konveka

FH

TRENCH HEATERS
FH4-H and FH4-M

Created for modern buildings and heat-pump systems

HEATING

EC FANS
MAXIMUM EFFICIENCY, MINIMUM NOISE

10 YEARS
WARRANTY

QUALITY | RELIABILITY | INNOVATION

MADE IN EUROPE

konveka

ABOUT FH

Created for modern buildings to work with heat pumps

FH trench heaters with EC fans are an advanced heating solution designed to ensure maximum comfort, efficiency and reliability even in the most demanding conditions.

A compact design, innovative solutions and the latest control options allow FH to match modern architecture perfectly and work together with contemporary heating systems.

QUALITY | RELIABILITY | INNOVATION

MADE IN EUROPE

WHY FH?

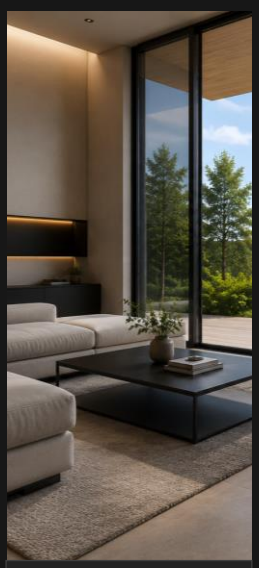
Advanced technology. Reliable result.

FH trench heaters combine high heating output, extremely quiet operation and durability. Every detail is designed to ensure flawless performance and maximum comfort every day.

25 BAR	EC FANS	10 YEARS	86 MM
working pressure		warranty	height
Suitable for very tall buildings	Maximum efficiency, minimum noise, low energy consumption	Durability, reliability and peace of mind for many years	Minimal dimensions - more possibilities in architecture

WHERE DOES FH FIT?

One solution - many different spaces



Residential houses

Offices

Hotels

Restaurants

Glazed buildings

FH trench heaters are perfect for A++ class buildings and heat-pump systems and any projects where aesthetics, comfort and energy efficiency matter

HOW TO CHOOSE THE RIGHT MODEL?

FH trench heaters are designed to precisely match the needs of different projects. The right model choice ensures maximum comfort, efficiency and a seamless architectural solution.

KEY SELECTION CRITERIA

HEATING NEED

Choose a model according to the required thermal output and the room heat losses

DIMENSIONS

Assess the installation conditions and the possible location by the window

DESIGN NEEDS

Grille type, frame finish and visibility in the interior

ACOUSTIC COMFORT

Both models emit the same sound level - the fans are identical

INTEGRATION

The ability to integrate control into BMS systems and smart solutions

MODEL SELECTION PROCESS

01 → **02** → **03** → **04** → **05**

01 ASSESS ROOM NEEDS

Determine the room heat losses

02 CHOOSE A MODEL

Choose a model whose output matches the determined losses

03 ASSESS THE INSTALLATION LOCATION

Assess whether the chosen model fits the designated installation location

04 CHOOSE GRILLES AND FRAMES

Choose the grille material and colour according to the interior design requirements

05 INTEGRATE THE CONTROL

Choose the control method: local or integrated into the building management system

NEED HELP?

Our team will help select the optimal solution for your project - from technical analysis to implementation

CONSULTATION AND TECHNICAL SUPPORT

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FH4-H VS FH4-M

TWO MODELS. DIFFERENT DIMENSIONS. THE SAME COMFORT.

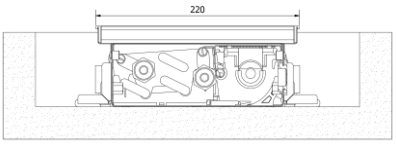
Both models are intended for heating only, have identical fans and the same sound level. The main difference is the size of the heat exchanger, which determines the width and the heating output.

FH4-H MORE POWERFUL MODEL	FH4-M COMPACT MODEL
220 mm WIDTH	**177 mm** WIDTH
50% LARGER HEAT EXCHANGER	**50% SMALLER** HEAT EXCHANGER
~15% LARGER HEATING OUTPUT	**~15% SMALLER** HEATING OUTPUT
PURPOSE Recommended when the room heat losses are higher and maximum heating output is required	**PURPOSE** Recommended when the room heat losses are lower and a smaller output is sufficient

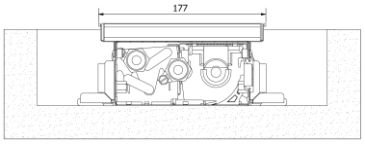
WHICH MODEL TO CHOOSE?

