

Micro Plate heat exchanger

XB06

Description

Micro Plate Heat Exchangers - a revolutionary technology from Danfoss. Characterized by their unique plate pattern, MPHEs enable heat to be transferred more efficient than any previous model of heat exchangers.

Features & benefits

- Energy and cost savings
- Better heat transfer
- Lower pressure loss
- More flexible design
- Longer life time

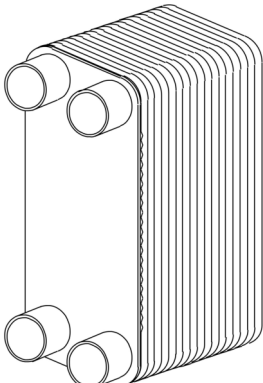
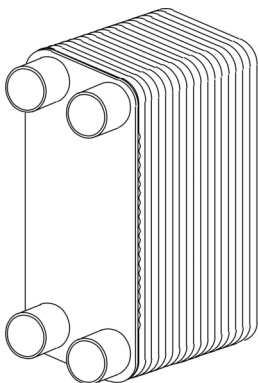
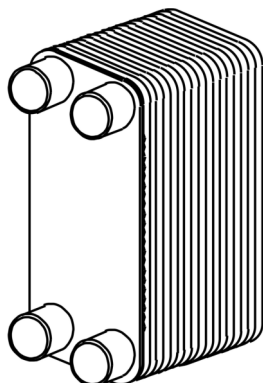
Applications

XB06 is brazed heat exchanger, designed and configured for district heating, district cooling and other heating applications.

more on: store.danfoss.com

Ordering

Product code numbers

Figure: 1-pass heat exchanger XB06 Cu	Figure: 1-pass heat exchanger XB06 Cu ¹⁾	Figure: 1-pass heat exchanger XB06 StS ¹⁾
		

¹⁾ Available on request

Type	Brazing material	Number of plates	Connection type 1	Connection size 1	Code number
XB06H+-1	Copper	10	G	3/4	004B1207
XB06H+-1	Copper	16	G	3/4	004B1209
XB06H+-1	Copper	20	G	3/4	004B1211
XB06H+-1	Copper	26	G	3/4	004B1212
XB06H+-1	Copper	30	G	3/4	004B1214
XB06H+-1	Copper	36	G	3/4	004B1216
XB06H+-1	Copper	40	G	3/4	004B1217
XB06H+-1	Copper	50	G	3/4	004B1219
XB06H+-1	Copper	60	G	3/4	004B1221
XB06H+-1	Copper	70	G	3/4	004B1222
XB06H+-1	Copper	80	G	3/4	004B1223
XB06L-1	Copper	10	G	3/4	004B2025
XB06L-1	Copper	16	G	3/4	004B2026
XB06L-1	Copper	20	G	3/4	004B2027
XB06L-1	Copper	26	G	3/4	004B2028
XB06L-1	Copper	30	G	3/4	004B2029

XB06L-1	Copper	36	G	3/4	004B2030
XB06L-1	Copper	40	G	3/4	004B2031
XB06L-1	Copper	50	G	3/4	004B2032
XB06L-1	Copper	60	G	3/4	004B2033
XB06L-1	Copper	70	G	3/4	004B2034
XB06H-1	Copper	10	G	3/4	004B2037
XB06H-1	Copper	16	G	3/4	004B2038
XB06H-1	Copper	20	G	3/4	004B2039
XB06H-1	Copper	26	G	3/4	004B2041
XB06H-1	Copper	30	G	3/4	004B2042
XB06H-1	Copper	36	G	3/4	004B2043
XB06H-1	Copper	40	G	3/4	004B2044
XB06H-1	Copper	50	G	3/4	004B2046
XB06H-1	Copper	60	G	3/4	004B2047
XB06H-1	Copper	70	G	3/4	004B2048
XB06H-1	Stainless steel	10	G	3/4	004H4601
XB06H-1	Stainless steel	16	G	3/4	004H4602
XB06H-1	Stainless steel	20	G	3/4	004H4603
XB06H-1	Stainless steel	26	G	3/4	004H4605
XB06H-1	Stainless steel	30	G	3/4	004H4606
XB06H-1	Stainless steel	36	G	3/4	004H4607
XB06H-1	Stainless steel	40	G	3/4	004H4608
XB06H-1	Stainless steel	50	G	3/4	004H4609
XB06H-1	Stainless steel	60	G	3/4	004H4610
XB06H-1	Stainless steel	70	G	3/4	004H4611
XB06L-1	Stainless steel	10	G	3/4	004H4613
XB06L-1	Stainless steel	16	G	3/4	004H4614
XB06L-1	Stainless steel	20	G	3/4	004H4615
XB06L-1	Stainless steel	26	G	3/4	004H4617
XB06L-1	Stainless steel	30	G	3/4	004H4618
XB06L-1	Stainless steel	36	G	3/4	004H4619
XB06H-1	CoResist	10	G	3/4	004H4693
XB06H-1	CoResist	16	G	3/4	004H4694
XB06H-1	CoResist	20	G	3/4	004H4695
XB06H-1	CoResist	26	G	3/4	004H4697
XB06H-1	CoResist	30	G	3/4	004H4698
XB06H-1	CoResist	36	G	3/4	004H4699
XB06H-1	CoResist	40	G	3/4	004H4700
XB06H-1	CoResist	50	G	3/4	004H4701
XB06H-1	CoResist	60	G	3/4	004H4702
XB06H-1	CoResist	70	G	3/4	004H4703
XB06L-1	CoResist	10	G	3/4	004H4705
XB06L-1	CoResist	16	G	3/4	004H4706
XB06L-1	CoResist	20	G	3/4	004H4707
XB06L-1	CoResist	26	G	3/4	004H4709
XB06L-1	CoResist	30	G	3/4	004H4710
XB06L-1	CoResist	36	G	3/4	004H4711
XB06L-1	CoResist	40	G	3/4	004H4712
XB06L-1	CoResist	50	G	3/4	004H4713
XB06L-1	CoResist	60	G	3/4	004H4714
XB06L-1	CoResist	70	G	3/4	004H4715

