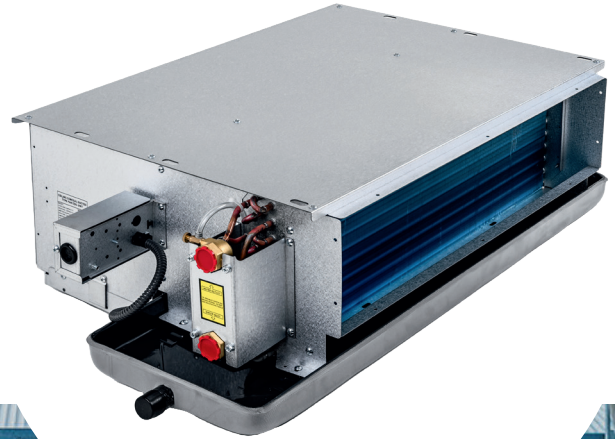


DUCTED FAN COILS | DF



 **HEATING**

 **COOLING**

- 5 models
- 2 and 4-pipe versions
- Static pressure from 12 to 50 Pa
- AC or DC fans
- Bottom or back air intake
- Drain pan
- Air filters
- Low profile – only 238 mm
- Low noise level
- Heat exchangers with hydrophobic plates



MAIN FEATURES

Ultra quiet operation

Fans with well-balanced impellers, silent motors and plastic housings ensure extremely low noise levels.

Low profile

All models are 234 mm high. Ideal for installation in spaces with low ceilings.

Fans with AC or DC electric motors

Models with AC motors have 3 speeds. In models with DC motors, the fan speed is adjustable from 0 to 10V. The standard TW24 thermostats supplied with these models support 5 speeds. Both motor types are equipped with reliable self-lubricating bearings.

DC motors are significantly more efficient, especially at lower speeds. They consume up to 70% less energy than AC motors. They are also quieter, making them ideal for environments that require minimum noise levels.

DC motors offer a wider range of speed control for more precise airflow control.

Drain pan

The drain pans are made by stamping a solid sheet of steel to form a one-piece, seamless and sturdy vessel. They are coated with a special high-performance anti-corrosion coating.

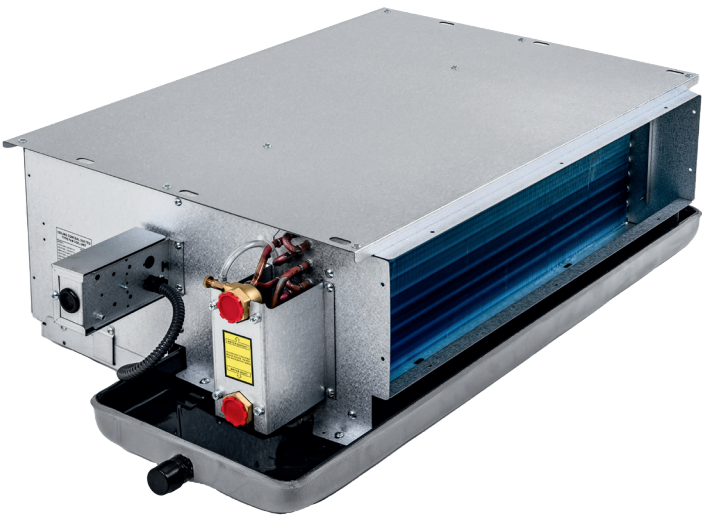
Thermal insulation prevents secondary condensation.

Air filters

All models have washable nylon inlet air filters. Filters are designed to slide easily into the special guides for easy removal and insertion.

