

Data sheet

Micro Plate Heat Exchanger (MPHE): XB66H

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

XB66 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 XB66H-1

Picture	No. of plates, n	Code No.
	40	004B1987
	50	004B1988
	60	004B1989
	70	004B1990
	80	004B1991
	90	004B1992
	100	004B1993
	110	004B1994
	120	004B1995
	140	004B1996
	160	004B1997
	180	004B1998
	200	004B1999

Note: Brackets has to be ordered separately.
XB66 is provided with compact flanges, installing with standard flanges is not possible. Recommend Danfoss counter flanges.

Accessories - Insulations

Type coverage (plate nos)	Code No.
40-90	004B3542
91-200	004B3543
/	004B3544

Accessories - Bracket SB

Type coverage (plate nos)	Code No.
40-90	004B1788
91-200	004B1789
/	004B1790

Accessories - Counter-flanges

Type	Code No.
DN65 compact flange, for DHW ¹⁾	004B3545
DN65 compact flange, for Heating ²⁾	004B3546

¹⁾ 2 pcs of mild steel flanges, 2pcs 1.4404 flanges (Hot water) including o-rings drinking water: FDA: 21CFR Ch I § 177.2600

²⁾ Counter flanges of mild steel in sets of 4 pcs

Technical data

Heat exchanger XB66H

Max working pressure	PN	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	
Volume / Channel	Ltr	H: 0,219
Primary side vol.:		(n/2)-1 * vol/channel
Connections	Compact Flange DN65 1.4404 PN25	
Weight	kg	13,6+0,43*n
Materials		
Plate material	Stainless steel, mat. no. 1.4404 (316L)	
Brazing	Copper	

Insulation

Type	Polyurethane shell with polystyrene cover	
Core	Polyurethane	20-33 mm
	Heat conductivity λ	0.029 W/mK
Cover	Max. temperature	130°C (permanent); short-term: 150°C
	Polystyrene, light grey RAL 7040	0.8-3.0 mm

Note:

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

Dimensions

6-M12*20 Bolt

706

180

50

25

583.2

50

25

296

2

80

A

107

50

300

217

61

61

61

A=110
B=199
C=311

123

61

Brackets

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

A (mm) | H: 13+1.4*n

Gasket groove

Flanges (mm)

DN	L1	k	n	d	d1	d2	b
65	24	106	8	79	70,3	13	12

Flanges on the heat exchangers are with grooves for O-rings.
4 pcs of O-rings (for heating applications) are supplied with the heat exchanger.
2 pcs of O-rings, approved for drinking water applications, are supplied in counter flanges set (without grooves).
They must be mounted on DW side to replace existing O-rings.

Insulation (mm)

Code No.	No. of plates, n	Internal/External*			
		H	Width	Highth	Debth
004B3542	40-90				188/270*
004B3543	91-200		328/396*	823/900*	328/407*
004B3544	/				563/634*

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