLEX Pool-V FVP with forced convection



Model line for humid environments. Made of AISI 316 stainless steel, with sloping base and dividing partition as protection against flooding. Swimming pool model may be fitted with aluminium grille. Pool trench heaters are finished with hems replacing frames.



Unsuitable for salt water pools.



KORAFLEX Optimal-V FVO with forced convection



Our widest range of 24 V DC powered trench heater models with forced convection. Available in Economic and Exclusive versions, fitted with RAL 9005 black lacquered heat exchangers. The KORAFLEX Optimal-V range may be fitted with the entire range of grilles.



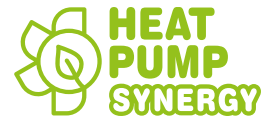
KORAFLEX Energy FVE with forced convection



Derived from the Optimal range, extended by 7.9", housing electrical regulation and 230 V AC connection. Suitable for dry environments for heating only. Installation of the device must be carried out by persons with the relevant electro technical qualifications. Proper inspection and testing of the electrical installation must be carried out prior to commissioning.

KORAFLEX HEATING AND COOLING

TRENCH HEATERS WITH FORCED CONVECTION



- 17 standard sizes
- 14 standard lengths
- 2 model lines

- Heat output up to 36 663 Btu/h
- Cooling output up to 8 070 Btu/h
- Design solution options



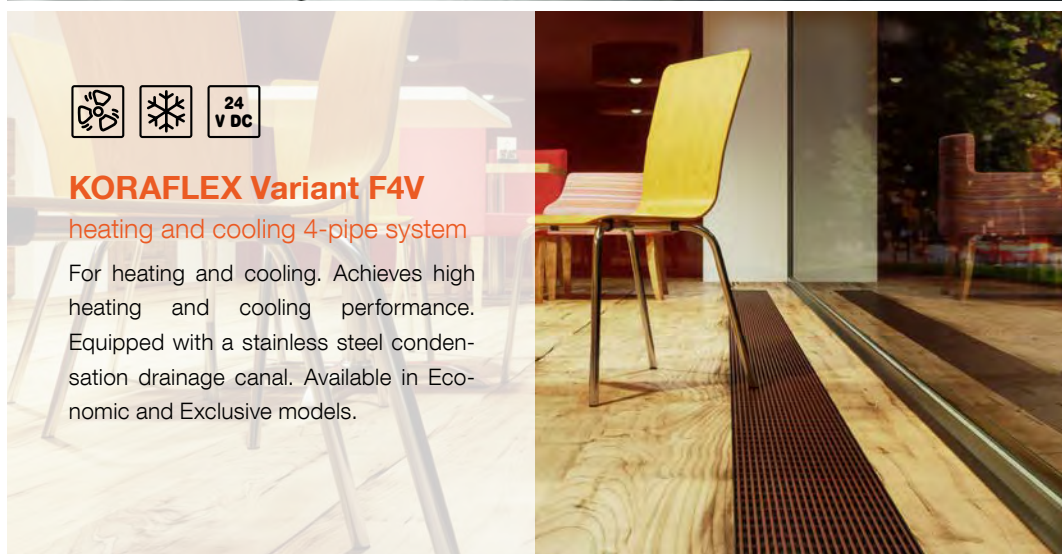
KORAFLEX Variant F2V model, heating or cooling 2-pipe system

For heating or cooling. Achieves high heating and cooling performance. The F2V model is fitted with a stainless steel condensation drainage canal.



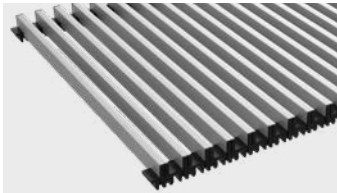
KORAFLEX Variant F4V heating and cooling 4-pipe system

For heating and cooling. Achieves high heating and cooling performance. Equipped with a stainless steel condensation drainage canal. Available in Economic and Exclusive models.



