

ENHANCING ENERGY EFFICIENCY AND INCREASING PRODUCTIVITY IN CHEMICALS & FERTILISERS INDUSTRY



Increasing energy prices and implemented energy policies motivate Chemicals and Fertilisers industries to optimise their energy consumption trends. Absorption Cooling and Heating solutions, by catering to the temperature-driven processes of the industries enable them to cut back on the energy costs. Their critical role in enhancing energy efficiency and waste heat recovery can lead to increased productivity and profits for Chemicals and Fertilisers industries

Our offerings for the industry are

Steam-driven absorption chiller



High COP of 1.5

Chiller-Heater



40% operational savings

Hybrid Chiller



50% power savings

Exhaust-fired absorption chiller



Heat Recovery from engines, turbines and furnaces.

Direct fired absorption chiller



Capacity range of 50 to 1550 TR

Hot-water driven absorption chiller



Offers chilled water up to -1°C

Our solutions find application in

Paint Industry

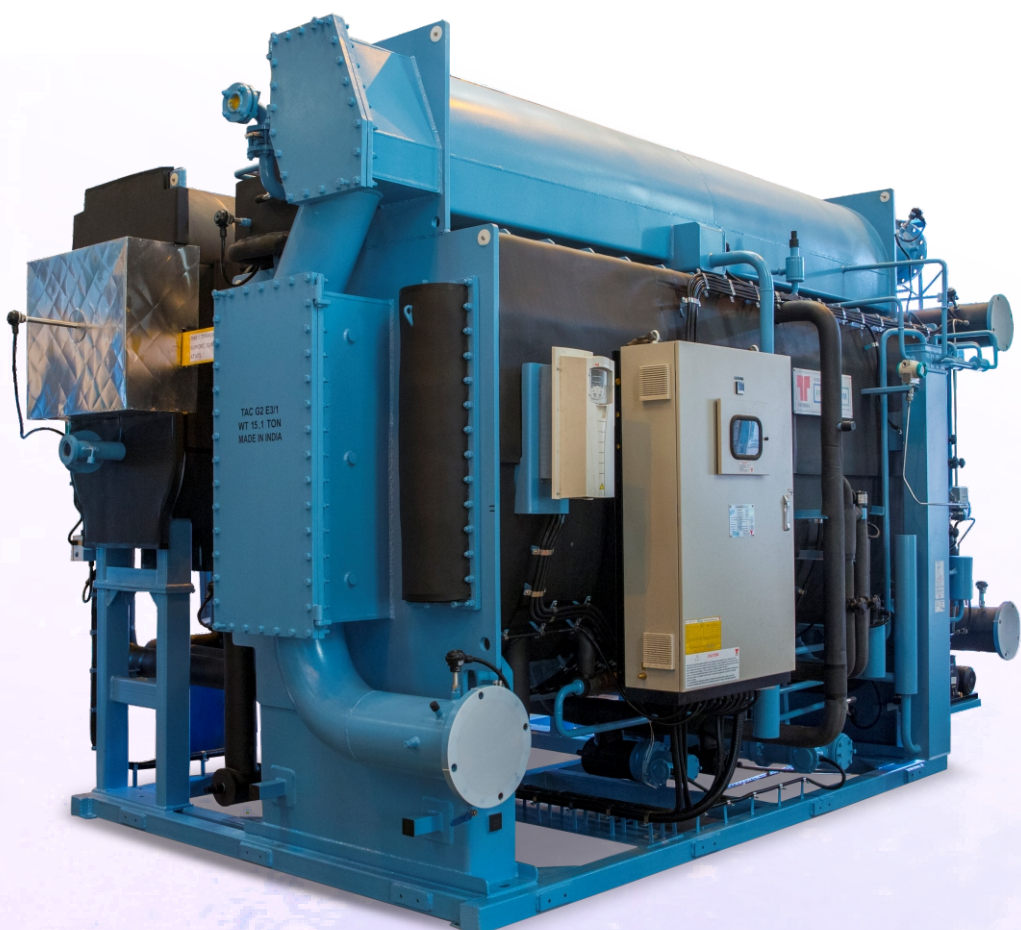
- Sand Mill or Dispersion Unit Cooling
- Temperature & Humidity Control/Air Conditioning of Plant & Packaging Area
- Maintaining temperature of Monomer Tank
- Maintaining temperature of Reactors / Mixing Tanks

Fertilizer Industry

- Inlet Air Cooling
- Process Air Cooling
- SYN Gas Cooling
- CO2 Cooling

Pesticide Industry

- Reactor Cooling
- Primary Condenser of Distillation Column
- Secondary Condenser of Distillation Column
- Solvent Recovery
- Reboiler Heating



Benefits:



Improvement in throughput of process



Higher Return on Investment (ROI)



Effective utilisation of installed capacity



Reduced power or steam consumption

Why Thermax's Solutions?

- Electricity-free cooling and heating
- Low steam consumption
- No vibrating parts
- Low maintenance
- No harmful refrigerants
- No requirement for LiBr/DM Water top-up
- Crystallization-free design
- 24x7 IIoT-based chiller monitoring