

# Case study 313

## Chilled Storage For Potatoes

In the agriculture sector, keeping crops and other produce at the right temperature is vitally important for its longevity, condition and edibility. Failure to do this can lead to an increased rate of deterioration and cause storage losses, ultimately costing farmers money. Spoilage is generally caused by the growth of mould or insect activity, and this is normally related to the moisture content and temperature of the product in question.

Andrews Air Conditioning Hire have been provided a major arable farming company with high performance FC90 chillers to help control the conditions of its storage facility. Our client – based in Lincolnshire – requires cooling on an annual basis to help overcome seasonal heat and ensure seed potatoes are stored in an environment which is conducive to the process. Having worked alongside the customer for a fairly long period of time, we understand their specific requirements – and therefore how best to protect the yield.

Each year, a single FC90 chiller is recommended for this project, with a number of the unit's features making it ideal for cold stores and similar applications. This particular model is extremely simple to set up, meaning it can be in operation within minutes of delivery. Also, given that the equipment needs to be in use 24 hours a day, being economical to run is an essential characteristic.

The FC90 represents an excellent solution to what could theoretically be a huge problem during a cycle of peak output. Our cold storage system helps to prevent excessive sprouting while avoiding the development of viral and bacterial agents within the crop itself.



Power supply 415 V 3 ph N+E 50 Hz Run 37 A/h  
Noise level (max) 73 dBA @ 1 metre  
Indoor Weight 497kg/ Outdoor Weight 360kg  
Indoor Dimension 1,730 x 1,250 x 1,600 mm  
Outdoor Dimension 1,196 x 1,032 x 1,616 mm  
Plug type 63 A 3 ph N+E  
Line length 15 metres (max 2 = 30 metres)  
Nominal cooling duty 26.3 kW 96,000 btu  
Control Automatic Thermostat  
Operating temp range -10°C to +30°C



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