KORAFLEX GRILLES

Aluminium elox



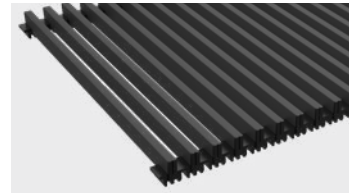
Roll-up alu/silver



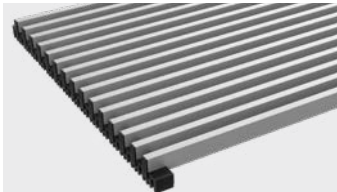
Roll-up alu/dark bronze



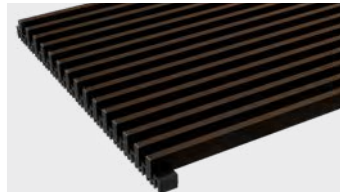
Roll-up alu/light bronze



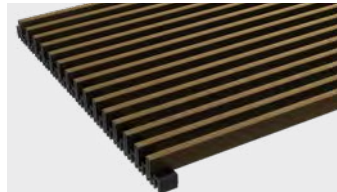
Roll-up alu/black



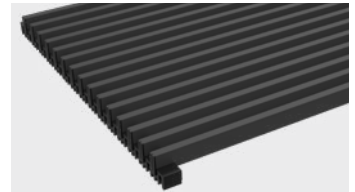
Linear alu/silver



Linear alu/dark bronze

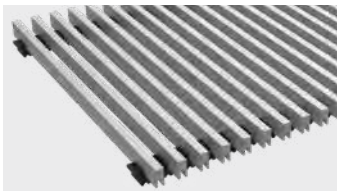


Linear alu/light bronze

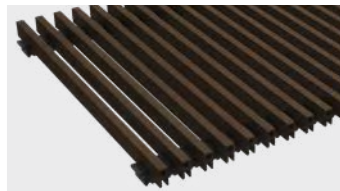


Linear alu/black

Thin – aluminium elox



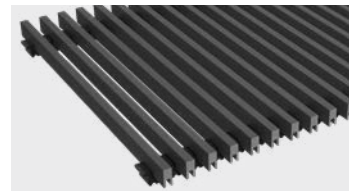
Roll-up alu/silver



Roll-up alu/dark bronze



Roll-up alu/light bronze

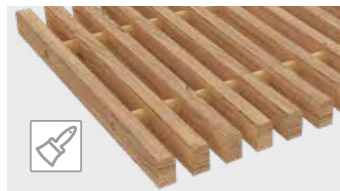


Roll-up alu/black

Wood



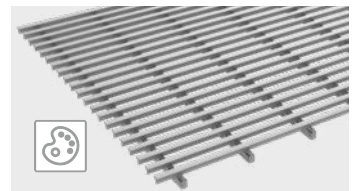
Roll-up natural/lacquered beech



Roll-up natural/lacquered oak



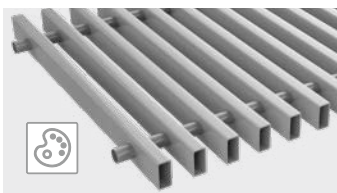
Roll-up natural/lacquered mahogany
(upon request)



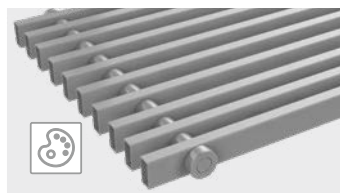
Cross/steel, RAL 9006 lacquer
(upon request)

Cross

Steel

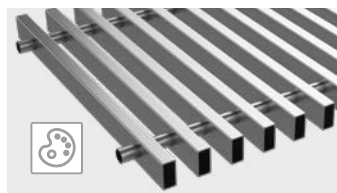


Roll-up steel, RAL 9006 lacquer

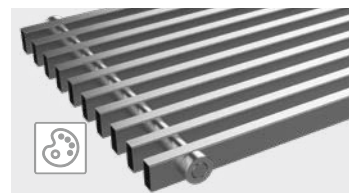


Linear steel, RAL 9006 lacquer

Stainless steel



Roll-up/stainless steel

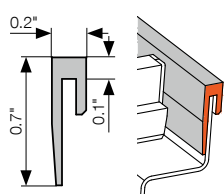


Linear/stainless steel

KORAFLEX FRAMES

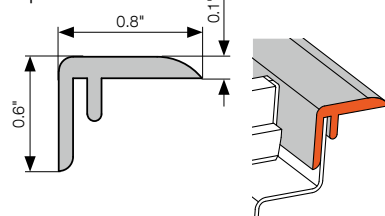
U-frame

Standard

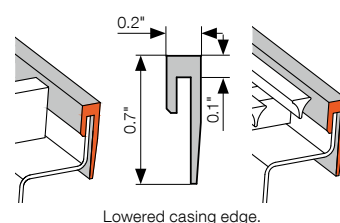


F-frame

Optional

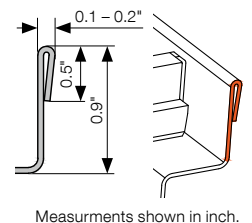


Thin frame



Cross frame

Hem



Lowered casing edge.

