

#### **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

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

| D' -t   | No. of    | XB 66H-1 | XB 66L-1 |  |
|---------|-----------|----------|----------|--|
| Picture | plates, n | 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 p | Code No. |          |
|----------|----------|----------|
| Н        |          |          |
| 40-90    | 40-60    | 004B3542 |
| 91-200   | 61-110   | 004B3543 |
| /        | 111-160  | 004B3544 |

# Accessories - Bracket SB

| No. of p | Code No. |          |  |
|----------|----------|----------|--|
| Н        | L        | Code No. |  |
| 40-90    | 40-60    | 004B1788 |  |
| 91-200   | 61-110   | 004B1789 |  |
| /        | 111-160  | 004B1790 |  |

# Accessories - **Counter-flanges**

| Туре                                 | Code No. |
|--------------------------------------|----------|
| DN 65 compact flange, for DHW 1)     | 004B3545 |
| DN 65 compact flange, for Heating 2) | 004B3546 |

<sup>&</sup>lt;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

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

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# **XB 66**



# **Technical data**

# Heat exchanger **XB66**

| Туре                    |    | XB66H   | XB66L          |  |  |
|-------------------------|----|---|----------------|--|--|
| Max working pressure    | PN | 25  | 16             |  |  |
| Min. / Max. temperature | °C | -10 / 18  | -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   |                |  |  |
| Weight kg               |    | 15 + 0,442 × n  | 15 + 0,522 × n |  |  |
| Materials               |    |   |                |  |  |
| Plate material          |    | Stainless steel, mat. no. 1.4404 (316L)   |                |  |  |
| Brazing                 |    | Copper  |                |  |  |

# Insulation

| Туре                             |                 |      | Polyurethane shell with polystryrene cover |  |  |
|----------------------------------|-----------------|------|--|--|--|
| Wall thickness                   |                 | mm   | 20-33                                      |  |  |
| Heat conductivity $\lambda$      |                 | W/mK | 0,029                                      |  |  |
|                                  | Permanent       | °C   | 130  |  |  |
| Max. temperature                 | Short term peak |      | 150  |  |  |
| Polystyrene, light grey RAL 7040 |                 | mm   | 0,8-3,0                                    |  |  |

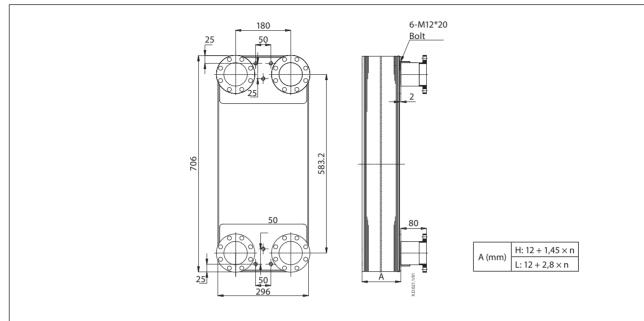
# Note:

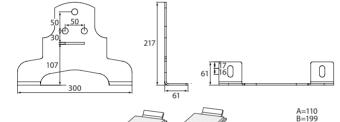
For more details about insulation please contact your Danfoss sales representative.

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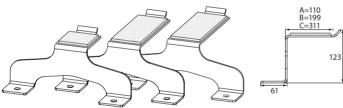


#### **Dimensions**





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



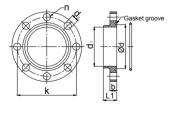


| DN | L1 | k   | n | d  | d1   | d2 | b  |
|----|----|-----|---|----|------|----|----|
| 65 | 24 | 106 | 8 | 79 | 70,3 | 13 | 12 |

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

2 pcs of O-Fings, approved for unificing 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.



# Insulation (mm)

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

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