

|                                                                                                                                                                         |  |                     |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|-------------------|--------------|--|------------|--|---------------------------|--|----------|--|------|--|------------|--|----|--|-----|--|
| <div><br/>众一阿美科福斯特惠勒<br/>工程有限公司<br/>SZPE AMEC FOSTER WHEELER ENGINEERING CO.,LTD.</div> |  |                     | 换热器数据表<br>(条件表24) |              |  | 项目名称       |  | T-121ABC和T-136增加尾气洗涤系统    |  |          |  |      |  |            |  |    |  |     |  |
|                                                                                                                                                                         |  |                     |                   |              |  | 装置名称       |  |                           |  |          |  |      |  |            |  |    |  |     |  |
|                                                                                                                                                                         |  |                     |                   |              |  | 业主编号       |  |                           |  |          |  |      |  |            |  |    |  |     |  |
|                                                                                                                                                                         |  |                     |                   |              |  | 文件编号       |  | B17023-0001-DC00-DAT-0002 |  |          |  |      |  |            |  |    |  |     |  |
| 设计                                                                                                                                                                      |  |                     |                   | 校核           |  |            |  | 审核                        |  |          |  | 日期:  |  | 第 1 页 共2 页 |  | 版次 |  | R01 |  |
| 位号                                                                                                                                                                      |  | E-C121              |                   | 名称           |  | 甲醛吸收塔循环换热器 |  | 型式                        |  | 板式       |  | 串联台数 |  |            |  |    |  |     |  |
| 台数                                                                                                                                                                      |  | 1                   |                   | 换热面积 (设计/计算) |  | / m²       |  | 规格                        |  |          |  | 并联台数 |  |            |  |    |  |     |  |
| 设计数据                                                                                                                                                                    |  |                     |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
|                                                                                                                                                                         |  |                     |                   | 热侧           |  |            |  | 冷侧                        |  |          |  |      |  |            |  |    |  |     |  |
| 流体名称                                                                                                                                                                    |  |                     |                   | 甲醛水溶液        |  |            |  | 循环水                       |  |          |  |      |  |            |  |    |  |     |  |
| 状态                                                                                                                                                                      |  |                     |                   | 液            |  |            |  | 液                         |  |          |  |      |  |            |  |    |  |     |  |
|                                                                                                                                                                         |  |                     |                   | 进口           |  | 出口         |  | 进口                        |  | 出口       |  |      |  |            |  |    |  |     |  |
| 质量流量 (气/液)                                                                                                                                                              |  | kg/h                |                   | /5844        |  | /5844      |  | /6749                     |  | /6749    |  |      |  |            |  |    |  |     |  |
| 管口流速                                                                                                                                                                    |  | m/s                 |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 操作温度                                                                                                                                                                    |  | ℃                   |                   | 42           |  | 35         |  | 32                        |  | 38       |  |      |  |            |  |    |  |     |  |
| 操作压力 (最大)                                                                                                                                                               |  | MPaG                |                   | 0.47         |  | 0.45       |  | 0.5                       |  | 0.25     |  |      |  |            |  |    |  |     |  |
| 流体性质                                                                                                                                                                    |  |                     |                   | 有毒,可燃        |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 密度 (气/液)                                                                                                                                                                |  | kg/m³               |                   | /974         |  | /974       |  | /993                      |  | /989     |  |      |  |            |  |    |  |     |  |
| 比热 (气/液)                                                                                                                                                                |  | kJ/kg℃              |                   | /4.136       |  | /4.136     |  | /4.178                    |  | /4.178   |  |      |  |            |  |    |  |     |  |
| 导热系数 (气/液)                                                                                                                                                              |  | w/m °C              |                   | /0.533       |  | /0.533     |  | /0.619                    |  | /0.632   |  |      |  |            |  |    |  |     |  |
| 粘度 (气/液)                                                                                                                                                                |  | mPa.s               |                   | /0.61        |  | /0.61      |  | /0.764                    |  | /0.627   |  |      |  |            |  |    |  |     |  |
| 标准沸点                                                                                                                                                                    |  | ℃                   |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 潜热                                                                                                                                                                      |  | kJ/kg               |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 速率                                                                                                                                                                      |  | m/s                 |                   | 1.35         |  | 1.31       |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 压降                                                                                                                                                                      |  | kPa                 |                   | 允许50         |  | 计算         |  | 允许50                      |  | 计算       |  |      |  |            |  |    |  |     |  |