If the heating output of the FH4-M is sufficient for your project - choose the FH4-M. It takes up less space, looks great by narrower windows and is the more optimal solution.

FH4-H

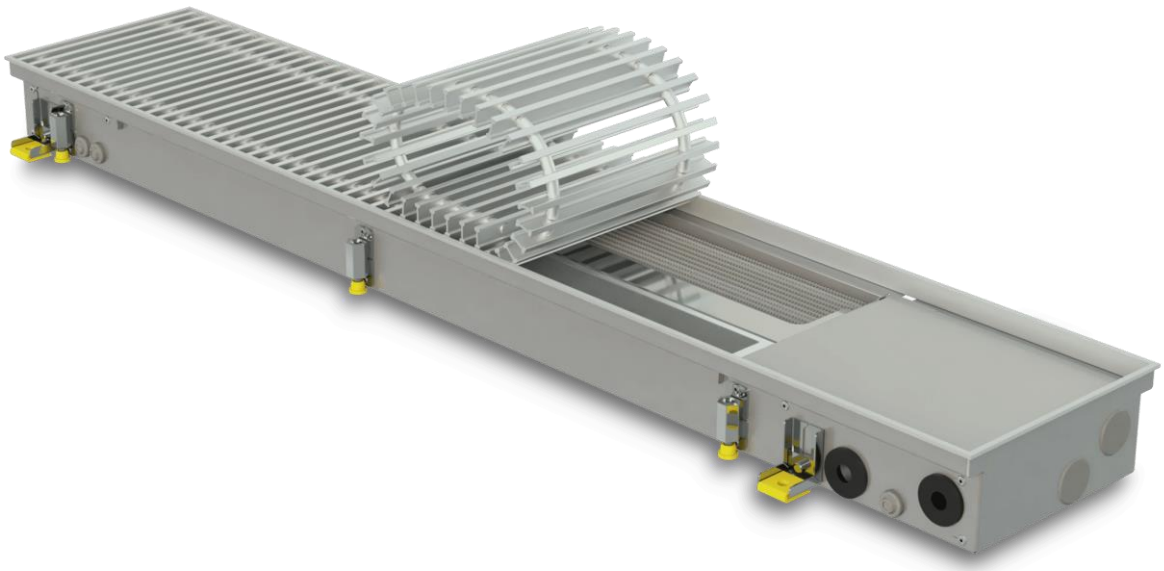


FH4-M



ENGINEERING, THAT YOU CAN FEEL.

FH trench heaters are designed to ensure quiet operation, maximum comfort and durability in modern buildings



FANS

- 24 V DC motors
- Low energy consumption
- Extremely quiet operation
- Precise control

FROM **17 dB(A)**

ACOUSTIC INSULATION

- Vibration damping
- Lower noise transmission
- Comfort in living spaces

QUIET OPERATION

STAINLESS STEEL

- Corrosion resistance
- Durability
- Sturdy construction

FOR THE LONG TERM OPERATION

AIR FILTER

- Dust protection
- Always a clean heat exchanger
- Easier maintenance

CLEAN SYSTEM

EVERY DETAIL - PRECISELY THOUGHT OUT

Top-quality materials and careful manufacturing ensure durability, reliability and comfort for many years