Accessories code numbers



004B2948

Mounting brackets

Mounting bracket for
XB04/06/24



003H6908

Weld-on tailpieces, PN 25, DN 15, G 3/4

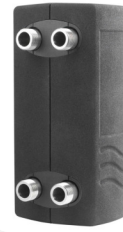
Tailpiece weld-on PN25
DN15 (G3/4)



004B2944

Tailpieces

Weld on set G 3/4" A /
DN20



004B1191

Insulation set

INSU. XB06-1 : 8 -> 26



004B2953

Tailpieces

Thread nipple set G 3/4"
A / G 1 A



079G1287

Insulation set

EPP Insulation



004B2947

Tailpieces

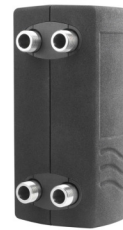
Thread nipple set G 3/4"
A / G 3/4



004B2945

Tailpieces

Solder set G 3/4" A /
15mm



004B1192

Insulation set

Insu. XB06-1 : 30 -> 48



079G1289

Insulation set

EPP Insulation



079G1288

Insulation set

EPP Insulation



004B1193

Insulation set

Insu. XB06-1 : 50 -> 70

Product details

General data

Table: Technical data

Type		XB06L-1	XB06H-1	XB06H+
Max. working pressure Cu	bar	25		
Max. working pressure Cu+		16	-	
Max. working pressure StS		16		
Min. / Max. temperature	°C	-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	0.036	0.027	0.02
Connection type		Cylindrical external thread acc. to DIN ISO 228/1		
Connection size		G ¾		
Weight	kg	0.6 + 0.075 x NoP	0.7 + 0.070 x NoP	0.8 + 0.057 x NoP

Table: Insulation

Type		PU (Polyurethane)	EPP (Expanded polypropylene insulation)
Wall thickness	mm	20	20
Heat conductivity, λ	W/mK	0.035	0.036
Max. temperature	Permanent	130	110 (60) ¹⁾
	Short term peak	160	

¹⁾ Contact surface up to 60 °C.

Materials

Plate	Stainless steel, mat. no. 1.4404
Brazing	Copper (Cu), CoResist (Cu+) ¹⁾ , Stainless steel (StS) ¹⁾

¹⁾ Available on request



Dimensions

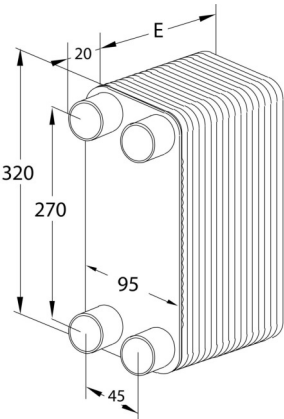
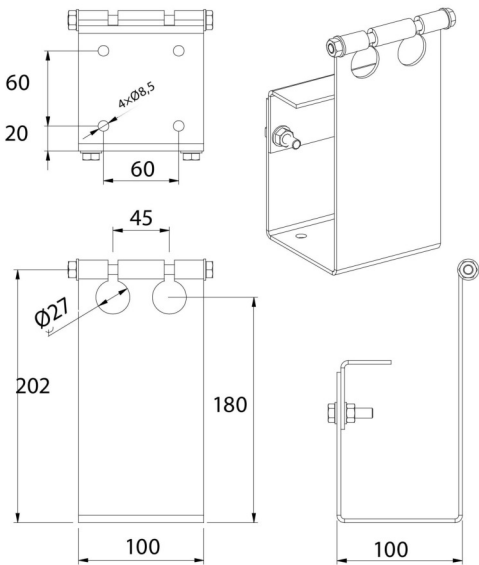


