

invisible and natural

A NEW FLEXIBLE SERIES OF FLOOR CONVECTORS WITHOUT FAN. THE NEW STRUCTURAL DESIGN ENABLES JOINING THE CONVECTORS INTO ANY LONG JOINT WITH WATER CONNECTION FROM ANY SIDE.

## ECONOMY LINE



## ABOUT THE COMPANY

MINIB, a.s. ranks among the leading manufacturers of convectors in Europe. At present, it also exports its products to Asia, Australia and America.

Since 1999, MINIB has been systematically innovating production technology and its products, and it invests quite considerable resources in its own development and design, with the goal of offering its customers advanced technical and esthetic solutions.

MINIB is an economically stable company which has been consistently generating profit. This allows us to invest funds in research and development, technology, and above all, human resources in order to ensure long-term successful development of our company.

The manufacturing facility is located in Býkev near Mělník, and has excellent road connections. It is furnished with state-of-the-art manufacturing technology. Most manufacturing operations are carried out on CNC machines, which allows us to meet even the most sophisticated requirements of our demanding customers.

Based on individual requirements of our customers, we are able to make also various non-typical products to meet their specific needs.

MINIB is a holder of an ISO 9001:2016 certificate and numerous utility models and patents.

Its complete range of products is tested in an independent accredited test chamber of HEATEST, s.r.o. in accordance with European Standard EN 442-2, which allows the company to guarantee the declared heating and cooling outputs.

MINIB includes a research and development department which has developed simulation physical 3D software. Our products start with a design and sophisticated calculation in this program which shows only minimum deviation from reality. The next stage of development is a visual test of air flow in our test room simulating the different environmental conditions in our customers' houses.

To ensure reliability, safety and functionality, all of our products are certified and tested in the Mechanical Engineering Testing Institute (Strojirenský zkušební ústav, s.p.) before being introduced to the market.

Our products are tested in an independent accredited testing laboratory where tests of heating units and small HVAC equipment are performed according to European standards. We perform the tests here not only to certify our products for the European Union market but also to optimize our products in the development stage.

Minib's product portfolio includes more than 100 types of convectors. Customers can therefore choose the suitable convector for any interior.

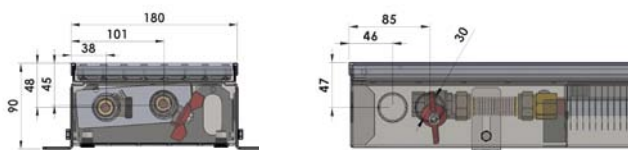
## ECONOMY LINE

The new series of convectors is made of galvanized steel sheet with internal black coating and our very efficient heat exchanger. The convector has variable options of connection from the front, left and right sides and can be simply joined into any long joint. Delivery includes a galvanized steel tub, efficient Minib's heat ex-

changer with G $\frac{1}{2}$  connection, anchoring accessories with adjusting-screws and stainless steel flexible hoses, Screw Fitting and ball valve. All convectors are equipped with a standard frame in the color requested by the customer.

