

FIDUKS

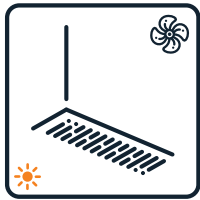
HEATING AND COOLING



PRODUCT CATALOG



CONVECTORS FOR CONCEALED FLOOR MOUNTING



FOKS SPIRIT - FPKV

PAGE 1

- fan powered
- heating only
- electronic control needed
- grille additional



FOKS BREEZE - FPKV-HC

PAGE 4

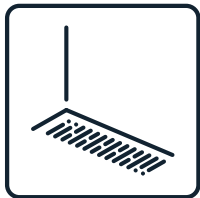
- fan powered
- heating and cooling
- electronic control needed
- grille additional
- outlet for condensated water necessary



FOKS CLOUD - FPK

PAGE 7

- natural convection (without fan)
- heating only
- no electronic control needed
- grille additional

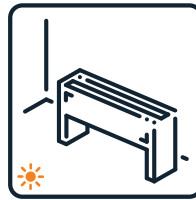


ACCESSORIES AND GRILLES

PAGE 10

- accessories
- grilles
- frames

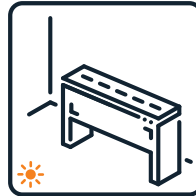
CONVECTORS FOR FLOOR AND WALL MOUNTING



FOKS DWARF - FSK [-BT]

PAGE 12

- natural convection (without fan)
- heating only
- no electronic control necessary
- built-in grille



FOKS REST - FSK-D

PAGE 12

- natural convection (without fan)
- heating only
- no electronic control necessary
- built-in wooden board

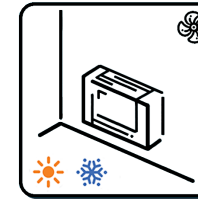


FOKS COMPAKT - FSKV-HC

PAGE 16

- wall brackets optional
- fan powered
- heating and cooling
- electronic control needed
- built-in grille

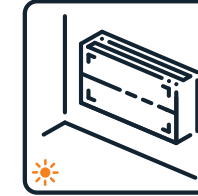
CONVECTORS FOR WALL MOUNTING



FOKS EPIC - FVKV-HC

PAGE 19

- fan powered
- heating and cooling
- electronic control needed
- outlet for condensated water necessary

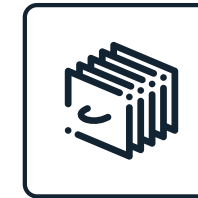


FOKS ELEMENT - FVK

PAGE 22

- natural convection (without fan)
- heating only
- no electronic control needed
- built-in grille

HEAT EXCHANGER FOR INDIVIDUAL MOUNTING

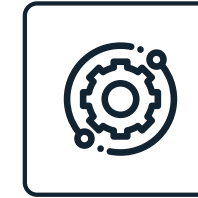


FOKS OT

PAGE 25

- no fan
- heating only
- no electronic control needed
- additional coverage necessary

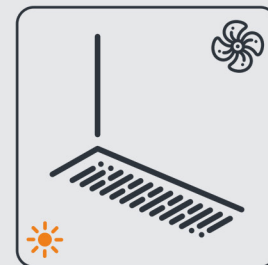
TECHNICAL PART



TECHNICAL PARAMETERS

PAGE 27

- thermostats and controllers
- electrical wiring schemes
- dimensions and drawings
- other specifications
- weights, water volumes
- additional information

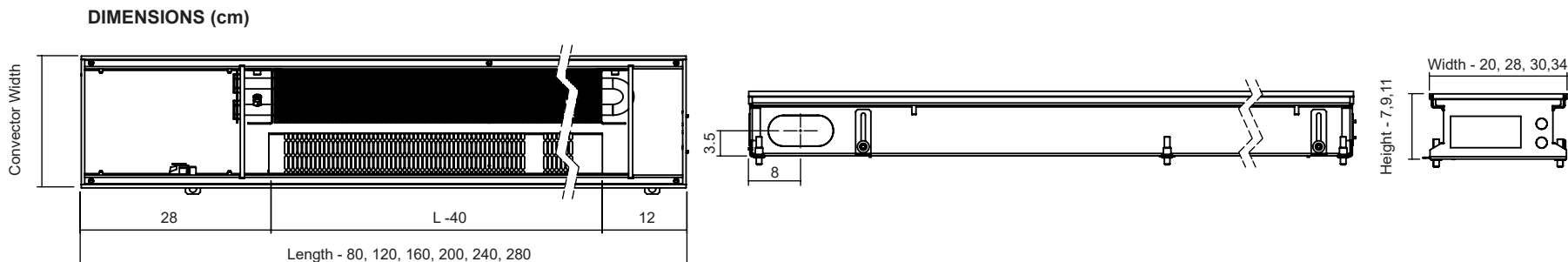


HEATING 

TANGENTIAL FAN 

FOKS SPIRIT - FPKV

CONVECTOR FOR CONCEALED FLOOR MOUNTING



ADDITIONAL SPECIFICATION

Frame color - "S" - silver, RALXXX (powder coated)

OPTIONAL

"-CL-", "-CR-", "-CLR-" - gapless modification of FPKV, FPK or PKO, "CL" left, "CR" right, "CLR" both sides (convector is in the middle - see the scheme at page bottom)

"- N" - stainless steel canal AISI 304 (Additional charge + 13%)

"- SF" - noise isolation band (up to 4 dB decrease of fan noise level) additional charge +6%

"- R" - Pipe connection on the RIGHT side

INSTALLATION

- Pipes from left side, 1/2" F, (Right side optional)
- Positioning - heat exchanger to the window side; fan to the room side
- Recommended gap between the window and the convector 8-12 cm
- Frame of the convector has to be leveled with the final floor surface
- No gap between the bottom of the convector and the concrete should remain unfilled.

ELECTRICAL WIRING

- WAGO terminal block
- For ALL-IN an 220V 50Hz connection is necessary!!!
- Wiring with 3 wire or 6 wire cable (1mm²)
- Power supply: +24VDC,-24VDC, signal 0-10VDC
- for more information about electrical connection see page 30

STANDARD PACKAGE CONTENT

- Black powder coated steel canal (RAL 9005)
- Bi-metallic heat exchanger (Al-Cu), powder coated (RAL 9005)
- Energy saving fan (8W)
- Switch interface for easy connection of additional sensors or controllers
- Set of fixing elements
- Protective cover board

NEW GENERATION OF ENERGY SAVING FANS

- Noise level under 17dB (1st speed)
- 3-phase motor 24V DC
- Excellent parameters - max.power consumption 7/15 Watt/h (per each fan 43/60mm diameter)
- All-black design
- Rubber silencers decreasing vibrations and noise
- Easy system of replacement

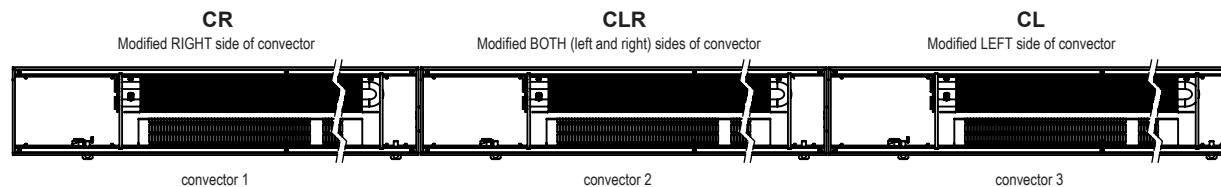


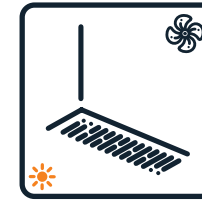
Fan specification at page 31

SOUNDPROOFING FOIL

The outer side of the convector canal as well as its inner part in the area under the fan is covered with soundproofing foil. It further reduces fan noise as well as the potential transmission of vibrations - e.g. of joinery or metal construction. Soundproofing foil is also recommended as additional insulation when the convector is built into non-concreted structure.

Gapless connection of built-in convectors (allows installation of "endless" grille FPR-R - page 11)





Convector Width	Product code Convector Height	Length (cm)	80				120				160				200				240				280							
			Max.Power Input (Watt)				12 W				17 W				18 W				34 W				35 W				36 W			
			Fan speed				Off	1	2	3	Off	1	2	3	Off	1	2	3	Off	1	2	3	Off	1	2	3	Off	1	2	3
Width 20 cm	FPKV 7/20 Height 7 cm	Heat output - 75/65/20°C	100	490	630	769	145	938	1206	1473	182	1397	1795	2192	221	1858	2386	2915	259	2316	2973	3633	298	2773	3561	4351				
		Heat output - 55/50/20°C	61	299	384	469	88	572	736	899	111	852	1095	1337	135	1133	1455	1778	158	1413	1814	2216	182	1692	2172	2654				
	FPKV 9/20 Height 9 cm	Heat output - 75/65/20°C	109	533	685	836	158	1020	1311	1601	198	1519	1951	2383	240	2020	2594	3168	282	2517	3232	3949	324	3014	3871	4729				
		Heat output - 55/50/20°C	66	325	418	510	96	622	800	977	121	927	1190	1454	146	1232	1582	1932	172	1535	1972	2409	198	1839	2361	2885				
Width 28 cm	FPKV 11/20 Height 11 cm	Heat output - 75/65/20°C	162	599	772	947	217	1121	1439	1758	272	1668	2143	2618	331	2219	2850	3481	388	2766	3551	4338	446	3311	4252	5196				
		Heat output - 55/50/20°C	99	365	471	578	132	684	878	1072	166	1017	1307	1597	202	1354	1739	2123	237	1687	2166	2646	272	2020	2594	3170				
	FPKV 7/28 Height 7 cm	Heat output - 75/65/20°C	109	535	687	838	159	1023	1314	1605	199	1523	1956	2390	241	2026	2601	3176	283	2523	3240	3959	324	3022	3881	4741				
		Heat output - 55/50/20°C	66	326	419	511	97	624	802	979	121	929	1193	1458	147	1236	1587	1937	173	1539	1976	2415	198	1843	2367	2892				
W 34	FPKV 9/28 Height 9 cm	Heat output - 75/65/20°C	156	609	782	955	226	1165	1496	1828	284	1735	2228	2721	343	2306	2961	3617	403	2874	3697	4508	464	3441	4419	5399				
		Heat output - 55/50/20°C	95	371	477	583	138	711	913	1115	173	1058	1359	1660	209	1407	1806	2206	246	1753	2255	2750	283	2099	2696	3293				
	FPKV 11/28 Height 11 cm	Heat output - 75/65/20°C	189	67	874	1067	339	1301	1672	2041	489	1938	2490	3039	638	2576	3308	4041	789	3209	4122	5035	940	3843	4936	6031				
		Heat output - 55/50/20°C	115	41	533	651	207	794	1020	1245	298	1182	1519	1854	389	1571	2018	2465	481	1957	2514	3071	573	2344	3011	3679				
FPKV 11/34 Height 11 cm	Heat output - 75/65/20°C	247	88	1144	1397	443	1704	2189	2674	640	2538	3260	3980	836	3373	4332	5291	1034	4203	5397	6594	1231	5033	6464	7898					
	Heat output - 55/50/20°C	151	54	698	852	270	1039	1335	1631	390	1548	1989	2428	510	2058	2643	3228	631	2564	3292	4022	751	3070	3943	4818					

COVER GRILLES FPR ARE SEPARATE PRODUCT. MORE ABOUT COVER GRILLES AT PAGE 11.

5 EASY STEPS HOW TO CHOOSE THE RIGHT CONVECTOR

- pick the convector according to required dimensions and/or its heat output
- Choose the cover grille with the same width and length as is the specification of your convector FOKS
- Choose electronic control units according to the number of convectors you want to control
- Manual or Programmable thermostat
- Additional elements and fittings (valves, el.actuator)...

NEW

ALL-IN - electronic control unit (excl. room thermostat) built-in inside the convector!
More about ALL- IN option - see page 28

Electronic control

room thermostats and other elements of electronic control for all fan powered convectors FOKS - see pages 28-29

Wiring schemes

most used wiring schemes and description of cable work - see page 31

ORDER CODE (dimensions in cm)

Product code - Length / Height / Width - frame color - other specification

FPKV 200 / 9 / 28 - S - XXX

Cover grilles and electronic control has to be ordered separately

HINT

Convectors can be connected in one gapless line. This modification has to be specified in the convectors code. Consultation with our specialist is highly recommended.



 HEATING

 COOLING

 TANGENTIAL FAN

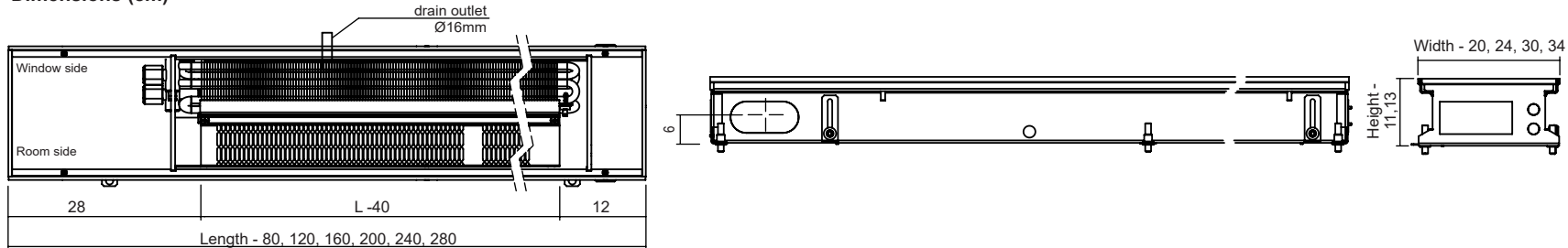
FOKS BREEZE - FPKV-HC

CONVECTOR FOR CONCEALED FLOOR MOUNTING





Dimensions (cm)



ADDITIONAL SPECIFICATION

Frame color - "S" - silver, RALXXX (powder coated)

OPTIONAL

"-CL-", "-CR-", "-CLR-" - gapless modification of FPKV, FPK or PKO, "CL" left, "CR" right, "CLR" both sides (convector is in the middle - see the scheme at page bottom)

"- N" - stainless steel canal AISI 304 (Additional charge + 13%)

"- SF" - noise isolation band (up to 4 dB decrease of fan noise level) additional charge +6%

"- R" - Pipe connection on the RIGHT side

INSTALLATION

- Pipes from left side, 1/2" F, (Right side optional)
- Positioning - heat exchanger to the window side; fan to the room side
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ELECTRICAL WIRING

- WAGO terminal block
- For ALL-IN an 220V 50Hz connection is necessary!!!
- Wiring with 3 wire or 6 wire cable (1mm²)
- Power supply: +24VDC,-24VDC, signal 0-10VDC
- for more information about electrical connection see page 30

STANDARD PACKAGE CONTENT

- Black powder coated steel canal (RAL 9005)
- Stainless steel (AISI 304) basin for condens water
- Bi-metallic heat exchanger (Al-Cu)
- Energy saving fan (8W)
- Switch interface for easy connection of additional sensors or controllers
- Set of fixing elements
- Protective cover board

NEW GENERATION OF ENERGY SAVING FANS

- Noise level under 17dB (1st speed)
- 3-phase motor 24V DC
- Excellent parameters - max.power consumption 7/15 Watt/h (per each fan with 43/60mm diameter)
- All-black design
- Rubber silencers decreasing vibrations and noise
- Easy system of replacement

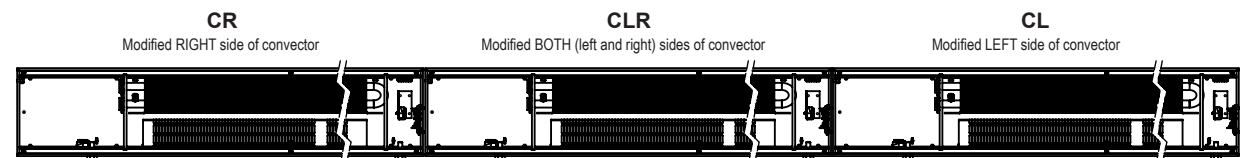


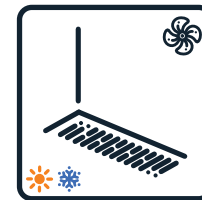
Fan specification at page 32

SOUNDPROOFING FOIL

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Gapless connection of build-in convectors (allows installation of "endless" grille FPR-R - page 11)





