

P TRENCH HEATER WITH NATURAL CONVECTION



The P series convectors are a clear choice for spaces where minimal intervention in the interior is desired, such as rooms with glass walls, conservatories or office spaces.

The free convection guarantees quiet operation and short reaction times. The minimum water content in the heat exchanger significantly reduces the losses of the heating system.

The convector comes completely assembled. The parameters of each component are checked during production to ensure the highest quality of the MINIB, a.s. products.

CHARACTERISTICS

- the body of the convector is made from a high quality stainless steel
- convector without a fan for dry environment
- high natural convection efficiency
- short response time

DIMENSIONS

width - with standard frame	243 / 303 mm
height	80 / 125 mm
length	900 - 3000 mm
connection*	G1/2"

* internal thread on the heat-exchanger, without water connection accessories

ORDER CODE

KPSA P* 243 09* 080 21A					
Category	Orientation	Width	Length	Height	Type

P 243 x 80	KPSA P* 243 09* 080 21A
P 243 x 125	KPSA P* 243 09* 125 21A
P 303 x 80	KPSA P* 303 09* 080 21A
P 303 x 120	KPSA P* 303 09* 120 21A
P 303 x 125	KPSA P* 303 09* 125 41A

* Orientation

L = left connection, P = right connection

Length:

09 = 900 mm, 10 = 1000 mm, 12 = 1250 mm, 15 = 1500 mm, 17 = 1750 mm, 20 = 2000 mm, 22 = 2250 mm, 25 = 2500 mm, 27 = 2750 mm, 30 = 3000 mm

The convector comes completely assembled and ready for immediate installation. Thanks to the output inspection in the production plant, we can guarantee the highest quality and functionality of MINIB products.

ORIENTATION AND CONNECTION

When ordering P series convectors, it is necessary to specify the orientation of the convector (left/right) and the water connection orientation (straight/corneous).

Convector as the main source of heating

If the convector works as the main heat source we recommend to install the convector with the exchanger to the room side.

Convector as an additional source of heating

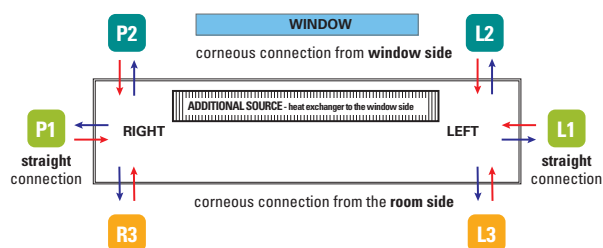
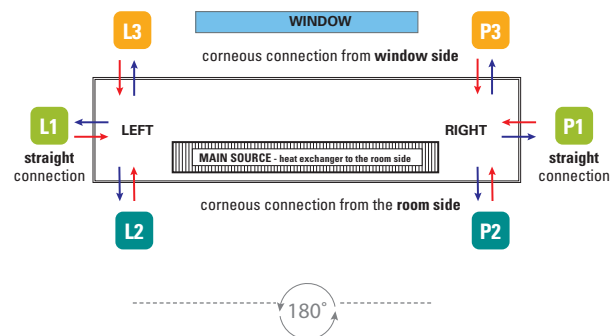
If the convector is used as an additional heat source, which prevents the condensation of the window, we recommend to install the convector with the heat exchanger towards the window.

CONNECTION OPENINGS

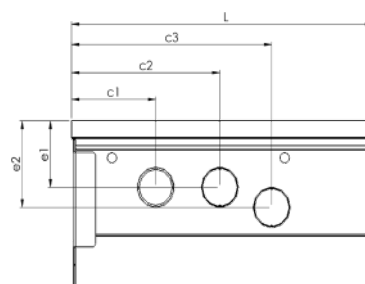
The convector is supplied with pre-cut holes for all connection directions and all variants of connection accessories. Simply push-out the holes according to the connection direction you have chosen.

The positions of the connection openings for the individual dimensions of the convector are shown in the drawings. The openings are placed symmetrically according to the longitudinal and transverse axes of the convector.

