

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:
MPHE.danfoss.com

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	XB 61L-1SB	XB 61M-1SB	XB 61H-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	004B1655
91-160	71-120	51-100	004B1656
161-200	121-180	101-140	004B1657
-	181-200	141-200	004B1658

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	-10/180
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: 0,140 / M: 0,175 / L: 0,234
Primary side vol.:		(n / 2) - 1 x vol/channel
Connections	G 2 x 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	Polyurethane shell with polystyrene cover		
Core	Polyurethane	mm	27 - 30
	Heat conductivity λ	W/mK	0.029
	Max. temperature	°C	130 (permanent); short-term: 150
Cover	Polystyrene, light grey RAL 7040	mm	0.8 - 3.0

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

Dimensions

Technical drawings showing dimensions for the heat exchanger. Key dimensions include: overall width 243 mm, height 525 mm, and plate height 123 mm. Connection details show 6-M12x20 bolts and a 52 mm connection diameter. A table below lists code numbers for different configurations.

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

Insulation (mm)

Code No.	No. of plates, n			Internal			External		
	H	M	L	Width	Highth	Debth	Width	Highth	Debth
004B1655	30-90	30-70	30-50	280	545	150	340	615	225
004B1656	11-160	71-120	51-100			245			320
004B1657	161-200	121-180	101-140			350			405
004B1658	-	181-200	141-200			550			615

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