CASE STUDY City College Norwich Digi-Tech Factory - RHE

Expanded new RHE 15000 heat recovery unit delivers first-class ventilation for UK-leading Digi-Tech Factory

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Situation

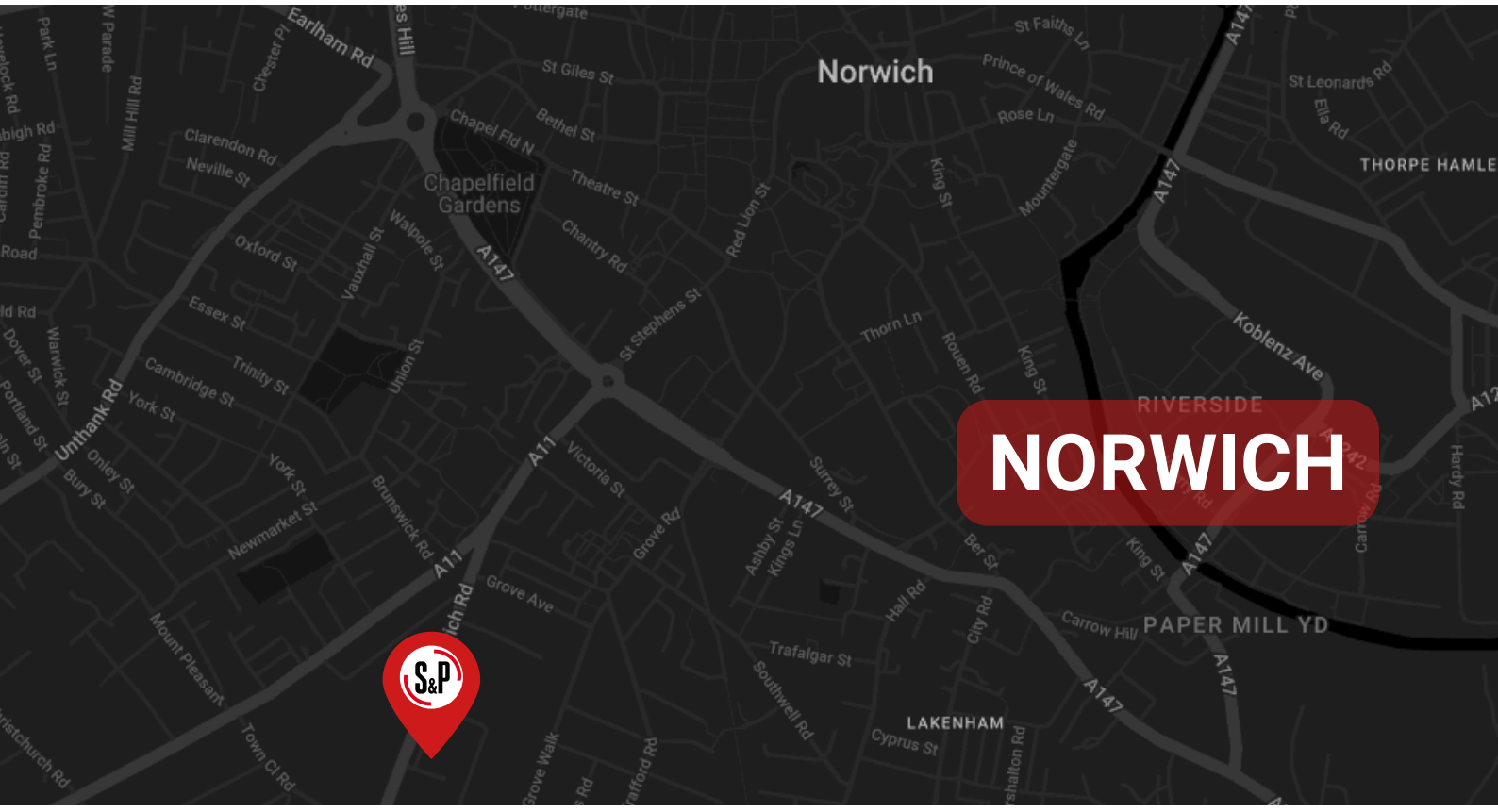
City College Norwich launched exciting expansion plans to create a new three-storey £11.4 million Digi-Tech Factory to train the next generation of the region's skilled digital workforce. The digital technology hub needed cutting-edge sophisticated ventilation to provide the highest standards of Indoor Air Quality across the stunning 220-tonne teaching and learning space.

Solution

S&P UK was appointed by local Mechanical and Electrical (M&E) contractors to specify the bespoke ventilation requirements. Following in-depth analysis, our recommendation to supply our newly-expanded RHE 15000 was given the go-ahead. The heat recovery unit provides the highest rate of airflow for large spaces, indoors or outdoors, and is capable of pumping 4 m³ of fresh air per second. The customised RHE 15000 – the size of a car and weighing around 1.75 tonnes – was delivered on time and craned onto the roof where we helped to install the unit. It will be maintained to the highest standards under our two-year warranty.

Benefits

The RHE range uses a Thermal Wheel Heat Recovery along with backward curved impeller and EC external-rotor motors to achieve optimal thermal effi cacy with a sophisticated control system. All units feature a preconfi gured control system for easy start-up. Students, teaching staff and visitors can enjoy UK-leading Indoor Air Quality. They benefi t from the reassurance of working in a world-class education setting that has fresh air being pumped in constantly around all areas to help reduce the risk of spreading any airborne diseases while promoting various health benefi ts and increasing highquality productivity.



S&P VENTILATION SYSTEMS

Air Handling | Heat Recovery | Inline Duct | Acoustic Fans

S&P UK's RHE heat recovery range, including our new RHE 15000 capable of 4 m³ per second of fi ltered fresh air, provides effective and balanced ventilation for the occupied space with 88% heat recovery efficiency. The units are robust and reliable, achieve desired levels of comfort for building users, and signifi cantly improve energy-efficiency by recovering the heat of the stale air that is being extracted.

- Casing is made of 50mm self-supporting double skinned panels (mineral wool, 40kg/m3, thermal conductivity 0.037W/mK)
- Outer skin is made from coated steel (RAL7024) with a high resistance against corrosion (class: RC3) and UV light (class: RUV3) according to EN 10169
- Inner skin is made from galvanised steel
- Support feet are made from 3mm, RAL9011 coated, 100mm height (except RHE 6000 to 10000 models which are base-mounted), with option to fi t anti-vibration mounts or levelling feet (as accessories)
- Easy access to all components via large hinged front doors
- Circular inlet and discharge connection fl anges with EPDM rubber seal strip, VELODUCT© tightness class D up to size 3500 HD, rectangular connections for the sizes 4500 VD, 6000, 8000, 10000 and 15000

"Our new expanded RHE 15000 can be supplied as standard or customised to meet bespoke needs. For this state-of-the-art project, our technical experts worked with the M&E contractors and recommended the most suitable heat recovery unit based off drawings provided, and supported right through to on-site installation and product after-care."

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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