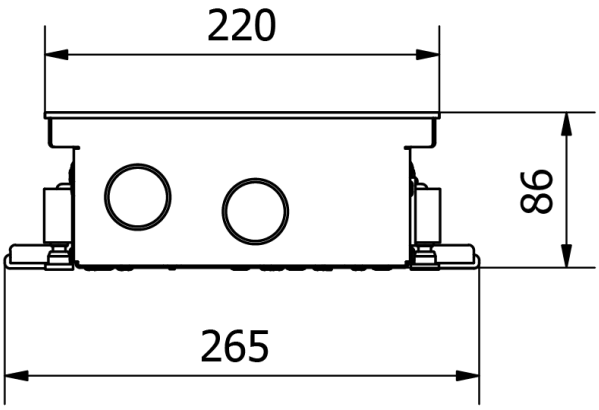
TECHNICAL DATA

KEY PARAMETERS

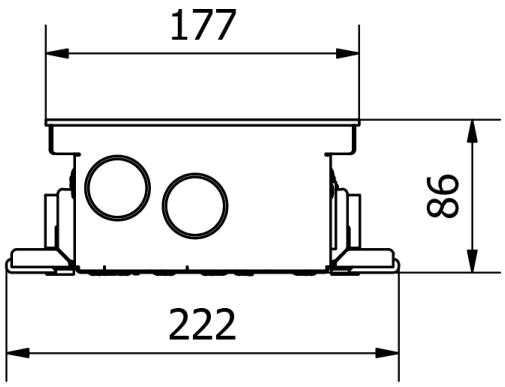
PARAMETER	FH4-H MORE POWERFUL MODEL	FH4-M COMPACT MODEL
Heating output (75/65/20 °C)	up to 7046 W	up to 6007 W
Air flow	17 up to 948 m^3/h	166 up to 994 m^3/h
Width	220 mm	177 mm
Height	86 mm	86 mm
Length	800 - 2960 mm	843 - 3000 mm
Fans	Tangential, with EC motors	Tangential, with EC motors
Sound pressure	17 - 37 dB(A)	17 - 37 dB(A)
Working pressure	16 bar	16 bar
Maximum temperature	110 °C	110 °C

DIMENSIONS

FH4-H



FH4-M



WE RECOMMEND

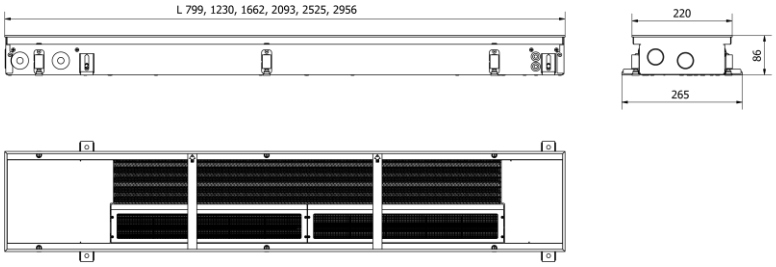
FH trench heaters match perfectly with modern heating, ventilation and control systems, ensuring maximum comfort and energy efficiency.

HEAT PUMPS | SMART CONTROL | VENTILATION SYSTEMS | LOW-TEMPERATURE SYSTEMS

FH4-H

TECHNICAL DATA

Powerful trench heaters created for rooms with higher heat demands. Ideal for heat-pump systems

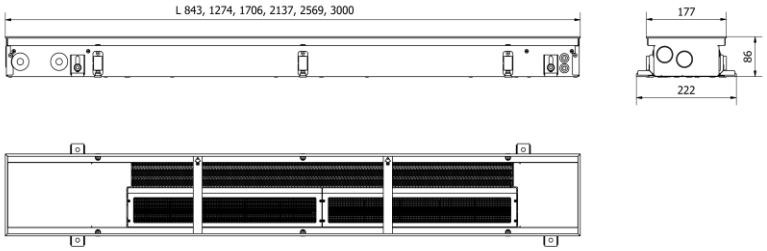


Model			FH4-H 80	FH4-H 123	FH4-H 166	FH4-H 209	FH4-H 252	FH4-H 296
Air flow	m3/h	100%	158	316	474	632	790	948
		80%	126	252	378	504	630	756
		60%	89	178	267	356	445	534
		40%	55	110	165	220	275	330
		20%	17	35	52	70	87	104
Heat output 55/45/20°C	Fan speed	100%	714	1 427	2 141	2 854	3 568	4 281
		80%	595	1 190	1 785	2 380	2 975	3 570
		60%	461	923	1 384	1 845	2 306	2 768
		40%	313	625	938	1 250	1 563	1 876
		20%	149	298	447	596	745	894
Supply voltage			220~230V / 1F / 50 or 60Hz					
Max. el. power (with actuator)	W		16,3	21,1	25,9	30,7	35,5	40,3
Max. el. current (with actuator)	A		0,07	0,09	0,11	0,13	0,15	0,18
Sound pressure level	dB(A)	100%	30	31	32	34	36	37
		80%	24	26	27	28	30	31
		60%	19	20	21	21	23	24
		40%	17	18	19	19	20	21
		20%	-	-	-	-	18	19
Max. water flow	l/h		61	123	184	245	307	368
Max. pressure loss	kPa		0,05	0,4	1,4	2,8	5,3	8,5
Max. working pressure	MPa		1,6					
Fan type			Tangential					
Motor type			Brushless EC					
Casing material			Stainless steel					
Heat exchanger material			Copper - aluminium					
Pipe connections			1/2" internal thread					
Unit dimensions	mm		799/220/86	1230/220/86	1662/220/86	2093/220/86	2525/220/86	2956/220/86
Package dimensions	mm		810/230/89	1240/230/89	1670/230/89	2105/230/89	2535/230/89	2970/230/89
Weight net	kg		4,75	6,62	9,74	11,3	14,5	16,51
Gross weight	kg		5,25	7,3	10,67	12,43	15,88	18,09

