

## Data sheet

# Micro Plate Heat Exchanger (MPHE): XB66

## 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](http://MPHE.danfoss.com)

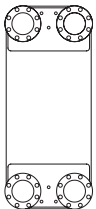
XB66 is copper brazed heat exchanger, designed and configured for District Heating, District Cooling and other Heating applications.

Approval:

Pressure Equipment Directive (PED).

## Ordering

Heat exchanger **XB66 DN65**

Picture	No. of plates, n	XB 66H-1	XB 66L-1
		Code No.	
	40	004B1987	004B1961
	50	004B1988	004B1962
	60	004B1989	004B1963
	70	004B1990	004B1964
	80	004B1991	004B1965
	90	004B1992	004B1966
	100	004B1993	004B1967
	110	004B1994	004B1968
	120	004B1995	004B1969
	140	004B1996	004B1970
	160	004B1997	004B1971
	180	004B1998	-
	200	004B1999	-

## Notes:

Brackets has to be ordered separately.

XB66 is provided with compact flanges, installing with standard flanges is not possible. Recommend Danfoss counter flanges.

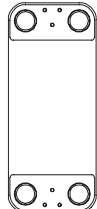
Accessories - **Insulations**

No. of plates, n		Code No.
H	L	
40-90	40-60	004B3542
91-200	61-110	004B3543
/	111-160	004B3544

Accessories - **Bracket SB**

No. of plates, n		Code No.
H	L	
40-90	40-60	004B1788
91-200	61-110	004B1789
/	111-160	004B1790

Heat exchanger **XB66 G2 1/2**

Picture	No. of plates, n	XB 66H-1	XB 66L-1
		Code No.	
	40	079B0974	079B0961
	50	079B0975	079B0962
	60	079B0976	079B0963
	70	079B0977	079B0964
	80	079B0978	079B0965
	90	079B0979	079B0966
	100	079B0980	079B0967
	110	079B0981	079B0968
	120	079B0982	079B0969
	140	079B0983	079B0970
	160	079B0984	079B0971
	180	079B0985	-
	200	079B0986	-

Accessories - **Counter-flanges**

Type	Code No.
DN 65 compact flange, for DHW <sup>1)</sup>	004B3545
DN 65 compact flange, for Heating <sup>2)</sup>	004B3546

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

<sup>2)</sup> Counter flanges of mild steel in sets of 4 pcs

## Technical data

Heat exchanger **XB66**

Type		XB66H	XB66L
Max working pressure	PN	25	16
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.)	
Volume / Channel	Ltr	0.219	0.458
Connections		Compact Flange DN65 1.4404 PN25 / Thread connection G2 ½	
Weight	kg	15 + 0.442 × n	15 + 0.522 × n
<b>Materials</b>			
Plate material		Stainless steel, mat. no. 1.4404 (316L)	
Brazing		Copper	

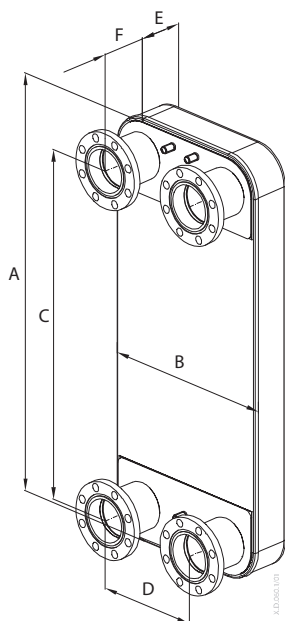
## Insulation

Type			Polyurethane shell with polystyrene cover
Wall thickness	mm		20-33
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

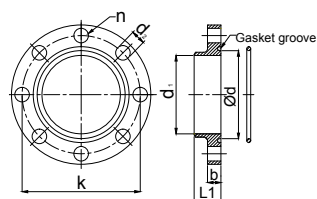
**Note:**

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

# Dimensions



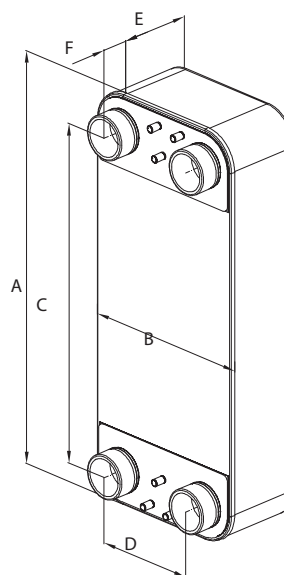
## Connection Flange



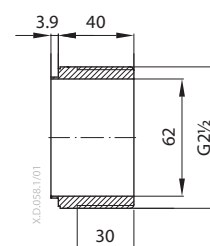
## Flanges (mm)

DN	L1	k	n	d	d1	d2	b
65	24	106	8	79	70.3	13	12

Type	Connection Flange
A	706
B	296
C	583.2
D	180
E (mm)	H: 12 + 1.45 × n L: 12 + 2.8 × n
F	80



## Connection G2



Type	Connection G2 1/2"
A	466
B	256
C	379
D	170
E	50
F	40

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.

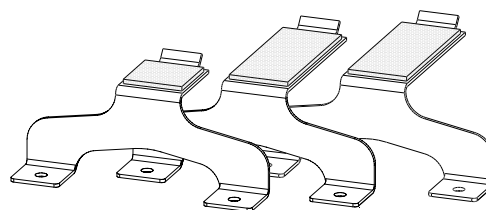
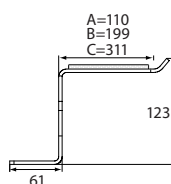
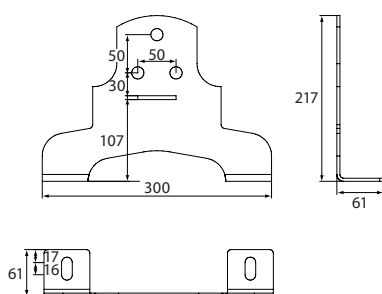
2 pcs of O-rings, approved for drinking water applications, are supplied in counter flanges set (without grooves).

They must be mounted on DW side to replace existing O-rings.

Bolts and nuts are not included. Recommended type: hexagon bolt M12, DIN 933, quality 8.8, galvanized, length min 35 mm.

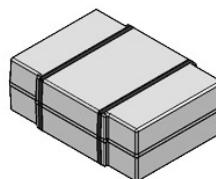
## Brackets

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



## Insulation (mm)

Code No.	No. of plates, n		Internal/External*		
	H	L	Width	Highth	Debth
004B3542	40-90	40-60	328/396*	823/900*	188/270*
004B3543	91-200	61-110			328/407*
004B3544	/	111-160			563/634*





**Danfoss A/S**

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