DIMENSIONING EVAPORATOR

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project** |  |  |  |  |  | |
| *Customer* | abc | |  | *Reference* | def | |
|  |  |  |  |  |  |  |
| *Geometry* | 25x21.65mm - staggered - Cu tube 7.94mm smooth | | | | | |
| *Fin type* | A - Aluminum | |  |  |  | |
| *Finned HxL (mm)* | 1000x1000 | |  |  |  | |
| *Altitude o.s.l. (m)* | 1000 | |  | *Refrigerant* | R290 | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **R** | **FS(th.)** | **Circ** | **QA** | **VA** | **∆PA** | **TAI** | **RHI** | **TAO** | **RHO** | **QTOT** | **QSEN** | **TE** | **TSUR** | **TC** | **TSUB** | **QREF** | **∆PR** | **∆TR** |
| **#** | **mm** | **#** | **m3/h** | **m/s** | **Pa** | **°C** | **%** | **°C** | **%** | **kW** | **kW** | **°C** | **K** | **°C** | **K** | **kg/h** | **kPa** | **K** |

2 2.5(0.10) 20 10800 3.00 41 32.0 40 22.2 59 46.93 30.76 5.0 8 50.0 3 1129 23 ?.?

2 2.3(0.10) 20 10800 3.00 45 32.0 40 21.7 61 49.46 32.57 5.0 8 50.0 3 1189 25 ?.?

2 2.1(0.10) 20 10800 3.00 50 32.0 40 21.1 62 51.83 34.32 5.0 8 50.0 3 1246 27 ?.?

2 2.0(0.10) 20 10800 3.00 53 32.0 40 20.7 63 53.38 35.48 5.0 8 50.0 3 1283 28 ?.?

2 1.9(0.10) 20 10800 3.00 56 32.0 40 20.4 64 54.86 36.55 5.0 8 50.0 3 1319 29 ?.?

2 1.8(0.10) 20 10800 3.00 59 32.0 40 20.1 65 56.27 37.60 5.0 8 50.0 3 1352 30 ?.?

2 1.7(0.10) 20 10800 3.00 66 32.0 40 19.7 67 58.02 38.92 5.0 8 50.0 3 1395 32 ?.?

2 1.6(0.10) 20 10800 3.00 73 32.0 40 19.3 68 59.68 40.20 5.0 8 50.0 3 1434 33 ?.?

2 2.3(0.10) 40 10800 3.00 45 32.0 40 22.1 61 45.63 31.32 5.0 8 50.0 3 1097 5 ?.?

2 2.1(0.10) 40 10800 3.00 50 32.0 40 21.5 63 47.90 33.00 5.0 8 50.0 3 1152 5 ?.?

2 2.0(0.10) 40 10800 3.00 53 32.0 40 21.2 64 49.40 34.10 5.0 8 50.0 3 1189 5 ?.?

2 1.9(0.10) 40 10800 3.00 56 32.0 40 20.8 65 50.84 35.23 5.0 8 50.0 3 1223 6 ?.?

2 1.8(0.10) 40 10800 3.00 59 32.0 40 20.5 66 52.22 36.21 5.0 8 50.0 3 1257 6 ?.?

2 1.7(0.10) 40 10800 3.00 66 32.0 40 20.1 67 53.95 37.53 5.0 8 50.0 3 1297 6 ?.?

2 1.6(0.10) 40 10800 3.00 73 32.0 40 19.7 68 55.59 38.81 5.0 8 50.0 3 1338 6 ?.?