

1-2 Harbour Exchange

Harbour Exchange London E14

The Project

Replacement of existing roof mounted air cooled chillers

Contract Value:
£1.2 Million

Contract Period:
6 Weeks (Construction Phase)

Services Provided:

- Strip out of redundant services and plant
- Replacement air cooled chillers
 - Plant testing and commissioning
 - Plant handling and specialist cranae
- Small power installations
 - Trace heating
 - Thermal insulation
 - Support steelwork
 - Mansafe systems
- Roofing fabric modifications
 - Water treatment
 - Bms modifications
- Prefabricated pipework
- Waste management and recycling

Consultant:
Hoare Lea

Project Managers:
Cushman & Wakefield

Client:
Hammerson Ltd



Skanska's Specialist Works team carried out the replacement of eight carrier air cooled roof mounted chillers. The existing chillers, installed seventeen floors above ground, were removed utilising a 500 ton mobile crane. The new chillers were rated at 712kw of cooling duty and weighed in at 8000kg. In conjunction with the replacement of the existing chillers, new pipework, support steelwork, electrical services and BMS modifications were implemented.

The requirements of the installation programme were challenging. The works took place over four consecutive weekends with the cooling supply to the building being maintained to minimise disruption to the occupants. During weekend one the first two chillers were removed and a pair of new ones were lifted to roof level and positioned. The two replacement chillers were commissioned and fully operational by the end of that week. Each subsequent weekend, the same procedure was carried out culminating in all systems being fully commissioned and operational within the timescale stated and prior to the forthcoming summer temperature conditions.

The new chiller support steelwork and pipework were pre fabricated off site and available for immediate assembly thus helping to minimise the installation period on site. □