

# Heap pump system reduces costs for Sheffield restaurant

When restaurant chain Carluccio's wanted to reduce their energy bills as well as their carbon footprint, it was an air-to-water heat pump system that provided the ideal sustainable solution.

Installers, FWP Air Conditioning and distributor Oceanair were asked to install a system which would provide the desired volume of hot water, at the correct temperature while at the same time reducing energy costs.

Following a consultation with Carluccio's, it was decided that their new site in the Meadowhall shopping centre in Sheffield would be the ideal location as it had the correct attributes for the installation of an air-to-water heat pump system.

FWP installed a 12kW Panasonic Aquarea T-CAP mono bloc unit which would allow for the free air from the kitchen roof space to be



transferred through condensing unit providing hot water at the optimum temperature. With a high coefficient of performance (COP), for every kW of electricity the system uses, it

provides 4kW of energy. This makes the Aquarea far more cost effective than a conventional heating system.

Meters were installed on the units to monitor energy use of the heat

pump and immersion heaters since it was installed. Commenting on the savings achieved, Tony Evanson from Oceanair said: "When Carluccio's compared the Sheffield site to one of their existing restaurants of a similar size, the energy savings were considerable. To heat the water for their Leeds restaurant cost £3,782 whilst at the Meadowhall site the comparable cost was just £951. These sizable savings mean the site will see a return on investment in about 2 years and has achieved a COP of about 3.91."

Compact mono-bloc air-to-water heat pumps are perfect for where space is at a premium as it was in the restaurant. Panasonic's Aquarea 12kW mono-blocs combine the outdoor and indoor units into one package that is simple to install and easy to operate.

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