

# PROJECT CASE STUDY

<b>PROJECT NAME</b>	Project Soter for The London Stock Exchange
<b>LOCATION</b>	City of London
<b>PROJECT TEAM</b>	Tim Mitchell (Sales) ; Paul Davis (Project Manager)
<b>EQUIPMENT</b>	4-off GEOCLIMA TMH.1400.34.SP (1.4MW ea) Water Cooled Chiller 4-off ARMSTRONG 4300 IVS Sensorless 18.5kW Chilled Water Pump 4-off ARMSTRONG 4300 IVS Sensorless 22kW Condenser Water Pump Chilled & Condenser Water Pipework
<b>COMPLETION</b>	April 2014
<b>CONTACT DETAILS</b>	Confidential via Klima-Therm
<b>CONSULTANTS</b>	MEIT Consultants
<b>TYPE OF PROJECT</b>	Plant Replacement / Enhancement  Replacing 4-off York Centrifugal chillers on R1234  Replacement required due to age of existing equipment, refrigerant type and environmental/running cost considerations.
<b>DESCRIPTION</b>	To replace 4-off chillers and associated pumps and pipework without loss of services.  Key client requirement was that at all times during the replacement works one chiller must be running with a second available to run on stand-by.  The plant room is situated in a fifth floor plant room with limited double door access through a pump ante room. All plant has to be transferred from the goods bay via a scissor lift; through the building and to the fifth floor via a small goods lift with 3-tonne limit.  It was necessary to decommission, disassemble and remove each York chiller in turn, bringing the replacement Geoclima chiller into the plant in sections - designed to meet the weight and size limitations of the site. It was necessary to cut into sections in-situ the York chiller heat exchangers to meet the size/weight limitations.  Interconnecting chilled and condenser water pipework was modified to suit each time, and in a separate concurrent activity the chilled and condenser water pumps were also changed.  The result is four very small footprint chillers each with a 1.4MW Cooling Capacity, using Turbocor TT500 compressor and flooded evaporator technologies for optimised efficiency.