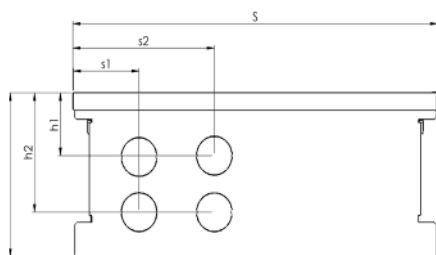
	S	s1	s2	H	h1	h2	a1	a2	b1	b2	c1	c2	c3	e1	e2
P 243 x 80	243	51	120	80	51	—	37	75	50	—	37	75	125	50	—
P 243 x 125	243	51	120	125	62	—	37	75	53	—	37	75	125	53	—
P 303 x 80	303	51	114	80	51	—	37	75	50	—	37	75	125	50	—
P 303 x 120	303	51	114	120	62	—	37	75	53	—	37	75	125	53	—
P 303 x 125	303	51	114	125	45	86	37	75	45	86	37	75	125	50	69



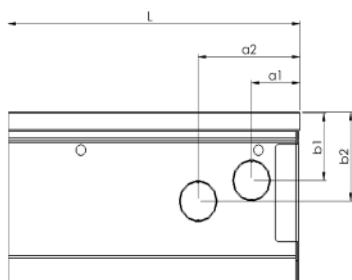
CORNEOUS CONNECTION P3



STRAIGHT CONNECTION P1



CORNEOUS CONNECTION P2



CONVECTOR JOINTS

P series convectors are manufactured up to 3000 mm in lengths as standard. Larger lengths can be achieved by joining multiple convectors behind each other. Optically, the joint appears to be one long convector. In this way, any lengths can be achieved, including the connection of angle, corner and to the arc.

POSSIBLE ANGLES AND ARCS OF TRENCH HEATERS

ARC TYPE OF CONNECTION



ANGLE TYPE OF CONNECTION



HEATING POWER

P 243 x 80

length L [mm]	heating power Q [W]		
	input water temperature [°C]	output water temperature [°C]	air temperature tA = 20°C
900	85	75	244
	75	65	190
	65	55	139
	45	40	63
1000	85	75	284
	75	65	221
	65	55	163
	45	40	73
1250	85	75	386
	75	65	300
	65	55	221
	45	40	100
1500	85	75	488
	75	65	379
	65	55	279
	45	40	126
1750	85	75	589
	75	65	458
	65	55	337
	45	40	152
2000	85	75	691
	75	65	537
	65	55	395
	45	40	178
2250	85	75	792
	75	65	616
	65	55	453
	45	40	205
2500	85	75	894
	75	65	695
	65	55	511
	45	40	231
2750	85	75	996
	75	65	774
	65	55	569
	45	40	257
3000	85	75	1097
	75	65	853
	65	55	627
	45	40	283

P 243 x 125

length L [mm]	heating power Q [W]		
	input water temperature [°C]	output water temperature [°C]	air temperature tA = 20°C
900	85	75	330
	75	65	255
	65	55	185
	45	40	82
1000	85	75	385
	75	65	297
	65	55	216
	45	40	95
1250	85	75	523
	75	65	403
	65	55	293
	45	40	129
1500	85	75	660
	75	65	509
	65	55	370
	45	40	163
1750	85	75	798
	75	65	615
	65	55	448
	45	40	197
2000	85	75	935
	75	65	721
	65	55	525
	45	40	231
2250	85	75	1073
	75	65	827
	65	55	602
	45	40	265
2500	85	75	1210
	75	65	933
	65	55	679
	45	40	299
2750	85	75	1348
	75	65	1039
	65	55	756
	45	40	333
3000	85	75	1485
	75	65	1145
	65	55	833
	45	40	367

P 303 x 80

length L [mm]	heating power Q [W]		
	input water temperature [°C]	output water temperature [°C]	air temperature tA = 20°C
900	85	75	252
	75	65	195
	65	55	142
	45	40	62
1000	85	75	294
	75	65	227
	65	55	165
	45	40	73
1250	85	75	399
	75	65	308
	65	55	224
	45	40	99
1500	85	75	504
	75	65	389
	65	55	283
	45	40	125
1750	85	75	609
	75	65	470
	65	55	342
	45	40	151
2000	85	75	714
	75	65	551
	65	55	401
	45	40	177
2250	85	75	819
	75	65	632
	65	55	460
	45	40	203
2500	85	75	924
	75	65	713
	65	55	519
	45	40	229
2750	85	75	1030
	75	65	794
	65	55	578
	45	40	255
3000	85	75	1135
	75	65	875
	65	55	637
	45	40	281