FH4-M

TECHNICAL DATA

Compact trench heaters
with a narrower casing - a good choice for rooms with lower heat losses. High efficiency and a low noise level.



Model			FH4-M 84	FH4-M 127	FH4-M 170	FH4-M 214	FH4-M 257	FH4-M 300
Air flow	m3/h	100%	166	331	497	663	828	994
		80%	132	264	396	528	661	793
		60%	93	187	280	373	467	560
		40%	58	115	173	231	288	346
		20%	18	36	55	73	91	109
Heat output 55/45/20°C	Fan speed	100%	605	1 210	1 815	2 421	3 026	3 631
		80%	504	1 008	1 512	2 016	2 521	3 025
		60%	398	797	1 195	1 593	1 992	2 390
		40%	286	572	858	1 143	1 429	1 715
		20%	162	324	486	648	810	973
Supply voltage			220~230V / 1F / 50 or 60Hz					
Max. el. power (with actuator)	W		17,1	22,1	27,2	32,2	37,2	42,3
Max. el. current (with actuator)	A		0,07	0,10	0,12	0,14	0,16	0,18
Sound pressure level	dB(A)	100%	30	31	32	34	36	37
		80%	24	26	27	28	30	31
		60%	19	20	21	21	23	24
		40%	17	18	19	19	20	21
		20%	-	-	-	-	18	19
Max. water flow	l/h		52	104	156	208	260	312
Max. pressure loss	kPa		0,2	0,8	2,7	5,7	12,1	22,0
Max. working pressure	MPa		1,6					
Fan type			Tangential					
Motor type			Brushless EC					
Casing material			Stainless steel					
Heat exchanger material			Copper - aluminium					
Pipe connections			1/2" internal thread					
Unit dimensions	mm		843/177/86	1274/177/86	1706/177/86	2137/177/86	2569/177/86	3000/177/86
Package dimensions	mm		855/187/88	1285/187/88	1715/187/88	2150/187/88	2580/187/88	3010/187/88
Weight net	kg		4,74	6,26	9,00	10,27	12,81	15,34
Gross weight	kg		5,25	6,96	9,89	11,37	14,15	16,87

CONTROL AND DIGITAL INTEGRATION

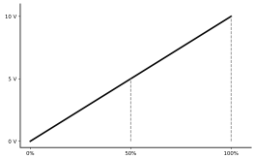
FH trench heaters are fully compatible with modern building management systems. Integrated 24 V DC fan control ensures precise, quiet and energy-saving operation in any conditions.

Room thermostat
TW24

CONTROL OPTIONS

0-10 V CONTROL

Integrated 0-10 V control allows precise fan-speed control across the whole range



EC FANS

High efficiency EC fans with brushless 24 V DC motors

SMART CONTROL

Controlled by WiFi room thermostats TW24 or BMS systems

PRECISE COMFORT CONTROL

Precise temperature control on demand - this is maximum comfort and the lowest operating costs

BIM AND DIGITAL DESIGN TOOLS

All Konveka products are available in BIM format (Revit) and in DWG drawings

All Konveka products are available and continuously updated on the MagiCAD and Sankom design platforms

Selection tables for all Konveka products are available at konveka.com

konveka.com

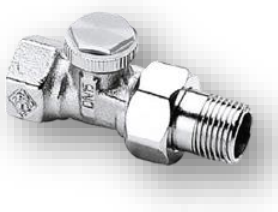
ACCESSORIES

FH trench heaters are offered with a full range of accessories and control equipment, ensuring reliable operation, energy efficiency and easy integration into building management systems

01 THERMOSTATIC VALVE TVSP15

- Working temperature -10°C - +120°C
- Thread 1/2"
- Pressure class PN10
- Kvs - 2,0

02 LOCKSHIELD VALVE (STRAIGHT) LS15



- Working temperature -10°C - +120°C
- Thread 1/2"
- Pressure class PN10
- Kvs - 2,0