| 污垢系数                                                                                                                                                                    |  | m²℃/w               |                   | 0.000675     |  | 0.00045    |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 传热温差                                                                                                                                                                    |  | ℃                   |                   | 3.5          |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 传热系数                                                                                                                                                                    |  | w/m²℃               |                   | 设计           |  | 计算         |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 热负荷                                                                                                                                                                     |  | kw                  |                   | 47           |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 安装环境                                                                                                                                                                    |  |                     |                   | 室内           |  |            |  | 室外                        |  | √        |  |      |  |            |  |    |  |     |  |
| 设备设计使用寿命                                                                                                                                                                |  | 年                   |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 设备外表面涂底漆要求                                                                                                                                                              |  |                     |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 结构数据                                                                                                                                                                    |  |                     |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 设计压力 MPaG                                                                                                                                                               |  |                     |                   | 0.6          |  |            |  | 0.6                       |  |          |  |      |  |            |  |    |  |     |  |
| 设计温度℃                                                                                                                                                                   |  |                     |                   | 80           |  |            |  | 60                        |  |          |  |      |  |            |  |    |  |     |  |
| 程数                                                                                                                                                                      |  |                     |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 平均金属温度℃                                                                                                                                                                 |  |                     |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 腐蚀裕量 mm                                                                                                                                                                 |  |                     |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 隔热: 保温 mm                                                                                                                                                               |  |                     |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 换热管                                                                                                                                                                     |  | 数量                  |                   | 长度 mm        |  |            |  | 管中心距                      |  | mm       |  |      |  |            |  |    |  |     |  |
|                                                                                                                                                                         |  | 型式                  |                   | 规格 φ × mm    |  |            |  | 管排列方式                     |  |          |  |      |  |            |  |    |  |     |  |
| 折流板                                                                                                                                                                     |  | 数量/壳程               |                   | 型式单弓双弓       |  | %切割率       |  | 间距 mm                     |  | 与管板间距 mm |  |      |  |            |  |    |  |     |  |
|                                                                                                                                                                         |  | 是否加防冲挡板:挡板距入口管高度 mm |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 材料                                                                                                                                                                      |  | 板片                  |                   | 304          |  |            |  | 304                       |  |          |  |      |  |            |  |    |  |     |  |
|                                                                                                                                                                         |  | 板框                  |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
|                                                                                                                                                                         |  | 管板                  |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
|                                                                                                                                                                         |  | 垫片 (壳程/管程)          |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 附件                                                                                                                                                                      |  |                     |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 铭牌                                                                                                                                                                      |  |                     |                   | √            |  |            |  | 膨胀节                       |  |          |  |      |  |            |  |    |  |     |  |
| 静电接地板                                                                                                                                                                   |  |                     |                   | √            |  |            |  | 密封条                       |  |          |  |      |  |            |  |    |  |     |  |
| 支座                                                                                                                                                                      |  |                     |                   | √            |  |            |  | 密封带                       |  |          |  |      |  |            |  |    |  |     |  |
| 说明:                                                                                                                                                                     |  |                     |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 1、表中所列数据为 100%负荷, 该换热器设计参数应按 130%进行设计, 预留 30%余量;                                                                                                                        |  |                     |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 2、接管表中管口规格为建议值, 厂家根据设计参数核算后确定;                                                                                                                                          |  |                     |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |
| 3、设计标准: NB/T47004-2009;                                                                                                                                                 |  |                     |                   |              |  |            |  |                           |  |          |  |      |  |            |  |    |  |     |  |

[illegible]