



Engineering Tomorrow's Environment



Get in touch

Visit us in Rochdale to see our vertically integrated manufacturing facilities. We manufacture burners, control panels, boosters and package plant rooms on site.

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Package plant rooms 2025

Off-Site Manufactured Solutions for Heat & Steam Generation



Hydrogen



Biofuels



Ultra Low NOx



High turndown



Hydrogen Ready



Ultra Low NOx



Off-Site Manufacture



Made in Britain

Off site manufacture specialists

Founded in 1964 by Malcolm Dunphy, we are a UK-based manufacturer specialising in burners, plant rooms, control systems, and boosters for heat and steam generation.

With over 60 years of experience, our focus remains on delivering high-quality, energy-efficient equipment designed to meet the evolving needs of our customers.

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Customer successes



Package plant room solutions

Dunphy specialise in off-site manufactured solutions that provide flexibility for customers with unique needs. Each design is tailor made to match the characteristics of individual site availability, fossil and biofuel feeds and the specified generation process (steam, hot water, heat treatment, CHP).



Tailor made solutions

With design engineering teams and a full manufacturing facility, we can offer any solution that you require.



Highly flexible

Our ability to build off site, transport easily and install the solution reduces any project dependencies.



Unlimited scalability

There is no limit to the size of your solution, we have the capacity at our facilities to construct to any plant room requirements.



Complete reporting

We prepare all FDS reports, DSEAR analyses and SIL assessments.



High degree of safety

We are ISO 45001 accredited and SafeContractor approved with a keen focus on health and safety.



Proven track record

We were first to market with these solutions and have been producing them for 15 years.

We have 3 plant room solutions that fit our rigorous design to manufacturing methodology depending on your needs

Modularised Plant Rooms offer complete flexibility to meet specific design requirements for your energy centres



Skid Mounted Energy Centres are plant rooms which are mounted on a skid on site and can be in single or multiple sections depending on your needs



Bespoke Energy Centre Installations provide all of the benefits of off site manufacture, while remaining consistent with your site's boiler house needs.



Design to commissioning methodology

From design through to installation, Dunphy manages the whole process, offering a complete end to end solution



Design

We have an in-house electrical and mechanical design department at our factory in Rochdale. During the initial phase of your project, our Engineering Design team will work closely with you to design a solution that meets your requirements

Manufacture

At our manufacturing site in Rochdale, we will construct your modularised solution



Test

We will complete a full Factory Acceptance Test in Rochdale, where you will be invited to see the solution's performance before it is signed off.

Deliver

The modularised build allows the solution to be picked up and transported easily to site



Install

Once at site, our team will support with the full installation of your kit to the required location on site

Commission

Once installed our engineering team will commission the solution before it is ready to go.



Modularised Plant Rooms

Our pre fabricated boiler houses offer complete flexibility to meet specific design requirements for your energy centres. Suitable for a new plant, or for a complete boiler house redesign and unlimited in size or scale of solution. Our modules will be transported and installed on your site at your desired location.

Modularised plant rooms provide a huge amount of flexibility and can be easily adapted to your needs



Scalability

Every plant room has unique requirements, but due to their modular nature, there is in theory no limit to their size.



Easily relocatable

Should you ever need to move the plant to another location, or expand it, they can be relocated.



Minimal on-site work

Every build requires a period for installation and commissioning, but this is vastly reduced, with our solution being virtually plug and play.



Off site manufacture

With all of the manufacturing done at our plant in Rochdale, the solution can be delivered and installed only when you are ready.

Customers have taken advantage of modularised plant rooms for various needs



This hospital in the North of England needed to generate additional steam capacity, but didn't have space for an additional boiler within their existing boiler house.



Welsh Water has an off site manufacturing policy which requires them to build 75% of their equipment off site and chose Dunphy as a partner to provide a full plant room to generate the steam required for the process.

This WWTW had a requirement to complete the on site build in a short time frame. To achieve this, they required the off site manufacture of almost all features of the site.





Customers have taken advantage of plant room installations for different needs

This hospital's existing plant room for servicing their laundry was outdated. As part of a broader facilities redevelopment, they constructed a new, empty plant room away from the main building and needed a pre-manufactured solution that would integrate seamlessly into this new space.

