



KORAFLEX Variant F2V

Trench heaters for 2-pipe systems
with forced convection for heating or **cooling**

KORAFLEX Variant F4V

Trench heaters for 4-pipe systems
with forced convection for heating and **cooling**



KORAFLEX Variant F2V

Specifications

KORAFLEX Variant F2V – 11/20

Depth	110 mm
Width	200 mm
Length	800 up to 3 000 mm (by 200 mm)

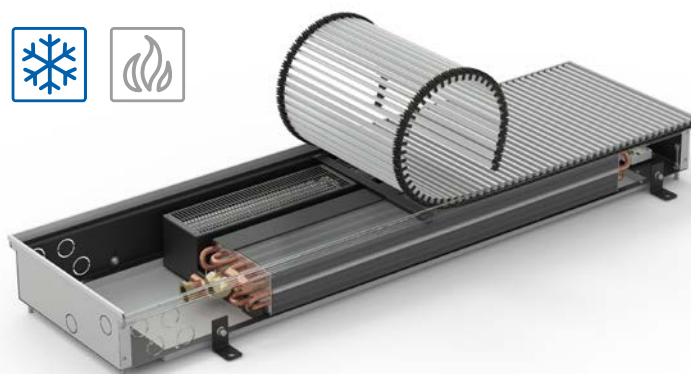
KORAFLEX Variant F2V – 13/34

Depth	130 mm
Width	340 mm
Length	1 200, 1 500, 2 000, 2 500, 3 000 mm
Heat output	from 67 to 14 609 W
Cooling output	from 203 to 4 506 W
Max. operating pressure	1.2 MPa
Max. operating temperature	90 °C
Connecting thread	inner G 1/2"
IP rating	IP 20

Standard contents

- **F2V 11/20** – AISI 304 stainless steel casing, non-lacquered, non-lacquered Al/Cu heat exchanger
- **F2V 13/34** – galvanized steel outer casing, RAL 9005 black lacquered, Lower AISI 304 stainless steel condensation drainage canal, non-lacquered
 - Exclusive version – RAL 9005 lacquered Al/Cu heat exchanger
 - Economic version – non-lacquered Al/Cu heat exchanger
- aluminium U-frame, silver elox
- metal cover plate
- set of low-energy EC 24 V DC fans
- 24 V DC terminal block and regulator (FCR BOX)
- levelling set screws and 4 anchors
- spacers for correct installation and concreting
- hardboard cover to protect trench heater from contamination
- durable packaging, installation instructions

The **KORAFLEX Variant F2V** is designed for heating or cooling rooms. It is capable of high heating and cooling performance. It is designed for counter-flow systems and is equipped with a stainless steel condensation drainage canal. F2V trench heaters can be controlled using a BMS (Building Management System), and are to be installed solely in dry environments.



Optional accessories

- choice of grilles
- cross grille – design solutions – necessary to order together with trench heater
- light/dark bronze and black elox or RAL colour chart lacquered aluminium U-frame
- silver, light/dark bronze and black elox or RAL colour chart lacquered aluminium F-frame
- stands for raised floors
- angled or straight regulating fittings
- angled or straight thermostatic valve
- axial thermostatic valve
- brass elbow 1/2" x 1/2" 90°
- stainless steel flexible hoses
- thermoelectric actuator TEP 24
- electronic room thermostat SIEMENS RDG 260T, RDG 260KN or HY607LIC
- manual room thermostat SIEMENS RAB 21-DC
- external room sensor QAA32
- 24 V DC power supply
- R-Box
- sound insulation sheet
- strengthened OSB cover for installation purposes

More information can be found in the KORAFLEX catalogue.

Suitable grilles

Linear grilles available only after technical alterations to the casing. More information can be found in the KORAFLEX catalogue.



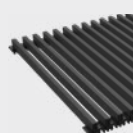
Roll-up alu/linear alu/silver



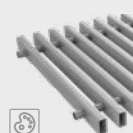
Roll-up alu/linear alu/dark bronze



Roll-up alu/linear alu/light bronze



Roll-up alu/linear alu/black elox



Roll-up/linear/steel



Roll-up/linear/stainless steel



Roll-up natural/lacquer beech



Roll-up natural/lacquer oak



Roll-up natural/lacquer mahogany (upon request)



Cross (upon request)

Descriptions of available grilles, including ordering codes, can be found in the KORAFLEX catalogue.

