

# Summit-TPC Energy Saving Free Coolers



## What Is Free Cooling?

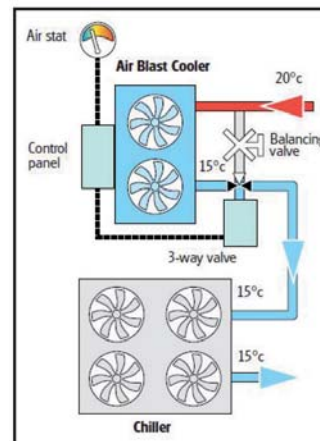
Water chiller systems are selected to supply a constant water temperature in the Summer time and to achieve this they utilize a high energy use compressor. As most of the year UK ambient temperatures are much cooler, chillers are inevitably oversized for over 70-80% of their operating time over the year.

By adding a Summit-TPC 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-TPC Free Cooler?

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



### Full FreeCooling

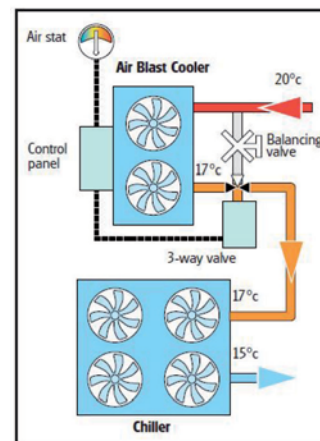
Total power consumption 10.4kW  
Power saving 83%

### 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

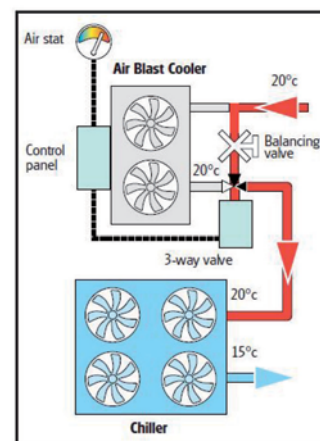
Total power consumption 34.4kW  
Power saving 43%

### 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



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