



Celsius Evaporative cooling - Premier Foods Manor Bakeries

Celsius have designed, supplied and fitted 12 Celsius EcoCooling Evaporative coolers to 12 Air Handling Units (AHU's) on the roof of Manor Bakeries, Barnsley.

The existing refrigeration based cooling system has been decommissioned and the Packaging Area is now solely cooled using the Celsius Evaporative cooling system.

Each Celsius EcoCooler can provide upto 40KW of cooling for an electrical input of only 1.2KW, saving both money and carbon emissions.



Following commissioning the system was tested and monitored.

External Ambient = 23C° (warm sunny clear day)

Air temp off cooler = 16.6C°

Air volume through cooler = 4.47m³/s

Present Cooling capacity = 34KW per cooler

Total System capacity = 12 coolers x 34KW = **408 KW**

Due to the modular nature of the design it can be expanded as the internal equipment within the area increases, easily coping with the increased heat emissions.

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