Heat exchangers with hydrophobic plates

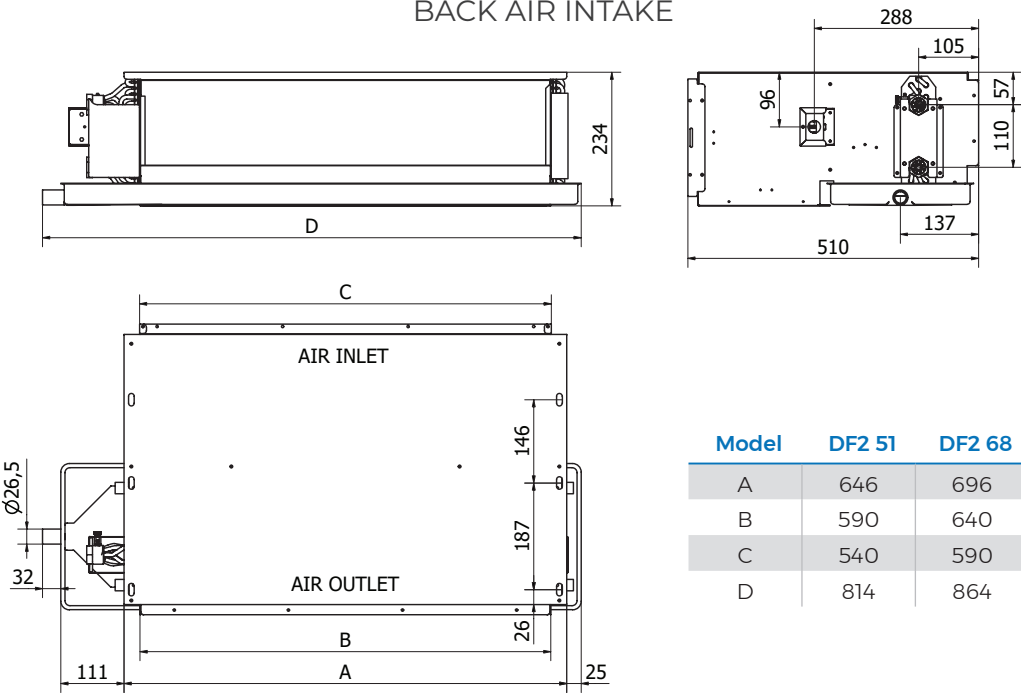
The hydrophobic coating improves the removal of condensate from the heat exchanger surface, thus increasing the efficiency of heat exchange. Efficient heat transfer reduces energy consumption. The hydrophobic coating also helps protect the plates from corrosion, dust and dirt build-up, extending the life of the unit.



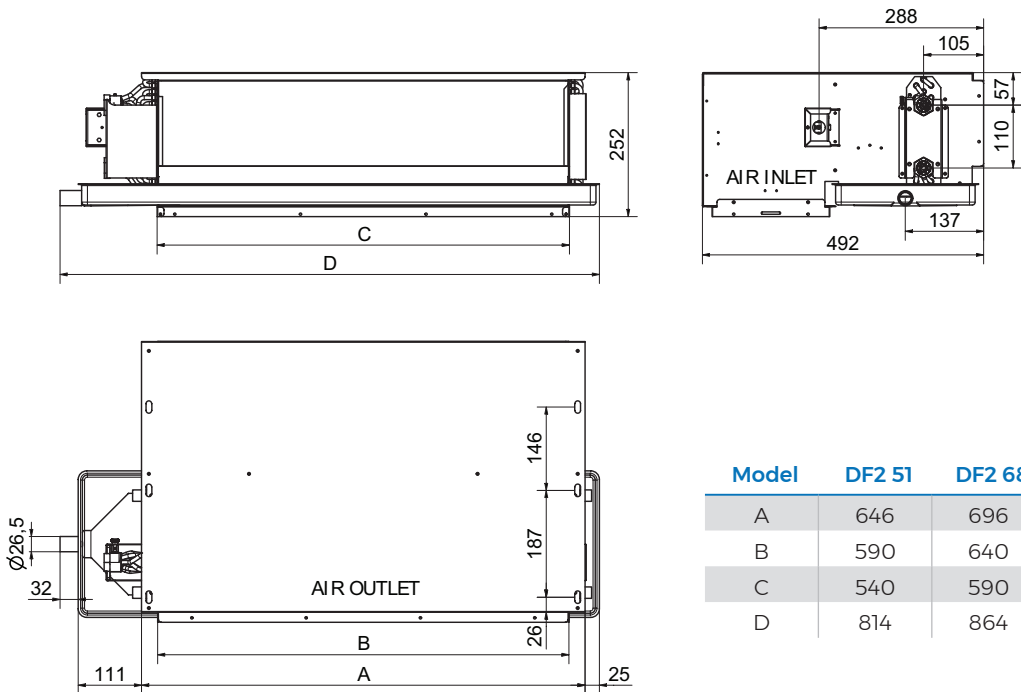
04	2-PIPE VERSION
07	4-PIPE VERSION
10	CONTROLLER TW230
11	CONTROLLER TW24
12	ACCESSORIES
13	ABOUT KONVEKA