KORAFLEX Variant F2V

depth 110 mm/width 200 mm

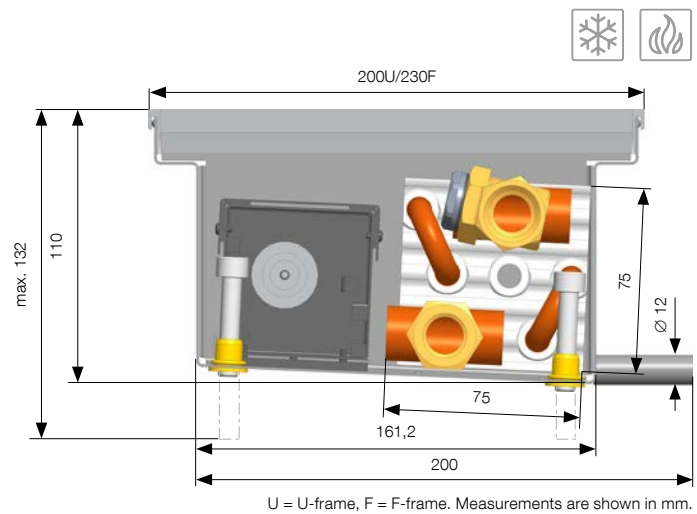
Heat output [W] where $t_1/t_2/t_i$ / EN 16430

Measurements are shown in mm including U-frame.

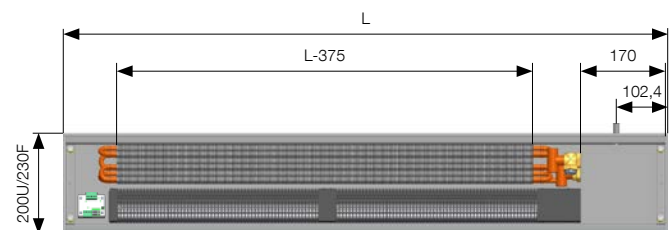
Length	Fan speed setting	Heat output [W]		Cooling output 50% humidity. [W]		El. consumption [W]	Acoustics	
		75/65/20 °C	55/45/20 °C	16/18/27 °C	7/12/27 °C		Sound pressure [dB(A)]	Sound power [dB(A)]
800	0	67	33	-	-	0	-	-
	1	803	477	99	203	1	19.1	27.1
	2	1 043	618	148	305	2	26.6	34.6
	3	1 145	677	168	345	2	28.9	36.9
1000	0	98	48	-	-	0	-	-
	1	1 181	701	145	298	1	19.8	27.8
	2	1 534	908	218	449	2	27.6	35.6
	3	1 684	996	246	507	2	30.0	38.0
1200	0	129	64	-	-	0	-	-
	1	1 558	926	191	393	1	20.1	28.1
	2	2 025	1 199	288	593	3	28.3	36.3
	3	2 223	1 315	325	669	3	31.0	39.0
1400	0	161	79	-	-	0	-	-
	1	1 936	1 150	238	489	1	20.8	28.8
	2	2 515	1 489	358	737	3	29.0	37.0
	3	2 762	1 634	404	831	3	31.7	39.7
1600	0	192	94	-	-	0	-	-
	1	2 314	1 374	284	584	2	21.2	29.2
	2	3 006	1 780	428	880	3	29.5	37.5
	3	3 301	1 952	483	993	5	32.4	40.4
1800	0	223	110	-	-	0	-	-
	1	2 692	1 599	330	679	2	22.0	30.0
	2	3 497	2 071	498	1 024	4	30.1	38.1
	3	3 840	2 271	562	1 156	5	32.9	40.9
2000	0	255	125	-	-	0	-	-
	1	3 069	1 823	377	775	3	21.9	29.9
	2	3 988	2 361	568	1 168	5	30.5	38.5
	3	4 379	2 590	641	1 318	6	33.5	41.5
2200	0	286	141	-	-	0	-	-
	1	3 447	2 047	423	870	3	22.2	30.2
	2	4 478	2 652	638	1 311	5	30.9	38.9
	3	4 918	2 909	720	1 480	6	34.0	42.0
2400	0	318	156	-	-	0	-	-
	1	3 825	2 272	469	965	3	22.4	30.4
	2	4 969	2 943	708	1 455	6	31.3	39.3
	3	5 457	3 227	798	1 642	7	34.5	42.5
2600	0	349	172	-	-	0	-	-
	1	4 203	2 496	516	1 061	3	22.7	30.7
	2	5 460	3 233	777	1 599	7	31.6	39.6
	3	5 996	3 546	877	1 804	9	34.9	42.9
2800	0	380	187	-	-	0	-	-
	1	4 581	2 721	562	1 156	3	22.7	30.7
	2	5 951	3 524	847	1 743	7	31.9	39.9
	3	6 535	3 865	956	1 967	9	35.3	43.3
3000	0	412	202	-	-	0	-	-
	1	4 958	2 945	608	1 251	4	23.1	31.1
	2	6 442	3 815	917	1 886	8	32.2	40.2
	3	7 074	4 184	1 035	2 129	10	35.6	43.6