This customer operated a chemical plant which was designated as a COMAH site. Due to the health and safety restrictions on such sites, they wanted a solution that was manufactured off site.

Bespoke Energy Centre Installations

Our bespoke energy centre installations provide all of the benefits of off-site manufacture, whilst ensuring that you get a solution that is specifically tailored to your needs and accounts for any space constraints that may prevent an alternative approach.

They are fully designed and manufactured at our facility and then broken down into their constituent parts and fully rebuilt on site in your space. This rapidly increases the on-site build time over traditional methods whilst still providing the same level of bespoke service.

Bespoke energy centre installations provide all the benefits of off site manufacture within your specific site constraints



Off site manufacture

With all of the manufacturing done at our plant in Rochdale, the solution can be delivered and installed only when the boiler house shell is ready.



Minimal on-site work

Every build requires a period for installation and commissioning, but this is vastly reduced, with our solution minimising the amount of on-site work required.



Skid Mounted Energy Centres

Skid mounted energy centres are plantrooms which are built on skids in a modular fashion to enable the quick and easy disconnection and reconnection on site. This design allows the plantroom build to be broken down into sizeable chunks that can then be installed into an existing building on site. This approach ensures a swift reconnection time on site. They are fully customisable to suit your individual needs.

Skid mounted energy centres provide the flexibility of a modularised solution within existing plant room constraints



Fit your footprint

Our skids are designed to fit into your existing plant room constraints. Whether it's a full refit with multiple units, or for additional capacity, we can fit them into any space you need.



Modularised solutions

Although they are designed to fit your existing structures, our skid mounted solutions are built in modules, massively simplifying the transport, installation and commissioning stages.

If you are looking to upgrade your existing boiler house, Skid Mounted Energy Centres could provide the optimal solution.



Customers who were looking for the flexibility of an off site manufactured modularised solution, but with very specific space and plant room requirements have benefitted from these solutions.



We can work to any configuration or spec, including single units, multiple units, complete boiler house refits and plant room extensions.



Customer success stories

Customers from across all industries have seen significant benefits through installing Dunphy



Energy centre installation at UK hospital

The site needed to generate additional steam capacity, but didn't have space for an additional boiler within their existing boiler house.

Solution: We provided a fully modularised plant room with a 8000 kg/hr steam boiler and a TDG 5.800 burner with a low NOx head, built off site at our plant in Rochdale.

Additional benefits:

- A reduction in NOx levels to ~70mg/Nm³ on gas
- Ultra low excess oxygen levels of <2% with O₂ trim
- 10:1 turn down on gas



Off site manufacture at WWT facility

We provided an off site manufactured fully modularised package plant room for one of the largest WWT sites in the UK.

Solution: A key requirement was for an Access, Lifting and Maintenance study to be completed within the 3D model before construction, and to complete the whole project without the H&S concerns of onsite manufacture.

Andrew Bowen, Skanska:

“The hard work and dedication that went into this off-site manufacture was truly remarkable. It required meticulous planning, precision engineering, and innovative design to create high-quality products in a controlled environment. A master class in off-site manufacture.”

Off site manufacture at WWT facility

We provided an off site manufactured fully modularised package plant room to generate steam for a Thermal Hydrolysis plant.

Solution: 2 composite boilers generating 4 tonnes of steam from fired side and 1 tonne of steam from CHP engine, with the flexibility to use biogas, natural gas or diesel.

Additional benefits:

- Biogas emissions at <55mg/m³ @ 3% Oxygen
- Natural gas emissions at <85mg/m³ @ 3% Oxygen
- Plant life expectancy of > 30 years.



Off site manufacture for UK hospital

The hospital's existing plant room for servicing their laundry was outdated, and as part of a wider redevelopment they constructed a new plant room away from the main building.

Solution: We delivered a plant room to fit this space, following our 6 stage design to install process. The solution contained three 4.5 t/hr steam boilers and 3 T2 burners with full digital modulation.

Additional benefits:

- High turndown on oil at 8:1
- NOx levels less than 200mg/Nm³, meeting the requirements of the Medium Combustion Plant Directive
- Insight, our advanced touchscreen sequencing system, allowing all three boilers to be centrally controlled

