konveka

FCH

TRENCH FAN COILS
FCH and FCHV

Created for modern buildings and heat-pump systems

HEATING | COOLING | VENTILATION

EC FANS
MAXIMUM EFFICIENCY,
MINIMUM NOISE

10 YEARS
WARRANTY

QUALITY | RELIABILITY | INNOVATION

MADE IN EUROPE

konveka

ABOUT FCH

Created for modern buildings to work with heat pumps

FCH and FCHV trench fan coils with EC fans provide powerful heating, efficient cooling and maximum comfort all year round.

Elegant design, advanced technology and smart control allow these units to blend harmoniously into modern architecture and meet the highest requirements of contemporary buildings.

QUALITY | RELIABILITY | INNOVATION

MADE IN LITHUANIA

WHY FCH?

Created for modern buildings

FCH and FCHV trench fan coils are designed to ensure maximum comfort, efficiency and aesthetics. The recessed construction helps maintain clean interior lines, and advanced EC fan technology - quiet operation and high energy efficiency even in low-temperature systems.
FCHV additionally has a ventilation function, allowing fresh air from the ventilation system to be supplied directly into the room.

STAINLESS STEEL

Premium quality and exceptional corrosion resistance

EC FANS

Maximum efficiency, minimum noise, low energy consumption

10 YEARS WARRANTY

Durability, reliability and peace of mind for many years

VENTILATION FUNCTION

FCHV models provide fresh-air supply from the ventilation system

WHERE DOES FCH FIT?

One solution - many different spaces

Residential houses

Offices

Hotels

Restaurants

Glazed buildings

Fan coils FCH and FCHV are perfect for A++ class buildings, heat-pump systems and any projects where aesthetics, comfort and energy efficiency matter

HOW TO CHOOSE THE RIGHT MODEL?

FCH fan coils 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 - COOLING NEED

Choose a model according to the required heating and cooling output

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

FCH and FCHV models emit the same sound level - their 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

+370 677 06303 | sales@konveka.lt | konveka.com

FCH VS FCHV

TWO MODELS. DIFFERENT DIMENSIONS. THE SAME COMFORT.

Both models are intended for heating and cooling, have identical fans and the same sound level. The main difference is that FCHV has an integrated fresh-air supply function.

FCH
WITHOUT VENTILATION FUNCTION

320 mm
WIDTH

130 mm
HEIGHT

WITHOUT INTEGRATED
AIR SUPPLY FUNCTION

THE SAME
HEATING AND COOLING OUTPUT

FCHV
WITH VENTILATION FUNCTION

363 mm
WIDTH

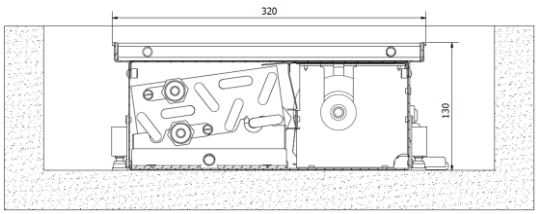
153 mm
HEIGHT

WITH INTEGRATED
AIR SUPPLY FUNCTION

THE SAME
HEATING AND COOLING OUTPUT

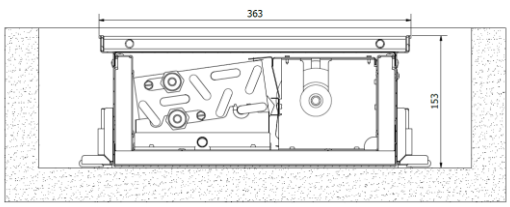
CHOOSE **FCH**, IF

- ✓ Ventilation is provided by a separate system
- ✓ Narrower installation space



CHOOSE **FCHV**, IF

- ✓ Fresh-air supply is required directly into the room
- ✓ You have a ventilation system with ducts
- ✓ You want a single compact solution for heating, cooling and ventilation



ENGINEERING, THAT YOU CAN FEEL

Fan coils FCH are designed to ensure quiet operation, maximum comfort and durability in modern buildings

FANS

- 24 V DC motors
- Extremely low energy consumption
- Precise control technology
- Long service life

ACOUSTIC INSULATION

- Acoustically insulated floor-fixing parts stop noise from spreading to the rooms below

STAINLESS STEEL

- The casing parts are made of stainless steel - corrosion-resistant and durable.