Convector width	Product code Convector Height	Length (cm)																									
		80				120				160				200				240				280					
		12 W				17 W				18 W				34 W				35 W				36 W					
		Fan speed		Off	1	2	3	Off	1	2	3	Off	1	2	3	Off	1	2	3	Off	1	2	3	Off	1	2	3
width 20 cm	FPKV-HC 11/20 Height 11 cm	Heat output - 75/65/20°C		90	466	598	731	174	897	1151	1406	218	1334	1714	2094	265	1775	2280	2785	310	2213	2841	3470	357	2649	3402	4157
		Heat output - 55/50/20°C		55	284	365	446	106	547	702	858	133	814	1046	1277	162	1083	1391	1699	189	1350	1733	2117	218	1616	2075	2536
		Cooling output - 6/12/26°C		0	131	183	238	0	252	353	457	0	371	526	681	0	495	700	905	0	617	872	1127	0	738	1045	1350
		Cooling output - 8/14/26°C		0	115	162	209	0	222	310	402	0	326	463	599	0	436	616	796	0	542	767	992	0	649	919	1188
width 24 cm	FPKV-HC 11/24 Height 11 cm	Heat output - 75/65/20°C		122	634	813	994	237	1220	1565	1912	296	1814	2331	2848	360	2414	3101	3788	422	3010	3864	4719	486	3603	4627	5654
		Heat output - 55/50/20°C		74	387	496	606	145	744	955	1166	181	1107	1422	1737	220	1473	1892	2311	257	1836	2357	2879	296	2198	2822	3449
		Cooling output - 6/12/26°C		0	189	264	343	0	364	509	659	0	535	758	982	0	713	1009	1305	0	889	1257	1625	0	1064	1506	1946
		Cooling output - 8/14/26°C		0	165	233	301	0	320	447	580	0	470	668	864	0	629	888	1148	0	781	1106	1430	0	936	1325	1713
width 30 cm	FPKV-HC 13/30 Height 13 cm	Heat output - 75/65/20°C		183	910	1080	1563	199	1493	1932	2370	283	2151	2783	3415	434	3249	4203	5157	580	4347	5624	6901	726	5445	7043	8642
		Heat output - 55/50/20°C		112	555	659	953	121	911	1179	1446	173	1312	1698	2083	265	1982	2564	3146	354	2652	3431	4210	443	3321	4296	5272
		Cooling output - 6/12/26°C		0	295	418	544	0	566	805	1046	0	801	1157	1453	0	1230	1753	2277	0	1644	2345	3046	0	1943	2665	3639
		Cooling output - 8/14/26°C		0	259	368	479	0	498	708	920	0	705	1018	1278	0	1082	1543	2004	0	1447	2064	2679	0	1710	2345	3203
width 34 cm	FPKV-HC 13/34 Height 13 cm	Heat output - 75/65/20°C		208	1033	1226	1775	226	1695	2194	2691	321	2442	3160	3878	493	3689	4772	5856	659	4936	6386	7836	824	6183	7997	9813
		Heat output - 55/50/20°C		127	630	748	1083	138	1034	1338	1642	196	1490	1928	2366	301	2250	2911	3572	402	3011	3895	4780	503	3772	4878	5986
		Cooling output - 6/12/26°C		0	333	473	615	0	640	910	1182	0	906	1308	1643	0	1391	1982	2574	0	1859	2651	3443	0	2196	3013	4114
		Cooling output - 8/14/26°C		0	293	416	541	0	563	800	1040	0	797	1151	1445	0	1223	1744	2266	0	1636	2333	3029	0	1933	2651	3621

COVER GRILLES FPR ARE SEPARATE PRODUCT. MORE ABOUT COVER GRILLES AT PAGE 11.

5 EASY STEPS HOW TO CHOOSE THE RIGHT CONVECTOR

- pick the convector according to required dimensions and/or its heat output
- Choose the cover grille with the same width and length as is the specification of your convector FOKS
- Choose electronic control units according to the number of convectors you want to control
- Manual or Programmable thermostat
- Additional elements and fittings (valves, el.actuator)...

HINT

Convectors can be connected in one gapless line. This modification has to be specified in the convectors code. Consultation with our specialist is highly recommended.

Electronic control - room thermostats and other elements of electronic control for all fan powered convectors FOKS - see page 28-29

Wiring schemes - most used wiring schemes and description of cable work - see page 31

ORDER CODE (dimensions in cm)

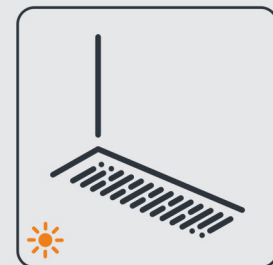
Product code - Length / Height / Width - frame color - other specification

FPKV-HC 200 / 11 / 20 - S - XXX

Cover grilles and electronic control has to be ordered separately

СЪВЕТ

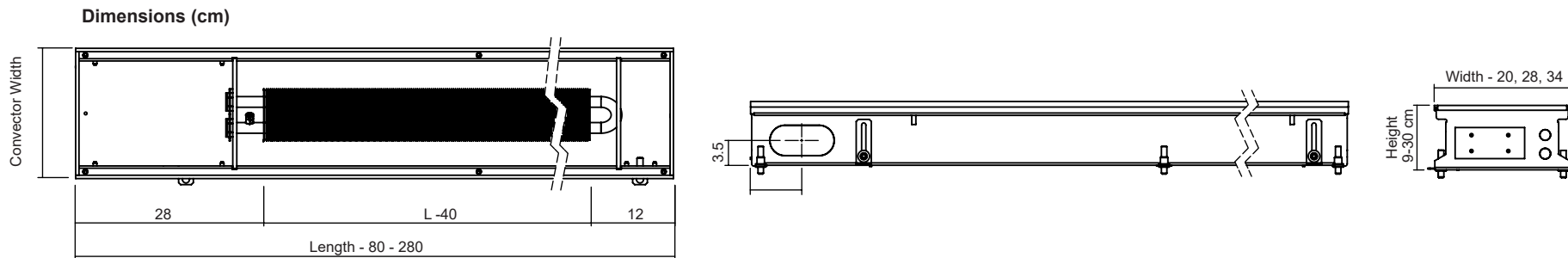
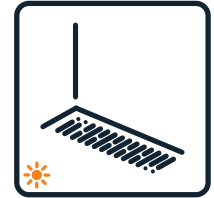
Конвекторите могат да бъдат свързани и да се получи една дълга непрекъсната линия (например 10м). Необходимо е това да се уточни в кода на конвектора. Моля консултирайте се с нашите специалисти.



HEATING 

FOKS CLOUD - FPK

CONVECTOR FOR CONCEALED FLOOR MOUNTING



ADDITIONAL SPECIFICATION

Frame color - "S" - silver, RALXXX (powder coated)

OPTIONAL

"-CL-", "-CR-", "-CLR-" - gapless modification of FPKV, FPK or PKO, "CL" left, "CR" right, "CLR" both sides (convector is in the middle - see the scheme at page bottom)

"- N" - stainless steel canal AISI 304 (Additional charge + 13 %)

MEANING OF CODES -CL, -CLR, -CR

When from designer's point of view gaps between convectors are not acceptable then there is an easy solution. Construction of convectors can be adapted so that these can be connected in one gapless line with one single seamless grille. Codes CL, CLR and CR shows which part of convector has to be modified in production so that an optimal connection can be achieved: - CL - left part, -CR - right part, -CLR - both left and right part. Deciding is the view towards the window (no matter whether convector is with right pipe connection "-R"). Consultation with our specialists is recommended.

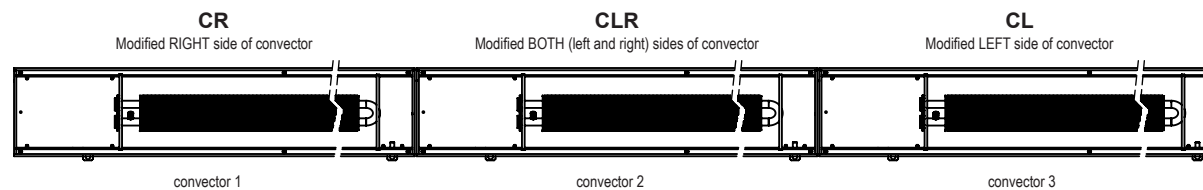
STANDARD PACKAGE CONTENT

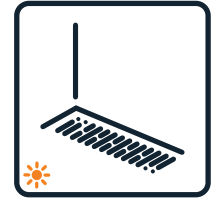
- Black powder coated steel canal (RAL 9005)
- Bi-metallic heat exchanger (Al-Cu), powder coated (RAL 9005)
- Set of fixing elements
- Protective cover board

INSTALLATION

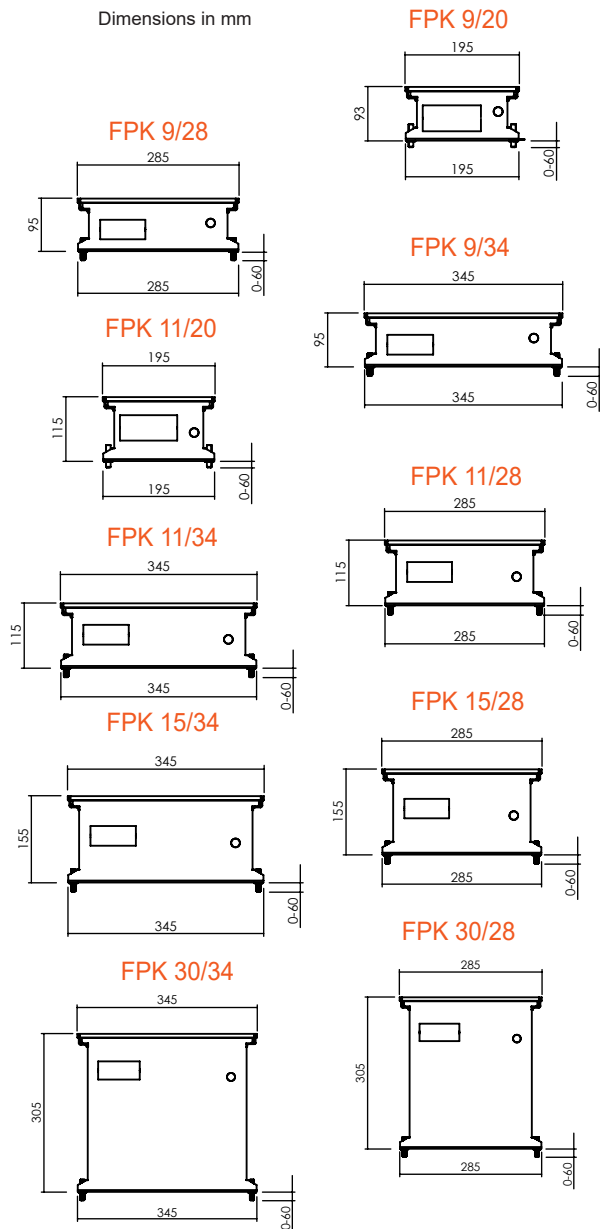
Pipes from left side, 1/2" F, (Right side optional)
 Positioning - heat exchanger to the window side; fan to the room side
 Recommended gap between the window and the convector 8-12 cm
 Frame of the convector has to be leveled with the final floor surface
 No gap between the bottom of the convector and the concrete should remain unfilled.

Gapless connection of build-in convectors (allows installation of "endless" grille FPR-R - page 11)





Dimensions in mm



	Length (cm)	80	100	120	140	160	180	200	220	240	260	280
FPK 9/20	75/65/20°C	148	203	256	310	359	417	464	520	572	624	676
	55/50/20°C	80	110	138	167	194	225	251	281	309	337	365
FPK 9/28	75/65/20°C	150	210	270	330	390	450	510	569	630	689	750
	55/50/20°C	81	113	146	178	211	243	275	307	340	372	405
FPK 9/34	75/65/20°C	227	302	379	461	538	626	694	775	857	929	1010
	55/50/20°C	123	163	205	249	291	338	375	419	463	502	545
FPK 11/20	75/65/20°C	149	203	254	307	358	419	465	517	569	620	673
	55/50/20°C	80	110	137	166	193	226	251	279	307	335	363
FPK 11/28	75/65/20°C	162	227	291	356	421	485	551	616	680	745	810
	55/50/20°C	87	123	157	192	227	262	298	333	367	402	437
FPK 11/34	75/65/20°C	263	357	449	540	633	738	821	916	1009	1097	1194
	55/50/20°C	142	193	242	292	342	399	443	495	545	592	645
FPK 15/28	75/65/20°C	228	320	411	502	593	684	776	867	959	1050	1141
	55/50/20°C	123	173	222	271	320	369	419	468	518	567	616
FPK 15/34	75/65/20°C	341	458	582	701	820	958	1059	1180	1303	1422	1541
	55/50/20°C	184	247	314	379	443	517	572	637	704	768	832
FPK 30/28	75/65/20°C	338	475	610	745	880	1015	1151	1286	1423	1558	1693
	55/50/20°C	183	257	329	402	475	548	622	694	768	841	914
FPK 30/34	75/65/20°C	549	738	938	1130	1321	1544	1706	1901	2100	2291	2483
	55/50/20°C	296	399	507	610	713	834	921	1027	1134	1237	1341

COVER GRILLES FPK ARE SEPARATE PRODUCT. MORE ABOUT COVER GRILLES AT PAGE 11.

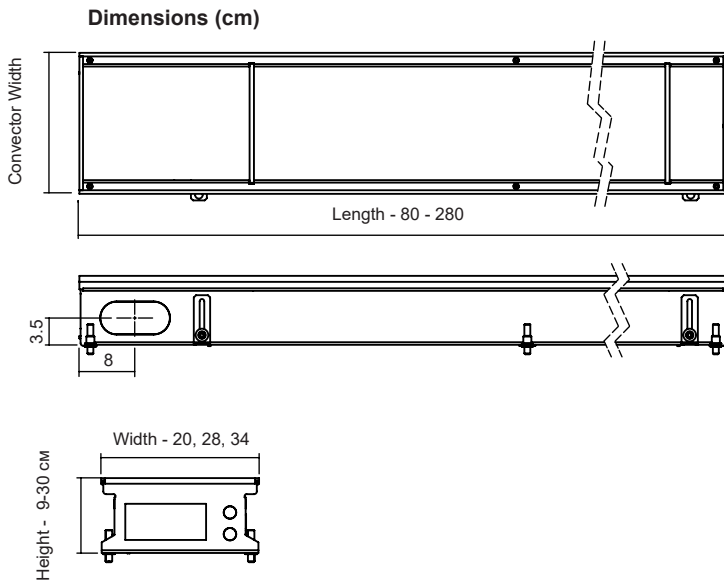
ORDER CODE (dimensions in cm)

Product code - Length / Height / Width - frame color - other specification

FPK 200 / 9 / 28 - S - XXX

Cover grilles and electronic control has to be ordered separately

PLAIN CANAL FOKS PKO



ORDER CODE (dimensions in cm)

Product code	- Length	/ Height	/ Width	- grille color	- optional
FPKO	200	/ 9	/ 28	- S	- XXX

Cover grilles have to be ordered separately

OPTIONAL

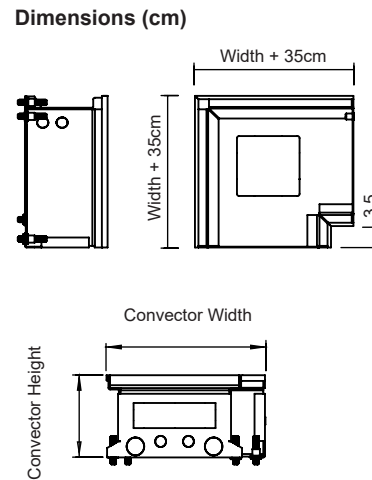
"-CL-", "-CR-", "-CLR-" - gapless modification of FPKV, FPK or PKO, "CL" left, "CR" right, "CLR" both sides (convactor is in the middle)

"- N" - stainless steel canal AISI 304 (Additional charge + 13 %)

ADDITIONAL SPECIFICATION

Frame color - "S" - silver, RALXXX (powder coated)

CORNER CONNECTION FOR FLOOR CONVECTORS FOKSCO



ORDER CODE (dimensions in cm)

Product code - Height / Width / angle (°) - frame color - grille material [color]

FCO 11 / 28 / 90 - S - ALS

Cover grilles have to be ordered separately

ADDITIONAL SPECIFICATION ADDITIONAL INFORMATION

Frame color - "S" - silver, RALXXX (powder coated)

Grille color - "ALS" - silver, RALXXX (powder coated), "ALL" - with lamination

"- N" - stainless steel canal AISI 304 (Additional charge + 13 %)

Grille is part of the corner element. Material and color of frame and grille should be the same as connected convactor.

