Admiral House, Newport Presentation and Tour

Thursday 3rd July, 2014



Welcome

Milica Kitson

Chief Executive

Constructing Excellence in Wales





Newport Presentation Culture & Delivery 3rd July 2014

Our Story



Company Information

- Started in 1993
- IPO 2004
- Turnover in 2013 £2.03 billion
- Profit £370 million before tax
- Vehicle count 3.02 million
- UK business employed 5890 people

"People who like what they do, do it better."

Our Culture

Admiral is the 2nd











Our Culture

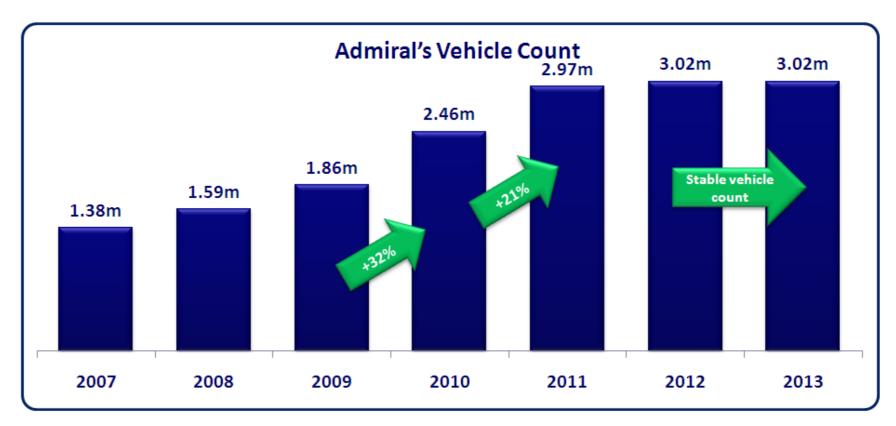


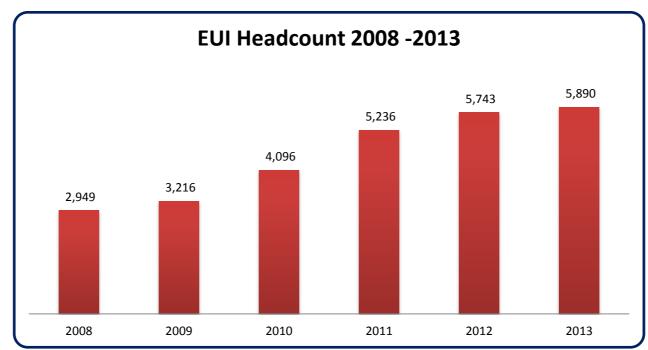


"People who like what they do, do it better."



Staff/Property Growth









- Ease of access to transport links; trains, road, bus, car parking
- Labour Market; continued expansion
- Close to shops and other amenities; banks, chemists, convenience stores
- Welfare of employees
- Sustainable location; low carbon footprint

New Building - Our Vision Design Considerations



- Space Efficient with plenty of elbow room (Avoiding a "call-centre" feeling)
- Designed around our working culture; teams of 12, communication & fun
- Good Acoustic Values
- Proximity to Break-out Spaces (kitchen areas and chill-out areas)
- Communal Areas for fun!!!
- Meeting rooms, training rooms, ad hoc rooms (different types)
- Cycle Storage & showers



Tenants Brief

Tenant vision combined with consultant input; clear requirements around the environment; flexible, fun!, healthy, a nice environment to work in, sustainable, promoting communication between colleagues.

- Led by Technical Specifications and not specific materials; flexibility
- Space requirements 65 sq ft per person, meeting rooms, training rooms, cycle store
- Highlighted the working requirement of working on desking/benches of 6 people with access to a solid wall for notice boards, AV/IPTV and windows for daylight
- Providing our kind of environment; Excellent acoustic rating, designed heating and cooling, access to day light (beyond BCO requirements)
 - Prioritising the stairs over the lifts
 - IT connectivity & Resilience

"People who like what they do, do it better" = a nice environment to work in."

