|  |  |  |
| --- | --- | --- |
| http://frunze.com.ua/wp-content/uploads/2021/02/log6.jpg | **“SMNPO- ENGINEERING” JSC** | Ukraine, 40009, Sumy,58, Gorkogo Str.,sumy-frunze.com |
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**Data Sheet**

**Air Cooling Unit (ACU) Calculation**

**Facilities description:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Cooled product composition:**

|  |  |
| --- | --- |
| Component | Mole fractions (or %) |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Material |  |

**Working media parameters:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter description** | **Units** | **ACU inlet** | **ACU outlet** |
| Working medium description |  |  |  |
| Phase state |  | Liquid | Gas/steam | Liquid | Gas/steam |
| Quantity | kg/h |  |  |  |  |
| Operating temperature  | ºС |  |  |  |  |
| Initial pressure (abs.) | МPа |  |  |  |  |
| **Air:** |
| ACU location (climatic zone) |  |
| Air temperature max / min / design | ºС |  |
| Sea elevation | M |  |
| Relative humidity  | % |  |
| **ACU parameters АВО:** |
| Allowable pressure loss in the tube space | МPа |  |
| Design pressure | МPа |  |
| Design temperature | ºС |  |
| Thermal resistance of contamination in the pipe space | m2 K/W  |  |
| Thermal resistance of air pollution | m2 K/W  |  |
| Recirculation chamber / overhead louvers |  |
| Customer's special requirements for the design of the air cooling unit |  |