

FC

TRENCH HEATERS

QUIET COMFORT
FOR MODERN ARCHITECTURE



HEATING



NATURAL CONVECTION



ABSOLUTE SILENCE

10-YEAR WARRANTY

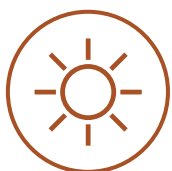
DURABILITY. RELIABLE QUALITY.

NATURAL HEAT FOR MODERN ARCHITECTURE

FC trench heaters work on the principle of natural convection - without fans and without noise.

Optimally designed heat exchangers create a gentle, evenly distributed heat curtain at the window, maintain a comfortable room temperature and keep the cold from entering.

FC is an elegant, durable and economical solution for modern architecture.



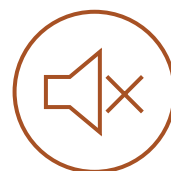
HEATING

Natural convection principle



NATURAL CONVECTION

Gentle, even heat throughout the whole room volume



NOISELESS

Works without fans - no mechanical noise

WHERE DOES FC FIT?

CREATED FOR CLEAN LINES AND A COMFORTABLE ENVIRONMENT



Residential houses

Villas, apartments, private residences



Hotels

Lobbies, rooms, relaxation areas



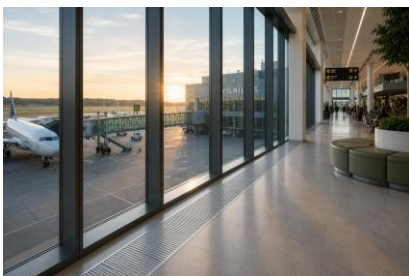
Offices

Conference halls, open-plan spaces



Retail and service spaces

Shops, showrooms, galleries



Public spaces

Museums, libraries, schools

TECHNICAL DATA

Reliable operation, high efficiency and durable construction - for comfort every day

	Maximum working pressure	25 bar
	Maximum working temperature	120 °C
	Factory test pressure	30 bar
	Heat exchanger strength limit	110 bar
	Casing material	Stainless steel
	Heat exchanger tubes	Copper
	Heat exchanger fins	Aluminium
	Warranty	10 years



LOW-TEMPERATURE SYSTEMS

Compatible with heat pumps and modern heating solutions



HIGH EFFICIENCY

High heat transfer efficiency ensures efficient operation



LOW OPERATING COSTS

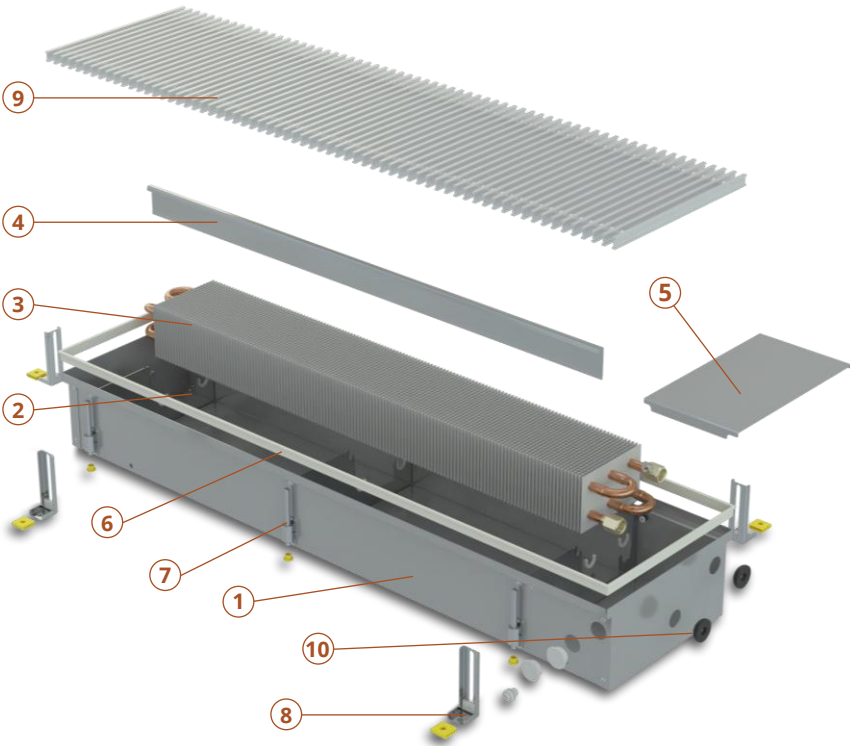
Low thermal inertia ensures high efficiency of the units