03 LOCKSHIELD VALVE (ANGLE) LA15

- Working temperature -10°C - +120°C
- Thread 1/2"
- Pressure class PN10
- Kvs - 2,0

04 ACTUATOR A24NC

- Operating voltage 24 V DC
- El. power - 2.5 W
- Protection class - IP54
- Connection thread M30 x 1.5 mm
- Casing material PC/ABS

05 ROOM THERMOSTAT TW24

- Dimensions 88 x 88 x 43 mm
- Weekly temperature schedule programming
- Working temperature 5-35°C
- Operating voltage - 24V DC, max. relay contact current - 3A
- El. power - 1.5 W

06 CONTROL UNIT CB20

- 24V DC power supply
- Power - 20 W
- Current - 0.84 A
- Removable electrical connection terminals

FULL SYSTEM INTEGRATION
Compatible with the most popular control systems

ENERGY EFFICIENCY
Precise control ensures lower operating costs.

SIMPLE INSTALLATION
Compact accessories and convenient installation

RELIABLE OPERATION
High-quality components for long, trouble-free operation

DECORATIVE GRILLES THAT BECOME PART OF THE INTERIOR

Elegant design.
The highest-quality materials.
Colours that create the character of a space

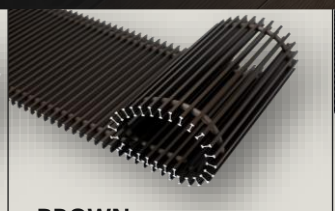
Choose the grilles that
best reflect your project

COLLECTION OF COLOURS AND MATERIALS

SILVER (ALS)

Natural aluminium colour

For bright, modern interiors.



BROWN (AL 10)

A warm and elegant dark-brown coating

For cosy classic interiors

BLACK (AL 50)