2-PIPE VERSION

BACK AIR INTAKE



BOTTOM AIR INTAKE



COOLING PARAMETERS

WWW.KONVEKA.COM

Parameter		Speed	Units	DF2 51	DF2 68	DF2 102	DF2 136	DF2 204
Temperatures: supply water 7°C, return water 12°C, room 27 °C								
Cooling capacity	Total	Maximum	W	2 998	3 664	5 250	7 315	10 388
	Sensible			2 099	2 565	3 675	5 121	7 272
	Total	Medium		2 617	3 260	4 736	6 731	9 336
	Sensible			1 832	2 282	3 315	4 712	6 535
	Total	Low		1 891	2 327	3 564	4 973	7 067
	Sensible			1 324	1 629	2 495	3 481	4 947
Airflow		Maximum	m³/h	550	735	1 075	1 450	2 150
		Medium		380	515	765	1 040	1 550
		Low		260	340	530	710	1 050
Water flow			l/h	516	630	903	1 258	1 787
Max. pressure losses			kPa	15,4	17,1	20,9	25,9	33,3

Temperatures: supply water 17°C, return water 22°C, room 27 °C

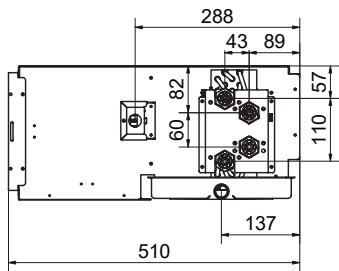
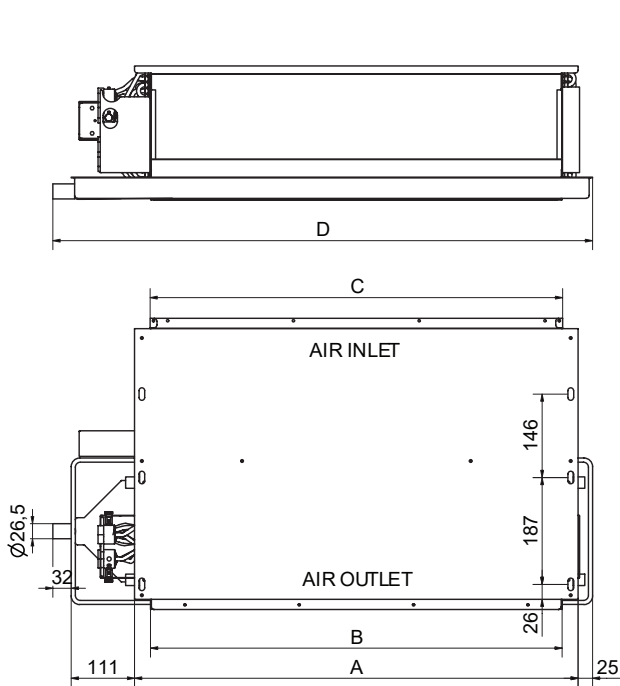
Cooling capacity	Total	Maximum	W	1 516	1 855	2 608	3 638	5 198
	Sensible			1 061	1 298	1 826	2 547	3 639
	Total	Medium		1 354	1 686	2 376	3 367	4 646
	Sensible			948	1 180	1 663	2 357	3 252
	Total	Low		1 029	1 269	1 883	2 611	3 574
	Sensible			720	888	1 318	1 828	2 502
Airflow		Maximum	m³/h	550	735	1 075	1 450	2 150
		Medium		380	515	765	1 040	1 550
		Low		260	340	530	710	1 050
Water flow			l/h	261	319	449	626	894
Max. pressure losses			kPa	11,9	12,7	14,5	17,0	20,8

Parameter	Static pressure	Units	DF2 51	DF2 68	DF2 102	DF2 136	DF2 204
Sound pressure level	12Pa	dB(A)	39	41	45	47	50
	30Pa		41	43	48	49	52
	50Pa		44	46	49	50	54
Electric power with AC motors	12Pa	W	52	62	96	134	189
	30Pa		59	72	108	156	212
	50Pa		66	84	118	174	250
Electric power with DC motors	12Pa	W	30	36	56	78	111
	30Pa		34	42	63	91	124
			38	54	73	108	147
Max. working pressure		Mpa	1.6				
Pipeline connections			G3/4"				
Condensate connections			DN20				
Dimensions (length x width x height)	Back air intake	mm	814x510x234	864x510x234	1044x510x234	1424x510x234	1674x510x234
	Bottom air intake	mm	814x492x252	864x492x252	1044x492x252	1424x510x234	1674x510x234
Weight		kg	13	14	17	26	32