Measurements shown in inch.

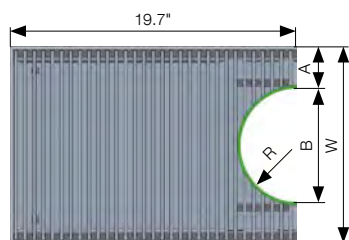
DESIGN MODULES

TRENCH HEATERS

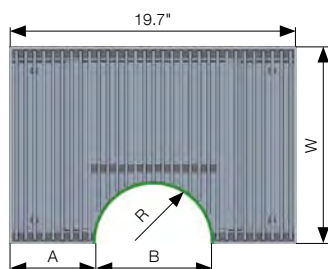
Our modular system was developed to simplify the installation of trench heaters in unusual interiors, and to enable rapid processing of orders and quotations for projects. Modules are design elements

only – they are not fitted with heat exchangers. **The wide range of design modules means quick and easy selection of trench heater systems made to suit your particular interior.**

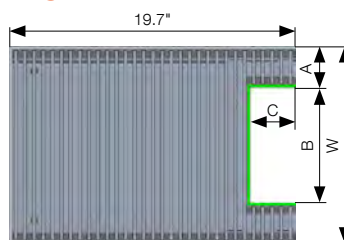
MR-A



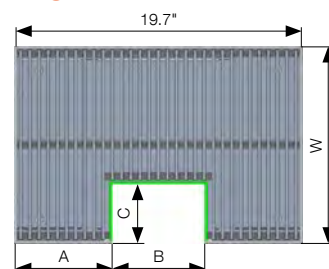
MR-B



MC-A



MC-B

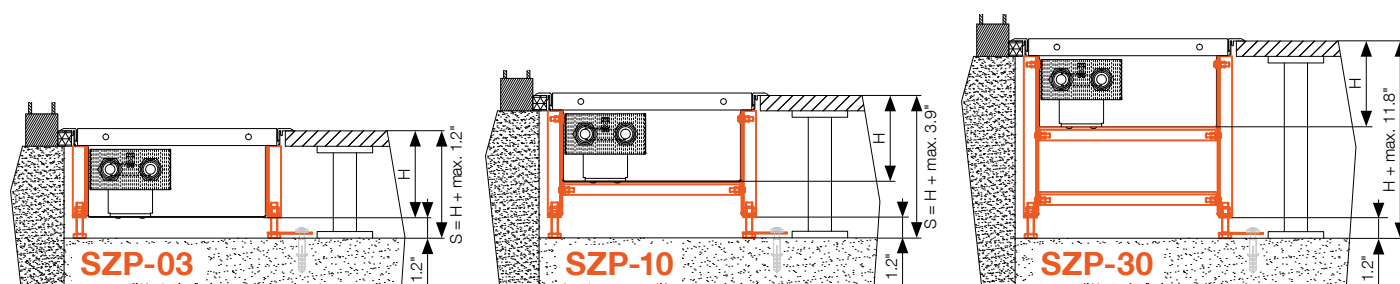


RAISED FLOOR INSTALLATIONS



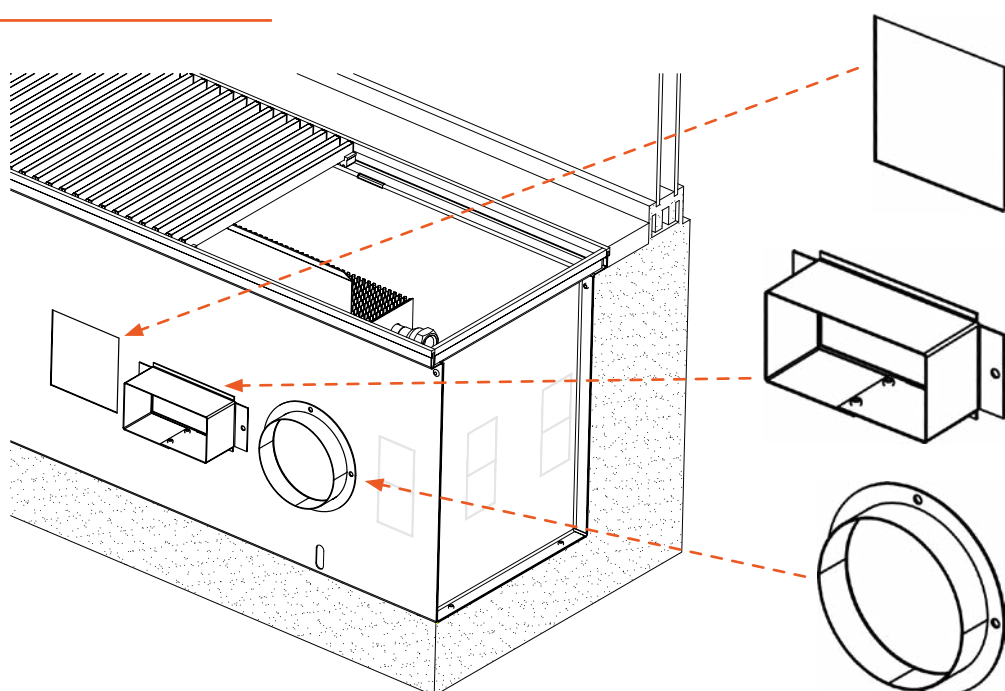
Raised floor supports offer a stable and effective solution for raised floor trench heater installations. Supports are made of non-lacquered