AIR FILTER

- Continuous filtering of the air passing through the units protects them from contamination

DRAIN PANS

- Integrated condensate collection and drainage trays
- Allows the unit to work both above and below the dew point
- Reliable condensate drainage and protection against mould

2- AND 4-PIPE VERSIONS

- 2-pipe and 4-pipe connection options are available
- Suitable for heating, cooling or combined mode
- Easy to integrate in both new and renovated buildings

EFFICIENT WITH LOW-TEMPERATURE SOURCES

- Works efficiently with heat pumps and condensing boilers
- Optimised operation at low water temperature
- Reduces energy consumption and increases system efficiency

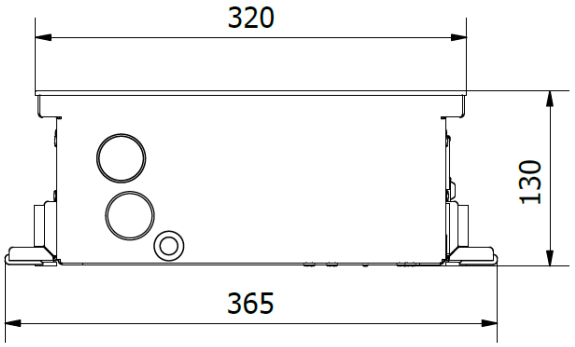
TECHNICAL DATA

KEY PARAMETERS

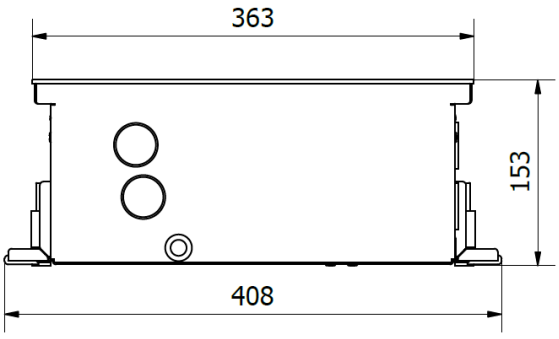
PARAMETER	FCH WITHOUT AIR SUPPLY FUNCTION	FCHV WITH AIR SUPPLY FUNCTION
Cooling output (7/12/27 °C)	up to 3649 W	up to 3649 W
Air flow	up to 1040 m^3/h	up to 1040 m^3/h
Width	320 mm	363 mm
Height	130 mm	153 mm
Length	1200 - 3000 mm	1200 - 3000 mm
Fans	Tangential, with EC motors	Tangential, with EC motors
Sound pressure	up to 43 dB(A)	up to 43 dB(A)
Working pressure	25 bar	25 bar
Maximum temperature	110 °C	110 °C

DIMENSIONS

FCH



FCHV



WE RECOMMEND

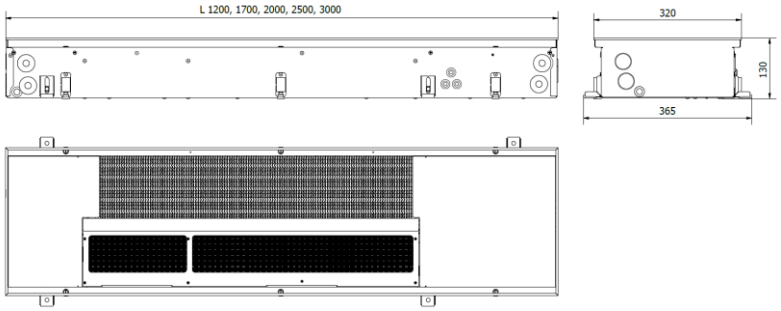
Fan coils FCH match perfectly with modern heating, cooling, ventilation and control systems, ensuring maximum comfort and energy efficiency

