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TECHNIP Air Cooler Design Guide The following is a summary of TECHNIP's air cooler design guide, which is part of GE Process Engineering Design Guide Part 1 - Section 1. **Air Cooler Designation** TECHNIP conventionally designates an air cooler as follows: [width in feet] x [humber of rows or layers]. **Typical Heat Transfer Coefficient Values** The following table provides typical values for the heat transfer coefficient (U) for various services: | Service | U (W/m°C) | Btu/h/ft²F | | --- | --- | | Condensing service | 100-120 | 570-680 | | Amine reactivator | 105-125 | 595-710 | | Ammonia | 75-90 | 425-510 | | Freon 12 | 50-60 | 285-340 | **Cooling Tower Design** In a cooling tower, water is cooled by evaporation of part of the water. There are several types of cooling towers: 1. **Mechanical-draft towers**: These also use a fan to force air through the packing, but it's mounted at the top of the tower. 3. **Induced-draft towers**: These suck air up through the packing from the top of the towers are flow rate, temperature, and dimensions, as well as the installation requirements for fogging and plume abatement. Cooling towers are more expensive to install than other types, but they may be necessary in certain situations where there is a risk of ice formation or visual impact concerns. The document outlines the steps for preliminary design, including calculating the wet bulb temperature and dry bulb temperature and dry bulb temperature and cold water temperature. The combustion reaction rate. API TDB92 contains an error; the correct value can be found in API TDB of 1983. To convert heating value (LHV) from HHV: LHV = HHV × 5222 x (at 55°C) Note that LHV and HHV should be in Keal/kg, and x represents you have a gaseor and should not be relied upon as an exact method. Disclaimer: ZLIB is a pdf web search tool that provides access to unreservedly available pdf archives on the Internet. We do not have any documents on our server, and any inquiries or requests to remove content can be directed to zlibpub@proton