The table shows TOTAL cooling outputs

* TOTAL cooling outputs = output including energy consumed for the production of condensate.



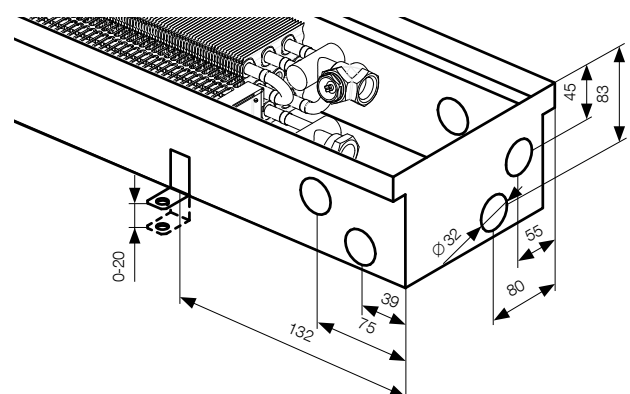
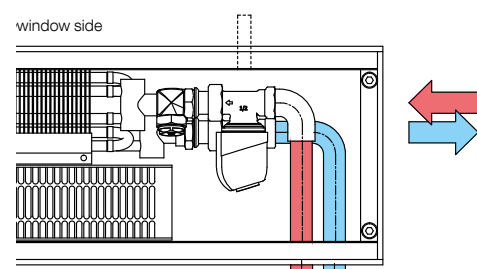
Where the F-frame is fitted, both the length and width increase by 30 mm. Measurements for U-frame and Cross frame are identical.



Connections and connection measurements



Condensation drainage canal is situated on the window side.



Measurements are shown in mm.

KORAFLEX Variant F2V

depth 130 mm/width 340 mm

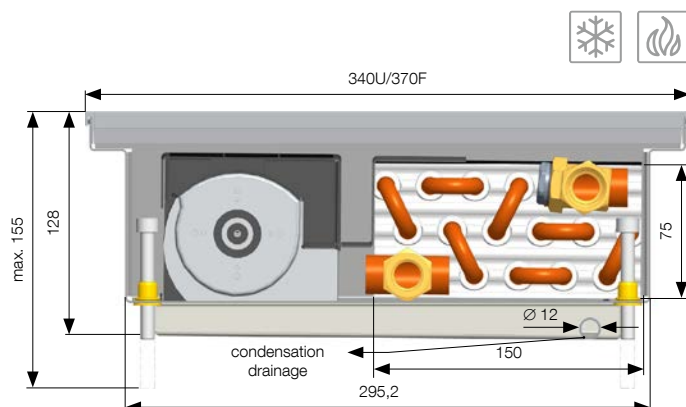
Heat output [W] where $t_1/t_2/t_3$ / EN 16430

Measurements are shown in mm including U-frame.