steel, are suitable for raised floors for a depth of up to 500 mm and can be used with trench heaters with both natural or forced convection.



AIR CONDITIONING CONNECTIONS

TRENCH HEATERS



Opening for air conditioning connection

- optional alteration to construction
- measurements as per specifications
- quotation on request

Rectangular flange

- optional accessory
- measurements as per specifications
- quotation on request

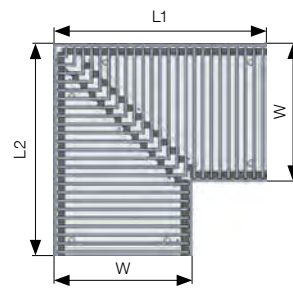
Circular flange

- optional accessory
- measurements as per specifications
- quotation on request

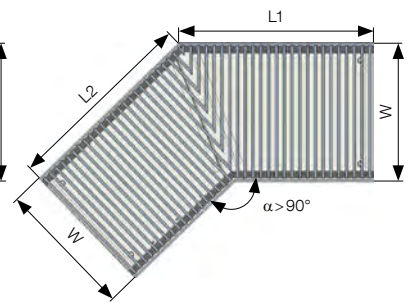
CORNER PARTS

Corner parts are the ideal solution to ensure seamless connections of KORAFLEX trench heaters in the corners of rooms. Corner parts are design elements only – they are not fitted with heat exchangers.

