



Taper Studios, London

Taper's business services are out of mind for residents upstairs

Delivering air conditioning and ventilation for multiple commercial tenants at the base of a substantial inner-city apartment building calls for clever engineering to ensure that residents living above are not inconvenienced by machine noise.

At the newbuild Taper Building on Long Lane, in London's trendy Bermondsey, the services are in for the business tenants, and out of mind for the apartment occupants.

Taper Studios is a development of 12 two-storey office units owned by Workspace, catering to small and medium-sized businesses needing between 120m² and 550m² in central London.

Each of the units has its own street access, internal staircase, tea point and toilet. In keeping with other new office projects in Workspace's London portfolio, Taper Studios features exposed ceiling-mounted services including ducting, ventilation units and fan coil units.

The units are individually served by Daikin Sky Air systems of varying capacity, incorporating

R32-based Bluevolution technology. Offices are ventilated by Daikin VAM total heat exchange units which are installed beneath the upstairs ceilings. All these systems were installed by Daikin D1+ Partner, 360 Engineering as part of the project's Category A fit-out.

Eleven of the units have two systems – one for each floor. The 12th and largest unit has two systems for its ground floor and four for its upper floor. Two other systems serve two communications rooms through wall mounted indoor units.

Operating costs of each system are the tenants' responsibility. They have full control of their systems via Daikin Madoka controllers, which provide a stylish complement to the basic interior design of the units.

Year of installation

› 2019

Project requirements

- Air conditioning
- Air curtain
- Air purification
- Control
- Heating
- Hot water
- Refrigeration
- Ventilation

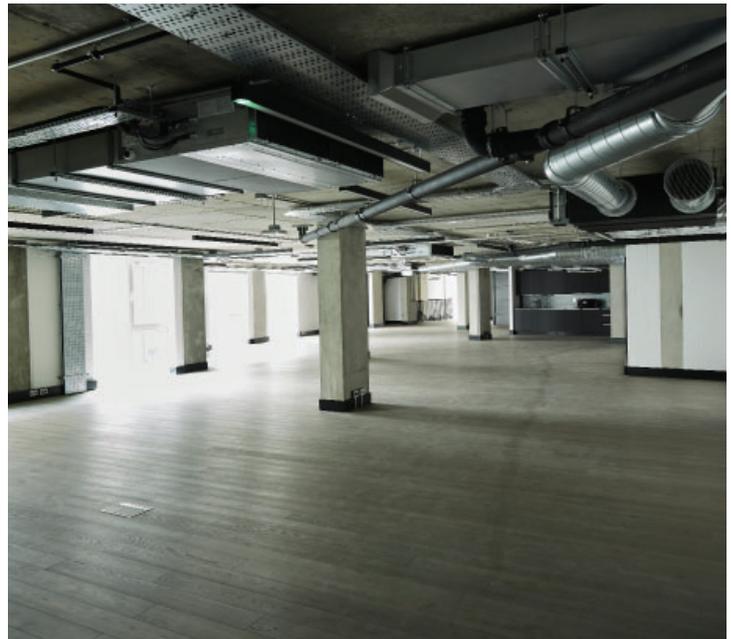
Installed systems

- › VAM Heat Exchanger
- › Daikin Sky Air Alpha
- › Daikin Sky Air Advance
- › Daikin Madoka Control
- › Wall Mounted Unit
- › Concealed Ceiling Unit

Kahroon Tanvir, Senior Product Manager for Workspace says:

“While designs for the internal services were not especially constrained by height, the choice of Daikin systems was helped by the fact that its indoor units were 52mm shallower than competitors’.

It’s not a big difference, but we believe it is important to give tenants as much headroom as possible. Even just 52mm adds to the feeling of spaciousness.”



The four-storey, U-shaped residential component is built above a two-storey ‘box’ with the commercial units around its perimeter and residents’ parking in its centre. The roof of the box provides a central courtyard garden overlooked by apartments on the inside of the U.

Katie Floyd, sales director at 360 Engineering, says the challenge was to locate the outdoor units as close to the offices as possible, but without creating an ongoing disturbance – or spoil the outlook – for the residents.

She says: “The solution was to install half the outdoor units at high level in the car park, which is naturally ventilated. Ideally, all the units would have been there, but there was concern that the car park might become unpleasantly hot from discharged heat when all the units were at maximum output in cooling mode. So the other units are out of sight in an adjacent external walkway.”

Supply ventilation for the VAM units is taken from the courtyard garden, with some complex ductwork to reach the offices.

Kit List

Code	Description	No of units
RZASG-MV1	Daikin Sky Air Advance Outdoor Unit	8
RZASG-MY1	Daikin Sky Air Advance Outdoor Unit (twin fan)	16
RZAG-MV1	Daikin Sky Air Alpha Outdoor Unit	4
RZAG-MY1	Daikin Sky Air Alpha Outdoor Unit (twin fan)	2
FBA-A	Concealed Ceiling Unit with Medium ESP	28
FAA-A	Wall Mounted Unit	2
VAM-FC/J	Daikin VAM Total Heat Exchanger Unit	12
BRC1H519K	Daikin Madoka Wired Touch Screen Controller	30



Daikin Airconditioning UK Ltd The Heights Brooklands Weybridge Surrey KT13 0NY Tel: 01932 879342

To see our full range of case studies please visit our business portal my.daikin.co.uk
If you have a project that you would like turned into a case study please contact marketing on marketing@daikin.co.uk