## CROSS-SECTIONS OF CONVECTORS

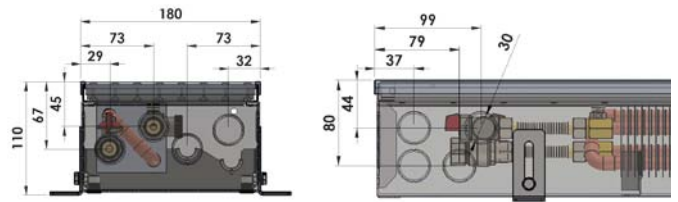
PB90E



cross section

longitudinal section

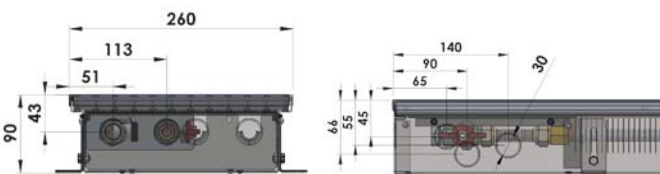
PB110E



cross section

longitudinal section

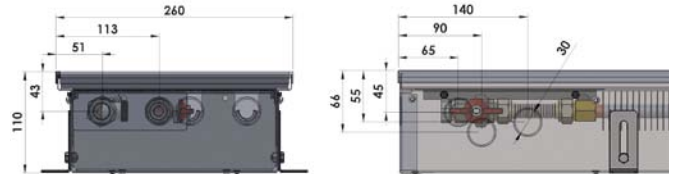
PM90E



cross section

longitudinal section

PM110E



cross section

longitudinal section

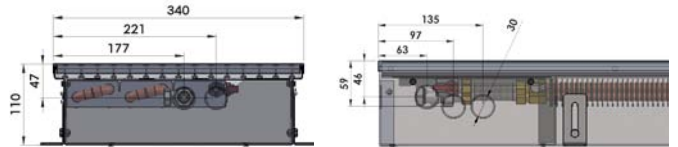
PW90E



cross section

longitudinal section

PW110E



cross section

longitudinal section



## HEAT OUTPUT Q [W]

		PB E			PM E			PW E			
		air temperature $t_A$			air temperature $t_A$			air temperature $t_A$			
		15	20	22	15	20	22	15	20	22	
mean water temperature $t_w$	height of convector	length L (mm)		900	length L (mm)		900	length L (mm)		900	
		70	90	157	138	130	234	206	195	313	276
	70	110	196	171	162	269	237	224	373	328	310
			15	20	22	15	20	22	15	20	22
			length L (mm)		1000	length L (mm)		1000	length L (mm)		1000
	70	90	184	161	152	274	240	227	365	322	304
	70	110	228	199	188	315	276	261	435	383	362
			15	20	22	15	20	22	15	20	22
			length L (mm)		1250	length L (mm)		1250	length L (mm)		1250
	70	90	249	218	206	372	326	307	496	436	412
	70	110	309	271	255	428	374	353	590	519	491
			15	20	22	15	20	22	15	20	22
			length L (mm)		1500	length L (mm)		1500	length L (mm)		1500
	70	90	315	276	261	469	411	388	626	551	522
	70	110	392	342	322	539	473	447	745	656	621
			15	20	22	15	20	22	15	20	22
			length L (mm)		1750	length L (mm)		1750	length L (mm)		1750
	70	90	381	333	315	567	496	470	757	665	630
	70	110	473	413	389	651	571	540	901	792	750
			15	20	22	15	20	22	15	20	22
			length L (mm)		2000	length L (mm)		2000	length L (mm)		2000
	70	90	446	391	369	664	582	550	887	780	738
	70	110	554	484	457	764	669	633	1056	929	879
			15	20	22	15	20	22	15	20	22
		length L (mm)		2500	length L (mm)		2500	length L (mm)		2500	
70	90	576	505	477	860	754	712	1147	1010	956	
70	110	717	626	591	989	867	818	1366	1202	1138	
		15	20	22	15	20	22	15	20	22	
		length L (mm)		3000	length L (mm)		3000	length L (mm)		3000	
70	90	708	620	586	1055	925	873	1409	1239	1173	
70	110	880	769	725	1213	1064	1004	1677	1475	1397	

**NOTE:** Output is measured using an installed longitudinal grille; in the event that a transverse grille is installed, the value is to be multiplied by a factor of 0.91.

## CHARACTERISTICS

- high output in proportion to the width
- short response time
- right-left design

## DIMENSIONS

length 900 to 3000 mm  
 connection G½"

# Accessories

<b>Standard Straight Connection</b>	Sealing Klingersil C4400 1/2" 	Straight Screw Fitting 1/2" 	Straight Ball Valve 1/2" 
<b>Standard Angular Connection</b>	Sealing Klingersil C4400 1/2" 	Angular Screw Fitting 1/2" 	Angular Ball Valve 1/2" 
<b>Straight Connection with Thermostatic Valve</b>	Sealing Klingersil C4400 1/2" 	Straight Screw Fitting 1/2" 	Straight Thermostatic Valve 1/2" 
<b>Angular Connection with Thermostatic Valve</b>	Sealing Klingersil C4400 1/2" 	Angular Screw Fitting 1/2" 	Angular Thermostatic Valve 1/2" 

## ADDITIONAL OPTIONAL ACCESSORIES:

- thermostatic head
- electrothermic head
- thermostatic head with capillary

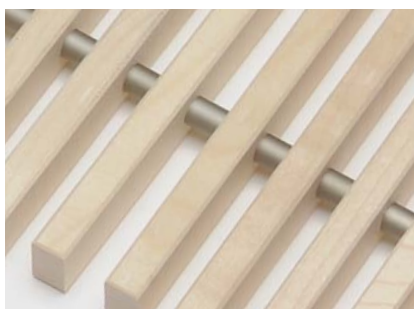
# Grilles

**MATERIALS OF WALKABLE GRILLE** (colors in the photographs are indicative only)

## OAK/WOOD



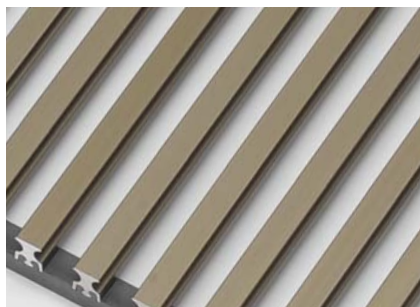
## MAPLE/WOOD



## BEECH/WOOD



## DARK BRONZE/ALUMINUM (AL)



## LIGHT BRONZE/ALUMINUM (AL)



## SILVER/ALUMINUM (AL)



## HEAD OFFICE

MINIB, a.s.  
 Střešovická 465/49, 162 00 Praha 6  
 Czech Republic

Phone: +420 220 180 809  
 Cell Phone: +420 734 614 540  
 Cell Phone: +420 734 700 736  
 E-mail: [export@minib.cz](mailto:export@minib.cz)  
[www.minib.com](http://www.minib.com)

## PRODUCTION

Manufacturing plant of MINIB, a.s.  
 Býkev u Mělníka 84, 276 01 Býkev  
 Czech Republic