Newport / Project Timeline



2006 - Modus Scheme August 2012 -Planning, Funding & Tenants Brief.. December 2012 – agreement to lease entered in to

June 2014 – SDC finish all internals and Admiral move in!!!















January 2012 – HoT's agreed with SDG

September 2012 – developing the tenants brief alongside HoT's, Funding & SDG January 2013 - SDC start on site

How the team delivered....



 Forward planning – understand what we wanted as a tenant and putting that into the tenant brief



- Communication, Communication, Communication!!!
- The right team; Admiral + SDG + Consultants + SDC
 = Partnership to deliver the product
 - Flexible attitude to design change, material change, value engineering
- Quick or timely; decision making from the tenants team



Finally, testament to SDG and Admirals relationship: The lease isn't signed, We're all here by invitation!





The Masterpan

















Parametric Design with AireCAD

Hywel Boucher

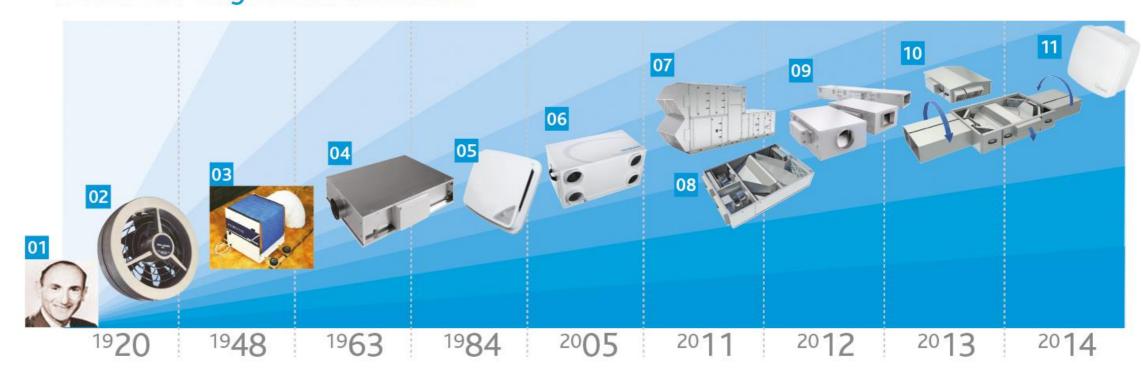
National AHU Technical Engineer – Nuaire Group

Nuaire Leading The Way





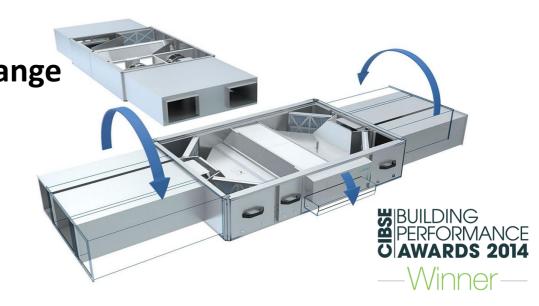
Nuaire's Pedigree in Ventilation



BOXER BESPOKE







Targets for the Admiral



Venables Associates

Building Services Engineering Consultants

- Ventilation rate:
 - 16.7 m³/sec of fresh air (24 Olympic pools/hour)
- Heating:
 - -4° C to 22°C (0.5 MW of heating ~8700 lighbulbs)
- Cooling:
 - 28°C to 16 °C (450 fridge/freezers)
- BREEAM Excellent Target
 - 75% Efficient recovery device
 - SFP's max of 1.84



Targets for the Admiral





- Clear information
 - Data sheets to allow proper planning (pipe sizes etc.)
- Manageable AHU sections
 - Easily identifiable to streamline build program
- Attenuators:
 - To be included in the unit
- Weatherproof:
 - Coastally protected unit
- Access:
 - Access doors to allow adequate maintenance