MA-A

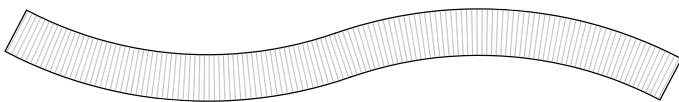


MA-B



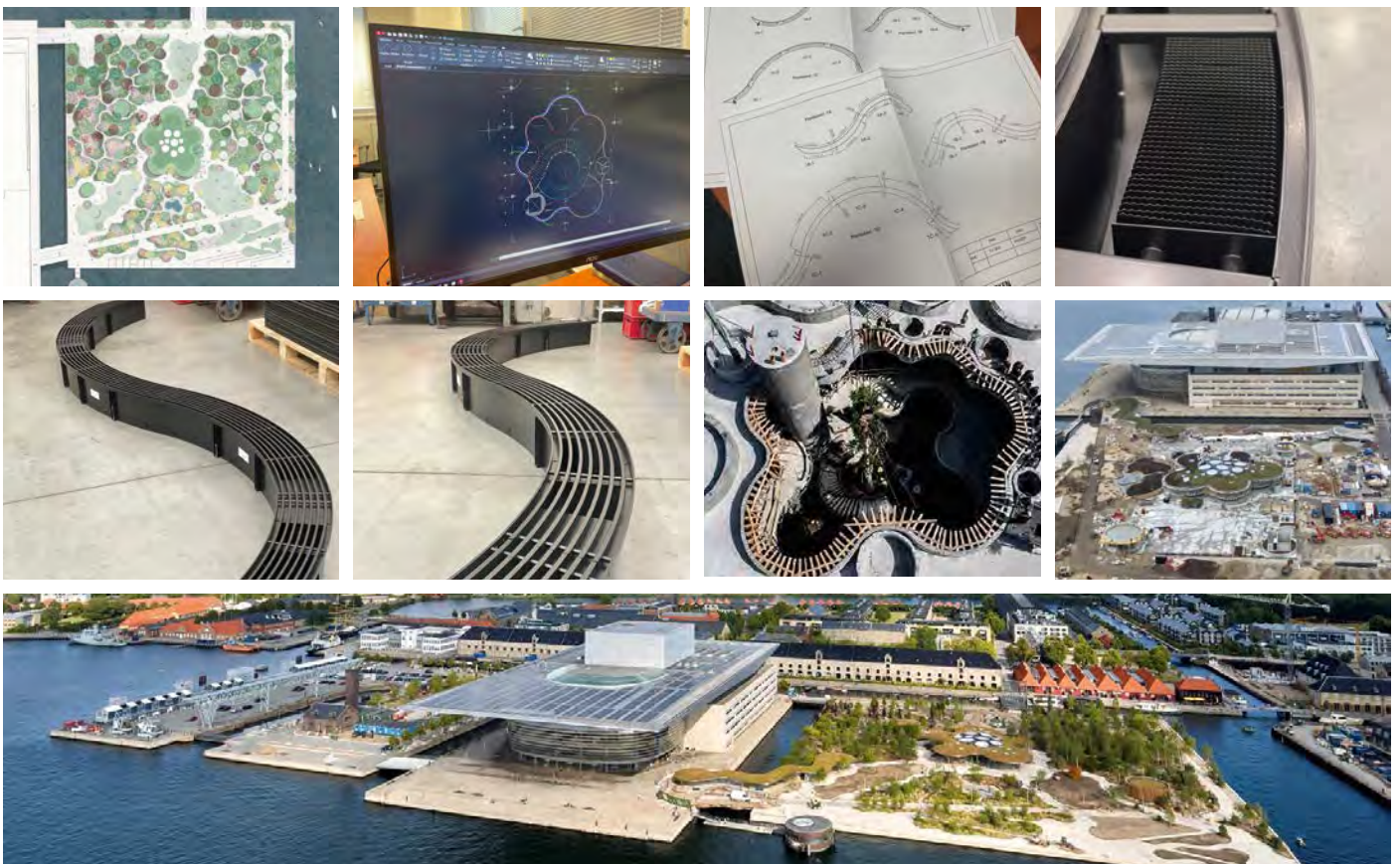
ANGLED AND CURVED DESIGNS

Unified style and technical design for every interior, elegant continuous convectors along the walls of an entire room, available in angled and curved designs. These elements are equipped with heat exchangers.



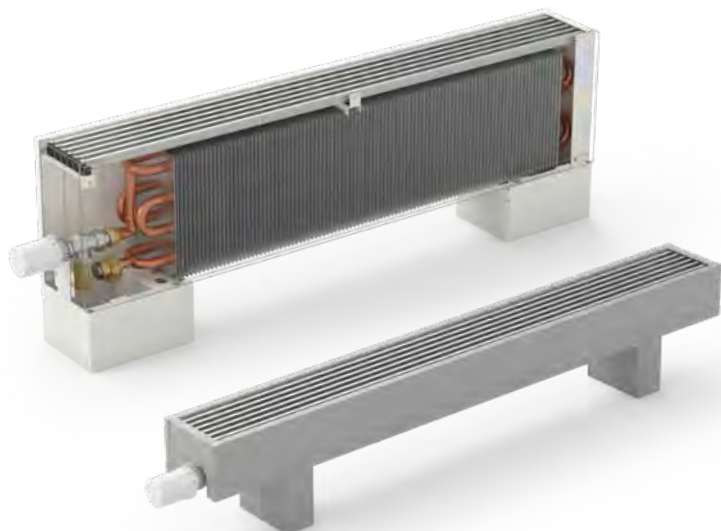
PROJECT SHOWCASE

Operaparken, Copenhagen, Denmark

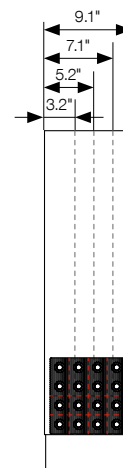
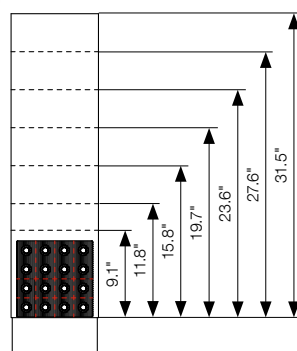


KORALINE

FREE-STANDING CONVECTORS WITH NATURAL CONVECTION AND DESIGN GRILLE



- 756 standard sizes
- 16 standard lengths
- 2 model lines
- Heat output up to 25 250 Btu/h
- May be installed on the floor or walls
- Low surface temperature
- High heat output
- Modern design



KORALINE Optimal LKO with natural convection

Are characterized by design and output. They are fitted with a high quality silver elox aluminium grille. Given the diverse portfolio and the optimal output, convectors in this model line are ideal for heating private houses, residential and office buildings.