HEATING PARAMETERS

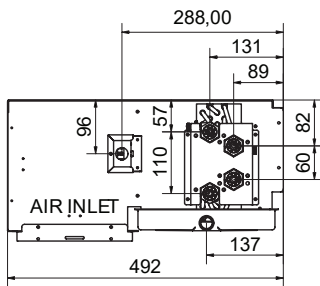
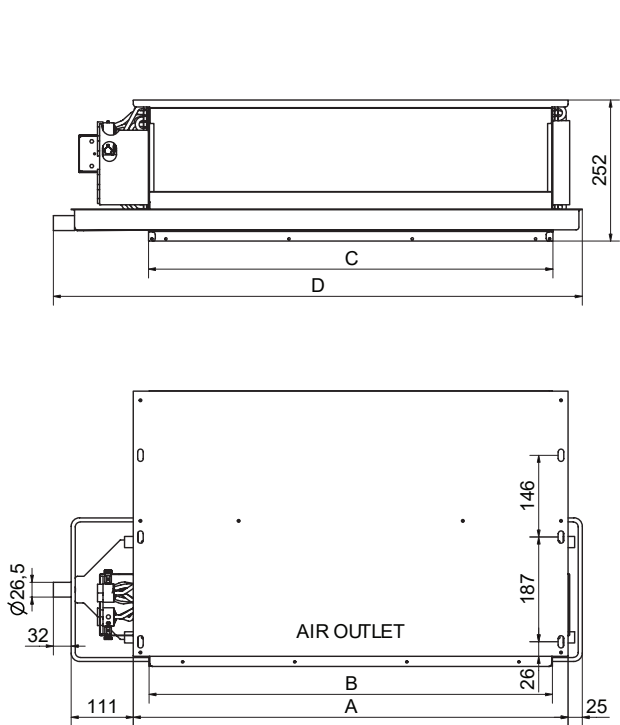
Parameter	Speed	Units	DF2 51	DF2 68	DF2 102	DF2 136	DF2 204
Temperatures: supply water 35°C, return water 30°C, room 20 °C							
Heating capacity	Maximum	W	1 593	1 993	2 833	3 881	5 499
	Medium		1 394	1 780	2 544	3 577	4 927
	Low		1 015	1 277	1 928	2 650	3 736
Airflow	Maximum	m³/h	550	735	1 075	1 450	2 150
	Medium		380	515	765	1 040	1 550
	Low		260	340	530	710	1 050
Water flow		l/h	274	343	487	668	946
Max. pressure losses		kPa	12,0	13,0	15,0	17,6	21,5
Temperatures: supply water 45°C, return water 40°C, room 20 °C							
Heating capacity	Maximum	W	3 024	3 853	5 459	7 409	10 518
	Medium		2 639	3 428	4 888	6 800	9 404
	Low		1 902	2 433	3 679	5 005	7 064
Airflow	Maximum	m³/h	550	735	1 075	1 450	2 150
	Medium		380	515	765	1 040	1 550
	Low		260	340	530	710	1 050
Water flow		l/h	520	663	939	1 274	1 809
Max. pressure losses		kPa	15,5	17,5	21,4	26,1	33,7
Parameter	Static pressure	Units	DF2 51	DF2 68	DF2 102	DF2 136	DF2 204
Sound pressure level	12Pa	dB(A)	39	41	45	47	50
	30Pa		41	43	48	49	52
	50Pa		44	46	49	50	54
Electric power with AC motors	12Pa	W	52	62	96	134	189
	30Pa		59	72	108	156	212
	50Pa		66	84	118	174	250
Electric power with DC motors	12Pa	W	30	36	56	78	111
	30Pa		34	42	63	91	124
	50Pa		38	54	73	108	147
Max. working pressure		Mpa	1.6				
Pipeline connections			G3/4"				
Condensate connections			DN20				
Dimensions (length x width x height)	Back air intake	mm	814x510x234	864x510x234	1044x510x234	1424x510x234	1674x510x234
	Bottom air intake	mm	814x492x252	864x492x252	1044x492x252	1424x510x234	1674x510x234
Weight		kg	13	14	17	26	32

BACK AIR INTAKE



Model	DF4 51	DF4 68	DF4 102	DF4 136	DF4 204
A	646	696	876	1256	1506
B	590	640	820	1200	1450
C	540	590	770	1150	1400
D	814	864	1044	1424	1674