Corner element is ready for installation of electrical elements (i.e. power supply).

Corner element is fitted with openings for pipe connections, cables and also for vertical pipe connection.

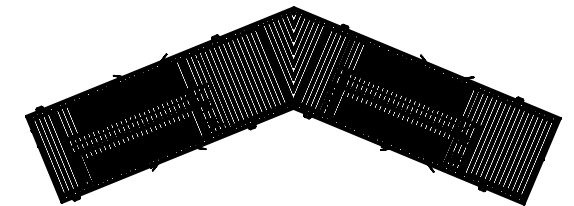
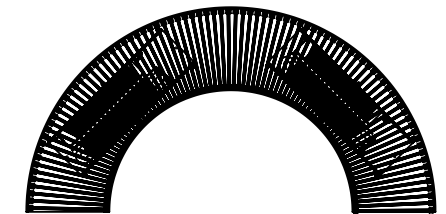
Price of the corner element is the same for all heights of standard convectors from FOKS production range.

CONVECTORS WITH CUSTOMIZED SHAPES AND DIMENSIONS

CUSTOMIZED ANGLES AND ROUNDED SHAPES

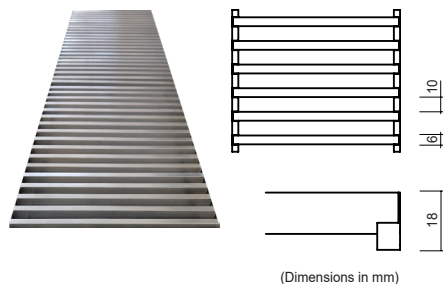
Everything is possible however sometimes we simply need your help. Every convactor FOKS can be produced with customized dimensions and shapes. Some additional information (provided by the customer) are necessary so that we can accept the order.

Please contact our sales department so that we can find the right solution for you.



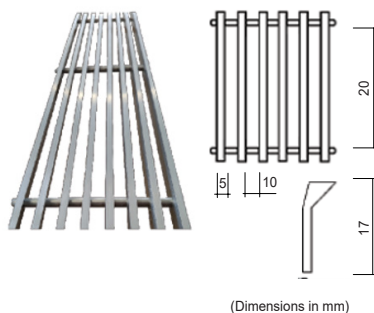
FOKS FPR-R (roll)

Unique construction allows assembling of long seamless grilles



FOKS FPR-L (linear)

Maximum recommended length is 200 cm



ORDER CODE (dimensions in cm)

Product code - Length / Width - material - other

FPR-L 200 / 28 - AL - RALXXXX

Product code - Length / Width - material - other

FPR-R 200 / 28 - ALL

Алуминиев профил - рамка - за подови конвектори FOKS

Product code - Length / Width - material - other

FAR 200 - ALS

ALS (silver)

SEGMENTS FROM RAW ALUMINUM

- Segments from AL profile. Suitable for wet and humid premises
- silver color
- Air permeability 62%



AL - RAL (powder coated)

SEGMENTS COLORED WITH POWDER COATING

- Segments from AL profile. Suitable for wet and humid premises.
- RAL powder coating at the request of the client, ORDER CODE "-RAL [RAL code]" - Additional charge + 9%
- It is recommended AL frame to be in the same color as the grille

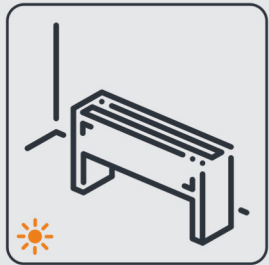


ALL - with lamination (available only for FPR-R)

SEGMENTS WITH WOOD IMITATING LAMINATION

- Segments from AL profile. Suitable for wet and humid premises
- Air permeability 62%
- Lamination with foil imitating different types of wood at the request of the client - additional charge -18%
- It is recommended AL frame to be in the same color as the grille

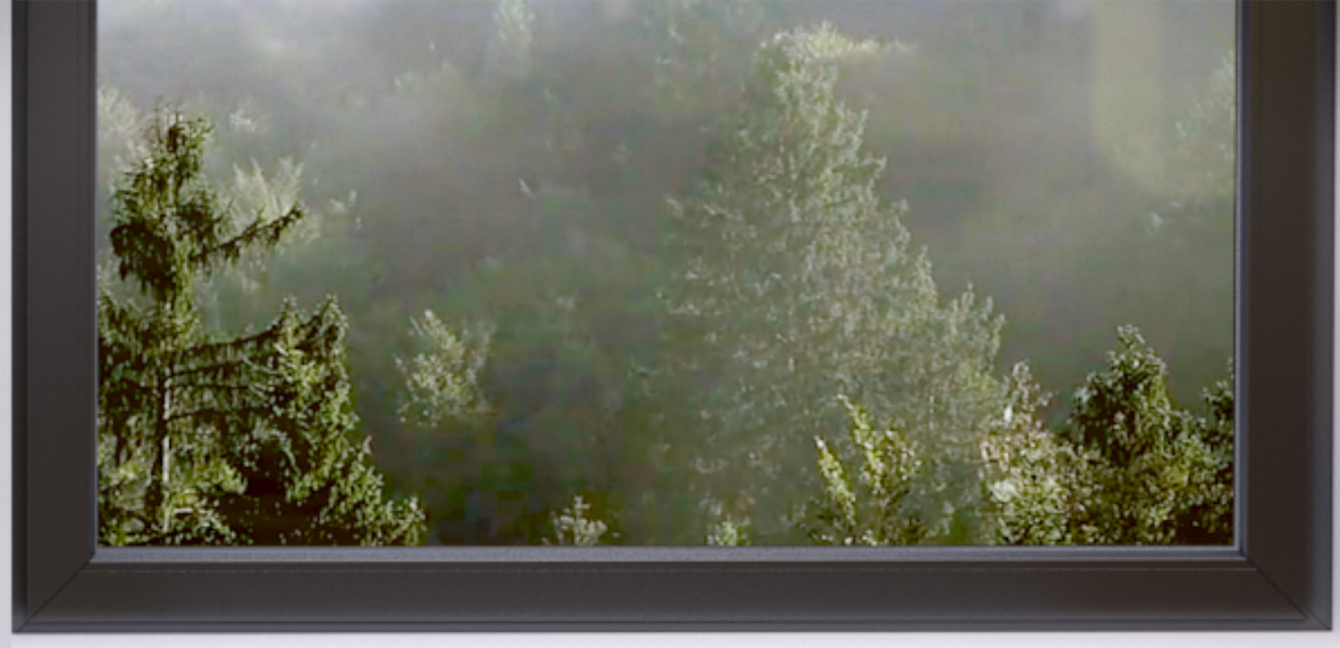


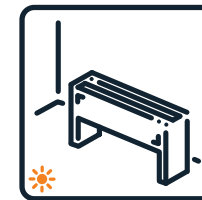


 HEATING

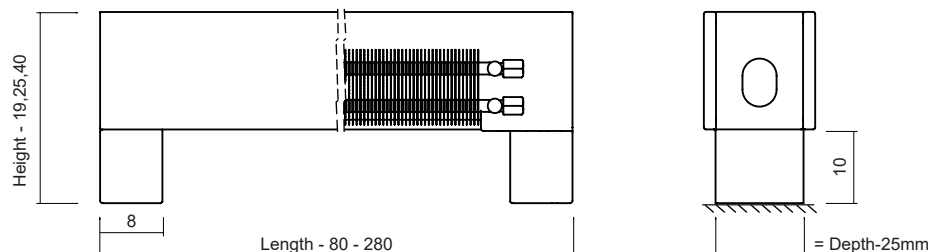
FOKS DWARF - FSK [-BT]

LOW CONVECTOR FOR FLOOR MOUNTING





Dimensions (cm)



ORDER CODE (dimensions in cm)

Product code - Length / Depth / Height* - grille color - optional

FSK [-BT] 200 / 19 / 25 - S - RALXXXX

* Height means the total height of body and floor brackets

ADDITIONAL SPECIFICATION

“- BT” - modification with double sized heat exchanger (higher Heat output)

“- FP” - modification with unified front panel, “SP”- split front panel - Additional charge +8% (only for 40cm height)

Grille color - “S” - silver, “B” - bronze (dark brown), powder coated RAL XXXX

“- N” - stainless steel body AISI 304 (Additional charge + 13 %) + powder coating RAL9016 - white matt

“-SD” - openings for two pipes in the side of convector (side connection with the heating system) - see below

“-CL” - no opening for pipe - both panels are closed (i.e. when convector is controlled by el.actuator) - see below

“-KN” - wall mounted convector. Convector is assembled with set of wall brackets instead of floor feet.

“-RAL XXXX” - non-standard color of powder coating. Additional charge + 5%

TIPIE CONNECTION

- 1/2” thread, F

- Heights 14cm, 40cm - inlet and outlet connection from one side of convector. Distance between inlet and outlet pipe 50mm

- Height 09cm - connection from opposite sides

- Symmetrical position of inlet and outlet pipe allows both LEFT or RIGHT connection



OPTIONAL COLORS OF BODY AND GRILLE

see page 24

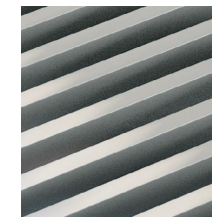
STANDARD PACKAGE CONTENT

- Steel powder coated body (RAL 9016 matt)
- Set of floor feet (wall brackets optional)
- Bi-metallic heat exchanger (Al-Cu), powder coated (RAL 9005) (modification FSK-BT - double sized heat exchanger)
- Linear AL grille, silver color
- Set of fixing element

MATERIAL AND SURFACE TREATMENT OF GRILLES

- Electroplated AL profile
- Standard color (without additional specification) “S - silver
- Powder coating in the same color as body - no additional charge
- Powder coating in different color than the body with additional charge +5%

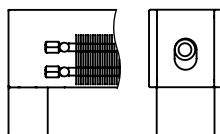
Aluminium



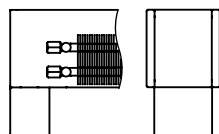
WOOD IMITATING LAMINATION



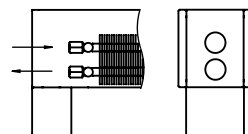
PIPE CONNECTION OPTIONS AND THEIR CODES



Standard floor or wall connection, one opening from side.

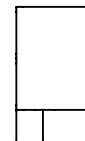


“-CL” floor or wall connection, side panel closed

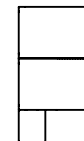


“-SD” side connection, two side openings

MODIFICATION WITH UNIFIED AND SPLIT FRONT PANEL

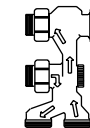


Unified front panel “-FP”

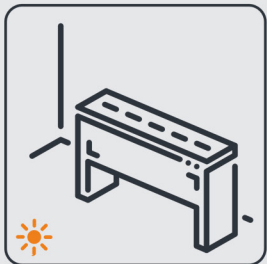


Split front panel “-SP”

ASSEMBLY VALVE



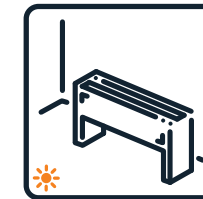
Recommended valve assembly (code FH401) - only for 25 and 40 cm height



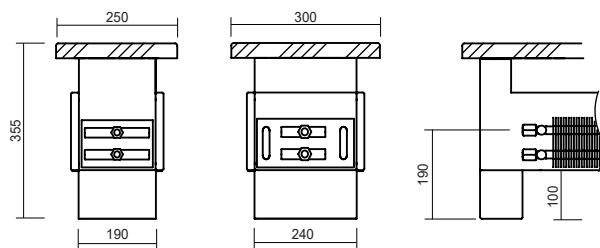
 HEATING

FOKS DWARF REST - FSK-D

LOW CONVECTOR WITH WOODEN DESK



Dimensions (cm)



ORDER CODE (dimensions in cm)

Product code - Length / Depth - Wood of the board - optional
FSK - D 200 / 19 - Beech/Oak - RALXXXX

ADDITIONAL SPECIFICATION

"- N" - stainless steel body AISI 304 (Additional charge +13%) + powder coating RAL9016 - white matt

"-SD" - openings for two pipes in the side of convector (side connection with the heating system) - see below

"-CL" - no opening for pipe - both panels are closed (i.e. when convector is controlled by el.actuator) - see below

"-RAL XXXX" - non-standard color of powder coating. For more information about colors without charge see page 24. Additional charge + 5%

PIPE CONNECTION

- 1/2" thread, F
- Symmetrical position of inlet and outlet pipe allows both LEFT or RIGHT connection



OPTIONAL COLORS OF BODY

see page 24

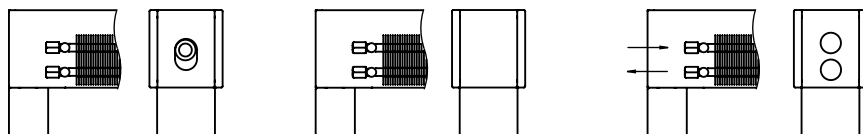
STANDARD PACKAGE CONTENT

- Steel powder coated body (RAL 9016 matt)
- Set of floor feet
- Bi-metallic heat exchanger (Al-Cu), powder coated (RAL 9005)
- Set of fixing elements
- Top panel from natural wood. TEAK oil surface treatment.

MATERIAL AND SURFACE TREATMENT OF WOODEN BOARD

- Natural wood MAHOGANY, OAK, BEECH
- Polished surface, matt
- TEAK oil surface treatment
- Panel thickness 25mm, forced with lengthwise rib
- Ready to use

PIPE CONNECTION OPTIONS AND THEIR CODES

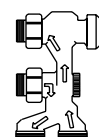


Standard floor or wall connection, one opening from side.

"-CL" floor or wall connection, side panel closed

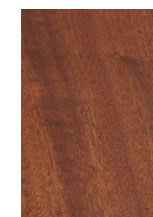
"-SD" side connection, two side openings

ASSEMBLY VALVE



Recommended valve assembly (code FH401) - only for 25 and 40 cm height

MAHOGANY

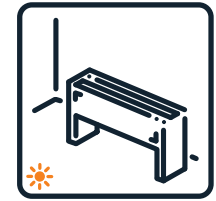


BEECH



OAK





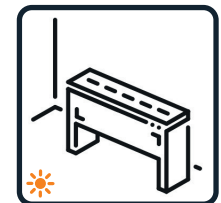
	Length (cm)	80	100	120	140	160	180	200	220	240	260	280
FSK 09/25	75/65/20°C	326	395	484	557	645	737	810	923	978	1083	1157
	55/50/20°C	176	213	261	301	348	398	437	498	528	585	625
FSK 09/40	75/65/20°C	423	534	601	760	868	1085	1115	1238	1349	1454	1575
	55/50/20°C	228	288	325	410	469	586	602	669	728	785	851
FSK 14/19	75/65/20°C	440	539	640	748	863	970	1074	1221	1320	1414	1504
	55/50/20°C	238	291	346	404	466	524	580	659	713	764	812
FSK 14/25	75/65/20°C	521	671	798	932	1077	1206	1366	1497	1621	1766	1922
	55/50/20°C	281	362	431	503	582	651	738	808	875	954	1038
FSK 14/40	75/65/20°C	660	811	959	1132	1301	1463	1616	1842	1992	2135	2273
	55/50/20°C	356	438	518	611	703	790	873	995	1076	1153	1227
FSK 19/19	75/65/20°C	682	836	990	1172	1344	1514	1678	1904	2060	2210	2354
	55/50/20°C	368	451	535	633	726	818	906	1028	1112	1193	1271
FSK 19/25	75/65/20°C	730	914	1104	1309	1499	1670	1862	2076	2267	2430	2650
	55/50/20°C	394	494	596	707	809	902	1005	1121	1224	1312	1431
FSK 19/40	75/65/20°C	1021	1258	1402	1760	2023	2281	2527	2871	3108	3335	3554
	55/50/20°C	551	679	757	950	1092	1232	1365	1550	1678	1801	1919
FSK 24/19	75/65/20°C	737	920	1106	1311	1513	1675	1871	2067	2065	2463	2622
	55/50/20°C	398	497	597	708	817	905	1010	1116	1115	1330	1416
FSK 24/25	75/65/20°C	925	1140	1346	1597	1842	2071	2297	2608	2823	3032	3232
	55/50/20°C	500	616	727	862	995	1118	1240	1408	1524	1637	1745
FSK 24/40	75/65/20°C	1172	1433	1680	1978	2264	2524	2775	3121	3348	3560	3756
	55/50/20°C	633	774	907	1068	1223	1363	1499	1685	1808	1922	2028

