

PROJECT CASE STUDY

PROJECT NAME	A10
LOCATION	Former MOD Facility, Farnborough
PROJECT TEAM	Evangelos Metaxas, Tim Mitchell (Sales) ; Paul Davis (Project Manager)
EQUIPMENT	2-off GEOCLIMA TMA..4Z.1200A (1.2MW ea) Air Cooled Chiller with HFO 3-off ARMSTRONG 4300 IVS 33kW Chilled Water Pumps Supporting Steels Structure Chilled & Condenser Water Pipework
COMPLETION	March 2015
CONTACT DETAILS	Confidential via Klima-Therm
CONSULTANTS	MOTT McDONALD
TYPE OF PROJECT	Plant Replacement / Enhancement Replacing 3-off York Water Cooled Centrifugal chillers Replacement required due to age of existing equipment, space liberation and environmental/running cost considerations.
DESCRIPTION	To replace 3-off chillers and associated pipework without loss of services. Key client requirement was that at all times during the replacement chilled water services must be maintained The plant room is situated in a ground floor energy centre. The space was earmarked for other new plant and it was decided to relocate the chillers on the building roof. This entailed turning the existing chilled water pipework through 180° and running it to the roof. A new steel support structure was designed and installed to take the new chillers, which each had local “shunt” pumps built in. HFO refrigerant was chosen to provide exemplary environmental protection. The chilled water pumps were changed for inverter-driven variable speed pumps to further improve system efficiencies. To complete the environmental focus of the project, the platform lighting is LED based and installed to maximise lighting in the work areas. These two machines are the largest air-cooled HFO-based chillers in the UK