RELIABLE AND DURABLE CONSTRUCTION

Corrosion resistance and high quality standards for long-term use

CONSTRUCTION AND MATERIALS



- 1 Stainless-steel casing
- 2 Casing stiffening elements
- 3 Copper-aluminium heat exchanger
- 4 Air deflection element
- 5 Hydraulic connections cover
- 6 Decorative anodised aluminium frame
- 7 Support screws with height adjustment
- 8 Floor-fixing brackets
- 9 Protective-decorative grilles
- 10 Pipe and cable seals



STAINLESS-STEEL CASINGS

High-quality stainless steel ensures durability and corrosion resistance



DOUBLE-SIDED REINFORCED-PROFILE GRILLES

Anodised aluminium grilles provide greater strength, aesthetics and safe use



CASING STIFFENING ELEMENTS

Additional stiffening elements increase the stability of the casing and its resistance to deformation



HEIGHT-ADJUSTABLE FEET

Precise height adjustment allows easy adaptation to various installation conditions



ACOUSTICALLY INSULATED FLOOR-FIXING PARTS

Special insulated parts reduce vibration and noise transmitted to the floor structure

MODELS, DIMENSIONS AND OUTPUTS

WIDTH

22 cm

32 cm

42 cm



Compact



Versatile



Powerful

HEIGHT

9 cm

11 cm

15 cm



Compact



Versatile



Powerful



WIDTH:
22 / 32 / 42 cm



HEIGHT:
9 / 11 / 15 cm



LENGTH:
from 80 to 300 cm

THERMAL OUTPUT (W) AT 75/65/20°C EN16430

Width, cm	Height, cm	Length, cm																						
		80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
22	9	179	211	242	274	305	336	368	399	430	462	493	524	556	587	619	650	681	713	744	775	807	838	870
	15	256	301	347	392	437	482	528	573	618	663	709	754	799	844	890	935	980	1025	1071	1116	1161	1206	1252
32	9	243	289	335	381	427	473	519	565	611	657	703	749	795	841	887	933	979	1025	1071	1118	1164	1210	1256
	11	252	300	347	394	442	489	537	584	632	679	727	774	822	869	917	964	1012	1059	1106	1154	1201	1249	1296
	15	383	451	518	586	653	721	788	855	923	990	1058	1125	1193	1260	1328	1395	1463	1530	1598	1665	1733	1800	1868
42	9	292	343	393	444	495	546	596	647	698	749	800	850	901	952	1003	1053	1104	1155	1206	1256	1307	1358	1409
	11	353	415	477	539	601	663	725	787	849	911	973	1035	1097	1159	1221	1283	1345	1407	1469	1531	1593	1655	1717
	15	497	585	672	760	848	935	1023	1110	1198	1285	1373	1460	1548	1636	1723	1811	1898	1986	2073	2161	2248	2336	2424



You can find thermal outputs at non-standard temperatures at konveka.com
<https://konveka.com/product/trench-heaters/grindiniai-konvektoriai-be-ventiliatoriu-fc/>

MODELS, DIMENSIONS AND OUTPUTS

THERMAL OUTPUT (W) AT 65/55/20°C EN16430

Width, cm	Height, cm	Length, cm																						
		80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
22	9	134	158	181	204	228	251	275	298	322	345	369	392	415	439	462	486	509	533	556	579	603	626	650
	15	183	215	247	280	312	344	376	409	441	473	505	538	570	602	635	667	699	731	764	796	828	860	893
32	9	180	214	248	283	317	351	385	419	453	487	522	556	590	624	658	692	727	761	795	829	863	897	932
	11	183	218	253	287	322	356	391	425	460	494	529	564	598	633	667	702	736	771	805	840	875	909	944
	15	278	327	376	425	474	523	572	621	670	719	768	817	866	915	964	1013	1062	1111	1160	1209	1258	1307	1356
42	9	215	252	290	327	364	402	439	476	514	551	589	626	663	701	738	775	813	850	888	925	962	1000	1037
	11	258	303	348	393	438	483	529	574	619	664	709	754	800	845	890	935	980	1026	1071	1116	1161	1206	1251
	15	357	420	483	546	609	672	734	797	860	923	986	1049	1112	1175	1238	1300	1363	1426	1489	1552	1615	1678	1741