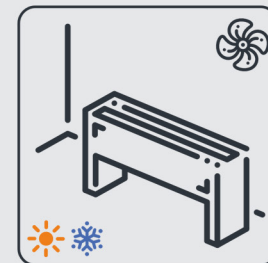
FOKS DWARF REST - FSK [-BT] PRICES AND HEATING OUTPUT

	Length (cm)	80	100	120	140	160	180	200	220	240	260	280
FSK-BT 14/40	75/65/20°C	836	1064	1292	1487	1730	1938	2136	2360	2584	2787	3028
	55/50/20°C	451	575	698	803	934	1047	1153	1274	1395	1505	1635
FSK-BT 19/40	75/65/20°C	1130	1395	1694	1987	2260	2544	2850	3117	3400	3700	3997
	55/50/20°C	610	753	915	1073	1220	1374	1539	1683	1836	1998	2158
FSK-BT 24/40	75/65/20°C	1484	1853	2223	2620	2981	3346	3708	4105	4479	4846	5236
	55/50/20°C	801	1001	1200	1415	1610	1807	2002	2217	2419	2617	2827

FSK-D - PRICES AND HEATING OUTPUT

	Length (cm)	80	100	120	140	160	180	200
FSK-D 19	75/65/20°C	766	953	1 146	1 377	1 604	1 835	2 067
	55/50/20°C	414	515	619	744	866	991	1116
FSK-D 24	75/65/20°C	995	1 243	1 489	1 792	2 098	2 394	2 696
	55/50/20°C	537	671	804	968	1133	1293	1456





HEATING 

COOLING 

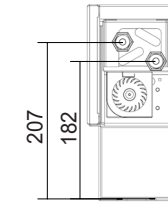
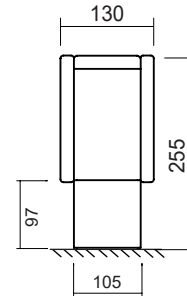
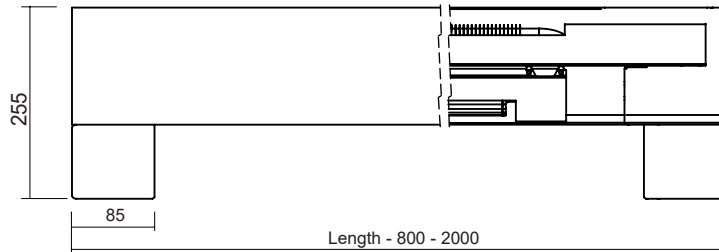
TANGENTIAL FAN 

FOKS COMPAKT FSKV, FSKV-HC

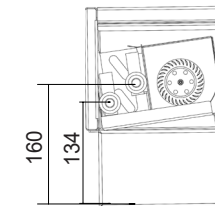
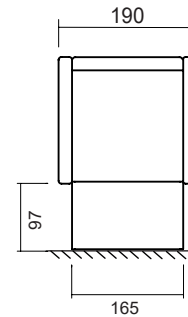
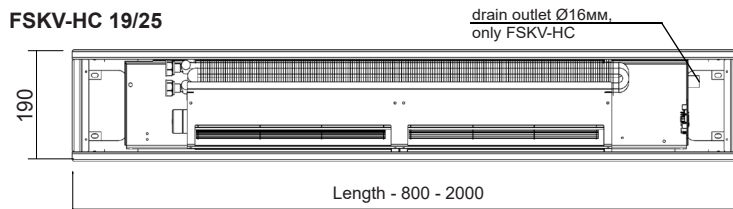
LOW CONVECTOR FOR FLOOR MOUNTING

Dimensions (mm)

FSKV 13/25



FSKV-HC 19/25



ADDITIONAL SPECIFICATION

"- N" - stainless steel body AISI 304 (Additional charge + 13 %) + powder coating RAL9016 - white matt

"-KN" - wall mounted convector. Convector is assembled with set of wall brackets instead of floor feet

"-RAL XXXX" - non-standard color of powder coating. Additional charge + 5%

ALL-IN BUILT-IN CONTROL

- Thermostat with LCD FOKS MTF806
- Power supply 15W
- Electronic control unit (fan speed control) "MEU2"

PIPE CONNECTION

- One side, two pipe system, 1/2" thread F
- Pipes from LEFT side, drain outlet from RIGHT side (FSKV-HC)

ELECTRICAL CONNECTION

- WAGO terminal block
- For ALL-IN an 220V 50Hz connection is necessary!!!
- Wiring with 3 wire or 6 wire cable (1mm²)
- Power supply: +24VDC,-24VDC, signal 0-10VDC
- for more information about electrical connection see page 30

STANDARD PACKAGE CONTENT

- Steel powder coated body (RAL 9016 matt) with floor feet
- Bi-metallic heat exchanger (Al-Cu)
- Energy saving fan
- Switch interface for easy connection of additional sensors or controllers
- Set of fixing elements
- hex mounting key



OPTIONAL COLORS OF BODY AND GRILLE

see page 24

NEW GENERATION OF ENERGY SAVING FANS

- Noise level under 17dB (1st speed)
- 3-phase motor 24V DC
- Excellent parameters - max.power consumption 7/15 Watt/h (per each fan with 43/60mm diameter)
- All-black design
- Rubber silencers decreasing vibrations and noise
- Easy system of replacement

Fan specification at Page 32





	Length (cm)	80				120				160				200					
		Max.power input (W)				7,6 W				7,8 W				8,2 W					15,2 W
FSKV 13/25 heating only	Fan speed	Off	1	2	3	Off	1	2	3	Off	1	2	3	Off	1	2	3	ALL-IN	
	Acoustic pressure	0	17.2	24.5	31.1	0	17.3	24.6	31.4	0	17.4	24.8	31.7	0	17.8	25.2	32.2		
	Air volume (m³/min)	0	0.9	1.2	1.5	0	1.8	2.3	2.9	0	2.8	3.5	4.4	0	3.7	4.7	5.8		
	Heat output - 75/65/20°C	119	581	747	911	172	1112	1429	1745	215	1390	1786	2181	258	1668	2144	2618		
	Heat output - 55/50/20°C	73	354	456	556	105	678	872	1064	131	848	1089	1330	157	1017	1308	1597		
FSKV-HC 19/25 heating and cooling	Fan speed	Off	1	2	3	Off	1	2	3	Off	1	2	3	Off	1	2	3	ALL-IN - not available	
	Acoustic pressure	0	17.2	24.5	31.1	0	17.3	24.6	31.4	0	17.4	24.8	31.7	0	17.8	25.2	32.2		
	Heat output - 75/65/20°C	179	890	1057	1530	428	1716	2035	2947	503	2518	2992	4333	693	3332	3949	5714		
	Heat output - 55/50/20°C	109	543	645	933	261	1047	1241	1798	307	1536	1825	2643	423	2033	2409	3486		
	Cooling output - 6/12/26°C	0	373	530	689	0	717	1019	1324	0	1015	1465	1840	0	1558	2220	2883		
	Cooling output - 8/14/26°C	0	328	466	606	0	631	896	1165	0	893	1289	1618	0	1370	1953	2538		

Electronic control page 28-29 wiring diagrams page 30	Code		Max.controlled convectors **	Power output	Max.power input	Free posi-
	Control module MEU + Power Supply 24V DC (page 27)	ZM-30-MEU		1 to 4 pcs.	30 W	1,2 A
ZM-60-MEU		1 to 8 pcs.	60 W	2,5 A	8 (MEU-1) / 6	
Built-in ALL-IN: Set of power supply + MEU-2	ALLIN1		1 pcs.	35 W	1,5 A	0
Built-in ALL-IN: Set of power supply + MEU-2 + room thermostat	ALL-IN1 COMPAKT		1 pcs.	35 W	1,5 A	0
		Code		Code		Code
Room thermostats FOKS (page 28)	Manual, LCD	MTF806-D	Programmable, LCD, white	MTF03DC-W	Programmable, LCD, black	MTF03DC-B

Diagram contains only part of electronic control elements. More about electronics - see page 28-29

* free space necessary for installation of Power Supply and control module MEU-2

** means all convectors installed in ONE room and operated by ONE thermostat

КОД ЗА ПОРЪЧКА FSKV (размерите са в см)

код на продукта - дължина / височина / ширина - цвят на решетката - специални - вградено управление

FSKV 200 / 13 / 25 - S - [RALXXX] - [ALL-IN]

* височина на скамейков тип конвектори се разбира корпус със стойки.

КОД ЗА ПОРЪЧКА FSKV-HC (размерите са в см)

код на продукта - дължина / височина / ширина - цвят на решетката - специални

FSKV-HC 160 / 19 / 25 - S - [RALXXX]

* височина на скамейков тип конвектори се разбира корпус със стойки.

Wiring schemes - most used wiring schemes and description of cable work - see page 31



 HEATING

 COOLING

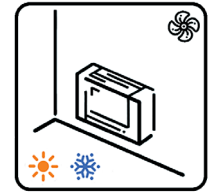
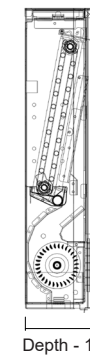
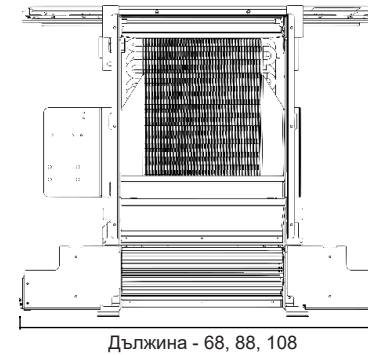
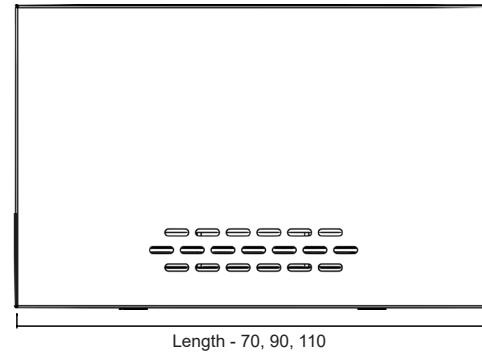
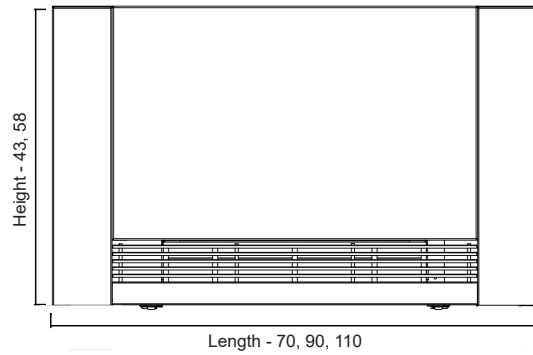
 TANGENTIAL FAN

FOKS EPIC - FVKV-HC

CONVECTOR FOR WALL MOUNTING



Dimensions (cm) - FVKV-HC, FVKV-HC-S, Built-in module



ADDITIONAL SPECIFICATION

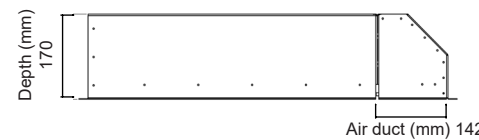
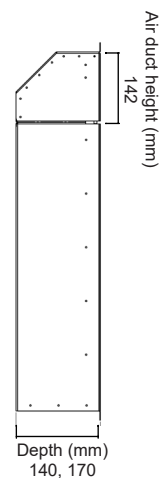
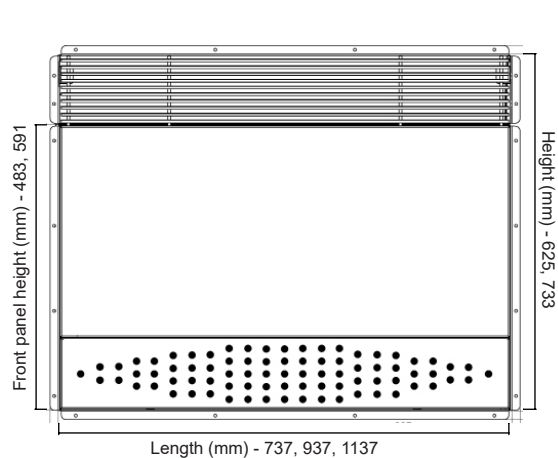
- Grille color - "S" - silver, grille powder coated in the same color as the convector body - without additional charge, grille powder coated RAL XXXX different from the body color - additional charge +5% (powder coating of the upper side covers in the same color included)
- "N" - stainless steel body AISI 304 (Additional charge + 13 %) + powder coating RAL 9016 - white matt
- "-R" - pipe connection on the RIGHT side

STANDARD PACKAGE CONTENT

- Steel powder coated body (RAL 9016 matt)
- Bi-metallic heat exchanger (Al-Cu) 1/2" F, powder coated (RAL 9005)
- LEFT pipe connection inlet and outlet
- Linear AL grilles RAL 9016 matt powder coated
- Soundproofing foil on panels
- Fan air filter
- Set of wall brackets

CUSTOMIZED COLOR (BODY AND GRILLE)

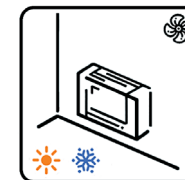
- Standard colors (no additional charge)
- RAL 9016 MATT - white matt
 - RAL 9016 GLOSSY - white glossy
 - Other RAL colors - Additional charge +9% (grille in the same color IS included).
 - Wood imitating lamination - Additional charge +18% (grilles powder coated in color close to the nuance of the wood included)
 - grille powder coated in different color from the body - additional charge +5%



BUILT-IN WALL / CEILING INSTALLATION KIT: HEATING MODULE, METAL BOX AND FRONT PANEL WITH SUCTION GRILLE

- built-in heating module includes bimetallic heat exchanger with 1/2" F, pipe connections on the left. Fan with air filter, stainless steel condensate drain basin
- metal box for installation in a wall made of galvanized metal with an air duct and a linear aluminum grille of an L-shaped profile directing the air flow
- decorative front panel with suction metal grille with over 4000 holes





Convector length (mm)		70				90				110			
FVKV-HC 13/58	Max. power input (A)	0.11				0.16				0.18			
	Convactor dimensions L/H/W (mm)	735 / 575 / 132				935 / 575 / 132				1136 / 575 / 132			
	Heat exchanger dimensions L/H (mm)	200 / 300				400 / 300				600 / 300			
	Weight (kg)	17				20				23			
	Water volume (L)	0.47				0.8				1.13			
	Fan speed	Off	1	2	3	Off	1	2	3	Off	1	2	3
	Acoustic noise dB (A)	0	24.6	33.6	39.8	0	25.8	34.5	40.6	0	26.1	34.8	42.6
	Fan air debit (m3/h)	0	54	115	159	0	152	254	317	0	245	369	458
	Heating output (W) - 75/65/20°C	351	898	1645	2096	839	2406	3592	4527	986	3810	5261	6318
	Heating output (W) - 50/45/20°C	179	458	839	1069	428	1227	1832	2309	503	1943	2683	3222
Heating output (W) - 40/35/20°C	109	346	670	925	261	965	1501	1856	307	1544	2204	2699	
Cooling output TOTAL (W) - 7/12/27°C	0	369	652	856	0	1110	1624	1947	0	1770	2404	2860	
Cooling output SENSIBLE (W) - 7/12/27°C	0	250	455	607	0	744	1110	1345	0	1187	1638	1969	
FVKV-HC 13/43	Convactor dimensions L/H/W (mm)	735 / 425 / 132				935 / 425 / 132				1136 / 425 / 132			
	Heat exchanger dimensions L/H (mm)	200 / 160				400 / 160				600 / 160			
	Weight (kg)	12				14				16			
	Water volume (L)	0.24				0.4				0.57			
	Fan speed	Off	1	2	3	Off	1	2	3	Off	1	2	3
	Acoustic noise dB (A)	0	24.2	32.9	39.2	0	25.3	33.9	39.8	0	25.6	34.1	41.8
	Fan air debit (m3/h)	0	49	106	146	0	128	214	259	0	229	321	411
	Heating output (W) - 75/65/20°C	233	710	1127	1463	337	1633	2331	2735	422	2790	3539	4308
	Heating output (W) - 50/45/20°C	119	362	575	746	172	833	1189	1395	215	1423	1805	2197
	Heating output (W) - 40/35/20°C	73	270	405	555	105	655	968	1151	131	1166	1509	1864
Cooling output TOTAL (W) - 7/12/27°C	0	264	358	430	0	685	971	1132	0	1245	1562	1880	
Cooling output SENSIBLE (W) - 7/12/27°C	0	192	273	336	0	487	706	832	0	880	1122	1370	

