

TYPE: Renovations | SECTOR: Offices

Lloyds Bank

Chatham, United Kingdom

3.3
tonnes per year
Total fossil
fuel carbon
saving

A future saver: ELCO heat pump installed at high street bank.

Staff at the Lloyds Bank in Chatham, Kent, are benefitting from highly sustainable heating, thanks to the installation of a new 48kW AEROTOP® M heat pump from ELCO Heating Solutions. The new heat pump has replaced ageing and inefficient gas boilers, with the new unit providing a zero NOx system and highly efficient heating throughout the office building.

The challenge

Located on the roof of the three-storey building, the new ELCO heat pump is providing space heating to the main office areas on the second and third floors, as well as stairwells and washrooms. To accommodate the lower flow temperatures of the AEROTOP® unit, the refurbishment also included the upgrade of heat emitters to Type 33 radiators. The system is now delivering highly efficient heating, and is part of the Lloyds Banking Group's desire to remove inefficient systems from its property portfolio and be carbon neutral by 2030.

Testimonials

The M&E consultants for the project were Mitie, with the ELCO AEROTOP® heat pump specified by Project Manager Steve Bell. Commenting on ELCO, Steve said: "We have previously fitted ELCO boilers on many jobs in the past, but this was the first time we had used their heat pumps - and we've been really impressed. We were recommended the AEROTOP® unit by Alan Hough, the local sales manager, and after comparing the specification and performance against our usual supplier, it made complete sense to use it on this project. It's now up and running and operating perfectly."

Featured products:

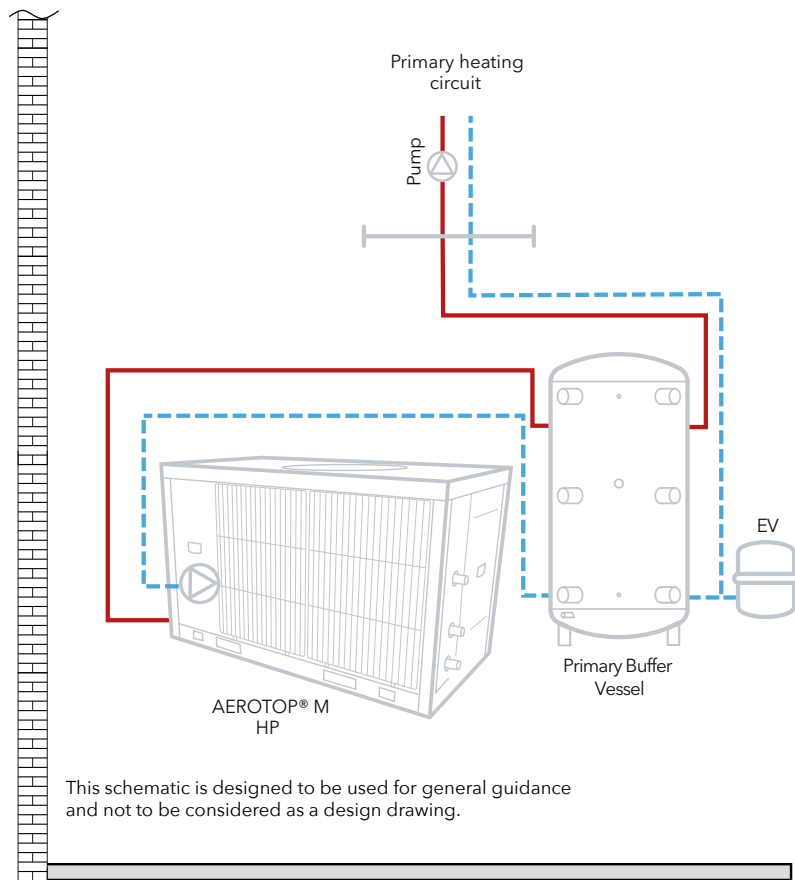


AEROTOP® M reversible heat pumps are available in outputs from 24kW to 48kW per unit. They can be cascaded up to 16 units and managed through the built in controller. The AEROTOP® range also extends to 'L' models which can deliver outputs from 54kW to 88kW per unit.

- ▶ R32 refrigerant
- ▶ Cascades
- ▶ ECO mode
- ▶ Quiet operation
- ▶ Reversible
- ▶ SCOP up to 4.3% (W35) and COP up to 3.3%
- ▶ Extended operation range
- ▶ Integrated components



System schematic



Installation

The heat pump was craned into position on the rooftop and connected to the existing heating system. Plus, thanks to the built-in protocols of the AEROTOP® unit, it was easily synchronised to the BMS to allow centralised control of the heat pump's operation.

“After comparing the specification and performance against our usual supplier, it made complete sense to use the AEROTOP® heat pump on this project.”

Steve Bell, Project Manager - MITIE

The plant scheme:

- ▶ 1 x AEROTOP® M48
- ▶ 1 x VISTRON® G500

Benefits

AEROTOP® M48

up to
4.3 (W35)
SCOP

A++
ERP (Energy
Efficiency
Class)