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

FCH2

TECHNICAL DATA

Trench fan coils FCH2 designed for 2-pipe heating and cooling systems

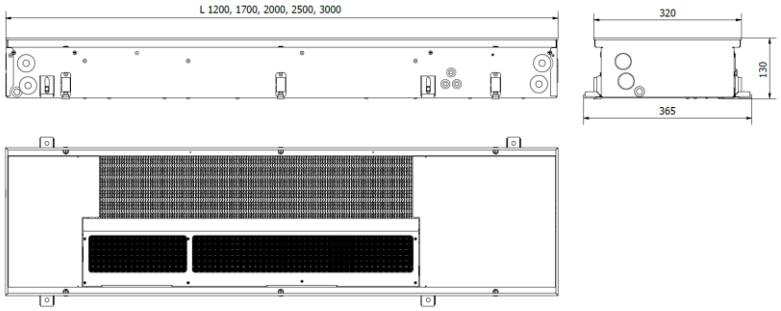


Model		Fan speed	FCH2 120	FCH2 170	FCH2 200	FCH2 250	FCH2 300
Air flow	m^3/h	100%	383	520	766	903	1 040
		80%	306	416	613	722	832
		60%	230	312	460	542	624
		40%	153	208	306	361	416
		20%	77	104	153	181	208
Sensible cooling capacity at 7/12/27 °C	W	100%	1 014	1 824	2 027	2 838	3 649
		80%	837	1 507	1 674	2 344	3 014
		60%	654	1 178	1 308	1 832	2 355
		40%	462	832	924	1 294	1 664
		20%	255	459	510	714	918
Heating output at 55/45/20 °C	W	100%	2 072	3 730	4 144	5 802	7 460
		80%	1 851	3 332	3 702	5 182	6 663
		60%	1 530	2 754	3 060	4 284	5 508
		40%	1 110	1 997	2 219	3 107	3 995
		20%	590	1 061	1 179	1 651	2 123
Supply voltage	V		24 DC				
Max. el. power (with actuator)	W		15	18	30	33	36
Max. el. current (with actuator)	A		0,63	0,75	1,25	1,38	1,5
Sound pressure level	dB(A)	100%	41	42	44	43	43
		80%	36	41	39	40	42
		60%	28	34	31	33	33
		40%	23	29	24	26	27
		20%	20	25	22	24	24
Max. water flow	l/h	Cooling	156	280	311	436	560
	l/h	Heating	294	529	588	823	1058
Max. pressure loss	kPa	Cooling	1,1	6,6	9,1	25,5	54,7
	kPa	Heating	4,1	24,4	33,6	93,3	199,6
Max. working pressure	MPa		2,5				
Fan type			Tangential				
Motor type			Brushless EC				
Casing material			Stainless steel				
Heat exchanger type			2-pipe				
Heat exchanger material			Copper - aluminium				
Pipe connections			1/2" internal thread				
Unit dimensions	mm		1200x320x130	1700x320x130	2000x320x130	2500x320x130	3000x320x130
Package dimensions	mm		1210x330x150	1810x330x150	2010x330x150	2610x330x150	3010x330x150
Weight net	kg		22,4	30,1	35,1	43,4	52,7
Gross weight	kg		23,3	31,1	36,2	44,6	54,0