Length	Fan speed setting	Heat output [W]		Cooling output 50% humidity. [W]		El. consumption [W]	Acoustics	
		75/65/20 °C	55/45/20 °C	16/18/27 °C	7/12/27 °C		Sound pressure [dB(A)]	Sound power [dB(A)]
1200	0	187	92	-	-	0	-	-
	1	2 136	1 254	266	549	2	25.0	33.0
	2	3 145	1 913	443	915	4	33.4	41.4
	3	4 276	2 732	638	1 319	9	43.4	51.4
1500	0	263	129	-	-	0	-	-
	1	2 996	1 759	373	770	3	26.0	34.0
	2	4 412	2 683	621	1 284	5	34.8	42.8
	3	5 999	3 832	895	1 850	11	44.9	52.9
2000	0	388	191	-	-	0	-	-
	1	4 430	2 600	551	1 138	5	26.8	34.8
	2	6 523	3 966	919	1 898	8	36.0	44.0
	3	8 869	5 666	1 324	2 735	17	46.1	54.1
2500	0	514	252	-	-	0	-	-
	1	5 863	3 441	729	1 507	5	27.7	35.7
	2	8 634	5 250	1 216	2 512	10	37.4	45.4
	3	11 739	7 500	1 752	3 620	23	47.4	55.4
3000	0	640	314	-	-	0	-	-
	1	7 297	4 283	907	1 875	6	28.2	36.2
	2	10 745	6 533	1 513	3 127	12	38.1	46.1
	3	14 609	9 333	2 180	4 506	29	48.2	56.2

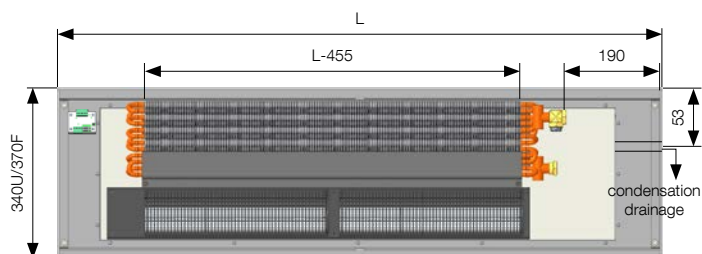
The table shows TOTAL cooling outputs

* TOTAL cooling outputs = output including energy consumed for the production of condensate.

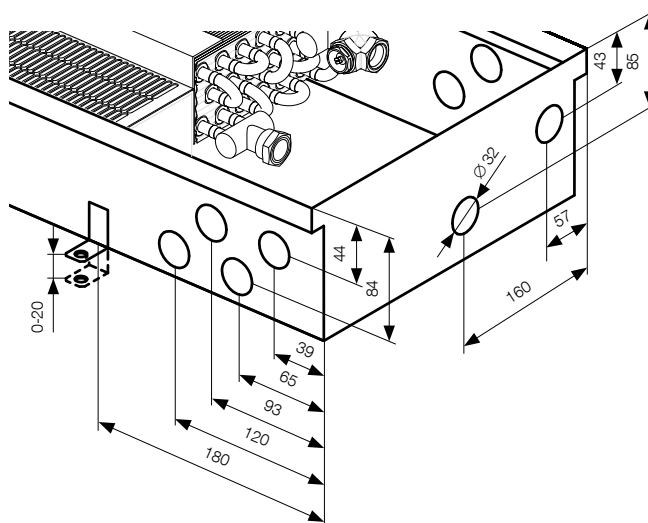
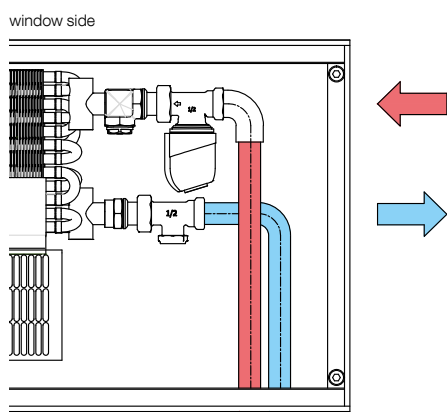


U = U-frame, F = F-frame. Measurements are shown in mm.

Where the F-frame is fitted, both the length and width increase by 30 mm. Measurements for U-frame and Cross frame are identical.



