

## 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 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:

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

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 XB59 M-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

**Note:** Brackets are delivered with the heat exchanger.

#### Accessories - Insulations

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

#### Accessories - Tailpieces

Soldering	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	PN	25
Min. / Max. temperature	°C	-196 / 200
Flow medium	Water / Water	
Plate corrugation	M	
Volume / Channel	Ltr	M: 0.16
Primary side vol.:		(n/2)-1 * vol/channel
Connections	G 2 A x 52 mm (DIN ISO 228/1)	
Weight	kg	4.7 kg + 0,29 * n
<b>Materials</b>		
Plate material	Stainless steel, mat. no. 1.4404	
Brazing	Copper	

Insulation

Type	Polyurethane shell with polystyrene cover	
Core	Polyurethane	27-30 mm
	Heat conductivity λ	0.029 W/mK
	Max. temperature	130°C (permanent); short-term: 150°C
Cover	Polystyrene, light grey RAL 7040	0.8-3.0 mm

**Note:**

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

Dimensions

A (mm)	M: 11+1,75*n
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Code No.	No. of plates, n	Internal			External		
		Width	Highth	Debth	Width	Highth	Debth
004B1651	30-50	200	650	120	255	710	175
004B1652	51-100			210			265
004B1653	101-140			300			355
004B1654	141-200			460			515

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