BOTTOM AIR INTAKE



Model	DF4 51	DF4 68	DF4 102	DF4 136	DF4 204
A	646	696	876	1256	1506
B	590	640	820	1200	1450
C	540	590	770	1150	1400
D	814	864	1044	1424	1674

COOLING PARAMETERS

Parameter	Speed	Units	DF4 51	DF4 68	DF4 102	DF4 136	DF4 204	
Temperatures: supply water 7°C, return water 12°C, room 27 °C								
Cooling capacity	Total	Maximum	W	2 998	3 664	5 250	7 315	10 388
	Sensible			2 099	2 565	3 675	5 121	7 272
	Total	Medium		2 617	3 260	4 736	6 731	9 336
	Sensible			1 832	2 282	3 315	4 712	6 535
	Total	Low		1 891	2 327	3 564	4 973	7 067
	Sensible			1 324	1 629	2 495	3 481	4 947
Airflow		Maximum	m³/h	550	735	1 075	1 450	2 150
		Medium		380	515	765	1 040	1 550
		Low		260	340	530	710	1 050
Water flow			l/h	516	630	903	1 258	1 787
Max. pressure losses			kPa	15,4	17,1	20,9	25,9	33,3

Temperatures: supply water 17 °C, return water 22 °C, room 27 °C

Cooling capacity	Total	Maximum	W	2 334	2 854	4 048	5 644	8 042
	Sensible			1 634	1 998	2 834	3 951	5 629
	Total	Medium		2 085	2 594	3 688	5 224	7 188
	Sensible			1 459	1 816	2 582	3 657	5 031
	Total	Low		1 584	1 953	2 923	4 051	5 529
	Sensible			1 109	1 367	2 046	2 836	3 870
Airflow		Maximum	m³/h	510	680	1 020	1 360	2 040
		Medium		380	515	765	1 040	1 550
		Low		260	340	530	710	1 050
Water flow			l/h	401	491	696	971	1 383
Max. pressure losses			kPa	13,8	15,1	18,0	21,9	27,7

Parameter	Static pressure	Units	DF4 51	DF4 68	DF4 102	DF4 136	DF4 204
Sound pressure level	12Pa	dB(A)	39	41	45	47	50
	30Pa		41	43	48	49	52
	50Pa		44	46	49	50	54
Electric power with AC motors	12Pa	W	52	62	96	134	189
	30Pa		59	72	108	156	212
	50Pa		66	84	118	174	250
Electric power with DC motors	12Pa	W	30	36	56	78	111
	30Pa		34	42	63	91	124
	50Pa		38	54	73	108	147

Max. working pressure **Mpa** **1.6**

Pipeline connections **G3/4"**

Condensate connections **DN20**

Dimensions (length x width x height)	Back air intake	mm	814x510x234	864x510x234	1044x510x234	1424x510x234	1674x510x234
	Bottom air intake	mm	814x492x252	864x492x252	1044x492x252	1424x510x234	1674x510x234
Weight		kg	14	15	19	28	35

HEATING PARAMETERS

Parameter	Speed	Units	DF4 51	DF4 68	DF4 102	DF4 136	DF4 204
Temperatures: supply water 35°C, return water 30°C, room 20 °C							
Heating capacity	Maximum	W	792	999	1 398	1 979	2 486
	Medium		693	892	1 255	1 824	2 228
	Low		505	640	951	1 351	1 689
Airflow	Maximum	m³/h	510	680	1 020	1 360	2 040
	Medium		380	515	765	1 040	1 550
	Low		260	340	530	710	1 050
Water flow		l/h	136	172	240	340	428
Max. pressure losses		kPa	6,3	7,0	8,5	10,5	12,3
Temperatures: supply water 45°C, return water 40°C, room 20 °C							
Heating capacity	Maximum	W	1 641	2 031	2 765	3 924	4 877
	Medium		1 432	1 807	2 476	3 602	4 361
	Low		1 032	1 283	1 863	2 651	3 276
Airflow	Maximum	m³/h	510	680	1 020	1 360	2 040
	Medium		380	515	765	1 040	1 550
	Low		260	340	530	710	1 050
Water flow		l/h	282	349	476	675	839
Max. pressure losses		kPa	9,3	10,7	13,3	17,4	20,8
Parameter	Speed	Units	DF4 51	DF4 68	DF4 102	DF4 136	DF4 204
Sound pressure level	12Pa	dB(A)	39	41	45	47	50
	30Pa		41	43	48	49	52
	50Pa		44	46	49	50	54
Electric power with AC motors	12Pa	W	52	62	96	134	189
	30Pa		59	72	108	156	212
	50Pa		66	84	118	174	250
Electric power with DC motors	12Pa	W	30	36	56	78	111
	30Pa		34	42	63	91	124
	50Pa		38	54	73	108	147
Max. working pressure		Mpa	1.6				
Pipeline connections			G3/4"				
Condensate connections			DN20				
Dimensions (length x width x height)	Back air intake	mm	814x510x234	864x510x234	1044x510x234	1424x510x234	1674x510x234
	Bottom air intake	mm	814x492x252	864x492x252	1044x492x252	1424x510x234	1674x510x234
Weight		kg	14	15	19	28	35