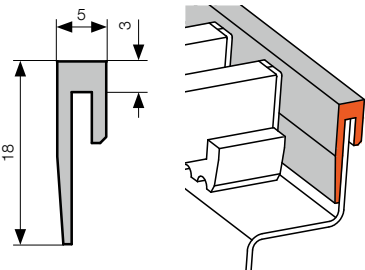
Connections and connection measurements



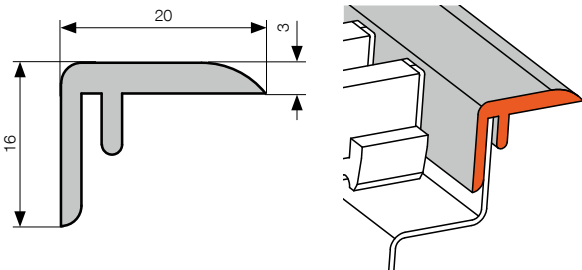
Measurements are shown in mm.

FRAMES

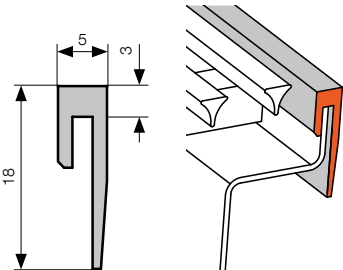
Standard U-frame



Optional F-frame



Optional Cross grille frame (on request)



Measurements are shown in mm.

ORDER CODE



In the order code, always use the measurements in cm including U-frame, as listed in the output table for the respective model.

KORAFLEX	2 pipe	Ventilator	Length (cm)	Depth (cm)	Width (cm)	Heat exchanger type	Heat exchanger colour	Frame	Frame colour	Connection side	Lowered face	For grille	Regulation
F	2	V / .. / ..	V	counter-flow	1 non-lacquered 5 RAL 9005 9 other RAL colour	U U-frame F F-frame C for Cross grille 0 without frame	1 silver elox 2 dark bronze elox 3 light bronze elox 5 black elox 9 other RAL colour 0 without frame	P right L left	0 without lowered face 1 lower face – input side 2 lower face – opposite input side 3 both sides lower	R roll-up L* linear	- RT 24 V DC regulation	

L* – for technical alterations to convector casing, can be found in the KORAFLEX catalogue.

Example order code: F2V-120/13/34-V1U1P0R-RT

KORAFLEX trench heater with fan (forced convection), F2V 2-pipe model for heating or cooling, 24 V DC model, length 120 cm, depth 13 cm, width 34 cm, counter-flow non-lacquered heat exchanger U-frame silver elox, right-hand connection, without lowered face, for roll-up grille, 24V DC regulation.



Cross grille – design solutions – Note, please, that Cross grilles must be ordered together with trench heaters, as the casing must undergo alteration. These trench heaters will be fitted with Cross frame suitable for Cross grille. More information can be found in the KORAFLEX catalogue.



Where a linear grille is selected, technical consultation is necessary, as the casing may need to undergo alteration. Note, please, that linear grilles must be ordered together with trench heaters. More information can be found in the KORAFLEX catalogue.



For a summary and description of grilles available, including order codes, can be found in the KORAFLEX catalogue.

KORAFLEX Variant F4V

Specifications

Depth	130 mm
Width	340 mm
Length	1 200, 1 500, 2 000, 2 500, 3 000 mm
Heat output	from 173 to 7 883 W
Cooling output	from 487 to 3 994 W
Max. operating pressure	1.2 MPa
Max. operating temperature	90 °C
Connecting thread	inner G 1/2"
IP rating	IP 20

ECONOMIC version – black lacquered galvanized steel casing, non-lacquered heat exchanger

EXCLUSIVE version – black lacquer galvanized steel casing, RAL 9005 black lacquered heat exchanger

Standard contents

- galvanized steel casing RAL9005 black lacquered steel casing, lower AISI 304 stainless steel condensation drainage canal, non-lacquered
- Economic – non-lacquered Al/Cu heat exchange with bleed valve
- Exclusive – RAL 9005 black lacquered Al/Cu heat exchanger with bleed valve
- aluminium U-frame, silver elox
- metal cover plate
- set of low-energy EC fans 24 V DC
- 24 V DC terminal block and regulator (FCR BOX)
- levelling set screws and 4 anchors
- spacers for correct installation and concreting
- hardboard cover to protect trench heater from contamination
- durable packaging, installation instructions

KORAFLEX Variant F4V is designed for heating and cooling rooms. It is capable of high heating and cooling performance. It is designed for 4-pipe systems and is equipped with a stainless steel condensation drainage canal. The **KORAFLEX Variant F4V** can be controlled using a BMS (Building Management System), and are to be installed solely in dry environments.



