

Process Cooling & Energy Recovery

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AIR SYSTEMS LTD

www.integratedair.co.uk

Process Cooling & Energy Recovery

In manufacturing processes involving high temperatures; curing ovens or incinerators, large amounts of Heat Energy can be expelled to atmosphere through exhaust stacks.

Some industrial processes require cooling by the introduction of water or liquid cooling circuits.

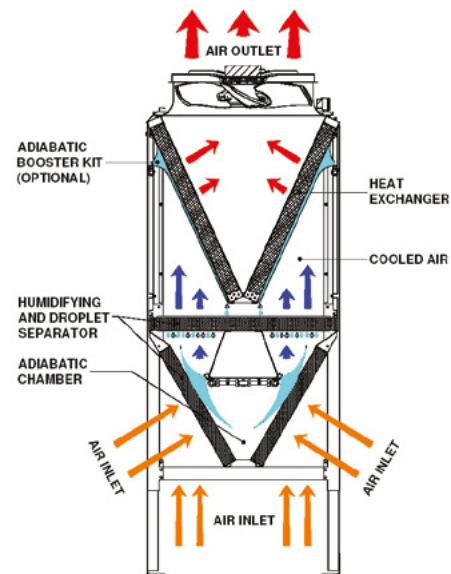
This heat energy can either be dissipated to atmosphere using 'dry coolers' – force ventilated large radiator total loss systems.

Alternatively by introducing a 'Heat Exchanger' into the circuit to recoup the energy, that energy can be used to provide a secondary heating source for the building's ventilation system. Heat exchangers can be incorporated into our designs to reduce gas consumption by recovering heat energy.



Adiabatic Cooling for Minimum Water Consumption

- High-temperature ambient air passes through the lower adiabatic chamber
- In the chamber, nozzles create a fine mist of water from a separate source
- Humidification of the air reduces the temperature prior to contact with the heat exchangers
- Patented design prevents water drift outside the chamber, eliminating heat exchanger scaling and dangerous waterborne diseases such as Legionella
- To ensure consistent cooling, the control system continuously adjusts the amount of water sprayed. The heat exchangers meanwhile, remain completely dry



Advantages of Using Our Process Cooling & Energy Recovery Systems:

- **Vastly Reduce Water Consumption** when compared with using standard water towers
- **Recover Heat** that would otherwise be lost by incorporating into HVAC systems
- **Turnkey or Supply Only Solutions**

Common Applications: Bodymaker, cupper, compressors, soluble oil filters.

Common Sectors: Two piece D&I canmaking, can ends making.

If you have any questions or wish to discuss your particular business' needs then please get in touch via the details below or visit our website. We are always happy to answer any queries that you may have.

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