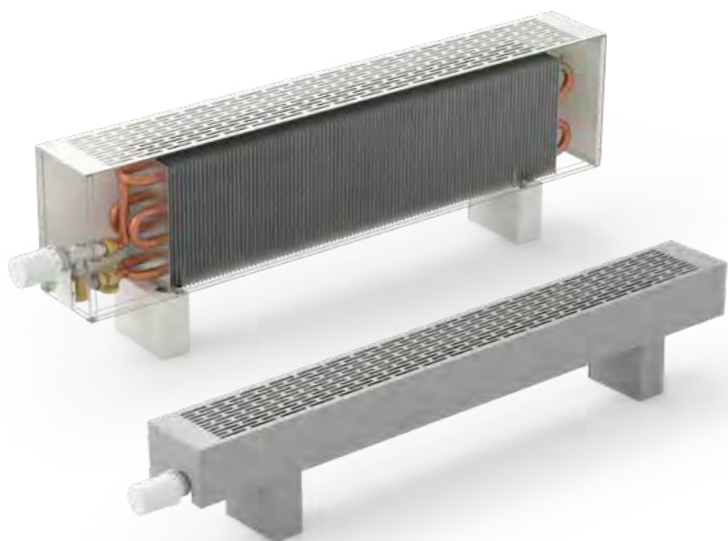
KORALINE Power LKW with natural convection

Is the most extensive model line and features a high-performance heat exchanger with double the standard area of uniquely shaped fins. This model line provides high heat output while maintaining a modern design. Convectors are fitted with a high quality silver elox aluminium grille.

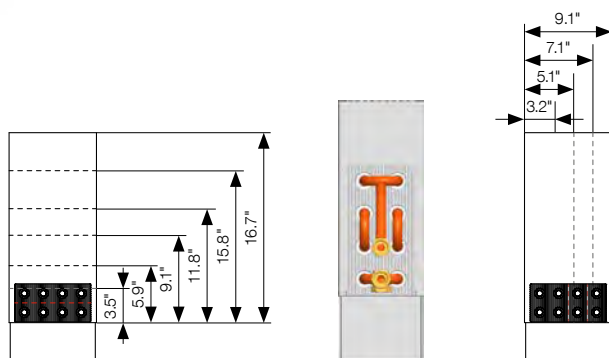


KORALINE

FREE-STANDING CONVECTORS WITH NATURAL CONVECTION AND PERFORATED SAFETY GRILLE



- 480 standard sizes
- 16 standard lengths
- 2 model lines
- Heat output up to 25 250 Btu/h
- May be installed on the floor or walls
- Low surface temperature
- High heat output
- Perforated safety grille



KORALINE Basic LKB with natural convection

Is the standard version of our low surface temperature free-standing convectors. In this model line the safety grille is perforated directly in the galvanized steel casing. Optimal outputs and a favourable price make KORALINE Basic the ideal model line for eating private homes, apartment complexes and office buildings.



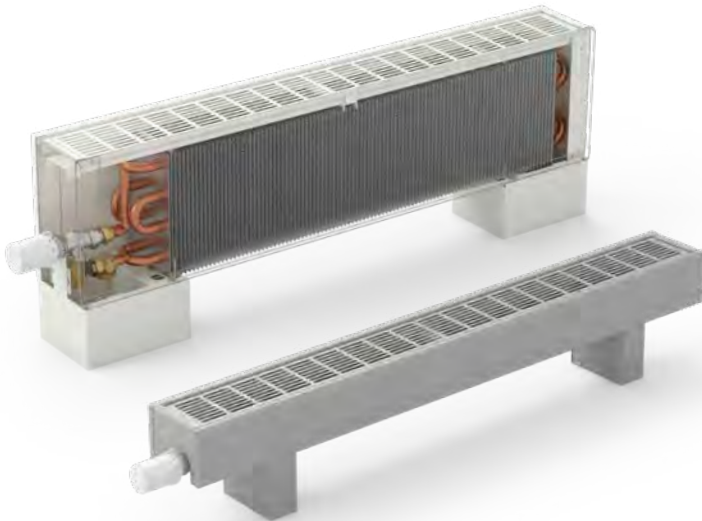
KORALINE Combi LKC with natural convection

KORALINE Combi LKC models house a high performance heat exchanger with double the standard area of fins. A safety grille is an integral part of the casing – it is perforated directly in the galvanized steel casing body. Thanks to their compact dimension, maximal output, and low surface temperature, the KORALINE Combi LKC model is suitable for heating a variety of interiors starting from small family houses up to large public premises.