FCH4

TECHNICAL DATA

Trench fan coils FCH4 designed for 4-pipe heating and cooling systems

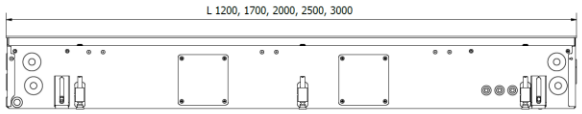


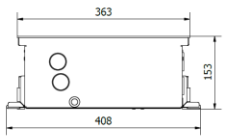
Model		Fan speed	FCH4 120	FCH4 170	FCH4 200	FCH4 250	FCH4 300
Air flow	m^3/h	100%	383	520	766	903	1 040
		80%	306	416	613	722	832
		60%	230	312	460	542	624
		40%	153	208	306	361	416
		20%	77	104	153	181	208
Sensible cooling capacity at 7/12/27 °C	W	100%	960	1 728	1 920	2 688	3 456
		80%	808	1 454	1 616	2 262	2 909
		60%	647	1 165	1 294	1 812	2 329
		40%	473	852	946	1 325	1 703
		20%	277	499	554	776	997
Heating output at 55/45/20 °C	W	100%	1 196	2 152	2 392	3 348	4 305
		80%	1 104	1 988	2 208	3 092	3 975
		60%	986	1 775	1 972	2 761	3 550
		40%	820	1 476	1 640	2 295	2 951
		20%	535	964	1 071	1 499	1 927
Supply voltage	V		24 DC				
Max. el. power (with actuator)	W		15	18	30	33	36
Max. el. current (with actuator)	A		0,63	0,75	1,25	1,38	1,5
Sound pressure level	dB(A)	100%	41	42	44	43	43
		80%	36	41	39	40	42
		60%	28	34	31	33	33
		40%	23	29	24	26	27
		20%	20	25	22	24	24
Max. water flow	l/h	Cooling	147	265	295	413	531
	l/h	Heating	173	312	346	485	623
Max. pressure loss	kPa	Cooling	0,7	3,9	5,3	13,4	27,0
	kPa	Heating	2,0	10,9	14,6	38,0	77,5
Max. working pressure	MPa		2,5				
Fan type			Tangential				
Motor type			Brushless EC				
Casing material			Stainless steel				
Heat exchanger type			4-pipe				
Heat exchanger material			Copper - aluminium				
Pipe connections			1/2" internal thread				
Unit dimensions	mm		1200x320x130	1700x320x130	2000x320x130	2500x320x130	3000x320x130
Package dimensions	mm		1210x330x150	1810x330x150	2010x330x150	2610x330x150	3010x330x150
Weight net	kg		22,4	30,1	35,1	43,4	52,7
Gross weight	kg		23,3	31,1	36,2	44,6	54,0

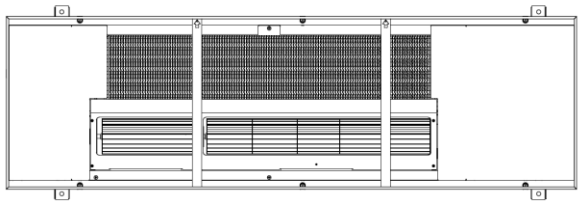
FCHV2

TECHNICAL DATA

Trench fan coils FCHV2 are designed for 2-pipe heating, cooling and ventilation systems







Model		Fan speed	FCHV2 120	FCHV2 170	FCHV2 200	FCHV2 250	FCHV2 300
Air flow	m^3/h	100%	383	520	766	903	1 040
		80%	306	416	613	722	832
		60%	230	312	460	542	624
		40%	153	208	306	361	416
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		60%	1 530	2 754	3 060	4 284	5 508
		40%	1 110	1 997	2 219	3 107	3 995
		20%	590	1 061	1 179	1 651	2 123
Supply voltage	V		24 DC				
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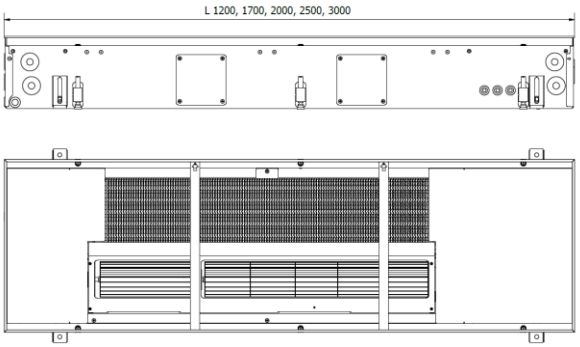
Max. water flow	l/h	Cooling	156	280	311	436	560
	l/h	Heating	294	529	588	823	1058
Max. pressure loss	kPa	Cooling	1,1	6,6	9,1	25,5	54,7
	kPa	Heating	4,1	24,4	33,6	93,3	199,6
Max. working pressure	MPa		2,5				
Fan type			Tangential				
Motor type			Brushless EC				
Casing material			Stainless steel				
Heat exchanger type			2-pipe				
Heat exchanger material			Copper - aluminium				
Pipe connections			1/2" internal thread				
Unit dimensions	mm		1200x363x153	1700x363x153	2000x363x153	2500x363x153	3000x363x153
Package dimensions	mm		1210x373x170	1810x373x170	2010x373x170	2610x373x170	3010x373x170
Weight net	kg		26,0	36,3	42,5	52,8	63,1
Gross weight	kg		27,1	37,5	43,8	54,2	64,6

