

Data sheet

# Micro Plate Heat Exchanger (MPHE): XB37

Description



Micro Plate Heat Exchangers - a revolutionary technology from Danfoss.

Characterized by their unique plate pattern, MPHEs enable heat to be transferred more efficient than any previous model of heat exchangers.

Benefits:

- Energy and cost savings
- Better heat transfer
- Lower pressure loss
- More flexible design
- Longer life time

more on:

[MPHE.danfoss.com](http://MPHE.danfoss.com)

XB37 is copper brazed heat exchanger, designed and configured for District Heating, District Cooling and other Heating applications.

Approval:

Pressure Equipment Directive (PED).

Ordering

1-pass heat exchanger **XB37**

Picture	No. of plates, n	Connection	20 mm connection length			50 mm connection length		
			XB37L-1	XB37M-1	XB37H-1	XB37L-1	XB37M-1	XB37H-1
			Code No.			Code No.		
	10	Thread G1	004H7270	004H7285	004H7300	004B1675	004B1690	004B1705
	16		004H7271	004H7286	004H7301	004B1676	004B1691	004B1706
	20		004H7272	004H7287	004H7302	004B1677	004B1692	004B1707
	26		004H7273	004H7288	004H7303	004B1678	004B1693	004B1708
	30		004H7274	004H7289	004H7304	004B1679	004B1694	004B1709
	36		004H7275	004H7290	004H7305	004B1680	004B1695	004B1710
	40		004H7276	004H7291	004H7306	004B1681	004B1696	004B1711
	50		004H7277	004H7292	004H7307	004B1682	004B1697	004B1712
	60		004H7278	004H7293	004H7308	004B1683	004B1698	004B1714
	70		004H7279	004H7294	004H7309	004B1684	004B1699	004B1715
	80		004H7280	004H7295	004H7310	004B1685	004B1700	004B1716
	90		004H7281	004H7296	004H7311	004B1686	004B1701	004B1717
	100		004H7282	004H7297	004H7312	004B1687	004B1702	004B1718
	110		004H7283	004H7298	004H7313	004B1688	004B1703	004B1719
120	004H7284	004H7299	004H7314	004B1689	004B1704	004B1720		

Accessories - Tailpieces

Picture	Description	Connection	Code No.
	Solder tailpieces	G 1/15 mm	004B2904
		G 1/18 mm	004B2905
		G 1/22 mm	004B2906
	Weld-on tailpieces	G 1/DN 15	004B2901
		G 1/DN 20	004B2909
		G 1/DN 25	004B2903
	Threaded tailpieces	G 1/G 3/4	004B2913

Accessories - Insulations

Picture	Type coverage (plate nos)			Code No.
	L	M	H	
	10-20	10-26	10-30	004B1721
	26-36	30-40	36-50	004B1722
	40-50	50-70	60-90	004B1723
	60-80	80-100	100-120	004B1725
	90-100	110-120	/	004B1726
	110-120	/	/	004B1727

Accessories - Bracket set

Picture	Code No.
	004B1728

Data sheet

Micro Plate Heat Exchanger (MPHE) XB37

Technical data

Heat exchanger XB37		XB37L	XB37M	XB37H
Max working pressure	bar	25		
Min. / Max. temperature	°C	-10/180		
Flow medium		DH: Circulation water / glycolic water up to 50% transfer media. DC: ethylene-, propylene-glycolic water, ethanol-water solutions and other suitable heat transfer media. (Please contact your Danfoss representative).		
Volume / Channel	Ltr	0,102	0,070	0,057
Connection type		Cylindrical external thread acc. to DIN ISO 228/1		
Connection size		G 1		
Weight	kg	short / long connection: 2,24 + 0,16 × n / 2,6 + 0,16 × n		
<b>Materials</b>				
Plate material		Stainless steel, EN 1.4404 (AISI 316L)		
Brazing		Copper (Cu); Copper-Nickel (CuNi)*; Stainless steel (SS)*		

\* Available on enquiry

Insulation

Type	PU (Polyurethane)		
Wall thickness	mm	20	
Heat conductivity λ	W/mK	0,035	
Max. temperature	Permanent	130	
	Short term peak	150	

Note:

For more details about insulation please contact your Danfoss sales representative.

Dimensions

E (mm)	
L	10 + 2,21 × n
M	10 + 1,68 × n
H	10 + 1,46 × n

**Tailpieces**

Picture	Description	Connection	a	b	SW <sup>1)</sup>	Code No.
			mm			
	Solder tailpieces	G 1/15 mm	20	35	37	004B2904
		G 1/18 mm	20	35	37	004B2905
		G 1/22 mm	25,6	35	37	004B2906
	Weld-on tailpieces	G 1/DN 15	21,3	40	37	004B2901
		G 1/DN 20	26	49,5	41	004B2909
		G 1/DN 25	33,5	40	37	004B2903
	Threaded tailpieces	G 1/G 3/4	3/4"	35	37	004B2913

<sup>1)</sup> Union nut, width across flats

**Insulation**

	A	B	E	Code No.
	mm			
572	168	117		004B1721
	170	155		004B1722
	180	200		004B1723
		250		004B1725
	190	305		004B1726
	200	350		004B1727

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without consequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.