THERMAL OUTPUT (W) AT 55/45/20°C EN16430

Width, cm	Height, cm	Length, cm																							
		80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	
22	9	92	108	124	140	157	173	189	205	221	237	253	269	285	301	318	334	350	366	382	398	414	430	446	
	15	118	139	160	181	202	223	243	264	285	306	327	348	369	390	411	431	452	473	494	515	536	557	578	
32	9	123	146	169	192	215	239	262	285	308	332	355	378	401	425	448	471	494	518	541	564	587	611	634	
	11	122	145	168	191	214	237	260	283	305	328	351	374	397	420	443	466	489	512	535	558	581	604	627	
	15	184	217	249	281	314	346	379	411	444	476	508	541	573	606	638	670	703	735	768	800	833	865	897	
42	9	145	170	195	220	246	271	296	321	346	371	397	422	447	472	497	523	548	573	598	623	648	674	699	
	11	171	201	231	261	291	322	352	382	412	442	472	502	532	562	592	622	652	682	712	742	772	802	832	
	15	233	274	315	356	397	438	479	520	561	602	644	685	726	767	808	849	890	931	972	1013	1054	1095	1136	

WATER PRESSURE LOSS

Width, cm	Height, cm	Max. water flow, l/h	Water pressure loss calculation formula, Pa
22	9	133	$(L - 0,290) \times (0,0074 \times q^2 - 0,0501 \times q + 0,0796)$
	15	197	$(L - 0,245) \times (0,0078 \times q^2 + 1,3090 \times q - 20,44)$
32	9	176	$(L - 0,290) \times (0,0022 \times q^2 + 0,3040 \times q + 4,12)$
	11	207	$(L - 0,290) \times (0,0022 \times q^2 + 0,3040 \times q + 4,12)$
	15	317	$(L - 0,245) \times (0,0111 \times q^2 + 2,2429 \times q - 58,22)$
42	9	245	$(L - 0,245) \times (0,0078 \times q^2 + 1,3090 \times q - 20,44)$
	11	293	$(L - 0,245) \times (0,0078 \times q^2 + 1,3090 \times q - 20,44)$
	15	398	$(L - 0,245) \times (0,0157 \times q^2 + 2,6179 \times q - 40,88)$



You can find thermal outputs at non-standard temperatures at konveka.com
<https://konveka.com/product/trench-heaters/grindiniai-konvektoriai-be-ventiliatoriu-fc/>

CONTROL AND DIGITAL INTEGRATION

FC trench heaters are fully compatible with modern building management systems. Smart WiFi thermostats TW230-16 allow precise control of the devices from anywhere in the world.



Room thermostat
TW230-16



CONTROL WITH TW230-16



CONTROL PRINCIPLE

Depending on the heating demand, room thermostats control the actuators that regulate the flow of water into the heater



OPERATING-TIME PROGRAMMING

Operating-time programming allows energy consumption to be optimised and reduce operating costs



SMART CONTROL

Integrated into building management systems (BMS) using Modbus technology



PRECISE COMFORT CONTROL

Thanks to the integrated WiFi module, TW230-16 thermostats can be controlled from anywhere in the world



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

FC 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 A230NC



- Operating voltage 230 V AC
- El. power - 2.5 W
- Protection class - IP54
- Connection thread M30 x 1.5 mm
- Casing material PC/ABS

05 ROOM THERMOSTAT TW230-16



- Dimensions 88 x 88 x 43 mm
- Weekly temperature schedule programming
- Working temperature 5-35°C
- Operating voltage - 230V AC, current - 16A
- El. power - 1.5 W