FCHV4

TECHNICAL DATA

Trench fan coils FCHV4 are designed for 4-pipe heating, cooling and ventilation systems



Model		Fan speed	FCHV4 120	FCHV4 170	FCHV4 200	FCHV4 250	FCHV4 300
Air flow	m^3/h	100%	383	520	766	903	1 040
		80%	306	416	613	722	832
		60%	230	312	460	542	624
		40%	153	208	306	361	416
		20%	77	104	153	181	208
Sensible cooling capacity at 7/12/27 °C	W	100%	960	1 728	1 920	2 688	3 456
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		80%	1 104	1 988	2 208	3 092	3 975
		60%	986	1 775	1 972	2 761	3 550
		40%	820	1 476	1 640	2 295	2 951
		20%	535	964	1 071	1 499	1 927
Supply voltage	V		24 DC				
Max. el. power (with actuator)	W		15	18	30	33	36
Max. el. current (with actuator)	A		0,63	0,75	1,25	1,38	1,5
Sound pressure level	dB(A)	100%	41	42	44	43	43
		80%	36	41	39	40	42
		60%	28	34	31	33	33
		40%	23	29	24	26	27
		20%	20	25	22	24	24
Max. water flow	l/h	Cooling	147	265	295	413	531
	l/h	Heating	173	312	346	485	623
Max. pressure loss	kPa	Cooling	0,7	3,9	5,3	13,4	27,0
	kPa	Heating	2,0	10,9	14,6	38,0	77,5
Max. working pressure	MPa		2,5				
Fan type			Tangential				
Motor type			Brushless EC				
Casing material			Stainless steel				
Heat exchanger type			4-pipe				
Heat exchanger material			Copper - aluminium				
Pipe connections			1/2" internal thread				
Unit dimensions	mm		1200x363x153	1700x363x153	2000x363x153	2500x363x153	3000x363x153
Package dimensions	mm		1210x373x170	1810x373x170	2010x373x170	2610x373x170	3010x373x170
Weight net	kg		26,0	36,3	42,5	52,8	63,1
Gross weight	kg		27,1	37,5	43,8	54,2	64,6

CONTROL AND DIGITAL INTEGRATION

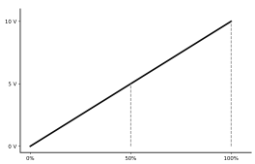
FCH fan coils are fully compatible with modern building management systems. Integrated 24 V DC fan control ensures precise, quiet and energy-saving operation in any conditions.

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

EC motor

SMART CONTROL

Controlled by WiFi room thermostats TW24 or BMS systems

BMS

Wi Fi

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

BIM

DWG

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

MagiCAD

SANKOM

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

konveka.com

ACCESSORIES

FCH fan coils 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, current - 3A
- El. power - 1.5 W

06 CONTROL UNIT
CB FCH

- 24V DC power supply
- 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

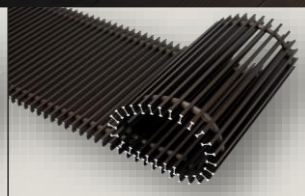
Choose the grilles that
best reflect your project

COLLECTION OF COLOURS AND MATERIALS

SILVER (ALS)

Natural aluminium colour

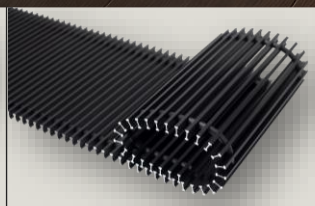
For bright, modern interiors.



