

Summit Energy Saving Free Coolers



What Is Free Cooling?

Water chiller systems are selected to supply a constant water temperature in the Summer time and to achieve this they utilize a high energy use compressor. As most of the year UK ambient temperatures are much cooler, chillers are inevitably oversized for over 70-80% of their operating time over the year.

By adding a Summit Retro-Fit Free Cooler to an existing chiller system massive amounts of energy can be saved on chiller running costs. Return on investment is outstanding with payback from energy savings being achieved in as little as 6-12 months.

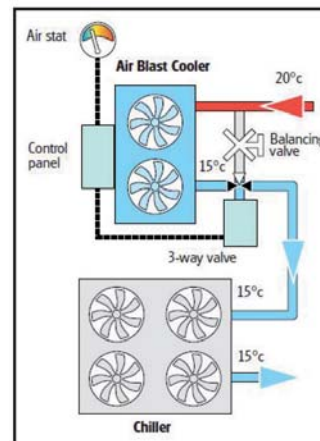


Why Choose a Summit Free Cooler?

- ⊕ Huge Savings in Energy & Running Costs on Existing Chiller Systems
- ⊕ System Pay Back in 12 Months or less
- ⊕ Compact Plan Area
- ⊕ Summit's Free Coolers include Automatic Control
- ⊕ Extended Life on Chiller
- ⊕ Simple Retro-fit Units
- ⊕ Lower Carbon Footprint and Improved 'Green Profile'
- ⊕ Summit Free Coolers have a 24 month warranty as standard
- ⊕ Summit Equipment is designed to ISO 9001: 2015 and CE marked



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Full FreeCooling

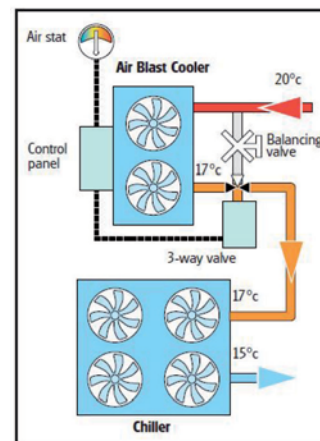
Total power consumption 10.4kW
 Power saving 83%

150kw Air Blast Cooler

Cooling load 150kW
 Power Consumption 10.4kW
 12°C ambient air temperature

150kw Chiller

Cooling load 0kW
 Power Consumption 0kW
 12°C ambient air temperature



Partial FreeCooling

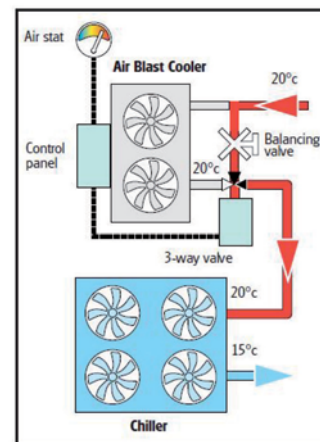
Total power consumption 34.4kW
 Power saving 43%

150kw Air Blast Cooler

Cooling load 91kW
 Power Consumption 10.4kW
 15°C ambient air temperature

150kw Chiller

Cooling load 59kW
 Power Consumption 24kW
 15°C ambient air temperature



No FreeCooling

Total power consumption 60kW
 Power saving 0%

150kw Air Blast Cooler

Cooling load 0kW
 Power Consumption 0kW
 18°C ambient air temperature

150kw Chiller

Cooling load 150kW
 Power Consumption 60kW
 18°C ambient air temperature