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

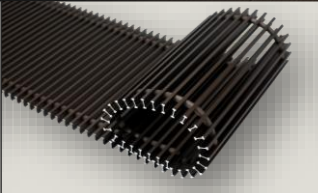
COLLECTION OF COLOURS AND MATERIALS



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

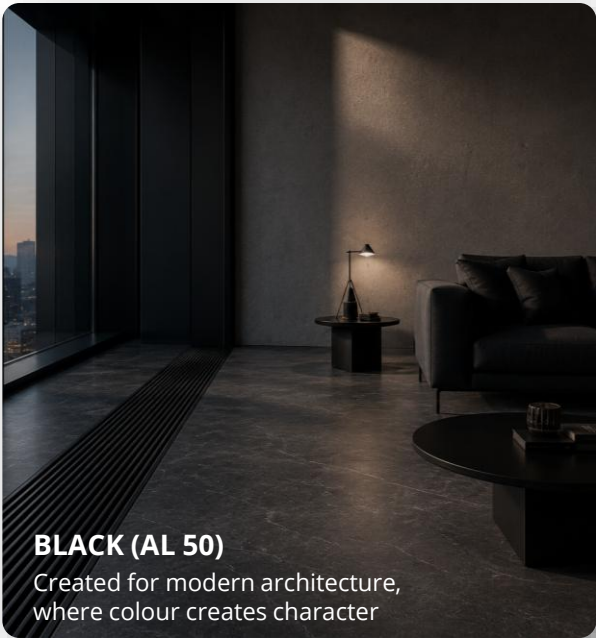
Materials and coatings resistant to corrosion and UV radiation