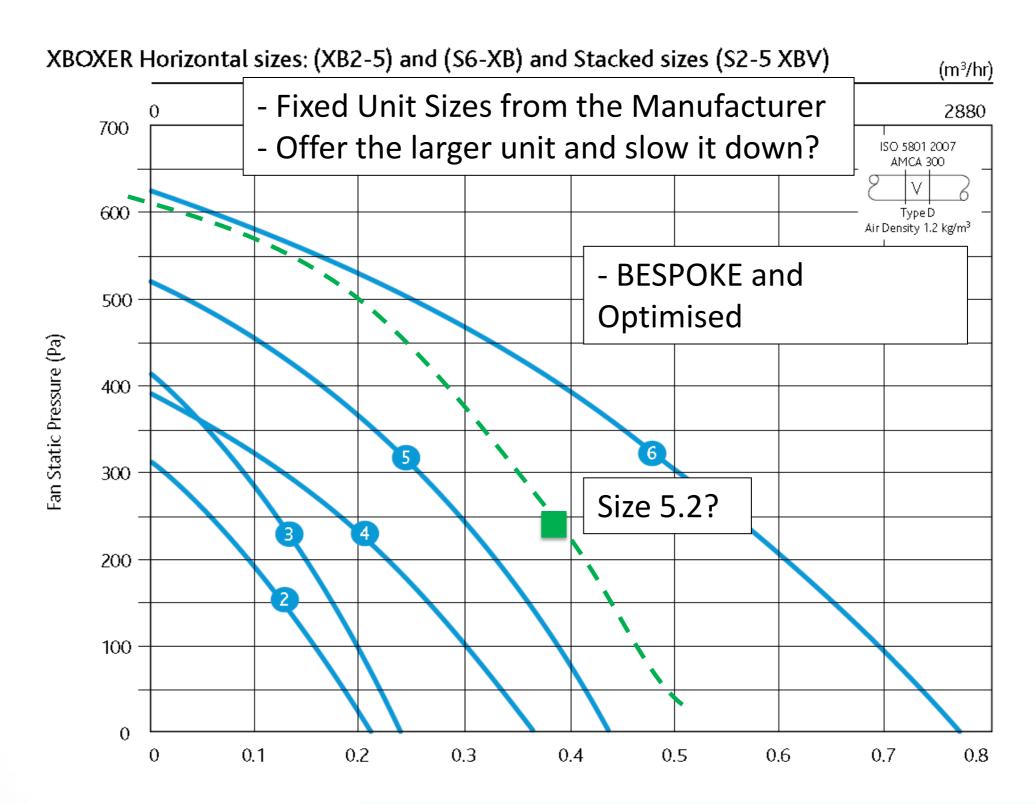
Ventilation and BREEAM®



- BREEAM Excellence requires the Ventilation equipment to be:
 - Highest efficiency energy recovery devices
 - Reduced heating and cooling loads
 - The lowest 'Specific Fan Powers' (SFP) = Running Costs
- But these requirements can conflict in an AHU:
 - Standard sizes are not optimised for every duty point
 - Units end up oversized (and expensive)