A matte black colour giving a character of luxury and modernity

For luxurious and modern interiors

OAK

Natural oak solid-wood grille

For cosy and harmonigous interiors

PREMIUM QUALITY

Top-quality materials and coatings

STRENGTH

Designed to withstand the weight of several adults

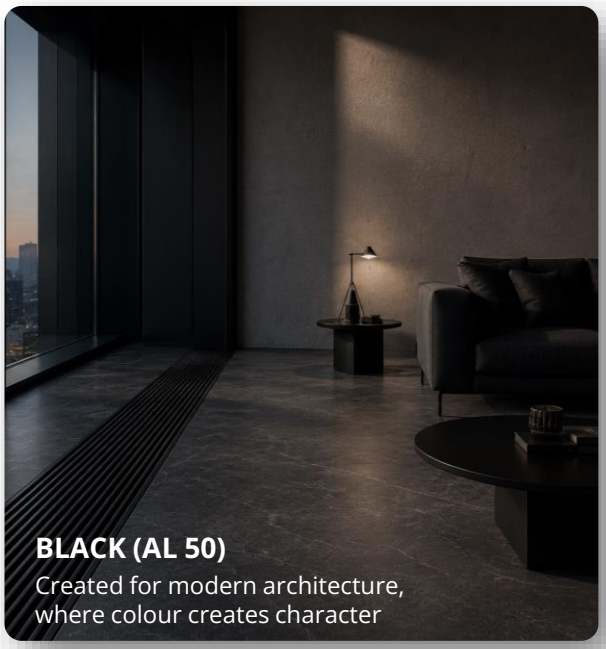
DURABILITY

Materials and coatings resistant to corrosion and UV radiation

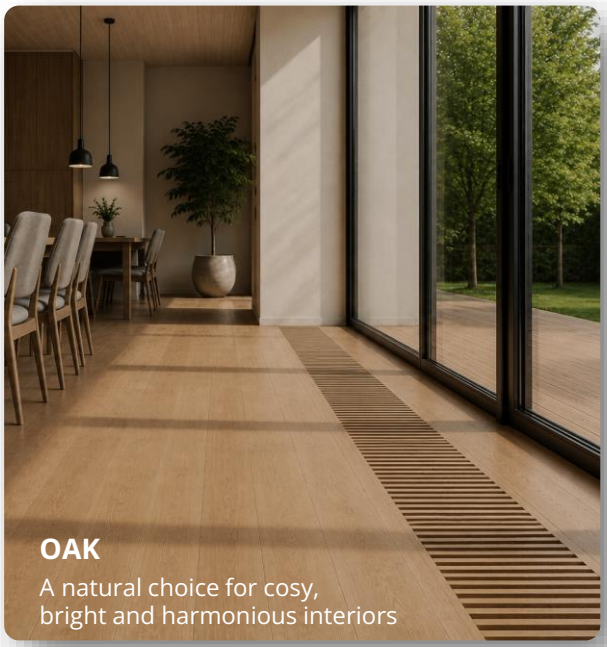
EASY MAINTENANCE

Easily removable - convenient to clean the inside of the heater

DESIGN OPTIONS, TAILORED FOR EVERY INTERIOR



BLACK (AL 50)
Created for modern architecture, where colour creates character



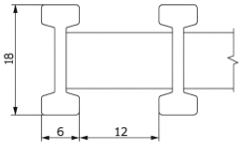
OAK
A natural choice for cosy, bright and harmonious interiors

GRILLE TYPES

ROLL-UP ALUMINIUM GRILLES

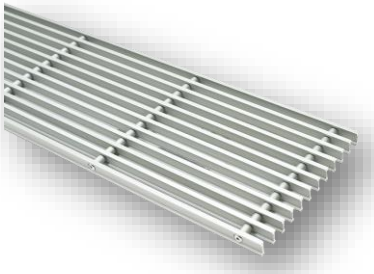
A classic choice that ensures strength and timeless design

PROFILE CROSS-SECTION

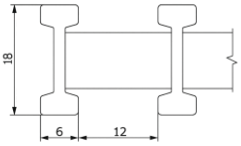


LINEAR ALUMINIUM GRILLES

Elegant lines that visually extend the space and create a seamless look



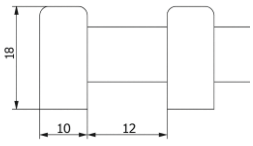
PROFILE CROSS-SECTION



WOODEN GRILLES

The natural beauty and warmth of wood, perfectly matching the highest-class interiors

PROFILE CROSS-SECTION

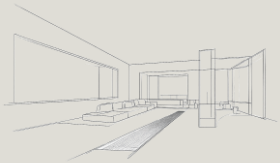


CUSTOM SOLUTIONS

The length, width and colour of the grilles can be adapted to your project needs

CREATED FOR ARCHITECTURE

Created for people who create exceptional spaces



REAL PROJECTS

KONVEKA trench heaters are chosen in prestigious buildings worldwide, where comfort, reliability and architectural aesthetics matter most

RIGA, LATVIA
ADMINISTRATIVE BUILDING

Application
Offices

Product
FH4-H

Grilles
Linear, aluminium

PRIVATE HOUSE
VILNIUS, LITHUANIA

Application
Residential

Product
FH4-H

Grilles
Roll-up, aluminium

HOTEL "BRITANNIA"
TRONDHEIM, NORWAY

Application
Hotel

Product
FH4-M

Grilles
Roll-up, aluminium

RESTAURANT "THE PAVILION"
LONDON, UK

Application
Restaurant

Product
FH4-H

Grilles
Linear, aluminium

ABOUT KONVEKA

KONVEKA is a Lithuanian engineering company that has been creating top-quality trench heaters for contemporary architecture for more than 20 years.

Our solutions combine efficiency, reliability and aesthetics - so that buildings are not only functional but also inspiring

20+

YEARS OF EXPERIENCE

For two decades we have specialized in the field of convectors and fan coils

30+

COUNTRIES

Our products are used worldwide

1 000+

COMPLETED PROJECTS

Reliable solutions in residential, commercial and public buildings

EUROPEAN ENGINEERING

Created in Lithuania, to the highest quality standards

OUR VALUES

ARCHITECTURE FIRST

We create products that naturally blend into modern architecture

RELIABILITY

Top-quality materials and strict quality control

EFFICIENCY

Maximum thermal efficiency and low energy consumption

COMFORT

Quiet operation and even heat - for comfort every day

FLEXIBLE SOLUTIONS

A wide range for any project

KONVEKA SOLUTIONS - FOR CONTEMPORARY ARCHITECTURE

OFFICE COMPLEX
Vilnius, Lithuania

RESIDENTIAL COMPLEX
Stockholm, Sweden

HOTEL
Copenhagen, Denmark

CULTURAL CENTRE
Oslo, Norway

konveka

THE CULTURE OF HEAT

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