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 harmonious interiors

PREMIUM QUALITY

Top-quality materials and coatings

STRENGTH

Designed to withstand the weight of several adults

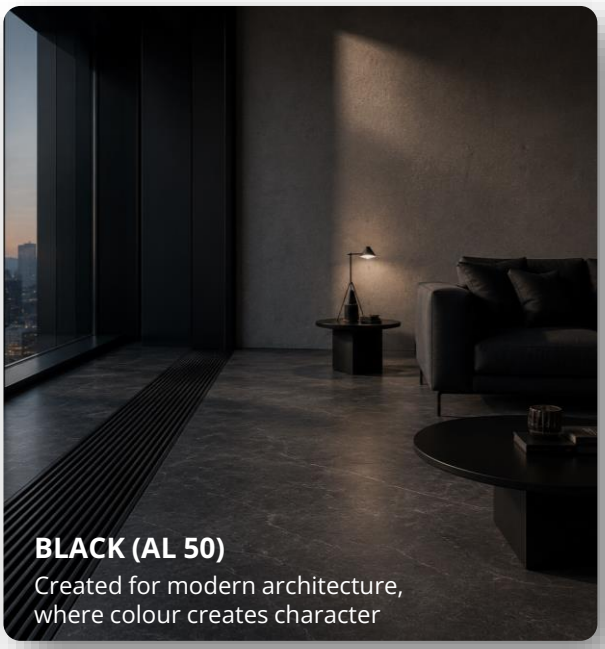
DURABILITY

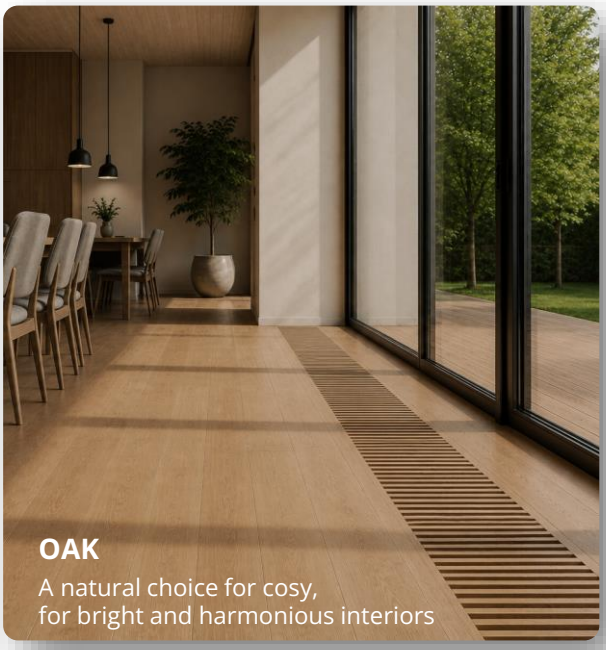
Materials and coatings resistant to corrosion and UV radiation

EASY MAINTENANCE

Easily removable - convenient to clean the inside of the fan coil

DESIGN OPTIONS, TAILORED FOR EVERY INTERIOR

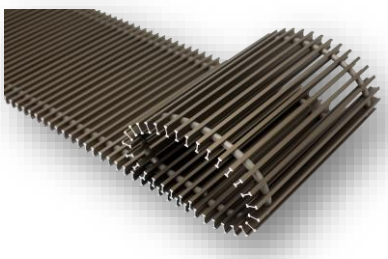




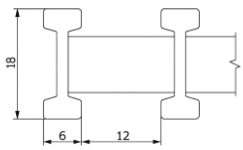
GRILLE TYPES

ROLL-UP ALUMINIUM GRILLES

A classic choice that ensures strength and timeless design

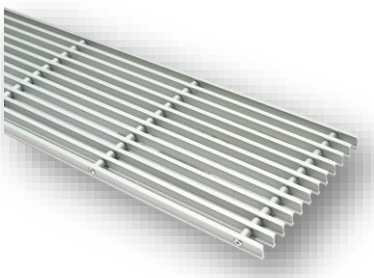


PROFILE CROSS-SECTION



LINEAR ALUMINIUM GRILLES

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



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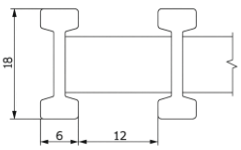
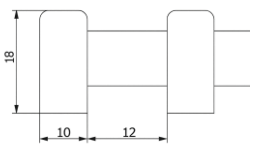


