

03 CASE STUDY Steam

MANCHESTER UNIVERSITY Prefabricated Boiler House

Turnbull & Scott™

Our Spec

2 x BIB Cochran
Little Cheftan 1.4 Mw
gas fired steam boilers

A 5,000 Ltr stainless
steel insulated hotwell
tank manufactured by
Turnbull & Scott

An automatic
blowdown system with
a 1,000 Ltr blowdown
vessel

Background

The University of Manchester is a public research university with around 40,000 students. It is located in the city and its' buildings are integrated into the fabric of Manchester.

Project

When the University was planning the build of a new boiler house the prospect of a construction project on a busy campus was a major challenge in respect of the inconvenience anticipated

Solution

Turnbull & Scott provided a containerised Boiler house which was fabricated off site and delivered as a complete solution, ready to 'Plug & Play'.

The complete containerised boiler house is regularly required in a variety of situations such as –

- Where internal space is at a premium and siting the boiler house/plant room externally frees up vital real estate, (e.g. Care homes, Hospitals, Hotels etc.).
- Where a major on-site construction project would be overly disruptive
- Where the operations 'shut-down' time at site must be kept to a minimum.
- As a project, the Manchester University boiler house was additionally challenging as it was larger than normal.



03 CASE STUDY

Steam

Measuring over 4m in height and with an area of 64m², Turnbull & Scott installed the following -

- 2 x BIB Cochran Wee Chieftain 1.4Mw gas fired steam boilers.
- 5,000 ltr stainless steel insulated hotwell tank manufactured by Turnbull & Scott.
- An automatic blow-down system with a 1,000 Ltr blow-down vessel.
- Water softener and chemical treatment plant.
- Gas & steam meters.

Finally, when this 31 ton structure was complete, it was loaded in two sections for delivery to the site in Manchester where Turnbull & Scott crews connected up all the pipe work and commissioned the boiler house in a matter of days.

Benefit to the client

The containerised boiler room solution offered flexibility of design, and the possibility to dismantle and move the system to another location on the campus in the future if necessary.

With over 80 years of boiler installation experience, Turnbull and Scott ensured the project was delivered on time and on budget.

The self-contained boiler house

Turnbull & Scott offer a complete power unit supplied as a self-contained boiler house. Our biomass, oil or gas fired options supply a customised output and can be used in any external location. Everything is ready for connection to the pipework, and normally this can be commissioned with in a day. Ideal replacement for ageing equipment, as back up heat source or to avoid 'shutdown' during conversion to woodchip.

- **Pre-fabricated off site**
- **Delivered complete**
- **Plug-and-play**
- **Ideal for new build or retro-fit**
- **Free up space within your building**
- **Suitable for oil, gas and biomass**

Turnbull & Scott™



MANCHESTER
1824

The University of Manchester