

Enquiry Form for Evaporator & Crystallizer

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|---|---------------------------------------|---|----------------|---|---|------------------|--|
| Document Number: | | | | Date: | | | |
| Company | | | Address | | | | |
| Contact | | Telephone | | Email | | | |
| Major Solute | | | | Low Boiling Point Substances | | | |
| Concentration % | | | | Concentration% | | | |
| COD | Ammonia Nitrogen (NH ₃ -N) | | Total Hardness | | Fluorinion | SiO ₂ | |
| _____ppm | _____ppm | | _____ppm | | _____ppm | _____ppm | |
| Material PH Value: _____ | | Installation Location: <input type="checkbox"/> Fully Exposed <input type="checkbox"/> Semi-Exposed <input type="checkbox"/> Indoors, yet to be constructed <input type="checkbox"/> Existing workshop: Height ___m, Length___m, Width___m | | | Public Utilities: Steam Price: _____ /ton; Electricity Price: _____ /kwh; | | |
| Material Toxicity: <input type="checkbox"/> Non-toxic <input type="checkbox"/> Slightly toxic <input type="checkbox"/> Moderately toxic <input type="checkbox"/> Highly toxic <input type="checkbox"/> Other | | | | | | | |
| Material Flammable and Explosive: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | |
| 1. TDS (%) | | | | | | | |
| 2. Density(kg/m ³) | | | | | | | |
| 3. Corresponding Viscosity (Pa · s) | | | | | | | |
| 4.Boiling Point Elevation (°C) | | | | | | | |
| 1.Solute Specific Heat: _____kj/kg · °C | | | | 2.Solvent Specific Heat: _____kj/kg · °C | | | |
| 3.Input material Flow Rate: _____kg/hr; Concentration_____%; | | | | 4. Output material Concentration_____%; Temperature Requirement_____°C, <input type="checkbox"/> None | | | |

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|--|--|
| Temperature _____ °C | |
| 5.Solvent Evaporation capacity: _____ kg/hr | 6.Crystallization and Salt Output Requirement: <input type="checkbox"/> None, <input type="checkbox"/> Yes, Salt Output Rate _____ % |
| 7.Maximum Allowable Heating Temperature of Material: _____ °C, <input type="checkbox"/> No Requirement | 8.Cooling Circulating Water: Supply Temperature _____ °C , Return Temperature _____ °C |
| 9.Fresh Steam Condensate Outlet Temperature: _____ °C, <input type="checkbox"/> No Requirement | 10.Secondary Steam Condensate Quality Requirement: <input type="checkbox"/> None, <input type="checkbox"/> Other _____ |
| 10. Energy Consumption Requirement: Effect Amount Requirement _____ Effects, Fresh Steam Consumption per ton water Evaporation _____ t/t TVR requirement: <input type="checkbox"/> Not Required <input type="checkbox"/> No Preference <input type="checkbox"/> Required, Parameter of steam supply: _____MPa (g) , _____ °C MVR requirement: <input type="checkbox"/> Not required <input type="checkbox"/> Required, Power consumption requirement on MVR Compressor Kwh/ton Evaporation Water, or: <input type="checkbox"/> Typical Values are Acceptable <input type="checkbox"/> Lower if Possible <input type="checkbox"/> Lower is Better | |
| 11. Equipment Material Requirements: Heat Exchange Tube _____, Wetted parts with input material _____, Wetted parts with secondary steam _____, All _____. | 12. Equipment Explosion-proof Requirements: <input type="checkbox"/> Explosion-proof <input type="checkbox"/> Not Explosion-proof Equipment Appearance Requirements: <input type="checkbox"/> Polished , <input type="checkbox"/> Pickled, Insulated after Running for a while. |
| 13.Additional Description of Material Properties (e.g., Boiling Point Elevation): | |
| 14.Additional Requirements for the Evaporation System: | |
| 15.Description of the Existing Evaporation Equipment (if any): | |
| 16.Process Control and Other Instructions: <input type="checkbox"/> Manual <input type="checkbox"/> Simple Auto-control <input type="checkbox"/> PLC <input type="checkbox"/> DCS Automation Requirement: <input type="checkbox"/> High <input type="checkbox"/> General <input type="checkbox"/> Other, _____ Requirements for automation instruments and valves and etc.: <input type="checkbox"/> Top International Brands, <input type="checkbox"/> Foreign or Joint Ventures, <input checked="" type="checkbox"/> Made in china, <input type="checkbox"/> To be Determined and Recommended by the Designer, <input type="checkbox"/> Other, _____ MVR Compressor: <input type="checkbox"/> Top International Brands, <input type="checkbox"/> Made in China, <input type="checkbox"/> To be Determined and Recommended by the | |

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|---|---|
| Designer | |
| Nature of Enterprise: <input type="checkbox"/> State-owned Enterprise <input type="checkbox"/> Private Enterprise | Project Phase: <input type="checkbox"/> Research <input type="checkbox"/> Design <input type="checkbox"/> Implementation |
| Remarks: | |