*Metal box and front panel are not included (have to be ordered separately)

ADDITIONAL	Code	Convactor type	€
Decorative feet h=90 mm	FD EPIC	all FVKV-HC	14
Stable feet for floor mounting h=90 mm (in set with decorative feet)	FS EPIC	all FVKV-HC	25
Freestanding convector kit: Decorative back panel + stable feet for floor mounting with decorative feet	BD EPIC 58/75	FVKV-HC 58/13/75	78
	BD EPIC 58/95	FVKV-HC 58/13/95	83
	BD EPIC 58/115	FVKV-HC 58/13/115	90
	BD EPIC 43/75	FVKV-HC 43/13/75	73
	BD EPIC 43/95	FVKV-HC 43/13/95	79
	BD EPIC 43/115	FVKV-HC 43/13/115	85
Metal box for built-in wall / ceiling mounting	IW EPIC 58/75	FVKV-HC 58/13/75	118
	IW EPIC 58/95	FVKV-HC 58/13/95	130
	IW EPIC 58/115	FVKV-HC 58/13/115	145
	IW EPIC 43/75	FVKV-HC 43/13/75	64
Decorative front panel with grille	IW EPIC 43/95	FVKV-HC 43/13/95	72
	IW EPIC 43/115	FVKV-HC 43/13/115	80
	FW EPIC 58/75	FVKV-HC 58/13/75	81
	FW EPIC 58/95	FVKV-HC 58/13/95	93
	FW EPIC 58/115	FVKV-HC 58/13/115	107
	FW EPIC 43/75	FVKV-HC 43/13/75	73
FW EPIC 43/95	FVKV-HC 43/13/95	84	
FW EPIC 43/115	FVKV-HC 43/13/115	97	

ELECTRONIC CONTROL FOR FOKS EPIC

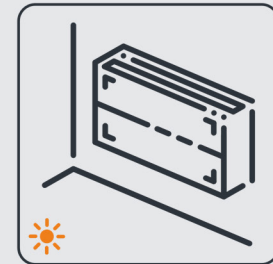
(SEPARATE PRODUCTS - MORE ON PAGE 28-29)

	Code	€	Max. controlled convectors	Power output	Max. power input
Power supply 24V DC + control unit MEU-2	ZM-15-DIN-2	35	1 6p.	15 W	0.7 A
	ZM-30-DIN-2	44	1-2 6p.	30 W	1,2 A
	ZM-60-DIN-2	57	1-4 6p.	60 W	2,5 A
Built-in electronics ALL-IN1 EPIC	ALL-IN1 EPIC	101	Factory BUILT-IN set of power supply + control unit MEU-2 + programmable thermostat		

ORDER CODE (dimensions in cm)

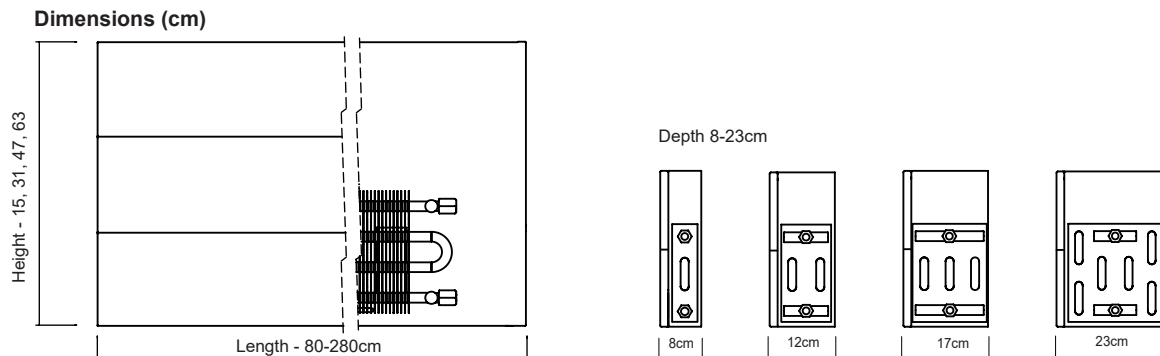
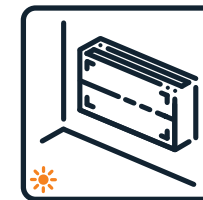
product code - Length / Depth / Height - body color - grille color - additional

FVKV-HC 90 / 13 / 43 - RAL XXXX - S - FD



HEATING 

FOKS ELEMENT - FVK
CONVECTOR FOR WALL MOUNTING



ADDITIONAL SPECIFICATION

- Grille color - "S" - silver, powder coated RAL XXXX
- "-FP" - modification with unified front panel, "SP"- split front panel - Additional charge +8%
- "- N" - stainless steel body AISI 304 (Additional charge + 13 %) + powder coating RAL9016 - white matt
- "-SD" - openings for two pipes in the side of convector (side connection with the heating system) - see below
- "-CL" - no opening for pipe - both panels are closed (i.e. when convector is controlled by el.actuator) - see below
- "-L" - pipe connection from LEFT side
- "-RAL XXXX" - non-standard color of powder coating. Additional charge + 5%
- Optional higher body (90cm, 105cm) - accordingly heating output is calculated individually

STANDARD PACKAGE CONTENT

- Steel powder coated body (RAL 9016 glossy)
- Set of wall brackets
- Bi-metallic heat exchanger (Al-Cu), powder coated (RAL 9005)
- RIGHT connection inlet and outlet
- Linear AL grille, silver color
- Set of fixing elements

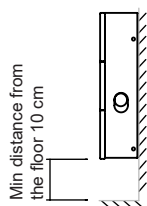
MATERIAL AND SURFACE TREATMENT OF GRILLES

- Electroplated AL profile
- Standard color (without additional specification) - "S-silver"
- Powder coating in the same color as body - no additional charge
- Powder coating in different color than the body - Additional charge +3%



CUSTOMIZED COLOR (BODY AND GRILLE)

- Standard colors (no additional charge)
 - RAL 9005 MATT - black matt
 - RAL 9005 GLOSSY - black glossy
 - RAL 9016 MATT - white matt
 - RAL 9016 GLOSSY - white glossy
 - RAL 9001 GLOSSY - creme glossy
 - RAL 7016 GLOSSY - grey glossy
- Other RAL colors - Additional charge +5% (grille in the same color IS included).
- Special effects (anthracite, clear "colorless", gold, silver...) Additional charge +9% (grille in the same color)
- Wood imitating lamination - additional charge +18% (grille powder coated in color close to the nuance of the wood included)



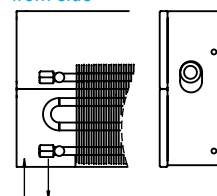
Split front panel, code "-SP"



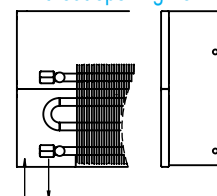
Unified front panel, code "-FP"



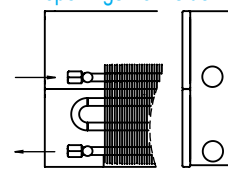
Standard floor/wall connection - one opening from side



"-CL" - floor/wall connection - without opening from side



Side connection - two openings from side



WOOD IMITATING LAMINATION





	Length (cm)	60	80	100	120	140	160	180	200	220	240	260	280
FVK 08/15	75/65/20°C	194	244	306	372	423	478	558	640	687	740	813	887
	55/50/20°C	105	132	165	201	228	258	301	346	371	400	439	479
FVK 08/31	75/65/20°C	441	618	780	848	1002	1160	1290	1572	1708	1709	1928	2024
	55/50/20°C	238	334	421	458	541	626	697	849	922	923	1041	1093
FVK 08/47	75/65/20°C	520	727	925	1028	1215	1401	1554	1752	1979	2127	2310	2524
	55/50/20°C	281	393	500	555	656	757	839	946	1069	1149	1247	1363
FVK 08/63	75/65/20°C	635	829	968	1160	1438	1537	1868	2006	2186	2306	2533	2910
	55/50/20°C	343	448	523	626	777	830	1009	1083	1180	1245	1368	1571
FVK 12/15	75/65/20°C	353	440	539	640	748	863	970	1074	1221	1320	1414	1504
	55/50/20°C	191	238	291	346	404	466	524	580	659	713	764	812
FVK 12/31	75/65/20°C	686	888	1085	1314	1634	1747	1953	2138	2531	2654	3027	3018
	55/50/20°C	370	480	586	710	882	943	1055	1155	1367	1433	1635	1630
FVK 12/47	75/65/20°C	788	1027	1327	1599	1885	1995	2381	2568	2981	2974	3370	3738
	55/50/20°C	426	555	717	863	1018	1077	1286	1387	1610	1606	1820	2019
FVK 12/63	75/65/20°C	901	1148	1417	1801	1947	2265	2564	3027	3206	3454	3780	4114
	55/50/20°C	487	620	765	973	1051	1223	1385	1635	1731	1865	2041	2222

	Length (cm)	60	80	100	120	140	160	180	200	220	240	260	280
FVK 17/15	75/65/20°C	540	682	836	990	1172	1344	1514	1678	1904	2060	2210	2354
	55/50/20°C	292	368	451	535	633	726	818	906	1028	1112	1193	1271
FVK 17/31	75/65/20°C	924	1209	1439	1745	1988	2384	2705	3008	3143	3503	3823	4253
	55/50/20°C	499	653	777	942	1074	1287	1461	1624	1697	1892	2064	2297
FVK 17/47	75/65/20°C	1029	1361	1788	2044	2539	2861	3268	3650	3987	4475	4858	5018
	55/50/20°C	556	735	966	1104	1371	1545	1765	1971	2153	2417	2623	2710
FVK 17/63	75/65/20°C	1245	1710	2124	2457	2865	3109	3816	4095	4661	4976	5037	5969
	55/50/20°C	672	923	1147	1327	1547	1679	2061	2211	2517	2687	2720	3223
FVK 23/15	75/65/20°C	723	1187	1482	1778	2096	2385	2677	2966	3284	3583	3877	4189
	55/50/20°C	390	641	800	960	1132	1288	1446	1602	1773	1935	2094	2262
FVK 23/31	75/65/20°C	1174	1606	2082	2303	2884	3160	3635	3810	4142	4688	5285	5752
	55/50/20°C	634	867	1124	1244	1557	1706	1963	2057	2237	2532	2854	3106
FVK 23/47	75/65/20°C	1418	1952	2424	2885	3330	3686	4383	4605	5072	5848	6449	6881
	55/50/20°C	766	1054	1309	1558	1798	1990	2367	2487	2739	3158	3482	3716
FVK 23/63	75/65/20°C	1633	2380	2923	3290	3950	4579	5241	5885	6220	7063	7251	8073
	55/50/20°C	882	1285	1578	1777	2133	2473	2830	3178	3359	3814	3916	4359

ORDER CODE (dimensions in cm)

Product code - Length / Depth / Height* - grille color - optional

FVK 200 / 12 / 31 - S [RAL] - XXX

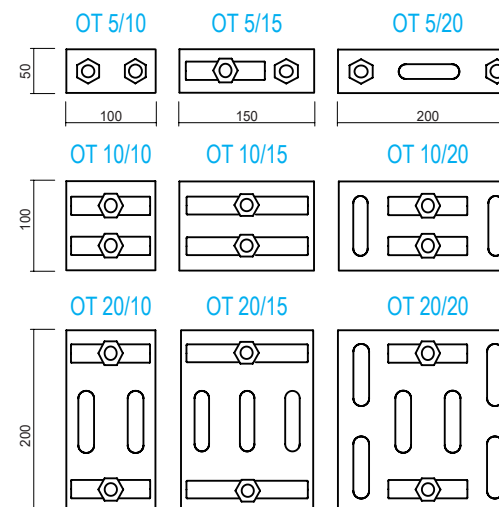




HEAT EXCHANGER FOR INDIVIDUAL INSTALLATION

	Length (cm)	80	100	120	140	160	180	200	220	240	260	280	300	Brackets 3 pcs.	
OT 5/10	75/65/20°C	313	391	469	547	680	734	816	860	938	1017	1095	1173	Wall bracket	Floor stand
	55/50/20°C	169	211	253	295	367	396	441	464	507	549	591	633		
OT 5/15	75/65/20°C	511	638	766	894	1021	1149	1277	1405	1533	1660	1788	1915	Wall bracket	Floor stand
	55/50/20°C	276	345	414	483	551	620	690	759	828	896	966	1034		
OT 5/20	75/65/20°C	570	713	855	998	1141	1283	1425	1567	1710	1853	1995	2138	Wall bracket	Floor stand
	55/50/20°C	308	385	462	539	616	693	770	846	923	1001	1077	1155		
OT 10/10	75/65/20°C	372	465	558	650	743	836	929	1022	1115	1208	1301	1394	Wall bracket	Floor stand
	55/50/20°C	201	251	301	351	401	451	502	552	602	652	703	753		
OT 10/15	75/65/20°C	624	779	935	1091	1247	1403	1558	1714	1870	2026	2182	2338	Wall bracket	Floor stand
	55/50/20°C	337	421	505	589	673	758	841	926	1010	1094	1178	1263		
OT 10/20	75/65/20°C	786	982	1178	1375	1571	1768	1963	2160	2356	2553	2749	2946	Wall bracket	Floor stand
	55/50/20°C	424	530	636	743	848	955	1060	1166	1272	1379	1484	1591		
OT 20/10	75/65/20°C	738	922	1106	1291	1475	1660	1844	2028	2213	2397	2582	2765	Wall bracket	Floor stand
	55/50/20°C	399	498	597	697	797	896	996	1095	1195	1294	1394	1493		
OT 20/15	75/65/20°C	962	1203	1444	1684	1926	2166	2407	2648	2890	3130	3372	3611	Wall bracket	Floor stand
	55/50/20°C	519	650	780	909	1040	1170	1300	1430	1561	1690	1821	1950		
OT 20/20	75/65/20°C	1212	1516	1819	2122	2427	2729	3033	3336	3641	3944	4249	4550	Wall bracket	Floor stand
	55/50/20°C	654	819	982	1146	1311	1474	1638	1801	1966	2130	2294	2457		

Dimensions (mm)



Correction factor for different heights of front cover							
Front cover height H (m)	0,20	0,25	0,30	0,35	0,40	0,45	0,50
Correction factor	1,000	1,051	1,136	1,207	1,268	1,322	1,371

Correction factor for lower air permeability					
total permeability (%)	>75%	60%	50%	40%	30%
Correction factor	1,00	0,95	0,90	0,85	0,60

STANDARD PACKAGE CONTENT

- Bi-metallic heat exchanger (Al-Cu), powder coated (RAL 9005)
- Air bleed valve 1/2"
- Packed in card-board protective profiles and bubble wrap

INSTALLATION HINTS

- So that the highest heat output can be achieved the heating exchanger shall be installed tightly to the wall
- Distance from the floor - min. 10cm
- The higher is the covering front panel the higher is the heating output (see "Correction factor for different heights of the front panel").
- Assure the highest possible air permeability: openings for incoming and out-coming air (grille) has to be large enough according to the surface of the heat exchanger (See "Correction factor for lower air permeability").

ORDER CODE (dimensions in cm)

product code - Length* / Width / Height - optional

OT 200 / 5 / 10 - RALXXXX

* The "Length" means length of FINNED part of the heat exchanger. Total length of the heat exchanger is "Length" + 130mm.

CONTROL UNITS FOR FAN POWERED CONVECTORS

	Code
Module ZM-30-DIN-1 (MEU-1+ZM-30), 8p.*	ZM30DIN1
Module ZM-60-DIN-1 (MEU-1+ZM-60), 8p.*	ZM60DIN1
Module ZM-100-DIN-1 (MEU-1+ZM-100) 8p.*	ZM100DIN1
Module ZM-150-DIN-1 (MEU-1+ZM-150) 8p.*	ZM150DIN1
Module ZM-30-DIN-2 (MEU-2+ZM-30), 6p.*	ZM30DIN2
Module ZM-60-DIN-2 (MEU-2+ZM-60), 6p.*	ZM60DIN2
Module ZM-100-DIN-2 (MEU-2+ZM-100) 8p.*	ZM100DIN2
Module ZM-150-DIN-2 (MEU-2+ZM-150) 8p.*	ZM150DIN2
Power Supply ZM-30 (30W/1.2A), 6p.*	ZM30
Power Supply ZM-60 (60W/2.5A), 6p.*	ZM60
Power Supply ZM-100 (100W/4.1A), 6p.*	ZM100
Power Supply ZM-150 (150W/6.2A), 6p.*	ZM150
Fan speed control unit MEU-1 (220V ac), 2p*	MEU-1
Fan speed control unit MEU-2 (24V dc)	MEU-2
Temperature switch	TH
Built-in electronics ALL-IN	ALLIN1
Built-in electronics ALL-IN1 COMPAKT	ALLIN1 COMPAKT
Built-in electronics ALL-IN1 EPIC	ALLIN1 EPIC
Junction terminal TP-1	TP1

* free positions in electrical junction cabinet needed

Control unit sets ZM-XX-DIN-1 has to be installed inside the electrical junction cabinet!

