# Case study 526

# Dehumidification hire protects fuel tanks

When the time came for a large industrial company to service their fuel storage tanks, Andrews Dehumidifier Hire was called in to offer our expertise.

Fuel storage tanks require careful maintenance in order to keep them in a top class condition. This process often involves exposing the interior steel surface by blasting off its protective coating so welding repairs can be carried out. Once the initial cleaning and repairs have been completed, the steel surface is then recoated with a protective paint coating. During the servicing process the steel is exposed and at high risk of corrosion from humid air as well as moisture from within the tank.

Following a thorough comprehensive site survey, our specialists recommended a tailor made solution for the customer, which included the hire of two KT2000 desiccant dehumidifiers and one DE190 electric heater.

The dehumidifiers were ducted into the back of the DE190 heater where they pulled in the ambient air and dried it to a very low relative humidity. The dry air was then ducted through the heater and into the middle of the tank. This warm, dry air created a positive pressure, collecting moisture from within the tank before being forced out through an opening in the tank ceiling and thus removing all the excess moisture from the interior. The steel surface was also heated in order to allow new coatings to cure.

Without our solution our client could not have completed the maintenance and recoating of six storage tanks without damaging the steel surface and the new protective coating would not have cured in time. The customer saved a considerable amount of time with our dehumidifier rental solution and was able to move on to their next project in a timely manner.

Power supply 415 V 3 ph
Noise level (max) 82 dBA @ 1 metre
Weight 225 kg
Dimension 1,290 x 890 x 1,050 mm
Control Humidistat option
Plug type BS4343 5 pin 32 A
Average power consumption 20 Kw/hr
Generator size26 kVA

ANDREWS DEHUMIDIFICATION

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