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| Consultant specification sheet Brazed heat exchangers  钎焊式换热器咨询用规格表 |

**咨询用规格表**

**钎焊式换热器**

Product family: Brazed heat exchangers, BHE  
产品系列： 钎焊式换热器

Specific products: CB16, 18, 20, 30, 60, 110, 112, 200, 300, 400  
具体产品： CB16、18、20、30、60、110、112、200、300、400

Comment: Standard version of products  
评定： 标准产品

General specifications:  
一般规定：

- Supplier of the heat exchanger is Alfa Laval.

- 本换热器供应商为阿法拉伐公司。

- Design of the heat exchanger shall be based on plate technology.

- 本换热器应按照板件技术进行设计。

- Supplier of the heat exchanger shall control all steps in the chain;   
R&D, design, material purchase, plate pressing, brazing, testing, sales, after market etc.

- 本换热器的供应商应负责控制供应链的所有环节；  
包括研发、设计、材料采购、压板、钎焊、检测、销售和售后等。

- Supplier shall include all maintenance and installation manuals for the heat exchanger.

- 供应商应提供所有有关换热器的维修和安装手册。

- Supplier shall be able to supply 2 and 3D drawings for the heat exchanger.

- 供应商应提供换热器的2D和3D图纸。

- All plates shall be single step pressed to secure uniform thickness of the plate and have no weak spots.

- 所有板件均需一步压制，保证板件厚度均匀，且无薄弱点。

- All plates shall be pressed with herring bone or arrow pattern to give maximum turbulence, heat transfer capacity and contact points in the heat exchanger. 所有板件均按人字形或箭头形进行压制，以便换热器的紊流、传热能力和接触点均实现最大化。

- Heat exchangers with asymmetric channels shall be selected where needed for pressure drop or flow reasons.

- 如果有压降或流量要求，应选用具有非对称槽的换热器。

- All channel plates shall be with pressed alloy 316 stainless steel material.

- 所有槽板均需采用经压制的合金316不锈钢材料。

- Pure copper (minimum 99.9%) shall be used as brazing material.

- 应采用纯铜（最小含量为99.9%）作为钎焊材料。

- The stainless steel plates should be brazed together in all contact points created between the adjacent plates as well as around the periphery of the plates to ensure a pressure resistant unit. 不锈钢板应通过相邻板材之间的所有接触点以及板材外围以钎焊的方式焊接到一起，以确保形成一个耐压单元。

- Available pressure vessel codes from the supplier shall be; CE, KHK, KRA, CRN, UL, and ASME.

- 供应商提供的压力容器规范包括：CE、KHK、KRA、CRN、UL和ASME。

- Supplier shall test 100% of the heat exchangers prior to dispatch.

- 供应商应对换热器进行整机测试，合格后才能发货。

- All heat exchangers shall be tested in accordance with the specific pressure vessel code it has been produced for.

- 所有换热器均需按照特定的压力容器规范进行测试。

- All heat exchangers shall be pressure tested with air.

- 所有换热器均需使用空气进行压力测试。

- All heat exchangers shall be leak tested with helium.

- 所有换热器均需使用氦气进行检漏。

- All heat exchangers shall be produced in production facilities that are quality certified according to ISO 9001.

- 所有换热器均需在符合ISO 9001质量要求的生产设备上进行生产。

- All heat exchangers shall be produced in production facilities that are environmentally certified according to ISO 14001.

- 所有换热器均需在符合ISO 14001环境要求的生产设备上进行生产。

- All heat exchangers shall have an environmental product declaration in accordance with ISO 14021.

- 所有换热器均需按ISO 14021的规定发布环保产品声明。

- Insulation for cooling or heating shall be offered by the supplier.

- 供应商应提供冷却或加热用的绝缘材料。

- All heat exchangers shall be marked with a sticker showing:

- 所有换热器均需贴上标签，载明：

o

o Manufacturer

o 制造商

o Article number

o 货号

o Type

o 类型

o Manufacturing number

o 制造编号

o Manufacturing date

o 制造日期

o Max/min temperature

o 最高/最低温度值

o Max/min pressure

o 最大/最小压力

o Test pressure

o 试验压力

o Volume

o 容量

o Fluid group

o 液体系列

o Part number

o 零件号

o Pressure vessel stamp

o 压力容器钢印

o Inlet/outlet orientation

o 进口/出口方向