The Problem

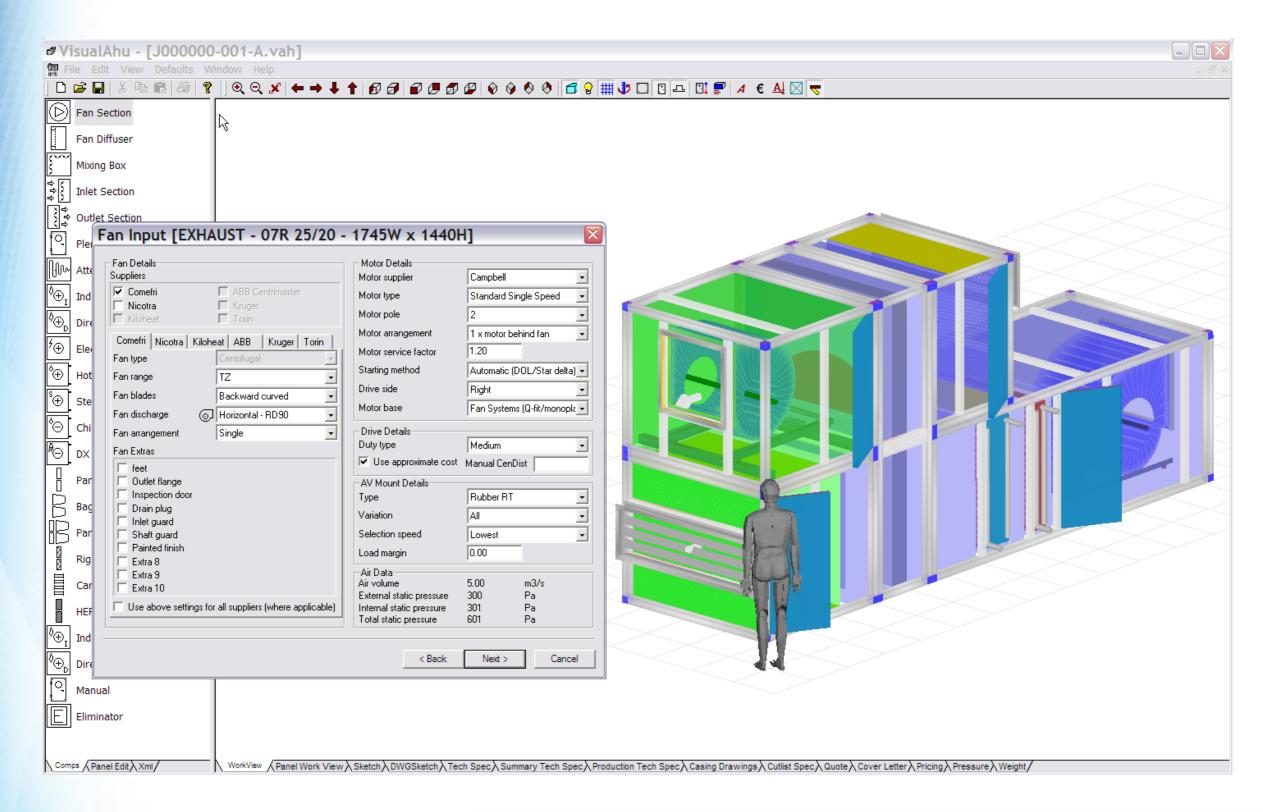






The Solution





Admiral AHUs - Flexibility

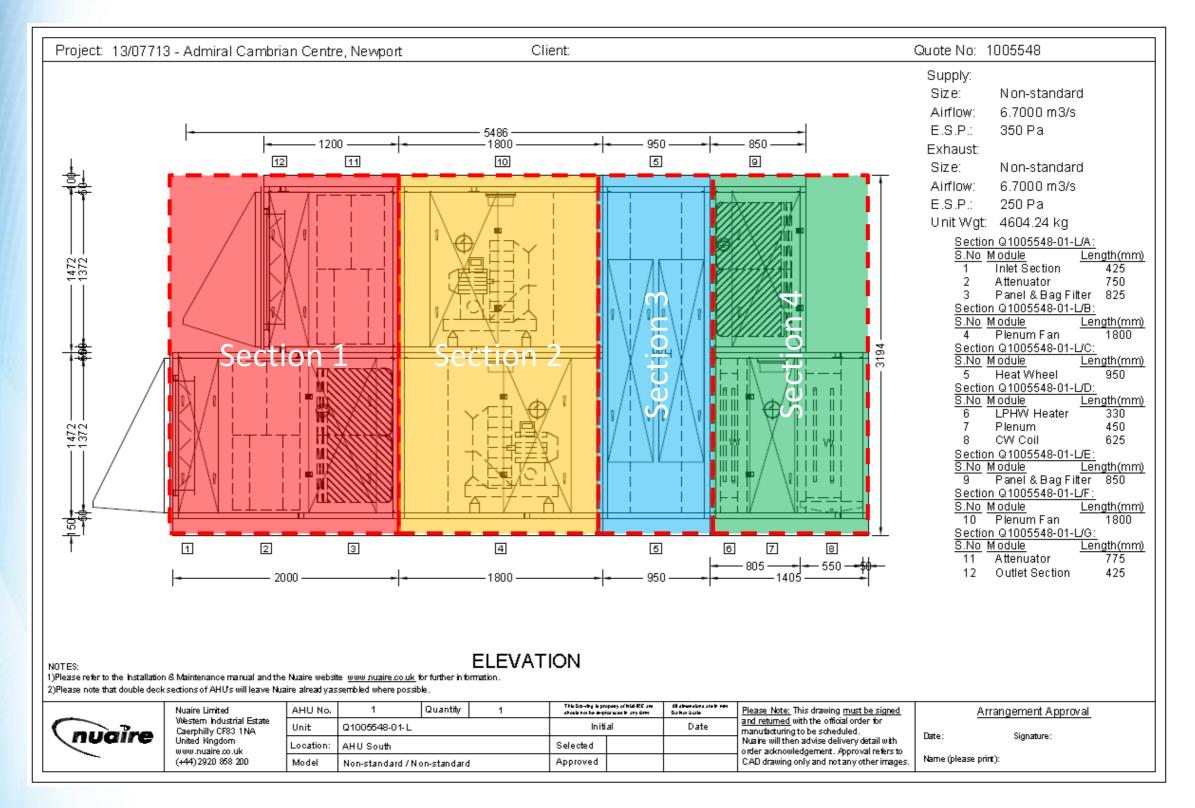


- BESPOKE Selections have allowed our customers:
 - 77% Efficient Sorption Wheel recovering 436kW of energy (heating and cooling)
 - Reduced loads on the Boiler / Chiller plant