P 303 x 120

length L [mm]	heating power Q [W]		
	input water temperature [°C]	output water temperature [°C]	air temperature tA = 20°C
900	85	75	380
	75	65	296
	65	55	218
	45	40	99
1000	85	75	444
	75	65	346
	65	55	254
	45	40	116
1250	85	75	602
	75	65	469
	65	55	345
	45	40	157
1500	85	75	761
	75	65	592
	65	55	436
	45	40	198
1750	85	75	919
	75	65	716
	65	55	527
	45	40	239
2000	85	75	1078
	75	65	839
	65	55	618
	45	40	281
2250	85	75	1236
	75	65	963
	65	55	709
	45	40	322
2500	85	75	1395
	75	65	1086
	65	55	800
	45	40	363
2750	85	75	1553
	75	65	1209
	65	55	890
	45	40	404
3000	85	75	1712
	75	65	1333
	65	55	981
	45	40	446

P 303 x 125

length L [mm]	heating power Q [W]		
	input water temperature [°C]	output water temperature [°C]	air temperature tA = 20°C
900	85	75	434
	75	65	336
	65	55	245
	45	40	109
1000	85	75	507
	75	65	392
	65	55	286
	45	40	127
1250	85	75	688
	75	65	532
	65	55	388
	45	40	173
1500	85	75	869
	75	65	672
	65	55	491
	45	40	218
1750	85	75	1050
	75	65	812
	65	55	593
	45	40	263
2000	85	75	1230
	75	65	952
	65	55	695
	45	40	309
2250	85	75	1411
	75	65	1092
	65	55	797
	45	40	354
2500	85	75	1592
	75	65	1232
	65	55	899
	45	40	400
2750	85	75	1773
	75	65	1372
	65	55	1001
	45	40	445
3000	85	75	1954
	75	65	1512
	65	55	1104
	45	40	491

The technical parameters are set according to the relevant standards. In fact, they may vary depending on the location of the convector, the cover grille, the connection type.

As a part of the product development, MINIB, a.s. reserves the right of construction and price adjustments.

ACCESSORIES

The standard delivery includes convector, standard frame and anchoring accessories. All other accessories (convector grille, connection accessories, control elements, etc.) must be ordered and specified separately.

COMPATIBLE GRILLES

The grille must be ordered with the convector due to the modification of the convector construction. Standard grilles are sparse, transverse. If you are interested in LONGITUDINAL GRILLES, please contact your sales representative.

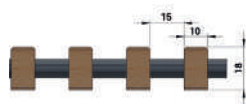
GRILLES - materials



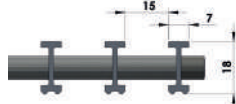
(shades of the grilles are only illustrative)

GRILLES - PROFILE

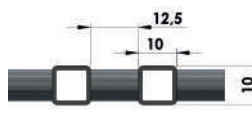
• wood-rolling-sparse



• AL-rolling-sparse



• st. steel-rolling-sparse¹⁾



1) the grille must be ordered with the convector due to the modification of the convector construction

COMPATIBLE FRAMES

The frame is assembled from an aluminum profile with 45 degree joints. It comes in the same basic colors as the aluminum grilles. For other terminations of the convector trough, please contact your sales representative.

• Standard frame (AL-aluminium) • Covering frame (AL-aluminium)



Convectors are designed to the CONCRETE FLOOR, in case of HOLLOW FLOOR installation, please consult with your sales representative.



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WATER CONNECTION ACCESSORIES

- connection **WITHOUT HEAD**
- connection **WITH ELECTROTHERMAL HEAD**
- connection **WITH CUSTOMER HEAD** (after consultation)

The type of connection accessories varies according to the size and direction of the connection. Connection accessories are packed separately and are not included in the standard convector delivery.

The table below shows compatible connection accessory sets. If you require non-standard or custom connection accessories, please contact your sales representative.

Connection set typically include:

- flex hoses
- ball valve or screw fitting
- thermostatic valve (only sets ready for head)

	WITHOUT head			READY for head		
	L1/R1	L2/R2	L3/R3	L1/R1	L2/R2	L3/R3
P 243 x 80	PA	PE	PE	PI	PM	PN
P 243 x 125	PA	PE	PE	PI	PM	PN
P 303 x 80	PA	PE	PE	PI	PM	PN
P 303 x 120	PA	PE	PE	PI	PM	PN
P 303 x 125	PA	PE	PE	PI	PM	PN

REGULATION OPTIONS

The control of a free convection convector is performed by controlling the flow of the heating medium through the heat exchanger by a thermoelectric head on the inlet valve.

On request, the convector can be prepared for the installation of a thermostatic head (although not recommended).

thermoelectric valve head



A floating contact thermostat, such as CH110 or UT15, is suitable for controlling thermoelectric heads.



CH110 thermostat



UT15 thermostat