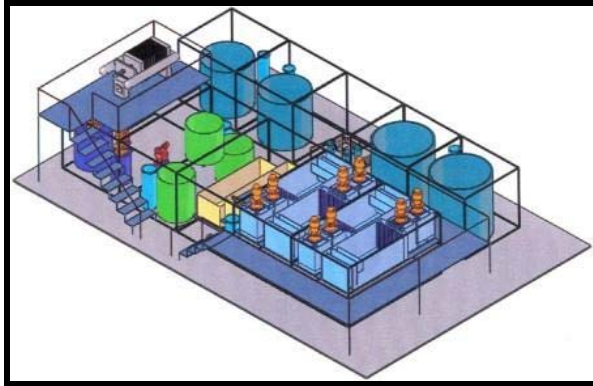




Portable SX / Crystallization Plant 1

Our modular design for a portable solvent extraction plant coupled to copper sulphate crystallization can produce 20,000 kg of copper sulphate pentahydrate crystals per day which is equivalent to 5,000 kg of copper metal per day.



Capacity: 5 TPD copper metal basis

PLS Flow: 180 to 720 L/min

Requirement: 7,700 kg H₂SO₄ per day
cooling water for crystallizer

Advantages as Compared to SX / EW

- Capital and operating costs are lower
- 10 % premium for CuSO₄·5H₂O
- Lower electrical requirements
- Less labour on product handling
- Faster commissioning and start up

Items Provided:

- Modular frames with elevated operator platforms, stairs, and hand railings
- SX feed tank with filtration system, SX feed pumps, and flow control
- Mixer-settlers with SX impellers connected to in-line gear drive agitators
- Raffinate and strip liquor coalescers for removal and recovery of organic phase
- Crud treatment circuit to include treatment tank, pre-coat tank, and filter press
- Acid dosing system with metering pump and inline static mixer
- Crystallizer unit for production of CuSO₄·5H₂O from the strip liquor
- Filter press for copper sulphate crystals with copper sulphate discharge chute
- Heat exchanger for transfer of heat from the strip liquor to the strip solution
- Strip solution tank with heater, temperature controller, pump, and flow control
- Completely assembled in modular frames and factory tested prior to shipment

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