

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

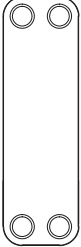
more on:  
[MPHE.danfoss.com](http://MPHE.danfoss.com)

XB37 is 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 Cu**

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		

Ordering (continued)

1-pass heat exchanger **XB37 Cu** + <sup>1)</sup>

Picture	No. of plates, n	Connection	20 mm connection length		
			XB37L-1	XB37M-1	XB37H-1
			Code No.		
	10	Thread G1	004H4759	004H4744	004H4729
	16		004H4760	004H4745	004H4730
	20		004H4761	004H4746	004H4731
	26		004H4762	004H4747	004H4732
	30		004H4763	004H4748	004H4733
	36		004H4764	004H4749	004H4734
	40		004H4765	004H4750	004H4735
	50		004H4766	004H4751	004H4736
	60		004H4767	004H4752	004H4737
	70		004H4768	004H4753	004H4738
	80		004H4769	004H4754	004H4739
	90		004H4770	004H4755	004H4740
	100		004H4771	004H4756	004H4741
	110		004H4772	004H4757	004H4742
120	004H4773	004H4758	004H4743		

<sup>1)</sup> Available on request

1-pass heat exchanger **XB37 StS** <sup>1)</sup>

Picture	No. of plates, n	Connection	20 mm connection length		
			XB37L-1	XB37M-1	XB37H-1
			Code No.		
	10	Thread G1	004H4667	004H4652	004H4637
	16		004H4668	004H4653	004H4638
	20		004H4669	004H4654	004H4639
	26		004H4670	004H4655	004H4640
	30		004H4671	004H4656	004H4641
	36		004H4672	004H4657	004H4642
	40		004H4673	004H4658	004H4643
	50		004H4674	004H4659	004H4644
	60		004H4675	004H4660	004H4645
	70		004H4676	004H4661	004H4646
	80		004H4677	004H4662	004H4647
	90		004H4678	004H4663	004H4648
	100		004H4679	004H4664	004H4649
	110		004H4680	004H4665	004H4650
120	004H4681	004H4666	004H4651		

<sup>1)</sup> Available on request

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 25	004B2903
	Threaded tailpieces	G 1/G 3/4	004B2913

Accessories - Bracket set

Picture	Code No.
	004B1728

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

Technical data

Heat exchanger <b>XB37</b>		<b>XB37L</b>	<b>XB37M</b>	<b>XB37H</b>
Max. working pressure <b>Cu</b>	bar	25		
Max. working pressure <b>Cu+</b>		25		
Max. working pressure <b>StS</b>		16		
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)		
Brazeing		Copper (Cu); Copper-Nickel (Cu+) <sup>1)</sup> ; Stainless steel (StS) <sup>1)</sup>		

<sup>1)</sup> Available on request

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 ¾	¾"	35	37	004B2913

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

**Insulation**

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



**Danfoss A/S**

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