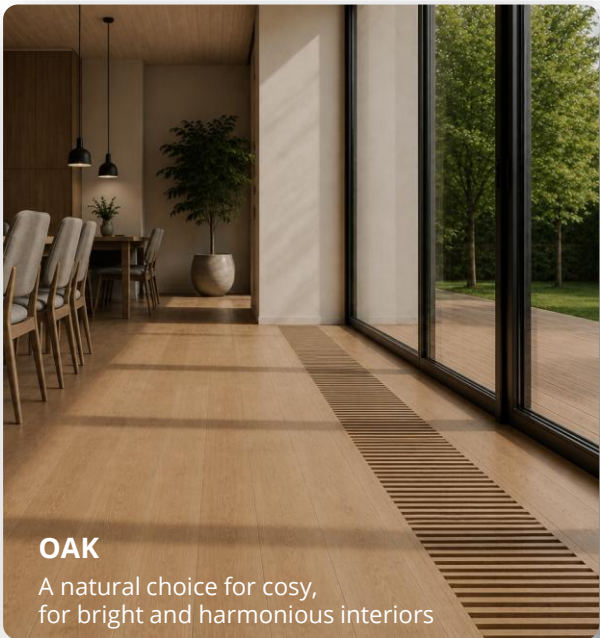
**EASY
MAINTENANCE**

Easily removable - convenient to clean the inside of the heater

DESIGN OPTIONS, TAILORED FOR EVERY INTERIOR



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

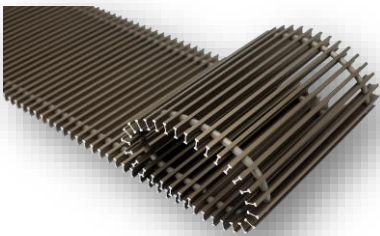


OAK
A natural choice for cosy,
for bright and harmonious interiors

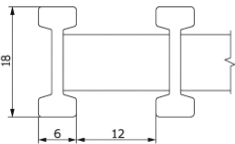
GRILLE TYPES

ROLL-UP ALUMINIUM GRILLES

A classic choice that ensures strength and timeless design



PROFILE CROSS-SECTION

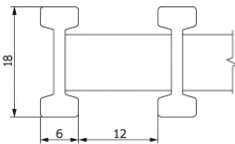


LINEAR ALUMINIUM GRILLES

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



PROFILE CROSS-SECTION

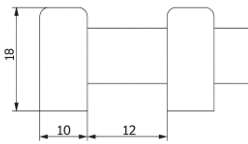


WOODEN GRILLES

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



PROFILE CROSS-SECTION

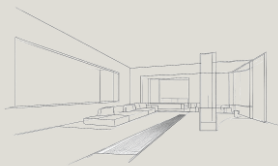


CUSTOM SOLUTIONS

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
FC



Grilles
Linear, aluminium



PRIVATE HOUSE VILNIUS, LITHUANIA



Application
Residential



Product
FC



Grilles
Roll-up, aluminium



HOTEL "BRITANIA" TRONDHEIM, NORWAY



Application
Hotel



Product
FC



Grilles
Roll-up, aluminium



RESTAURANT "THE PAVILION" LONDON, UK



Application
Restaurant



Product
FC

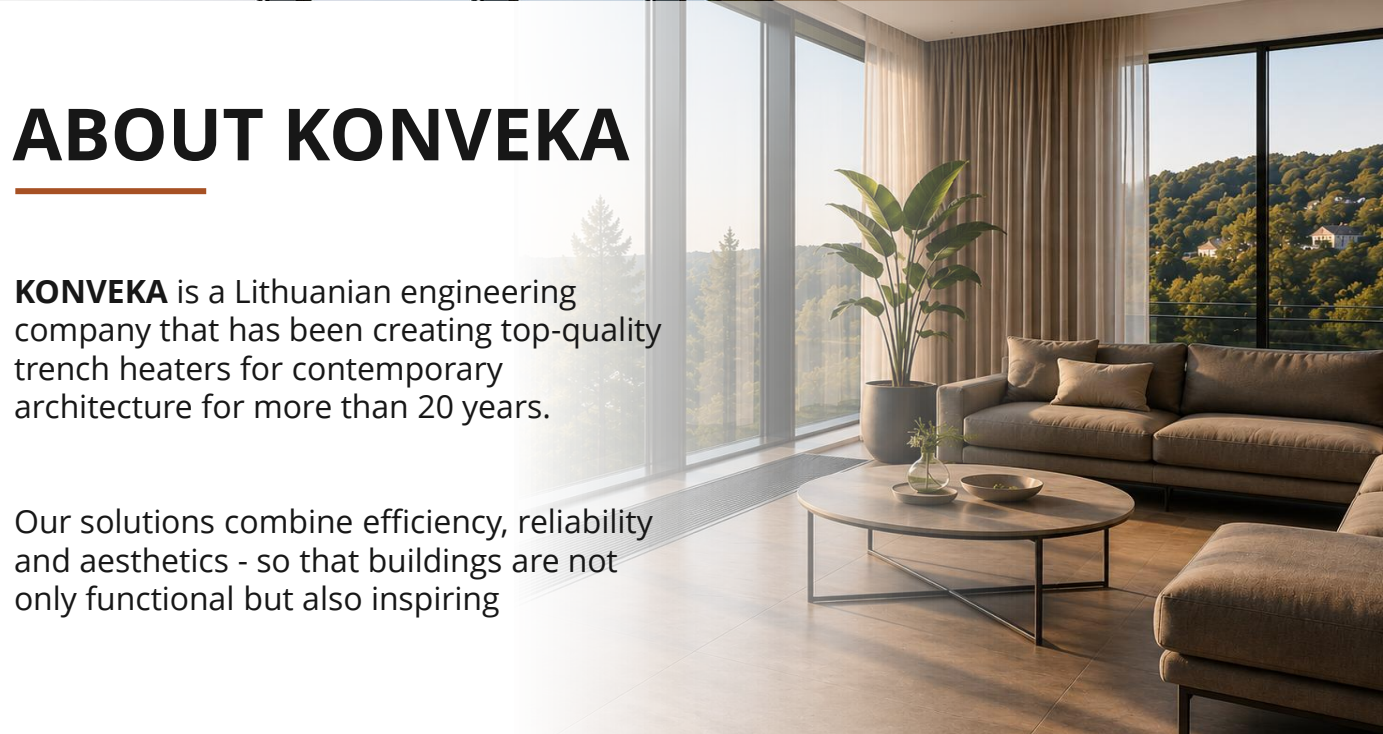


Grilles
Linear, aluminium

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

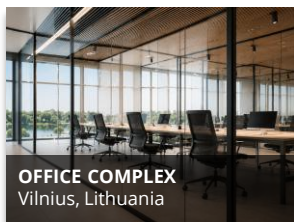
Quiet operation and even heat - for comfort every day



**FLEXIBLE
SOLUTIONS**

A wide range for any project

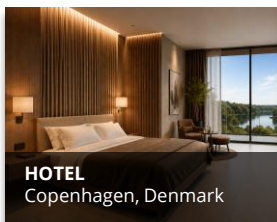
KONVEKA SOLUTIONS - FOR CONTEMPORARY ARCHITECTURE



OFFICE COMPLEX
Vilnius, Lithuania



RESIDENTIAL COMPLEX
Stockholm, Sweden



HOTEL
Copenhagen, Denmark



CULTURAL CENTRE
Oslo, Norway



THE CULTURE OF HEAT



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