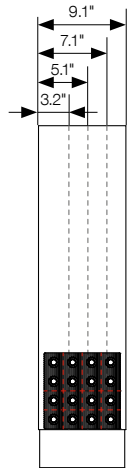
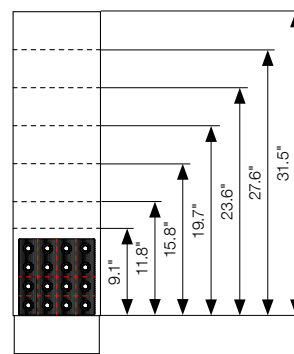


KORALINE

FREE-STANDING CONVECTORS WITH NATURAL CONVECTION
WITH SYMMETRIC SAFETY PENCILPROOF GRILLE AND RESISTANT DESIGN



- 561 standard sizes
- 11 standard lengths
- 2 model lines
- Heat output up to 17 388 Btu/h
- May be installed on the floor or walls
- Low surface temperature
- High heat output
- Emphasis on safety



KORALINE Safe LKS with natural convection

For safety reasons, the convector casing is made of 0.06" thick sheet steel, its front edge is bevelled, and is fitted with a symmetric pencil-proof grille. Thanks to its safety features and low surface temperature, this model line is ideal for installation in educational, healthcare, administrative and public premises.



KORALINE Max LKM with natural convection

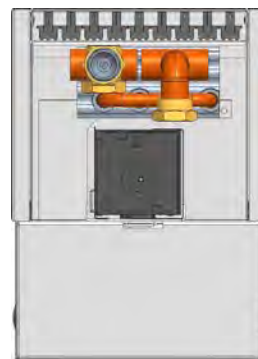
This line features a combination of heightened safety level and maximum output. The casing is made of 0.06" thick sheet steel and is equipped with a symmetric pencil-proof grille. The body houses a high-performance heat exchanger with double the standard area of aluminium fins.



FREE-STANDING CONVECTORS WITH FORCED CONVECTION



- 12 standard sizes
- 6 standard lengths
- 1 model lines
- Heat output up to 20 681 Btu/h
- May be installed on the floor
- Low surface temperature
- Version with forced convection
- High heat output



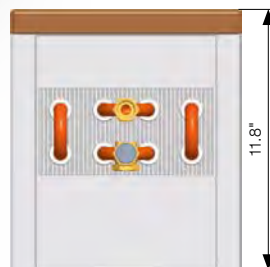
An exclusive version of free-standing convectors fitted with economical 24 V DC fans with minimum power input. Achieves very high performance even with low temperature gradients. The model is available, equipped with aluminium grilles.

KORALINE

BENCH CONVECTOR WITH WOODEN BENCH TOP



- 12 standard sizes
- 6 standard lengths
- 2 model size ranges
- Heat output up to 12 028 Btu/h
- Solid wood or veneer bench tops
- 3 bench top wood options: beech, oak or American walnut
- Version for damp/humid environments
- High heat output
- Sophisticated design



KORALINE Optimal LDO with natural convection

Bench convectors fitted with beech, oak or American walnut bench tops. Manufactured from RAL 9016 white lacquered galvanized sheet steel. Designed for dry environments in halls or administrative buildings. Built to bear static weight and suitable for sitting.