ALL-IN electronic set is factory built-in control unit that makes convector independent. Customer can choose and mark by code ALL-IN which convector will be equipped with built-in electronics.

ALL-IN1 COMPAKT electronics set is intended only for FOKS COMPAKT convectors. It's factory built-in set of power supply, control unit MEU-2 and room thermostat. Need to be ordered separately.

ALL-IN1 EPIC electronics set is intended only for FOKS EPIC convectors. It's factory built-in set of power supply, control unit MEU-2 and room thermostat. Need to be ordered separately.



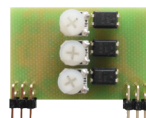
ZM-xx

- Power supply 220/24V
- 15, 30, 60, 100, 150 W



MEU-1

- Additional speed control unit MEU-1 (to be built in junction cabinet)
- Powered by 220V



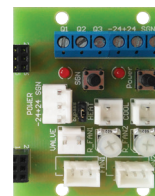
MEU-2

- Additional speed control unit MEU-2
- Powered by 24V DC
- For installation inside the convector



TH

- temperature switch:TC-cooling, TH-heating
- switch the convector fan ON/OFF when fluid inside the convector hits the effective temperature



Junction terminal TP-1

- factory built-in (included in the price of convector)
- allows links with other additional control elements

Wiring and other electrical diagrams

The most popular electrical scheme - see at page 31



ZM-xx-DIN-1 - MODULE

- Power supply 220/24V
- Speed control unit MEU-1 (220V/24V)
- Installation on DIN rail, el.cabinet
- Only with 220V room thermostat



ZM-xx-DIN-2 - MODULE

- Power supply 220/24V - DIN rail
- Speed control unit MEU-2 (220V/24V)
- Max.capacity - 10 controlled convectors



ALL-IN - MODULE

- Power supply 220/24V
- Speed control unit MEU-2 (24V)
- Inside the convector body
- **Only with 24V powered room thermostat (separate order)**



ALL-IN1 COMPAKT

- Power supply 220/24V
- Speed control unit MEU-2 (24V)
- Built-in inside FOKS COMPAKT - FVKV convector
- **Only with 24V powered room thermostat (included)**



ALL-IN1 EPIC

- Power supply 220/24V
- Speed control unit MEU-2 (24V)
- Built-in inside FOKS EPIC convector
- **Only with 24V powered room thermostat (included)**



ROOM THERMOSTATS

	Code
Manual thermostat FOKS, LCD - 24V dc	MTF806-D
Programmable t-stat FOKS - 24V dc	MTF03DC-W/B
Remote control	RF01

ELECTRONIC CONTROL OF FAN POWERED CONVECTORS FOKS
 Every fan powered convector can be controlled by ROOM THERMOSTAT and Module ZM-XX-DIN-1/-2 (incl. Power source and fan speed control unit "MEU").

Wiring and other electrical diagrams

The most popular electrical scheme - see at page 31

FAN AIR FILTERS

Code	Single	€	
		Double	Triple
FV 30	FV-1-30	FV-2-30	FV-3-30
FV 40	FV-1-40	FV-2-40	FV-3-40
FV 50	FV-1-50	FV-2-50	FV-3-50
FV 60	FV-1-60	FV-2-60	FV-3-60

INSTALLATION ELEMENTS

	Code
Axial thermostatic valve 1/2"	F300
Direct thermostatic valve 1/2"	F301
90° shut-off valve	F200
Direct shut-off valve	F201
Thermostatic head FOKS (white -hrome)	F100
Thermostatic head HERZ (white)	F101
El.actuator FOKS 24V	F102
El.actuator HERZ 24V	F103
Wall built-in mounting console	F104
Wall mounting console	F105
Cable for el. actuator, 280cm	F106
Thermostatic valve for double connect.	FH401

FOKS MTF806-D



- Power supply 24V DC (module ZM-XX-DIN-2 or ALL-IN necessary)
- Remote control optional
- Direct speed control signal (optional)
- No option for programming
- Installation partially in the wall (wall installation box not included)
- Built-in battery
- Dimensions 86x86x15mm (+25mm in the wall)



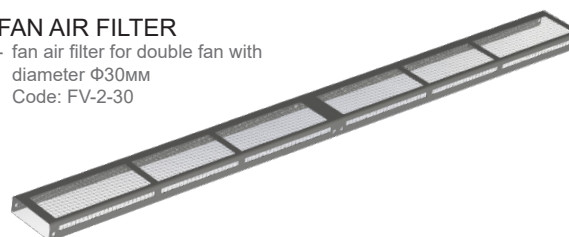
FOKS RF01

- Remote control for room thermostat MTF03DC

* ROOM THERMOSTATS WITH POWER SUPPLY 220V CAN BE DELIVERED ON REQUEST

FAN AIR FILTER

- fan air filter for double fan with diameter Φ30MM
- Code: FV-2-30



FOKS MTF03DC WHITE

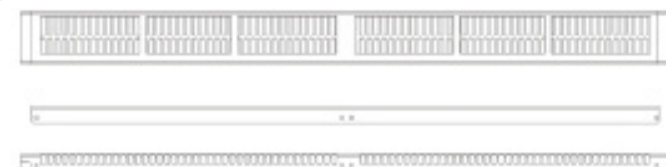


- Power supply 24V DC (module ZM-XX-DIN-2 or ALL-IN necessary)
- Remote control optional
- Touch display
- Direct speed control signal (optional)
- Programmable (week program)
- Installation partially in the wall (wall installation box not included)
- Built-in battery
- Dimensions 86x86x15mm (+25mm in the wall)
- Blue light

FOKS MTF03DC BLACK



- Power supply 24V DC (module ZM-XX-DIN-2 or ALL-IN necessary)
- Remote control optional
- Touch display
- Direct speed control signal (optional)
- Programmable (week program)
- Installation partially in the wall (wall installation box not included)
- Built-in battery
- Dimensions 86x86x15mm (+25mm in the wall)
- Black light
- option ONLY FOR FOKS EPIC



F300



F301



F200



F201



FH401



F100



F101



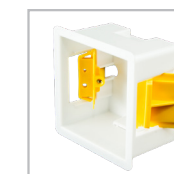
F102



F103



F104



F105



System for fan speed control contain 4 parts:

1. Room thermostat is checking the room temperature
2. Electronic Module MEU - determine the speed of fans
3. Power supply ZM-DIN 220V AC/24V DC - for room thermostat and fans
4. Fan powered convector with built-in multifunctional connection interface

Electronic module MEU

Convector FOKS are equipped with new generation fans. 3-phase motors are powered by safe voltage 24V DC and their RPM is controlled by additional signal produced by electronic Module MEU according to the information provided by thermostat.

How to choose the right power supply ZM-DIN?

Each fan powered convector FOKS needs power supply 24V DC provided by ZM-DIN. The minimum power consumption of each model is stated in the sheet with its heating output. Power supply has to have higher capacity (Watt) than all the convectors in one chain (system) together. Available models of ZM-DIN: ZM-15-DIN (15 Watt); ZM-30-DIN (30 Watt); ZM-60-DIN (60Watt).

	Length (cm)	80			
	Max.Power Input (Watt)	7.6 W			
	Fan speed	Off	1	2	3
FPKV 9/20	Heat output - 75/65/20°C	109	533	685	836

Since 2016 Fidoks Bulgaria Ltd. offers new convector control systems with more automation functions and powered by safe voltage 24V DC.

System with 24V DC power supply

Electronic control unit MEU-2 can be connected in any fan powered convector due to universal factory built-in interface TP-1. Power supply 24V DC has to be installed inside el.junction cabinet.

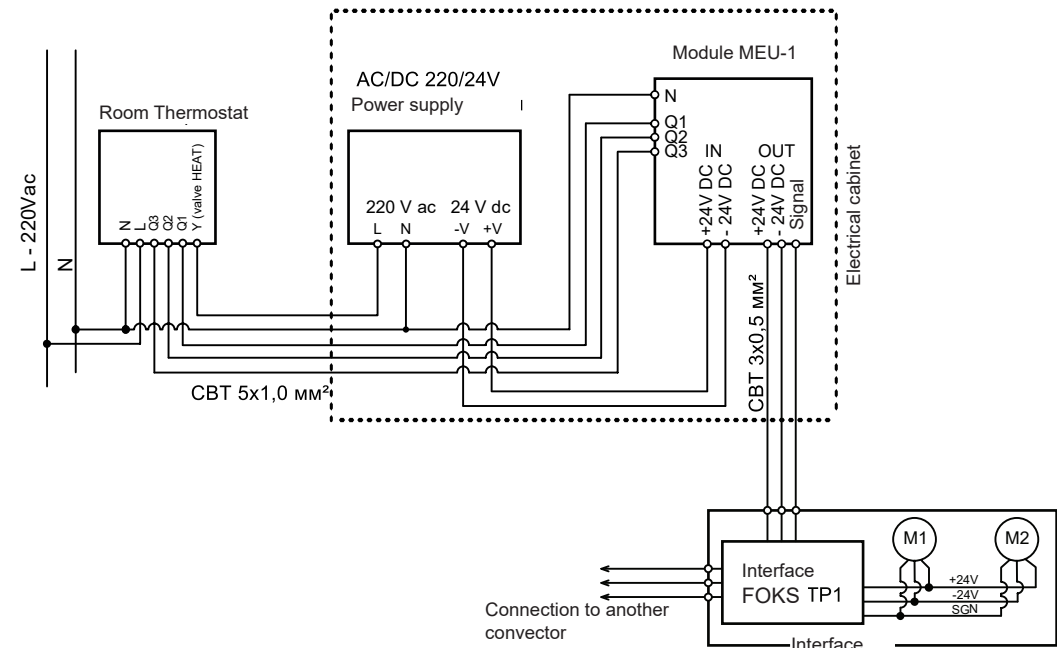
System with 220V AC power supply

Electronic control unit MEU-1 and power supply Module ZM-DIN has to be installed inside electrical cabinet (DIN rail in cabinet with apartment fuses)

Electronic control unit MEU-1 and MEU-2 allows additional adjustment of fan speed. Each of 3 pre-set speeds (in thermostat) can be adjusted separately. MEU is always pre-set to optimal values (fan speed according to the size of exchanger) so that each convector has the highest possible efficiency. Manual adjusting of these values is not recommended since this can bring serious damage to the fan electronics so the manufacturer can refuse warranty repair!

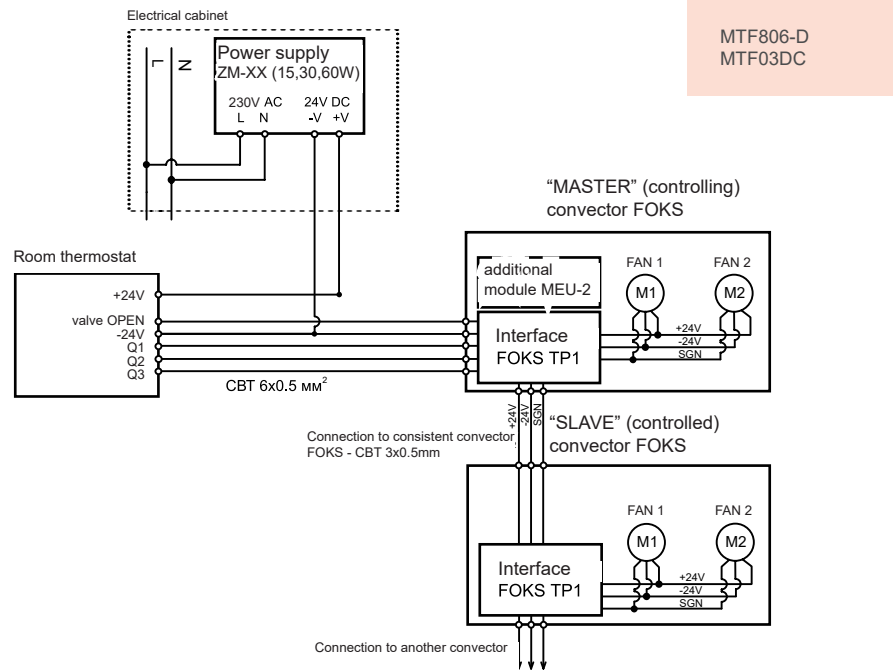
Electrical installation can only be done by authorized for this kind of works person. Fidoks Bulgaria Ltd. doesn't take any responsibility for any damage caused by unauthorized or wrong installation!

THERMOSTAT WITH POWER SUPPLY 220 V AC



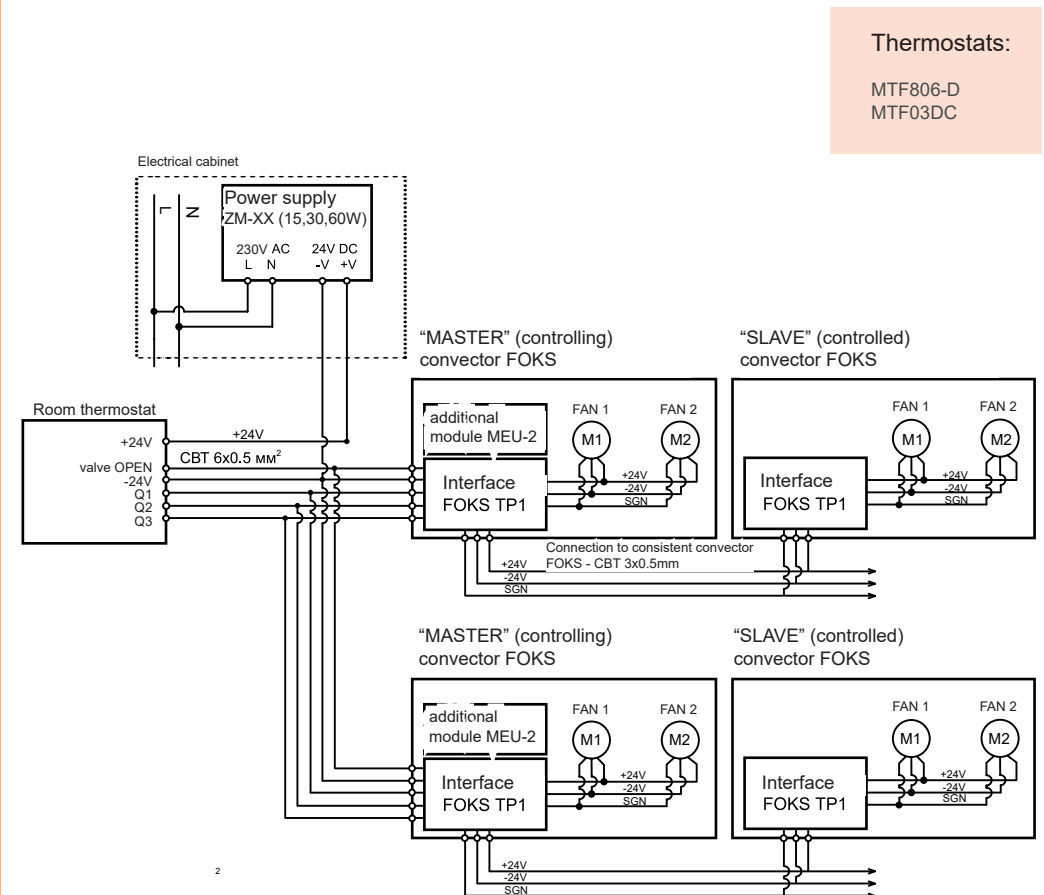
SYSTEM WITH THERMOSTAT WITH PRE-SET 3-SPEED CONTROL AND ONE MEU-2 SPEED CONTROLLER - MOST COMMONLY USED

System with "MASTER" (controlling) and "SLAVE" (controlled) convectors. Additional unit MEU-2 is installed in the first convector in chain ("MASTER"). MASTER is determining speed of fans of all other convectors ("SLAVE") in the chain.