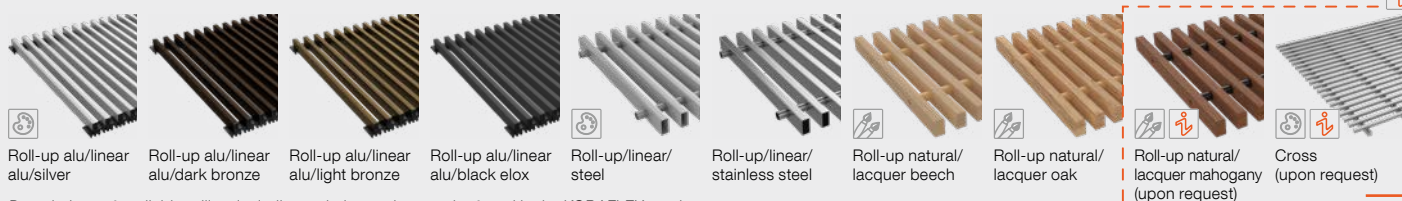
Optional accessories

- choice of grilles
- cross grille – design solutions – necessary to order together with trench heater
- light/dark bronze and black elox or RAL colour chart lacquered aluminium U-frame
- silver, light/dark bronze and black elox or RAL colour chart lacquered aluminium F-frame
- stands for raised floors
- angled or straight regulating fittings
- angled or straight thermostatic valve
- axial thermostatic valve
- brass elbow 1/2" x 1/2" 90°
- stainless steel flexible hoses
- thermoelectric actuator TEP 24
- electronic room thermostat SIEMENS RDG 260T, RDG 260KN or HY607LIC
- manual room thermostat SIEMENS RAB 21-DC
- external room sensor QAA32
- 24 V DC power supply
- R-Box
- sound insulation sheet
- strengthened OSB cover for installation purposes

More information can be found in the KORAFLEX catalogue.

Suitable grilles

Linear grilles available only after technical alterations to the casing. More information can be found in the KORAFLEX catalogue.



Descriptions of available grilles, including ordering codes, can be found in the KORAFLEX catalogue.

KORAFLEX Variant F4V

depth 130 mm/width 340 mm

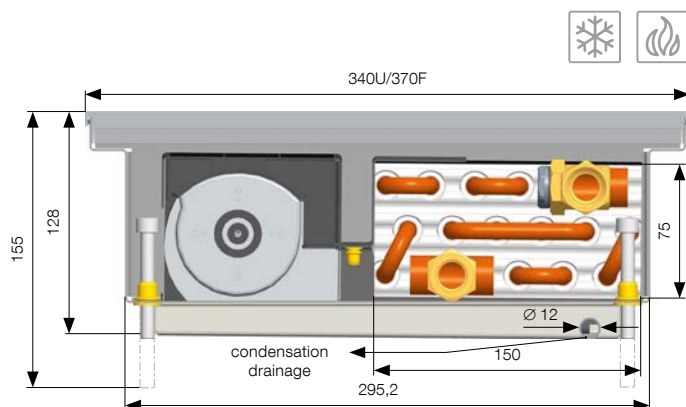
Heat output [W] where $t_1/t_2/t_3$ / EN 16430

Measurements are shown in mm including U-frame.