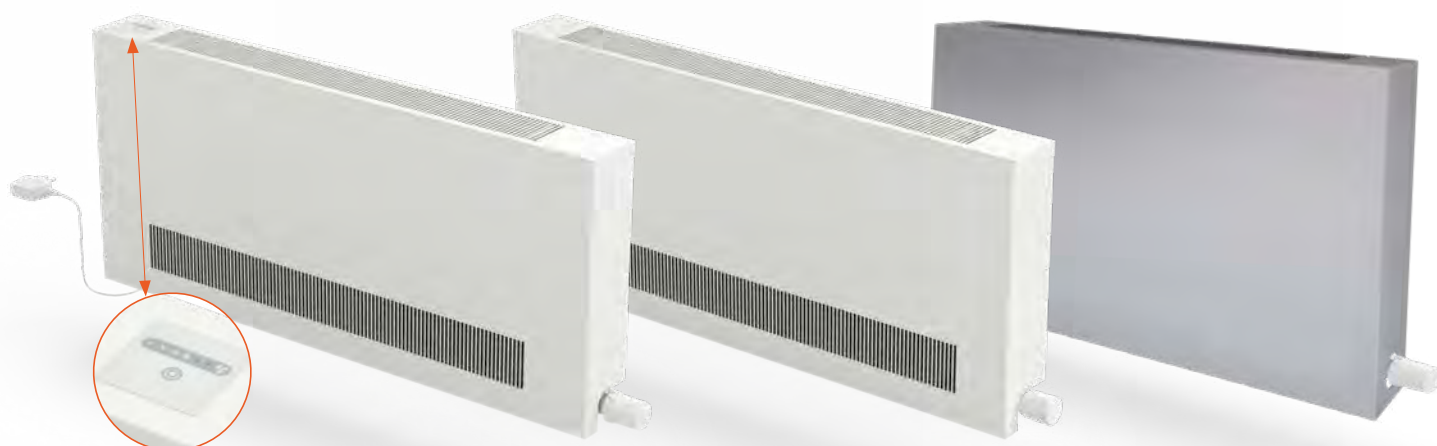
KORALINE Pool LDP with natural convection

A proven smart combination of design, performance and characteristics. KORALINE Exclusive is fitted with RAL 9016 white lacquered AISI 316 stainless steel casing. Where fitted with American walnut bench tops, this model is suitable for installation in environments with increased humidity.



KORAWALL

WALL-MOUNTED CONVECTORS



- 57 standard sizes
- 7 model lines
- Heat output up to 30 572.8 Btu/h
- Cooling output up to 4 841.83 Btu/h
- Heating and cooling functions
- Models with forced and natural convection
- PLAN design with perfectly flat front panel

KORAWALL Optimal WKO



with natural convection

Wall-mounted convectors have long been used in households and commercial premises. They achieve high performance even though they are small in size. KORAWALL convectors feature a very low and safe surface temperature.



KORAWALL



Direct WVD with forced convection and autonomous control 24 V DC

The wall-mounted convector is a powerful unit suitable for low-temperature heating and equipped with simple autonomous control including an integrated keypad allowing the fan to be controlled directly on the unit. Connection to the mains is via an adaptor.

KORAWALL Optimal-V WVO, Pool-V WVP with forced convection



Developed for low-temperature heating systems. High performance is guaranteed even at very low temperature gradients. Ideal for installation where the heat source is a heat pump, solar system or condensing boiler. In the summer months they can be used for cooling without causing condensation.



KORABASE

HEAT EXCHANGERS



- 168 standard sizes
- 12 standard lengths
- 7 size ranges
- Heat output up to 18 767 Btu/h
- Design solution options
- Counter-flow and single-stream connections



KORASPACE

FACADE CONVECTORS



- Optional colours available according to RAL colour chart
- Design solution options



KORABASE Economic, Exclusive

KORABASE heat exchangers are suitable for individual installations, especially in spaces where uniformity of interior design materials is paramount. Heat exchangers are manufactured from copper tubes and aluminium fins. Exclusive version is lacquered black RAL 9005.



KORASPACE FK with natural convection

Facade convectors are an ideal and effective solution for buildings with large all-glass facades, when the transmission of cold air during the winter months may significantly affect the microclimate of the interior. KORASPACE facade convectors are installed directly onto the facade, thereby preventing the direct transmission of cold air into the interior of the building. Warm air rising from the convector mixes with descending cool air to create

a thermal barrier, providing greater comfort without causing condensation on the surface of the glass.

- Excellent controllability and rapid temperature rise
- No transmission of heat to the exterior of the facade
- Space for further, parallel distribution systems

COLOUR CHART

			
code 10 White RAL 9016	code 39 Black RAL 9005	code 59 White texture RAL 9016	code 60 Black texture RAL 9005
			
code 14 Jasmine	code 16 Bahama	code 22 Manhattan	code 26 Pergamon
			
code 32 Anthrazit Metallic	code 35 Silber RAL 9006	code 37 Red RAL 3001	code 40 Alloy Black
			
code 42 Gold	code 45 Pearl Brown	code 47 RAL 9007	code 48 RAL 9006
			
code 49 RAL 7024	code 51 RAL 7016	code 54 RAL 7015	code 57 RAL 7040

Notice:

There is a potential for variations in colour between the colour chart and heating units. The standard colour version is white RAL 9016 or black RAL 9005. Other colours shown in the Colour Chart may be ordered at an extra charge according to the valid price list.



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