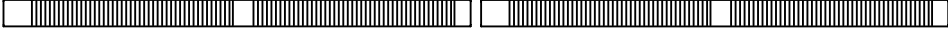


SYSTEM WITH 1 THERMOSTAT, 24V POWER SUPPLY WITH PRE-SET 3-SPEED CONTROL AND 2 OR MORE MEU-2 SPEED CONTROLLERS

In this system there are several "MASTER" convectors with their "SLAVE" convectors, all controlled by only one room thermostat. Quantity of convectors is limited only by their total input capacity (see section "How to choose the right Power supply, p.30"). Additional module MEU-2 can be connected to any convector in the chain. Such a convector with installed MEU-2 become "MASTER" and all the convectors connected behind become "SLAVE". This will result in independent chain with separately controlled fans. All these chains can be powered by one (sufficient) or more power supply. This scheme is eligible for system with more convectors (10 or more) controlled by one thermostat or by BMS and for systems with different models of convectors in one chain (FPKV together with FPKV-HC)..




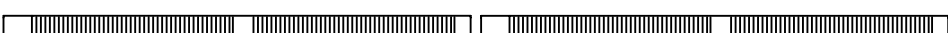

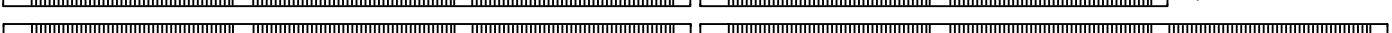


CONFIGURATION OF THE FANS IN THE CONVECTOR CANAL




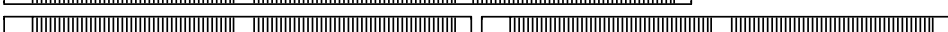
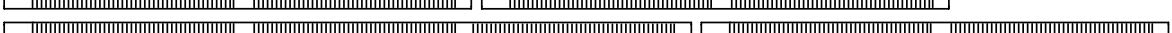
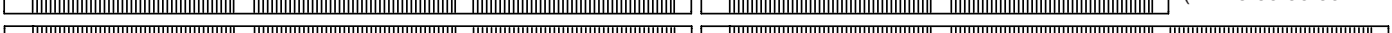
FPKV 7/20
FPKV 7/28

80 CM		(order code FVT 3-36)*	Impeller diameter Ø30mm Power supply 24V DC, control (speed) signal 0-10v Min.rpm 620 (+-5%) Max.rpm 1250 (+-5%)
120 CM		(order code FVT 3-36-36)*	
160 CM		(order code FVT 3-36-36-36)*	
200 CM		(2 x FVT 3-36-36)	
240 CM		(FVT 3-36-36-36 + FVT 3-36-36)	
280 CM		(2 x FVT 3-36-36-36)	


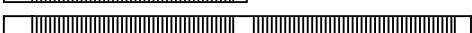
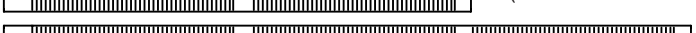


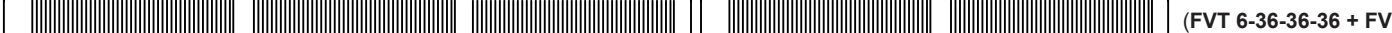
FPKV 9/20, 11/20
FPKV 9/28
FSKV 13/25

80 CM		(order code FVT 4-36)*	Impeller diameter Ø40mm Power supply 24V DC, control (speed) signal 0-10v Min.rpm 550 (+-5%) Max.rpm 1150 (+-5%)
120 CM		(order code FVT 4-36-36)*	
160 CM		(order code FVT 4-36-36-36)*	
200 CM		(2 x FVT 4-36-36)	
240 CM		(FVT 4-36-36-36 + FVT 4-36-36)	
280 CM		(2 x FVT 4-36-36-36)	

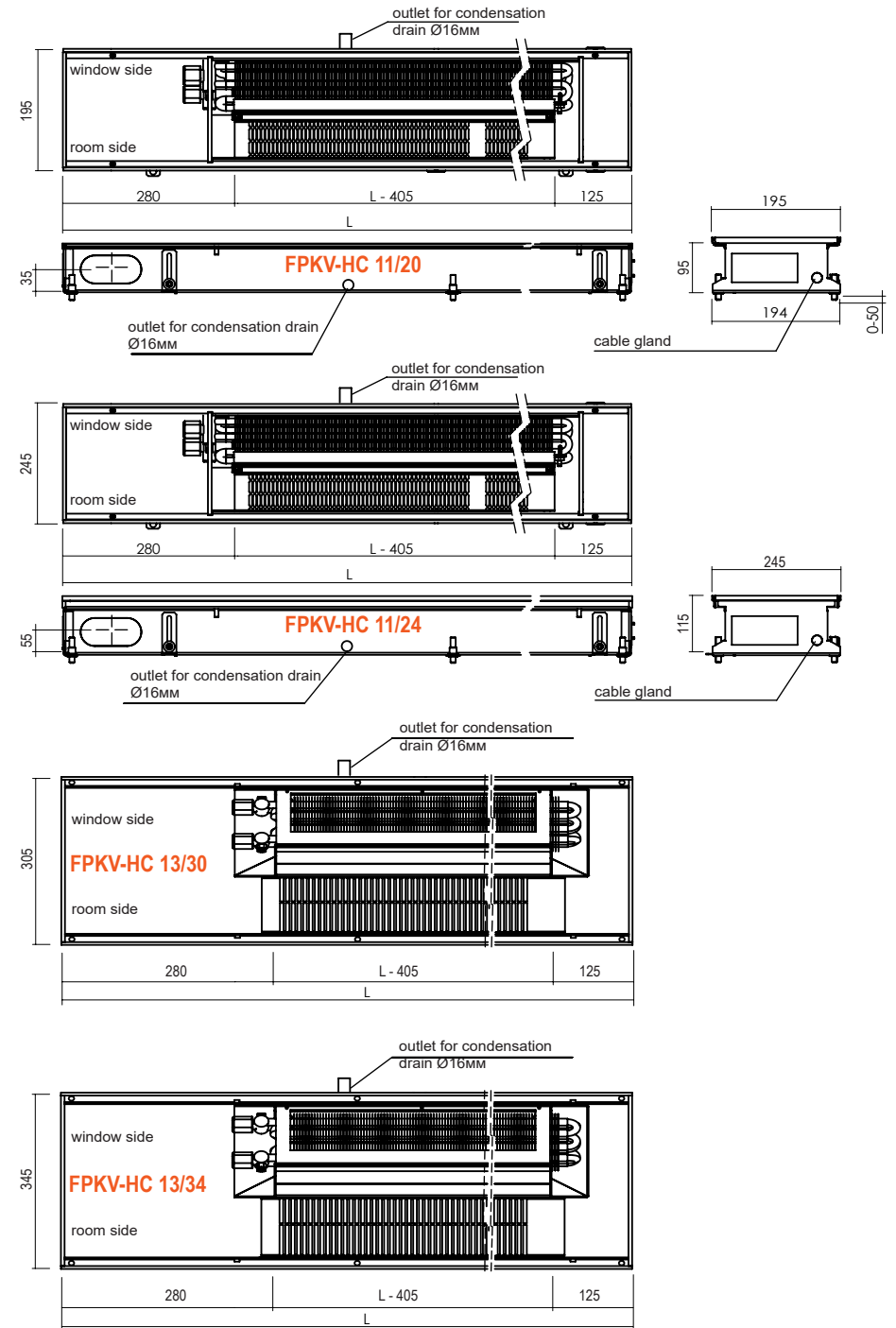
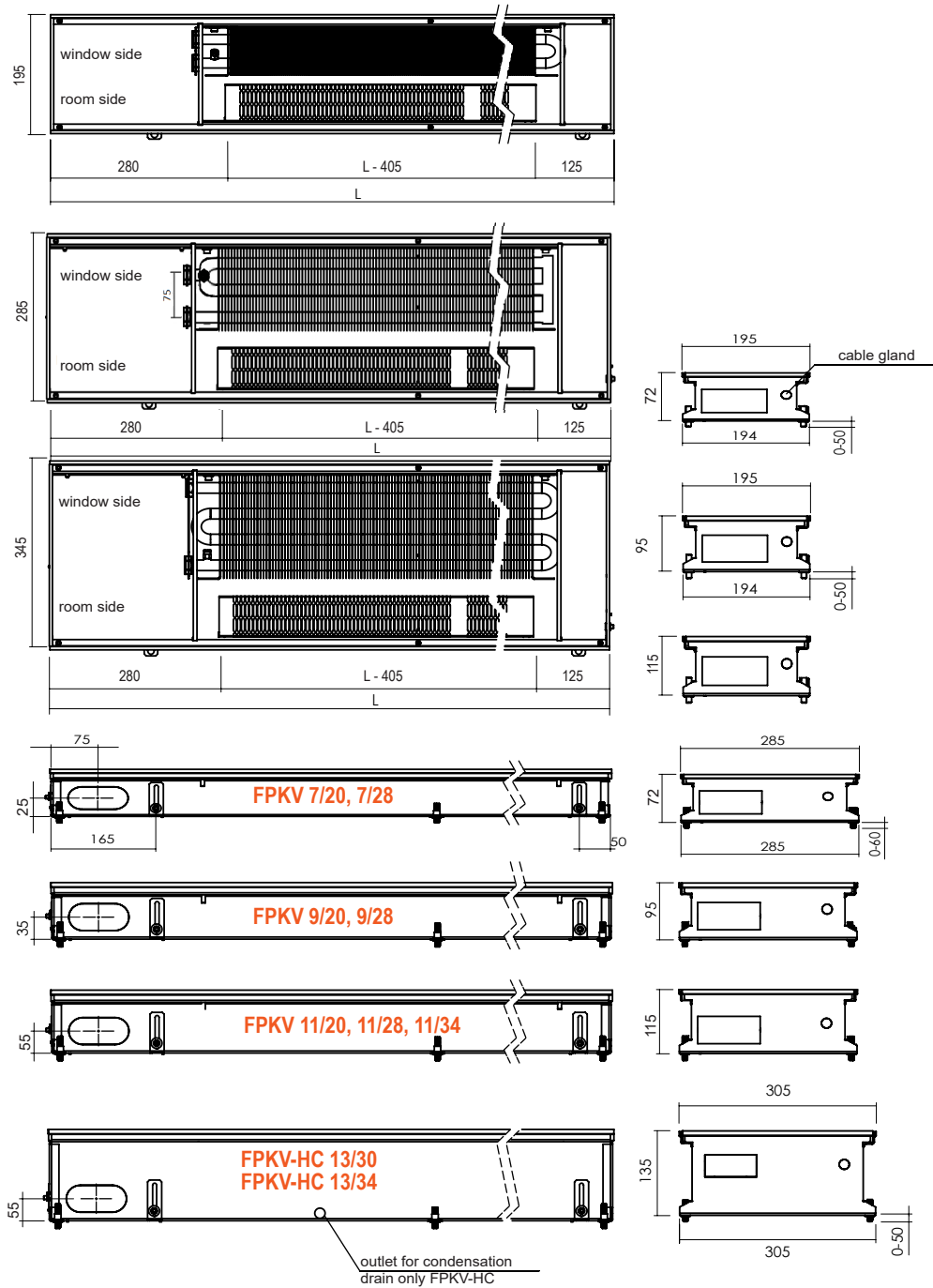
FPKV 11/28
FPKV-HC 11/20, 11/24

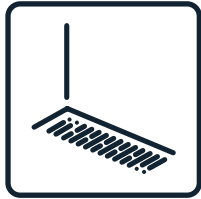
80 CM		(order code FVT 5-36)*	Impeller diameter Ø50mm Power supply 24v DC, control (speed) signal 0-10v Min.rpm 410 (+-5%) Max.rpm 1100 (+-5%)
120 CM		(order code FVT 5-36-36)*	
160 CM		(order code FVT 5-36-36-36)*	
200 CM		(2 x FVT 5-36-36)*	
240 CM		(FVT 5-36-36-36 + FVT 5-36-36)*	
280 CM		(2 x FVT 5-36-36-36)*	

FPKV-HC 13/30
FPKV-HC 13/34
FSKV-HC 19/25

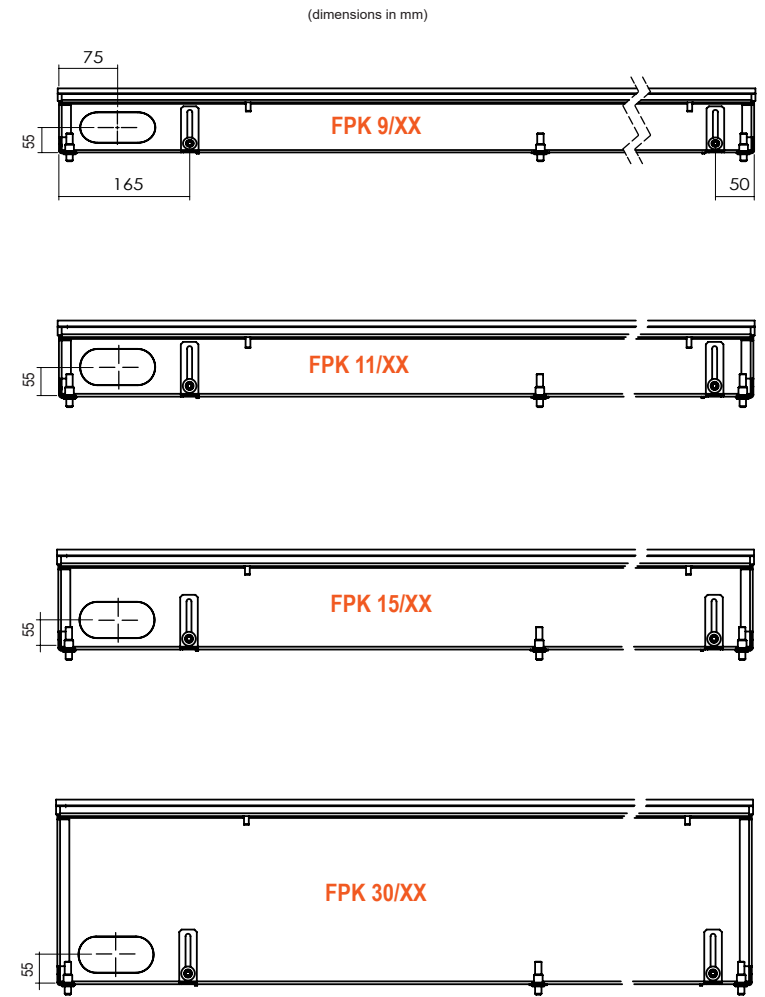
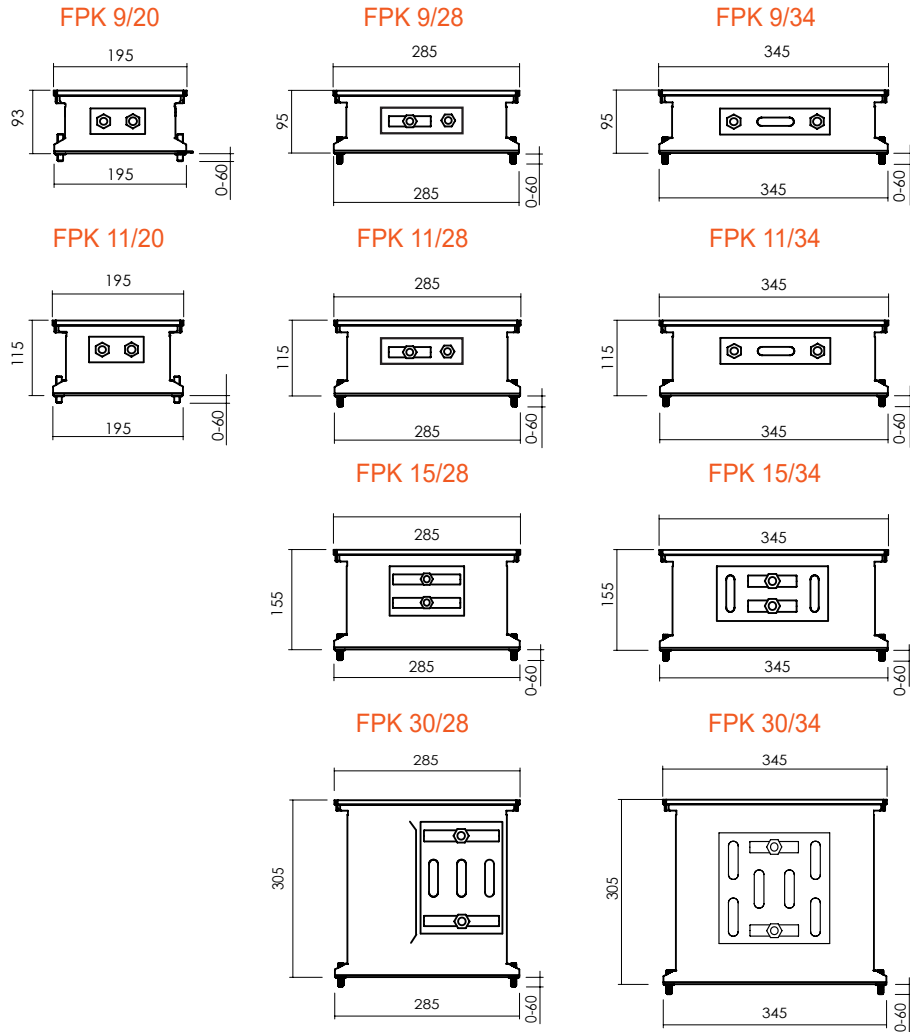
80 CM		(order code FVT 6-36)*	Impeller diameter Ø60mm Power supply 24v DC, control (speed) signal 0-10v Min.rpm 280 (+-5%) Max.rpm 1050 (+-5%)
120 CM		(order code FVT 6-36-36)*	
160 CM		(order code FVT 6-36-36-36)*	
200 CM		(2 x FVT 6-36-36)*	
240 CM		(FVT 6-36-36-36 + FVT 6-36-36)*	
280 CM		(2 x FVT 6-36-36-36)*	

