

## Data sheet

# Micro Plate Heat Exchanger (MPHE): XB59

### 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)

XB59 is copper brazed heat exchanger, designed and configured for District Heating, District Cooling and other Heating applications.

#### Approval:

Pressure Equipment Directive (PED) 97/23/EC.

### Ordering

#### Heat exchanger XB59M-1

Picture	No. of plates, n	Code No.
	30	004B1920
	36	004B1921
	40	004B1922
	50	004B1923
	60	004B1932
	70	004B1933
	80	004B1934
	90	004B1936
	100	004B1937
	110	004B1938
	120	004B1939
	140	004B1940
	160	004B1941
	180	004B1942
	200	004B1943

#### Accessories - Bracket set XB59

Picture	Code No.
	004B1245

#### Accessories - Insulations

Type coverage (plate nos)	Code No.
30-50	004B1651
51-100	004B1652
101-140	004B1653
141-200	004B1654

#### Accessories - Tailpieces

Solder	Code No. *
28 mm pipes	004B2910
35 mm pipes	004B2911
42 mm pipes	004B2912

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

\* Set of two pieces.

Technical data

Heat exchanger **XB59**

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		M
Volume / Channel	Ltr	0,151
Connections	mm	G 2 x 52 (DIN ISO 228/1)
Weight	kg	7 + 2,6 × n
<b>Materials</b>		
Plate material		Stainless steel, mat. no. 1.4404
Brazing		Copper

Insulation

Type	Polyurethane shell with Polystyrene cover		
Wall thickness	mm		27-30
Heat conductivity λ	W/mK		0,029
Max. temperature	Permanent	°C	130
	Short term peak		150
Polystyrene, light grey RAL 7040	mm		0,8-3,0

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

Dimensions

**Insulation**

Code No.	No. of plates, n	Internal			External		
		Width	Height	Depth	Width	Height	Depth
<i>mm</i>							
004B1651	30-50	200	650	120	255	710	175
004B1652	51-100			210	275	735	295
004B1653	101-140			300	275	735	370
004B1654	141-200			460	255	710	515