

# Cooling Tower Alternatives

## Adiabatic Coolers



Summit Adiabatic Coolers (Cooling Tower Alternatives) reduce running costs, water use, chemical water treatment and stringent maintenance regimes associated with evaporative cooling towers.



### Cooling Tower Disadvantages:-

- ⊛ Owners of evaporative cooling towers must register the unit with their local authority under the 'Notification of cooling towers and evaporative condensers regulations 1992 act'.
- ⊛ A costly chemical water treatment regime is required for all cooling towers including chlorinations and cleaning.
- ⊛ Responsibility and weekly record keeping of water quality for cooling towers is borne by the owner and must be kept up to date.
- ⊛ HSC guidance on the control of legionella in water systems states that the option of dry cooling should be considered particularly when cooling towers are due to be replaced or when new cooling systems are planned.
- ⊛ Cooling Towers by their very design evaporate water to remove heat and need constant water make-up to operate, a constant water bleed is also required to avoid the build up of total dissolved solids in the system which creates cooling issues. This high water use increases running costs further.



### Summit Adiabatic Cooler Benefits

- ⊛ No chemical water treatment
- ⊛ No registration with local authorities
- ⊛ Lower operating costs than cooling towers
- ⊛ Lower water use than cooling towers
- ⊛ Minimal maintenance
- ⊛ Operation in the UK as a dry air blast cooler for over 95% of the year
- ⊛ No unsightly plumes of water vapour
- ⊛ No contamination of the water circuit
- ⊛ Multiple fans unlike a typical tower with one fan
- ⊛ Extended Warranties