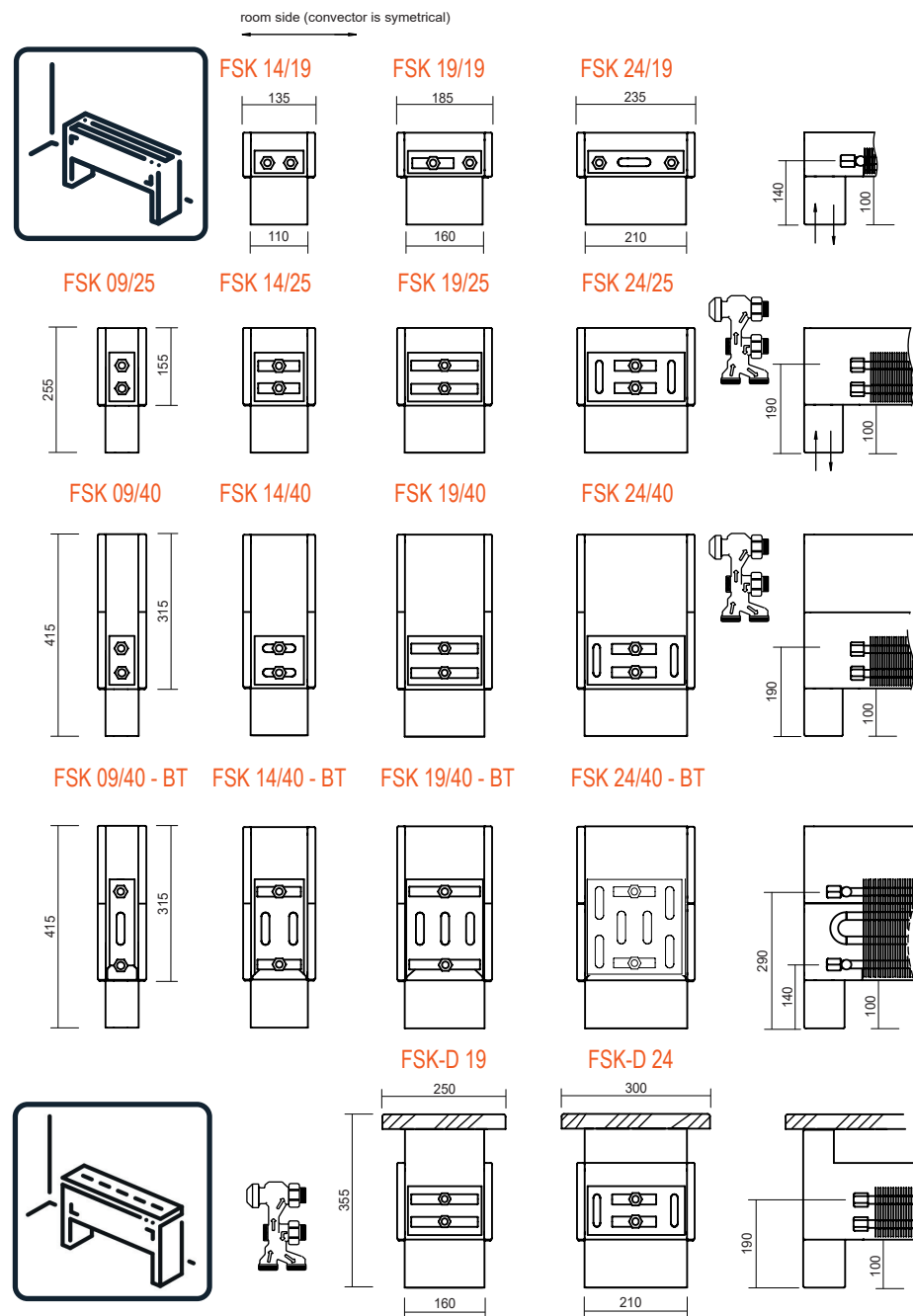
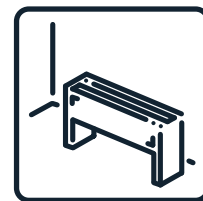
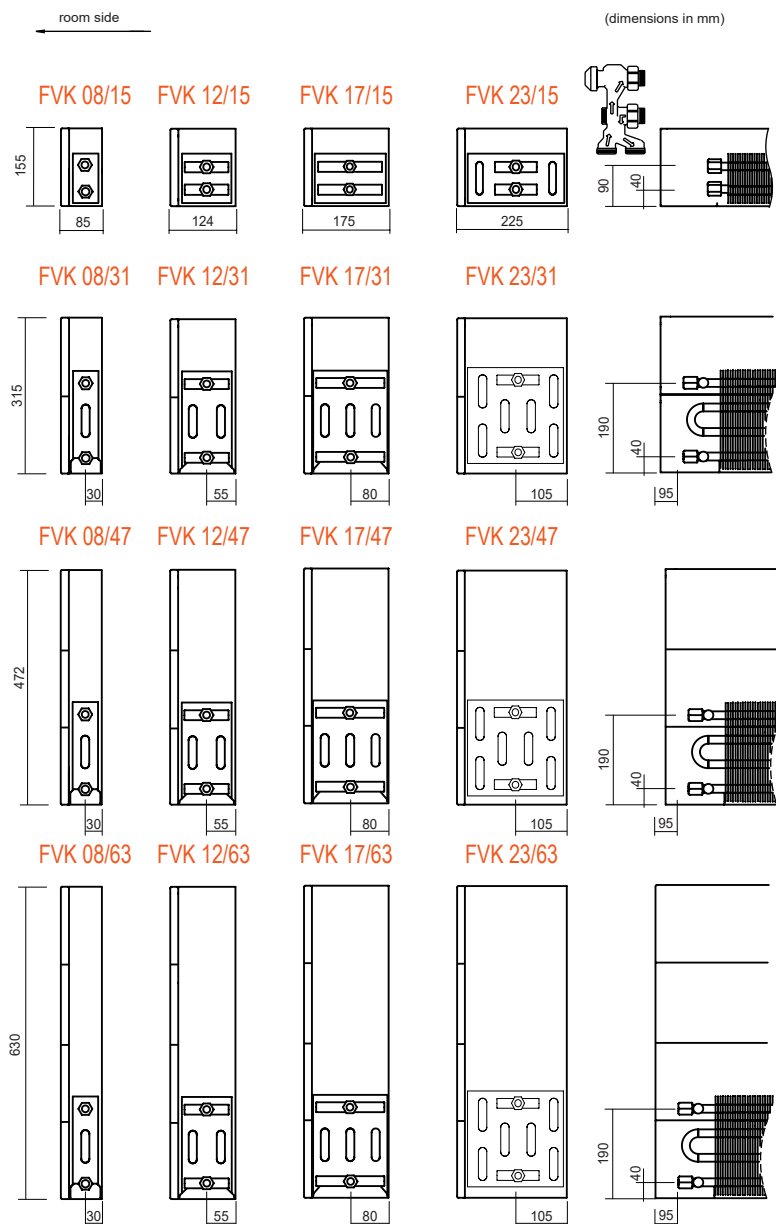
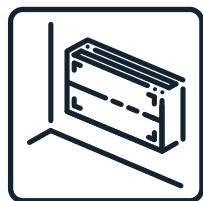
* Spare part for FOKS convectors. The price includes one piece of complete fan (single, double, triple) ready for connection.





room side (convectors FPK are symmetrical)





OTHER TECHNICAL PARAMETERS

Formula for calculating of the temperature difference: $\Delta t = (t_1 + t_2)/2 - t_i$

Δt - temperature difference
 t_1 - inlet temperature
 t_2 - outlet temperature
 t_i - room temperature

Correction factor for different inlet and outlet temperatures

FPKV, FPKV-HC, FSKV, FSKV-HC, FVKV-HC

coefficient for the Δt is multiplied by the power of the convector when Δt 50K (75/65/20).

$\Delta t(K)$	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
kt	0.33	0.34	0.36	0.38	0.40	0.42	0.44	0.46	0.48	0.50	0.52	0.55	0.57	0.58	0.60	0.62	0.65	0.67	0.69	0.71	0.73	0.75	0.78
$\Delta t(K)$	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60			
kt	0.80	0.82	0.84	0.86	0.89	0.91	0.93	0.95	0.98	1.00	1.04	1.02	1.06	1.09	1.11	1.13	1.15	1.17	1.19	1.22			

FPK, FSK, FSK-D, FVK

$\Delta t(K)$	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
kt	0.23	0.25	0.27	0.29	0.31	0.33	0.35	0.38	0.40	0.42	0.44	0.46	0.49	0.51	0.53	0.55	0.58	0.60	0.62	0.65	0.67	0.69	0.72
$\Delta t(K)$	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60			
kt	0.74	0.78	0.80	0.83	0.85	0.88	0.91	0.95	0.97	1.00	1.03	1.05	1.07	1.09	1.12	1.15	1.18	1.20	1.22	1.25			

Weight* (kg) and volumes (L) per 1 r.m.

	FPKV 9/20	FPKV 11/20	FPKV 7/28	FPKV 9/28	FPKV 11/28	FPKV-HC 11/20	FPKV-HC 11/24	FPKV-HC 13/30	FPK 9/20	FPK 9/28	FPK 9/34	FPK 11/20	FPK 11/28	FPK 11/34	FPK 15/28	FPK 15/34	FPK 30/28
kg/ltr	8,0/0,4	8,9/0,3	8,9/0,8	9,1/0,8	9,3/0,8	9,9/0,3	11,4/0,3	14,7/0,4	7,5/0,3	8,1/0,3	9,9/0,4	7,8/0,3	8,4/0,3	10,2/0,4	10,8/0,7	13,0/1,0	12,4/1,0
	FPK 30/34	FSK 14/25	FSK 14/40	FSK 19/25	FSK 19/40	FSK 24/25	FSK 24/40	FSK-D	FVK 8/31	FVK 8/47	FVK 8/63	FVK 12/31	FVK 12/47	FVK 12/63	FSKV 13/25	FSKV-HC 19/25	
kg/ltr	14,2/1,3	8,1/0,8	11,3/0,8	10,5/1,1	13,5/1,1	12,5/1,5	15,8/1,5	12,5/1,5	8,3/0,8	9,6/0,8	11,8/0,8	11,2/1,1	13,4/1,5	16,2/1,5	10,5/0,4	11,2/0,8	

*Without package. Weights of floor convectors are without cover grille.

Acoustic noise pressure level Db(A) *	80			120			160			200			240			280		
	1.	2.	3.	1.	2.	3.	1.	2.	3.	1.	2.	3.	1.	2.	3.	1.	2.	3.
FPKV 7/20, 7/28	X	X	X	17,2	20,9	26,7	17,8	21,1	26,9	18,0	21,4	27,4	18,6	21,6	28,0	19,2	21,8	28,3
FPKV 9/20,9/28,11/28,11/34, -HC 11/24	17,2	24,5	31,1	17,3	24,6	31,4	17,4	24,8	31,7	17,8	25,2	32,2	18,1	25,4	32,9	18,3	25,7	32,3
FPKV-HC 11/20, FPKV 11/20, 11/34, FSKV	18,8	25,4	33,3	19,0	25,7	33,7	19,1	26,1	34,0	19,6	26,2	34,6	19,9	26,5	34,9	20,2	26,8	35,0
FPKV-HC 13/30, 13/34, FSKV-HC 19/25	25,9	32,5	38,7	26,2	32,9	38,9	27,0	33,4	39,4	27,4	33,8	39,8	27,8	34,2	40,2	28,1	34,6	40,6

*Distance 1m, direction factor Q=2

Fan air debit (m3/min)	80			120			160			200			240			280		
	1.	2.	3.	1.	2.	3.	1.	2.	3.	1.	2.	3.	1.	2.	3.	1.	2.	3.
FPKV 7/20, 7/28	X	X	X	0,9	1,2	1,4	1,6	2,0	2,5	1,8	2,3	2,8	2,6	3,2	4,1	3,2	4,0	5,1
FPKV 9/20,11/20,9/28,11/28,11/34	0,9	1,2	1,5	1,8	2,3	2,9	2,8	3,5	4,4	3,7	4,7	5,8	4,9	6,2	7,7	5,5	7,0	8,7
FPKV-HC 11/20, FSKV 13/25	0,9	1,2	1,5	1,8	2,3	2,9	2,8	3,5	4,4	3,7	4,7	5,8	4,9	6,2	7,7	5,5	7,0	8,7
FPKV-HC 11/24	1,2	2,2	2,6	3,4	4,6	5,4	5,1	6,9	8,1	6,8	9,2	10,8	8,6	11,6	13,6	10,3	13,9	16,3
FPKV-HC 13/30, 13/34, FSKV-HC 19/25	1,3	2,3	2,7	3,5	4,7	5,5	5,2	7,0	8,2	6,9	9,3	10,9	8,7	11,7	13,7	10,4	14,0	16,4

GENERAL INFORMATION

PRICES

Prices mentioned in this price list are in Euro exclude VAT. Fidoks Bulgaria Ltd. reserves the right to make a changes in above mentioned prices without preliminary notice according to the major global changes in currency rate.

DELIVERY TERM

Delivery time is clearly stated in the order confirmation. Delivery time depends on quantity, modifications and variability of dimensions in the order. "Usual" delivery time means 10-20 working days.

TRANSPORT

Unless other conditions were agreed prices are without any transport taxes included. Fidoks Bulgaria Ltd. is not responsible for any damage occurred during the transport or caused by forwarder due to the careless handling.

TERMS OF WARRANTY

Every product FOKS comes with 12 month of full warranty. Heat exchangers FOKS OT are with prolonged 5 years warranty period. Warranty period starts in the moment of expedition from Fidoks Bulgaria Ltd. production facility. Complete text of warranty terms can be found at www.fidoks.bg.

FIDOKS

HEATING AND COOLING

FIDOKS BULGARIA LTD.

Central office and production base:

Industrialna 1 str.
4300 Karlovo
Bulgaria

Tel.: +359 884 989 667

Tel.: +359 877 977 590

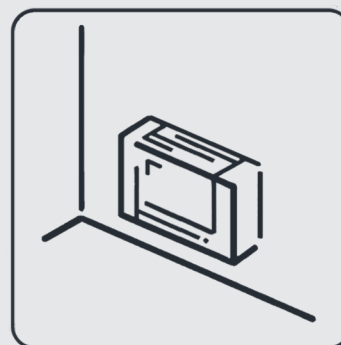
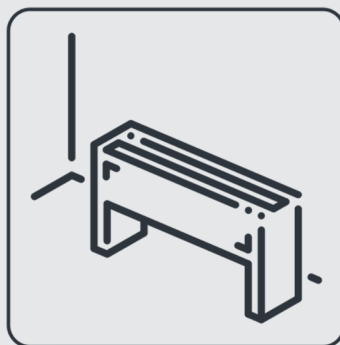
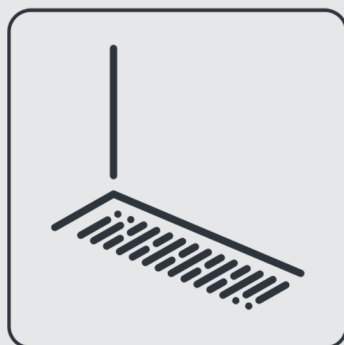
Tel.: +359 884 989 864

E-mail: info@fidoks.bg

www.fidoks.bg

FIDOKS

HEATING AND COOLING



MADE IN BULGARIA

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