MODELS WITH AC FANS



Controls 3-speed fan coil fan speeds and On/Off valve actuators

Main features and functions:

- Touchscreen control
- WiFi control via the Smart Life mobile app or Tuya
- Control via Modbus
- Weekly temperature schedule
- Hysteresis setting
- Temperature compensation
- Day/night brightness settings
- ECO, holiday modes
- Colours: white, black

CONTROLLER TW24

MODELS WITH DC FANS



Controls the speed of the fan coil DC fans (control signal 0-10V) and the On/Off valve drives.

Main features and functions:

- Touchscreen control
- WiFi control via the Smart Life mobile app or Tuya
- Control via Modbus
- Weekly temperature schedule
- Hysteresis setting
- Temperature compensation
- Day/night brightness settings
- ECO, holiday modes
- Colours: white, black

ACCESSORIES

THERMOSTATIC VALVE **TVS15**

To control the flow of the energy carrier. Controlled by actuator for thermostatic valve A24NC or A230NC

	Operating temperature -10°C-120°C
	Thread 1/2"
	Pressure class – PN10
	Kvs – 2.00
	Housing – Nickel-plated bronze

LOCKSHIELD (STRAIGHT) **LS15**

For opening, closing the energy carrier, setting the maximum flow rate

	Operating temperature -10°C-120°C
	Thread 1/2"
	Pressure class – PN10
	Kvs – 2.00
	Housing – Nickel-plated bronze

ACTUATOR FOR THERMOSTATIC VALVE (24V) FOR MODELS WITH DC FANS

For opening/closing the thermostatic valve. Adjustable with room thermostat TW24

	Operating voltage – 24 VAC
	El. power – 2.5W
	Protection class – IP54
	Connection thread – M30 x 1.5 mm
	Housing material – PC/ABS

ACTUATOR FOR THERMOSTATIC VALVE (230V) FOR MODELS WITH AC FANS

For opening/closing the thermostatic valve. Adjustable with room thermostat TW230-3

	Operating voltage – 230 VAC
	El. power – 2.5W
	Protection class – IP54
	Connection thread – M30 x 1.5 mm
	Housing material – PC/ABS

ORDER CODES

Accessory	Order code
Thermostatic valve	TVSP15
Lockshield (straight)	LS15
Actuator A24NC	A24NC
Actuator A230NC	A230NC

Konveka is a **full production cycle convector manufacturing company** engaged in this activity **since 2005**. The range of products we develop and manufacture is wide: from simple natural convection convectors to complex devices with fans for heating, cooling and ventilation.

Konveka is a manufacturer of high-quality and reliable convectors:

- We provide a **5 - 10 year warranty for all our products** (except their electrical part) without any additional warranty extension fees.
- **The capacities of all our products are determined by independent accredited laboratories** according to current standards. With us, 1kW means 1kW.
- We **do not use cheap, unapproved solutions or use unreliable materials** when designing and manufacturing our devices.

Although we operate in a highly competitive international market, **we are at the forefront where quality, durability and reliability are valued.**

We are well known in **Eastern and Western Europe, Scandinavia, North America and Central Asia**. Konveka products can be seen in many prestigious buildings around the world: administrative buildings, shopping malls, airports, restaurants, theaters, universities, hotels, apartment buildings and individual homes. Visit our website www.konveka.com for more information.

Konveka consistently wins **national awards** (see below) for **reliability, consistency and business growth**.

Our slogan - **“More than you expected”** reflects the quality of our products and technical solutions, which often exceed customer expectations. We value our customers and are happy to be a part of their successful business.



Lined area for notes.

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