PRODUCT RANGE

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* Please contact Thermax representative for suitable selection of the equipment based on the site conditions and application.

FOOTPRINTS – PROCESS COOLING

DAIRY
Heritage Foods Limited
Uttam Dairy
Dollor’s Food Products (P) Ltd
Farmgate Agro Milk Pvt Ltd
Nature Delight Dairy

MEAT PROCESSING
Kwality Animal Feeds
AOV Exports

CHEMICAL
Beach Minerals Company Ind. Ltd.
United Phosphorous Limited

PHARMACEUTICAL & PIGMENTS
Frater-Razes Laboratories
Micro Ink - Huber Group

POWER & STEEL
Southern Energy Dev. Corp. Ltd
G.P. Energy
Jindal Steel Works Limited

FISHERRIES
V. V. Marine Products
Abad Fisheries
High Seas Exim
Tony Harris
Orchid Marine
Gadre Marine

FO&B
Coca Cola Breweries Limited
Ces Food Engineering Pvt. Ltd. [UB]
REXAM Beverage Can (INDIA) Pvt. Ltd. Ball Corp.
Innovative Food Products

POLYFLIMS & PLASTIC
Ultimate Flexi Pack Ltd
Montage Enterprises Pvt Ltd.
Uflex
SRF
Unimold TCA
Goplas, S.A De C.V

EPC
Rinac India Limited
Frigosacn

D-13 MIDC Chinchwad, Pune 411 019, India
Tel.: +91-20-6615 5000  |  Fax: +91-20-6615 5050  |  Customer Care: 1800 2090 115
Email: enquiry@thermaxglobal.com  |  Website: www.thermaxglobal.com
An evaporative condenser is a condenser integrated into a cooling tower which rejects the latent heat of condensation of refrigerant (Ammonia/Freon) through a coil to the surroundings by means of evaporation. Water sprayed onto the coil exchanges heat with the refrigerant. A small quantity of water is evaporated into the air thereby cooling the remaining water cascading to the basin at the bottom. Post evaporation the saturated air passes through the drift eliminators and then forced out using a fan.

Conventional system uses a plate type / shell & tube type heat exchanger, in which primary circuit has refrigerant flowing through it & secondary circuit has circulating water. Circulating water from the secondary circuit rejects heat through cooling tower, the heat exchanger acts as an isolation point to maintain two independent circuits. In a conventional system performance of primary circuit is susceptible to secondary circuit performance & secondary circuit is vulnerable to scaling due to water quality. Also having a heat exchanger between two circuits increases the irreversibility of the system.

In an Evaporative Condenser the intermediate heat exchanger, secondary pump-piping & cooling tower is replaced by a single unit consisting of refrigerant condensing coil as an integral part of the unit. This feature of the evaporative condenser mitigates scaling & improves reliability ensuring ease of operation of the system. The terminal temperature difference required for intermediate heat exchanger is eliminated which translates to system savings.

**Benefits**

- Continuous coil without welded joints
- Robust corrosion resistant structural material for long life
- Large diameter laminar flow nozzles for clog free operation
- Honeycomb PVC Wet deck design for most optimal air & Water usage
- Air Flow - Parallel at coil side & cross at fill side for efficient heat transfer
- Optimized spray water flow to coil for maximum heat transfer
- Side access door for easy online maintenance
- Electronic De-scaling device for trouble free operation
- Direct Drive fan arrangement

**Operating Principle**

- The refrigerant flows through the coil of the evaporative condenser.
- Heat from the refrigerant is rejected through the coil tubes.
- Part of the heat is removed directly by the downward induced air and discharged to the surrounding.
- Rest of the heat is rejected to the water cascading down over the tubes.
- Simultaneously, air is drawn in through the air inlet louvers at the base of the evaporative condenser.
- A small portion of the water is evaporated which removes the heat. The warm saturated air travels through the drift eliminator & discharged by the fan to the surrounding, thereby reducing drift water loss.
- Post heat exchanged, the condensed refrigerant flows to receiver tank.

**WHY THERMAX EVAPORATIVE CONDENSERS**

Thermax evaporative condenser offers unmatched flexibility, providing optimized selections for various refrigeration systems & climatic conditions, utilizing multi flow configuration. Thermax provides the most energy efficient evaporative condenser in the market.

- Wide Range of Thermal Duties - Ideal for Ammonia / Freon condensation with low approach
- Retro Fit & Replacement - Single air inlet models are designed and fit into the existing system.
- Selection Customization — can optimize footprint and least Power requirements to suit project requirements; large product range & Customized Material of Construction*
- Largest sales & support network across India