

CASE STUDY **V&A Museum - RHE**

A Low Profile Perfect Fit for Awkward Ceiling Voids

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Situation

The world's leading museum of art and design, the V&A Museum, appointed Consultancy Webb Yates to carry out significant design upgrade work to its ventilation systems to provide heating and cooling for the staff kitchen and back of house area. A small window provided the only access point to the installation area in the courtyard. S&P UK was selected to supply a heat recovery unit that could fit through the small access point and meet the bespoke requirements of the building. In addition, due to the outdoor environment, the unit needed to be able to weather robust conditions.

Solution

S&P provided a full site survey and we recommended our RHE 2500 which can be transported in 15 separate components weighing up to 34kg per piece. We adapted our reliable and flexible unit by adding a Weather Lid and Electric Heater for the colder winter months. Our expert engineers visited the site to build the unit from flat-packed form and later returned to set up the controls and guide the installation contractors team on how to use the system.

Benefits

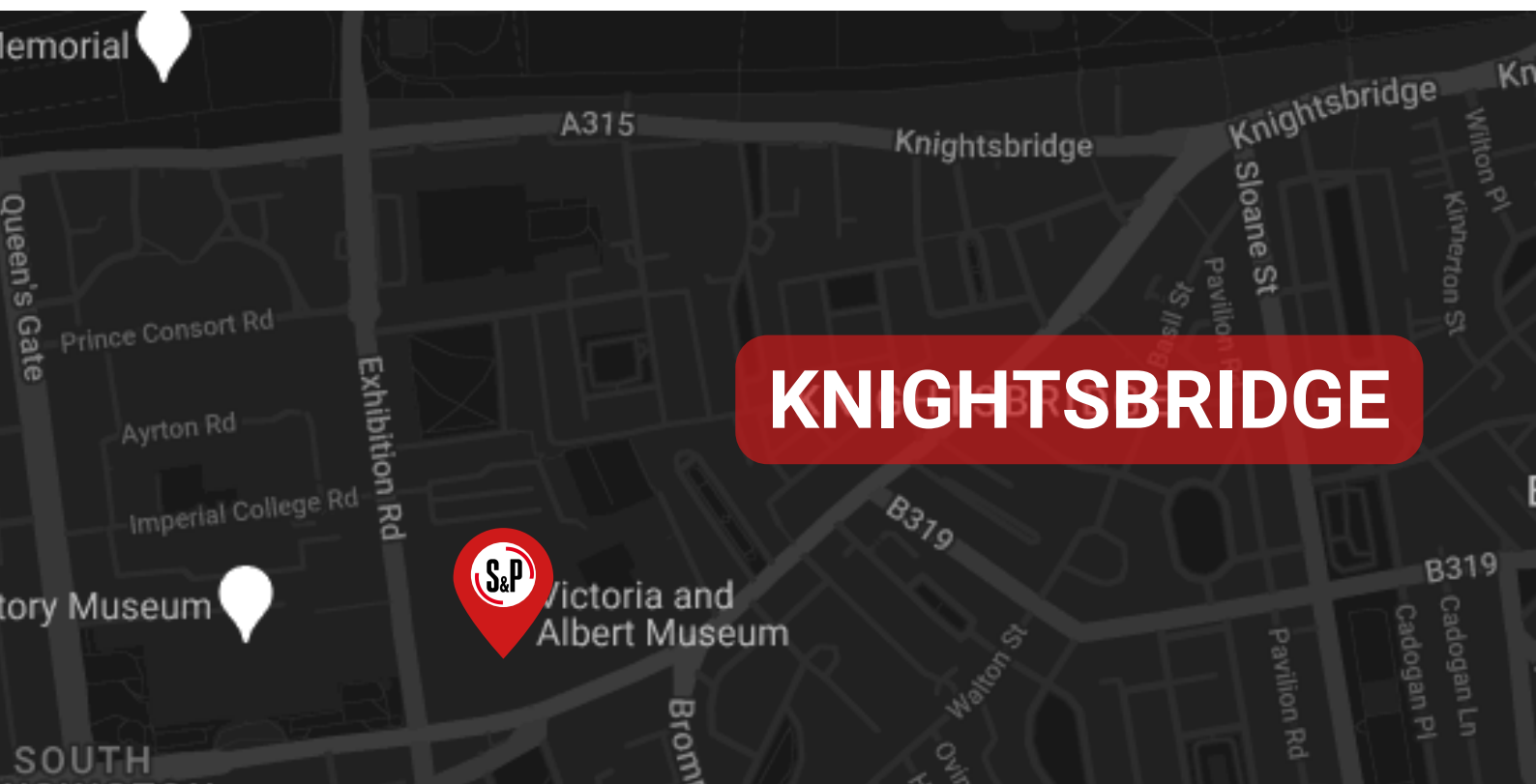
Not only can the RHE 2500 be delivered in a flat packed form – which was ideal for the V&A – this product is part of a wider range of RHE units that can also be flat packed. Our heat recovery units are highly efficient and have the ability to be adapted to suit individual air flow requirements – providing up to 4m³ per second of fresh air. General levels of ventilation and indoor air quality will be enhanced alongside the ability to heat and cool the room to desired temperatures.

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We were referred to S&P UK who were quick to establish the appropriate unit for this project having been provided with full details of the air flow requirements together with the measurements of the space we had to pass the unit through. S&P UK provided an impeccable service throughout with attention to detail from the build of the unit itself right through to the aftercare of the product.”

Mark Freeman

Electrical Design Engineer at Webb Yates



Technical S&P UK's RHE series offers up to 88% efficiency with rotary wheel, plug-fans with backward curved blades and EC external-rotor motor. These units are suitable for a variety of settings such as public buildings, offices, shops, schools and restaurants and come with a pre-configured control system for easy start-up.

Sizes: 700m³/h, 1300 m³/h, 1900 m³/h, 2500 m³/h, 3500 m³/h, 4500 m³/h, 6000 m³/h, 8000 m³/h, 10000 m³/h and 15000 m³/h.

Models:

- **RHE D:** without additional heater
- **RHE DI:** with built-in electric post-heating
- **RHE DC:** with built-in hot water coil
- **RHE DFR:** with 2-row coil built-in reversible hot/chilled water integrated (the cold water coil version is only for the HD models)
- **RHE DFR4R:** with 4-row coil built-in reversible hot/chilled water integrated (for models 6000, 8000, 10000 and 15000)
- **RHE DC/DF:** with 2 independent integrated coils (chilled water and hot water)
- **RHE DX:** direct expansion integrated coil (only for horizontal discharge, HD versions, except for models 15000)



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This project was so unique as we were given such a tight space to work with. It was the perfect opportunity to showcase our new flat pack version of the RHE series which could be sent through a window and built within a small courtyard

Luke Mulford

National Building Services Project Manager, S&P



Interested in discussing these projects further or exploring potential opportunities? Reach out to Luke Mulford, National Building Services Project Manager

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