Table: Dimension

Type	Connection	E	Weight empty
		[mm]	[kg]
XB06 L-...	G 3/4 ¹⁾	7 + 1.6 × n	0.6 + 0.075 × NoP
XB06 H-...		7 + 1.25 × n	0.7 + 0.070 × NoP
XB06H+ ...		7 + 0.95 × n	0.8 + 0.057 × NoP

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

Mounting brackets





PU Insulation XB06-1

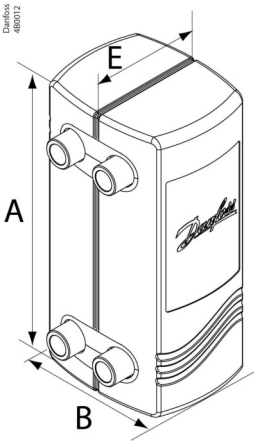


Table: PU Insulation XB06-1

No. of plates	A	B	E	Code No.
	mm			
L: 10-26 H: 10-26 H+: 10-40	368	138	98	004B1191
L: 30-48 H: 30-48 H+: 50-80		142	138	004B1192
L: 50-70 H: 50-70		149	168	004B1193

EPP Insulation XB06-1

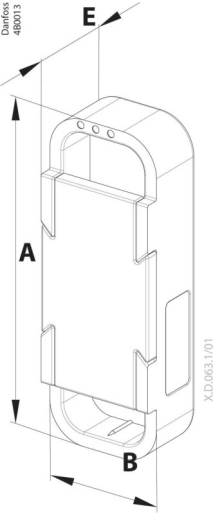
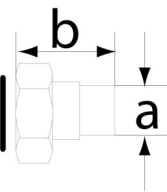
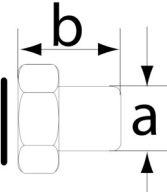
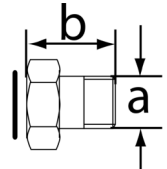


Table: EPP Insulation XB06-1

No. of plates	A	B	E	Code No.
	[mm]			
L: 10 – 20 H: 10 – 26 H+: 10 – 36	353	128	77	079G1287
H: 30 H+: 40			82	079G1288
L: 26 – 30 H: 36 – 40 H+: 50			94	079G1288

Table: Tailpieces

Picture	Description	Connection	A	B	SW ¹⁾	Code No.
			[mm]			
	Solder tailpieces	G ¾ / 15 mm	15	35	32	004B2945
		G ¾ / 18 mm	18	35	32	004B2946
	Weld-on tailpieces	G ¾ / DN 20	21.2	35	32	004B2944
	Threaded tailpieces	G ¾ / G ¾	¾	40	32	004B2947
		G ¾ / G 1	1	22	32	004B2953

¹⁾ Union nut, width across flats

Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Issuer	Approval topic
Hygienic Certificate	WRAS 2110022	WRAS - Water Regulations Advisory Scheme	Drinking Water
Hygienic Certificate	SVGW 0409-4877	SVGW - Schweiz Verein des Gas und Wasserfaches	Drinking Water
UA Declaration	Danfoss UA 2023-01-10 valves PL08 PL28	Danfoss	Pressure
Manufacturer's Declaration	Danfoss MD UK-ROHS-MOD-202304-02.01	Danfoss	UK RoHS
Manufacturer's Declaration	Danfoss MD BF248486516840en-000701.01	Danfoss	Pressure
Hygienic Certificate	Kiwa K 48268-11	KIWA	Drinking Water
Manufacturer's Declaration	Danfoss MD EU-ROHS-MD-202404-01.01	Danfoss	EU RoHS
Pressure Safety Certificate	BV CE-0062-PED-H-DAF 001-24-DNK	BV - Bureau Veritas	Pressure
EU Declaration	Danfoss EU BF202407en-0001.01	Danfoss	Pressure
Export Control Declaration	Micro Plate Heat Exchangers - Not dual use	Danfoss	
Export Control Declaration	Micro Plate Heat Exchangers	Danfoss	
Hygienic Certificate	PZH B-BK-60110-0865.2025	PZH - National Institute of Hygiene	Drinking Water

Contact details

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