ENGINEERING
TOMORROW

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

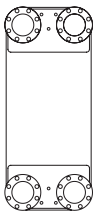
more on:
store.danfoss.com

XB66 is copper brazed heat exchanger, designed and configured for District Heating, District Cooling and other Heating applications.
Approval:
Pressure Equipment Directive (PED).

Ordering

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

Heat exchanger **XB66 DN65**

Picture	No. of plates, n	XB66H-1	XB66L-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**	-

Heat exchanger **XB66 G2 ½**

Picture	No. of plates, n	XB66H-1	XB66L-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 - **Insulations**

No. of plates, n		Code No.
H	L	
40-90	40-60	**079G1612**
91-200	61-110	**079G1613**
/	111-160	**079G1614**

Accessories - **Bracket SB**

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

Accessories - **Counter-flanges**

Type	Code No.
DN 65 compact flange, for DHW [1]	**004B3545**
DN 65 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 **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	0.230	0.479
Connections		Compact Flange DN65 1.4404 PN25 / Thread connection G2 ½	
Weight	kg	15 + 0.442 × n	15 + 0.522 × n
Materials			
Plate material		Stainless steel, mat. no. 1.4404 (316L)	
Brazing		Copper	

Insulation

Type			**Mineral Wool with metal sheet cover**
Wall thickness		mm	40
Heat conductivity λ		W/mK	0.039
Max. temperature	Permanent	°C	150
	Short term peak		180

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

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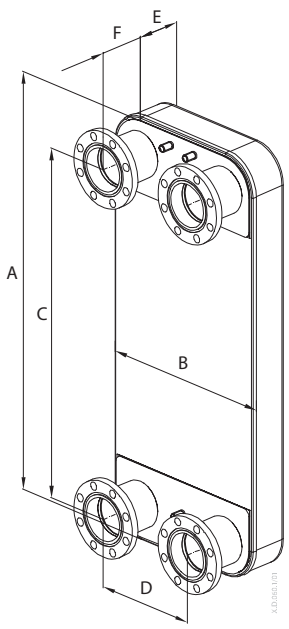
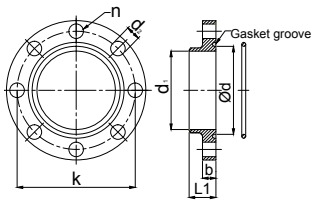
Dimensions



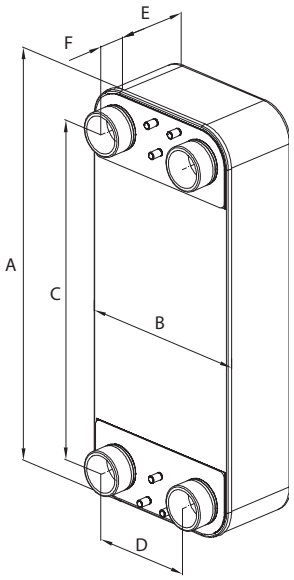
Connection Flange



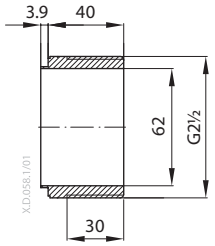
Flanges *(mm)*

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

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



Connection Thread

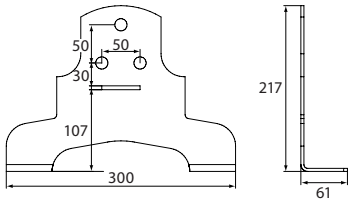


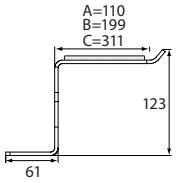
Type	Connection Thread (mm)
A	706
B	296
C	583.2
D	180
E	H: 12 + 1.45 × n
	L: 12 + 2.8 × n
F	40

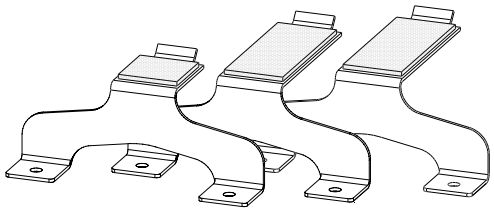
Flanges on the heat exchangers are with grooves for O-rings.
4 pcs of O-rings (for heating applications) are supplied with the heat exchanger.
2 pcs of O-rings, approved for drinking water applications, are supplied in counter flanges set (without grooves).
They must be mounted on DW side to replace existing O-rings.
Bolts and nuts are not included. Recommended type: hexagon bolt M12, DIN 933, quality 8.8, galvanized, length min 35 mm.

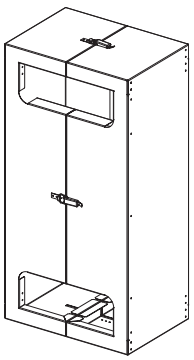
Brackets

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









Insulation

Code No.	No. of plates, n		Internal / External		
	H	L	Width	Highth	Debth
			mm		
079G1612	40-90	40-60	304/400	714/802	192/280
079G1613	91-200	61-110			347/435
079G1614	/	111-160			417/505

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