Length	Fan speed setting	Heat output [W]		Cooling output 50% humidity. [W]		El. consumption [W]	Acoustics	
		75/65/20 °C	55/45/20 °C	16/18/27 °C	7/12/27 °C		Sound pressure [dB(A)]	Sound power [dB(A)]
1200	0	173	85	-	-	0	-	-
	1	1 412	809	242	487	2	25.0	33.0
	2	1 810	1 065	386	778	4	33.4	41.4
	3	2 173	1 330	547	1 101	9	43.4	51.4
1500	0	249	122	-	-	0	-	-
	1	2 031	1 163	348	700	3	26.0	34.0
	2	2 602	1 532	556	1 119	5	34.8	42.8
	3	3 125	1 912	786	1 583	11	44.9	52.9
2000	0	375	184	-	-	0	-	-
	1	3 061	1 753	524	1 056	5	26.8	34.8
	2	3 923	2 310	838	1 688	8	36.0	44.0
	3	4 711	2 883	1 185	2 387	17	46.1	54.1
2500	0	502	246	-	-	0	-	-
	1	4 092	2 344	701	1 412	5	27.7	35.7
	2	5 244	3 087	1 120	2 256	10	37.4	45.4
	3	6 297	3 854	1 584	3 190	23	47.4	55.4
3000	0	628	308	-	-	0	-	-
	1	5 123	2 934	877	1 767	6	28.2	36.2
	2	6 564	3 865	1 402	2 824	12	38.1	46.1
	3	7 883	4 824	1 983	3 994	29	48.2	56.2

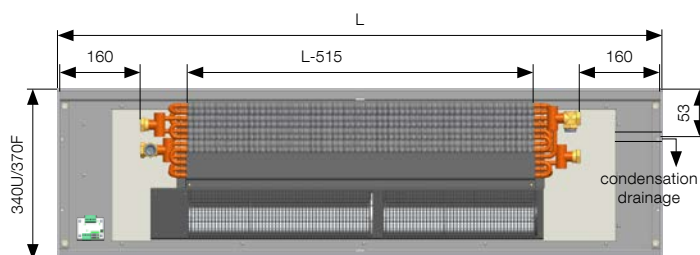
The table shows TOTAL cooling outputs

* TOTAL cooling outputs = output including energy consumed for the production of condensate.

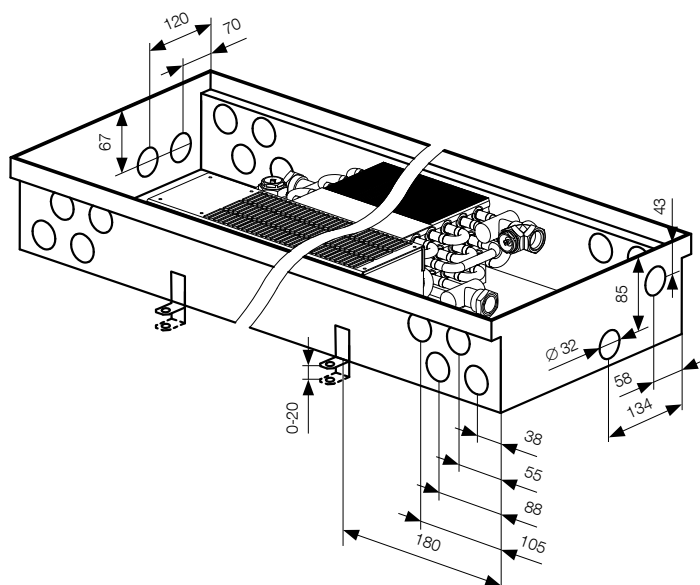
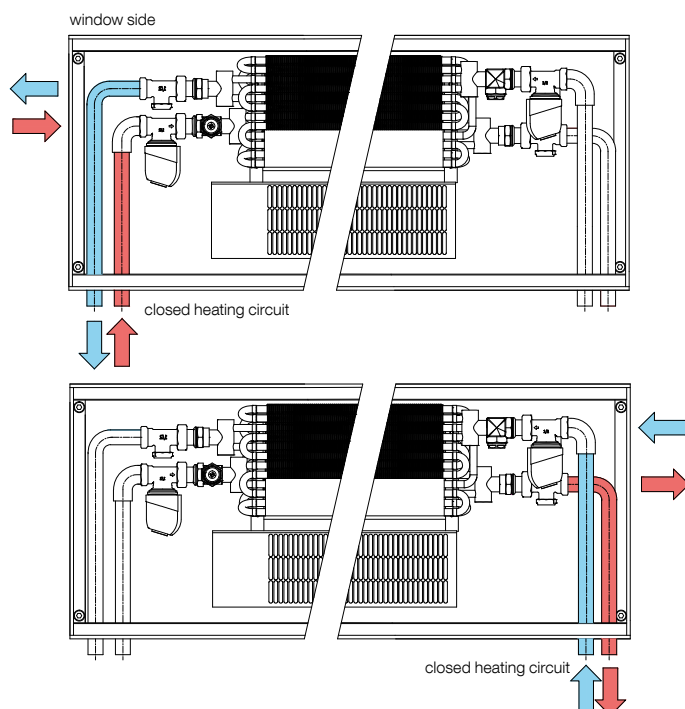


