

Data sheet

Micro Plate Heat Exchanger (MPHE): XB61

Description



Micro Plate Heat Exchangers - a revolutionary technology from Danfoss. Characterized by their unique plate pattern, MPHEs enable heat to be transferred more effectively 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:
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XB61 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 brazed heat exchangers type **XB61-1**

Picture	No. of plates, n	XB61L-1SB	XB61M-1SB	XB61H-1SB
		Thread (G 2)		
		Code No.		
	30	004B1906	004B1913	004B1925
	36	004B1907	004B1914	004B1926
	40	004B1908	004B1915	004B1927
	50	004B1909	004B1916	004B1928
	60	004B1910	004B1917	004B1929
	70	004B1911	004B1918	004B1930
	80	004B1912	004B1919	004B1931
	90	004B3436	004B3444	004B3452
	100	004B3437	004B3445	004B3453
	110	004B3438	004B3446	004B3454
	120	004B3439	004B3447	004B3455
	140	004B3440	004B3448	004B3456
	160	004B3441	004B3449	004B3457
180	004B3442	004B3450	004B3458	
200	004B3443	004B3451	004B3459	

Note: Brackets must be ordered separately, the so-called SB brackets.

Accessories - **Bracket SB** ¹⁾

Picture	Type coverage (plate nos)			Code No.
	H	M	L	
	30-90	30-70	30-60	004B1788
	91-180	71-160	61-120	004B1789
	181-200	161-200	121-200	004B1790

¹⁾ for dimensions, see page 2

Accessories - **Insulations**

Type coverage (plate nos)			Code No.
H	M	L	
30-90	30-70	30-50	079G1608
91-160	71-120	51-100	079G1609
161-200	121-180	101-140	079G1610
-	181-200	141-200	079G1611

Accessories - **Tailpieces**

Soldering	Code No. ²⁾
28 mm pipes	004B2910
35 mm pipes	004B2911
42 mm pipes	004B2912

²⁾ Set of two pieces.

Weld-on	Code No. ²⁾
DN 32	004B2907
DN 40	004B2908
DN 50	004B2909

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Technical data

Heat exchanger **XB61-1**

Max working pressure	bar	25
Min. / Max. temperature	°C	-196/180
Flow medium	DH: Circulation water / glycolic water up to 50% DC: ethylene-, propylene-glycolic water, ethanol-water solutions and other suitable heat transfer media. (Please contact your Danfoss representative).	
Plate corrugation	H / M / L	
Volume / Channel	Ltr	H: 0.144 / M: 0.180 / L: 0.239
Primary side vol.:		(n / 2) – 1 × vol/channel
Connections	G 2 × 52 mm (DIN ISO 228/1)	
Weight	kg	9 + 0.3*n
Materials		
Plate material	Stainless steel, mat. no. 1.4404 (316L)	
Brazing	Copper	

n = Number of plates

Insulation

Type	Mineral Wool with metal sheet cover	
Wall thickness	mm	40
Heat conductivity λ	W/mK	0.039
Max. temperature	Permanent	150
	Short term peak	180

Note:

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

Dimensions

Code No.		
A= 004B1788	B= 004B1789	C= 004B1790

Code No.	No. of plates, n			Internal / External		
	H	M	L	Width	Highth	Debth
079G1608	30-90	30-70	30-50	252/348	534/622	192/280
079G1609	11-160	71-120	51-100			292/380
079G1610	161-200	121-180	101-140			372/460
079G1611	-	181-200	141-200			507/595

A (mm)	H: 12+1.44×n
	M: 12+1.74×n
	L: 12+2.24×n

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