

CASE STUDY

THE PROJECT

FLAXMAN GALLERY, MAIN LIBRARY,
WILKINS BUILDING,
UNIVERSITY COLLEGE LONDON
GOWER STREET, LONDON WC1

ARCHITECTS

BURWELL DEAKINS ARCHITECTS

BUILDING SERVICES CONSULTANTS

FOWLER MARTIN LTD

THE HEATING SOLUTION

MINI CANAL TRENCH HEATING

THE DETAIL

University College London (UCL) has an unrivalled collection of works by the Neo-classical sculptor John Flaxman that were originally donated by his family in 1847 and are now housed in the purpose-built Flaxman Gallery under the cupola of the main UCL Library. At the centre of the gallery is an eleven foot high plaster model of Flaxman's most famous statue depicting St Michael overcoming Satan which also provided the location for a key scene in the Oscar-winning film "Inception".

A structural glass plinth supports the statue over the oculus at the heart of the Grade 1 listed building which affords visitors views between the Flaxman Gallery and the Octagon gallery below. In architects Burwell Deakins' refurbishment of the gallery in 2012, contemporary wooden bench seating with bronze legs was added around the statue's circular plinth. A further part of the refurbishment saw building services consultant Fowler Martin introduce Jaga Mini Canal trench heating flush with the floor under the bench seating to warm the gallery making it an even more attractive place to linger and contemplate for students and visitors alike.

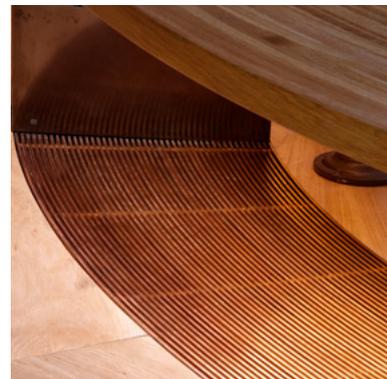
In addition to the grand architectural history of the building, what marked this project out as being special was the requirement that the grille should be solid bronze to harmonise with other architectural accents and the extremely tight radius for the trench heating which was required to follow the line of the bench seating above.

Jaga's design solution was to build the circular trench in four quadrants. The highest quality bronze was sourced from France and the grilles were entirely hand-crafted with tightly spaced, slim-line slats held in place with screws at the ends to achieve the tight radius. The trench units were delivered to UCL fully assembled, factory pressure-tested, and beneath the grilles feature Jaga Type 15 Low-H2O heat exchangers. These are fast to respond and powerful enough to serve as a primary heat source when required. Jaga Mini Canal ducts also fit into recesses as shallow as 90mm suiting the trench heating for retrofitting in older buildings as well as installations in new builds.

In time the grilles in the Flaxman Gallery will oxidize to a classic dark brown colour to match the benches' bronze supporting legs, the bronze reinforcements to the plinth and also the bronze handrails on the helical concrete staircase which connects the Wilkins Building's different floors.

ABOUT JAGA

Founded in 1962, Jaga is an award-winning manufacturer of innovative, energy-saving, heating and ventilation solutions. In the UK, Jaga products include LST (Low Surface Temperature) radiators, trench and perimeter heating and eye-catching designer radiators. Based on the unique and patented Low-H2O heat exchangers, which carry an industry-leading 30 year guarantee, Jaga radiators offer a proven energy saving of at least 10% compared to traditional steel panel radiators and are the environmentally-aware, preferred choice of many who value energy efficiency. Jaga heating solutions work well with low temperature heating systems, and the product range includes the only radiators designed specifically to work effectively with heat pumps. Visit us at www.jaga.co.uk



FOR FURTHER INFORMATION CONTACT

Jaga Heating Products Ltd
Orchard Business Park – Bromyard Road – Ledbury, Herefordshire HR8 1LG

T +44 1531 631533 – F +44 1531 631534 – jaga@jaga.co.uk – www.jaga.co.uk

TECHNICAL SHEET

MINI CANAL

The Mini Canal is available in depths starting from just 90mm to 500mm making it ideal for providing supplementary or primary heating across multiple storeys or floating floors. All Mini Canal products are factory pre-tested and are delivered fully-assembled ready to install.

Features

- Rapid heating up speed due to the low mass and low water content
- High heat output is achieved with normal and low flow temperatures
- Low-H₂O heat exchanger, which is made from copper and aluminium that is non-corrosive
- 30 year guarantee

Colours

Mini Canal grilles are available in a wide range of materials and colours. Please refer to www.jaga.co.uk for further details.

High Efficiency

Thanks to the low mass and low water content and high coefficient of heat conduction for low flow temperatures, Mini Canal with its Low-H₂O element is ideal to use in combination with high efficiency boilers and/or condensing technology.

REFERENCE PROJECTS

7 More London
The Mailbox, Birmingham
Coin Street Neighbourhood Centre, London
Coventry University
DEFA, Isle of Man

Lancaster University
Liverpool John Moores University
QVC, London
Trinity College, Dublin
University of Wales, Newport



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