U = U-frame, F = F-frame. Measurements are shown in mm.

Where the F-frame is fitted, both the length and width increase by 30 mm. Measurements for U-frame and Cross frame are identical.



Connections and connection measurements

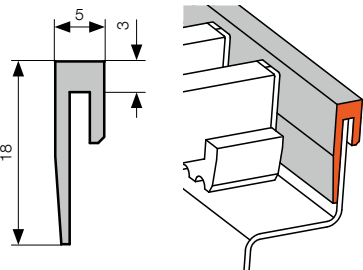


Measurements shown in mm.

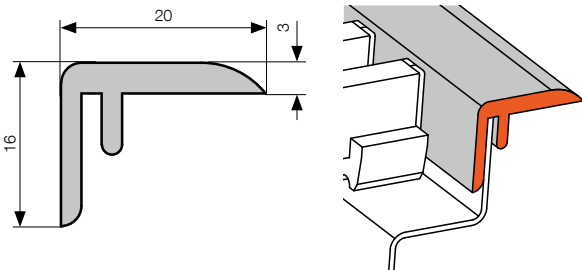
FRAMES



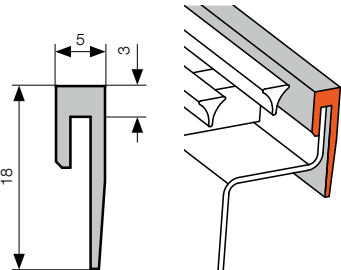
Standard U-frame



Optional F-frame



Optional Cross grille frame
(on request)



Measurements are shown in mm.

ORDER CODE



In the order code, always use the measurements in cm including U-frame, as listed in the output table for the respective model.

KORAFLEX	4-pipe	Ventilator	Length (cm)	Depth (cm)	Width (cm)	Heat exchanger type	Heat exchanger colour	Frame	Frame colour	Connection side	Lowered face	For grille	Regulation
F	4	V / .. / ..	V	counter-flow	1 non-lacquered 5 RAL 9005 9 other RAL colour	U U-frame F F-frame C for Cross grille 0 without frame	1 silver elox 2 dark bronze elox 3 light bronze elox 5 black elox 9 other RAL colour 0 without frame	P right L left	0 without lowered face 1 lower face – input side 2 lower face – opposite input side 3 both sides lower	R roll-up L* linear	- RT 24 V DC regulation	

Example order code: **F4V-120/13/34-V1U1P0R-RT**

L* – technical alterations to convector casing, can be found in the KORAFLEX catalogue.

KORAFLEX trench heater with fan (forced convection), 4-pipe model for heating and cooling, length 120 cm, depth 13 cm, width 34 cm, counter-flow non-lacquered heat exchanger, U-frame silver elox, right-hand connection, without lowered face, roll-up grille, 24 V DC regulation.



Cross grille – design solutions – Note, please, that Cross grilles must be ordered together with trench heaters, as the casing must undergo alteration. These trench heaters will be fitted with Cross frame suitable for Cross grille. More information can be found in the KORAFLEX catalogue.



Where a linear grille is selected, technical consultation is necessary, as the casing may need to undergo alteration. Note, please, that linear grilles must be ordered together with trench heaters. More information can be found in the KORAFLEX catalogue.



For a summary and description of grilles available, including order codes, can be found in the KORAFLEX catalogue.