

Data sheet

Micro plate heat exchanger (MPHE): XB05

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

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XB05 is heat exchanger, designed and configured for District Heating, District Cooling and other Heating applications.

Approval:

Pressure Equipment Directive (PED).

Ordering

1-pass heat exchanger

Picture	No. of plates, n	Connection	XB05 Cu			XB05 StS	
			XB05M-1	XB05X-1	XB05H-1	XB05X-1	XB05H-1
			Code No.			Code No.	
	10	Thread G 3/4	004B3556	079G1231	079G1440	079G1242	079G1659
	16		004B3557	079G1232	079G1441	079G1243	079G1660
	20		004B3558	079G1233	079G1442	079G1244	079G1661
	26		004B3559	079G1234	079G1443	079G1245	079G1662
	30		004B3560	079G1235	079G1444	079G1246	079G1663
	36		004B3561	079G1236	079G1445	079G1247	079G1664
	40		004B3562	079G1237	079G1446	079G1248	079G1665
	50		004B3563	079G1238	079G1448	079G1249	079G1667
	60		004B3564	079G1239	079G1449	079G1250	079G1668
	70		004B3565	079G1240	079G1450	079G1251	079G1669

Accessories-Tailpieces

Picture	Description	Connection	Code No. ¹⁾
	Solder tailpieces	G 3/4 / 15 mm	004B2945
	Weld-on tailpieces	G 3/4 / DN 15	003H6908
		G 3/4 / DN 20	004B2944
	Threaded tailpieces	G 3/4 / G 3/4	004B2947
		G 3/4 / G 1	004B2953

¹⁾ One set contains 2 tailpieces with union nuts and gaskets
²⁾ PL08 to be contacted for further details

Accessories-Insulation set XB05-1

Picture	No. of plates, n	Code No.
	M: 10-26 X: 10-20 H: 10-36	079G1283
	M: 30-40 X: 26-30 H: 40-50	079G1284
	M: 50 X: 36-40 H: 60-70	079G1285
	M: 60-70 X: 50	079G1286

Data sheet

XB05

Technical data

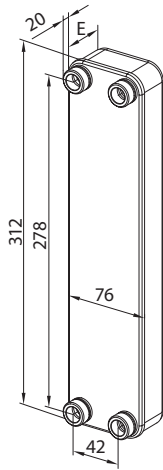
Type		XB05M-1	XB05X-1	XB05H-1
Max. working pressure Cu	bar	25		
Max. working pressure StS		/	10	10
Min. / Max. temperature	°C	-196/180	-196/150	-196/180
Flow medium	DH: Circulation water / glycolic water up to 50% DC: ethylene-, propylene-glycolic water, ethanol-water solutions and other suitable heat transfer media. (Please contact your Danfoss representative).			
Volume/channel	Ltr	0.021	L ¹⁾ : 0.037 H ²⁾ : 0.026	0.016
Connection type	Cylindrical external thread acc. to DIN ISO 228/1			
Connection size	G 3/4			
Weight	kg	0.58 + 0.045 × n	0.51 + 0.048 × n	0.46 + 0.045 × n
Materials				
Plate	Stainless steel, EN 1.4404 (AISI 316L)			
Brazing	Copper (Cu); Stainless steel (StS)			

- ¹⁾ Low pressure drop side - can be either primary or secondary side, depends on selection in Hexact.
²⁾ High pressure drop side - can be either primary or secondary side, depends on selection in Hexact.
n = number of plates

Insulation

Type		Expanded Polypropylene Insulation	
Wall thickness	mm	20	
Heat conductivity, λ	W/mK	0.036	
Operating temperature	Design	°C	110
	Contact surface		60

Dimensions

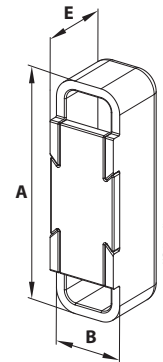


Type	Connection	E (mm)	Weight empty (kg)
XB05M -...	G 3/4 ¹⁾	8 + 1.19 × n	0.58 + 0.045 × n
XB05X -...	G 3/4 ¹⁾	7.1 + 1.6 × n	0.51 + 0.048 × n
XB05H -...	G 3/4 ¹⁾	6.85 + 0.95 × n	0.46 + 0.045 × n

¹⁾ Cylindrical external thread acc. to DIN ISO 228/1
n = number of plates

Insulation XB05-1

No. of plates, n	A	B	E	Code No.
	mm			
M: 10-26 X: 10-20 H: 10-36	348	105	79.5	079G1283
M: 30-40 X: 26-30 H: 40-50			97.5	079G1284
M: 50 X: 36-40 H: 60-70			111.0	079G1285
M: 60-70 X: 50			133.5	079G1286



Tailpieces

Picture	Description	Connection	a	b	SW ²⁾	Code No.
			mm			
	Solder tailpieces	G 3/4 / 15 mm	15	35	32	004B2945
		G 3/4 / 18 mm	18	35	32	004B2946
	Weld-on tailpieces	G 3/4 / DN 20	21.2	35	32	004B2944
	Threaded tailpieces	G 3/4 / G 3/4	3/4"	40	32	004B2947
		G 3/4 / G 1	1"	22	32	004B2953

²⁾ Union nut, with across flats

Danfoss A/S

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