WOODEN GRILLES

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

PROFILE CROSS-SECTION

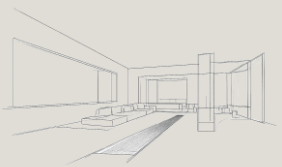


CUSTOM SOLUTIONS

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
FCH

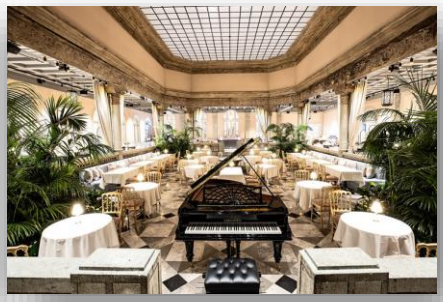
Grilles
Linear, aluminium

PRIVATE HOUSE
VILNIUS, LITHUANIA

Application
Residential

Product
FCH

Grilles
Roll-up, aluminium



HOTEL "BRITANIA"
TRONDHEIM, NORWAY

Application
Hotel

Product
FCHV

Grilles
Roll-up, aluminium

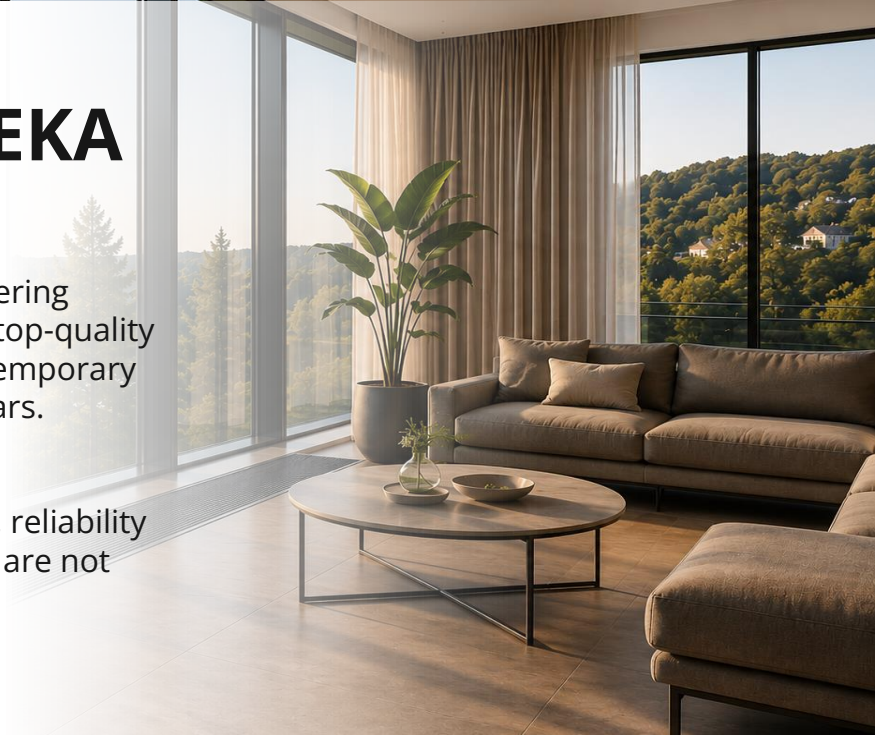
RESTAURANT "THE PAVILION"
LONDON, UK

Application
Restaurant

Product
FCH

Grilles
Linear, aluminium

ABOUT KONVEKA



KONVEKA is a Lithuanian engineering company that has been creating top-quality convectors and fan coils 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

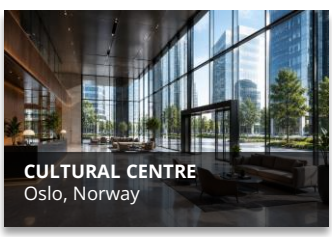
COMFORT

Quiet operation and even heat - for comfort every day

FLEXIBLE SOLUTIONS

A wide range for any project

KONVEKA SOLUTIONS - FOR CONTEMPORARY ARCHITECTURE



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