- Achieved 1.8W/l/sec by:
 - Selecting custom components with lowest resistance
 - Maximising the unit Area
- All of this achieved with 3 units:
 - 3m x 3m x 7m long



Admiral, Newport

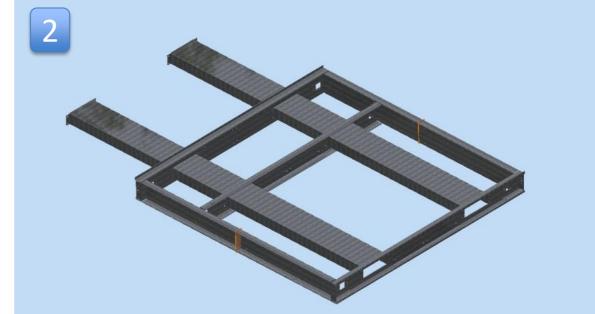




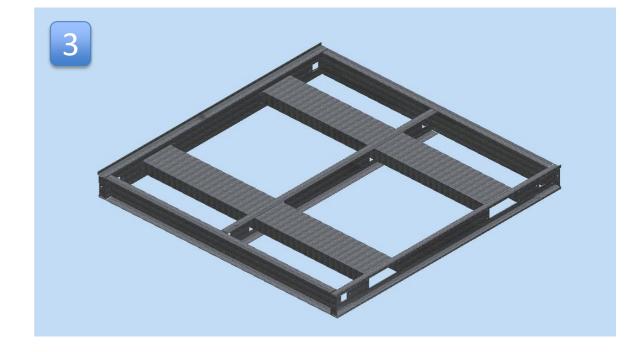
State of the Art - Parametric





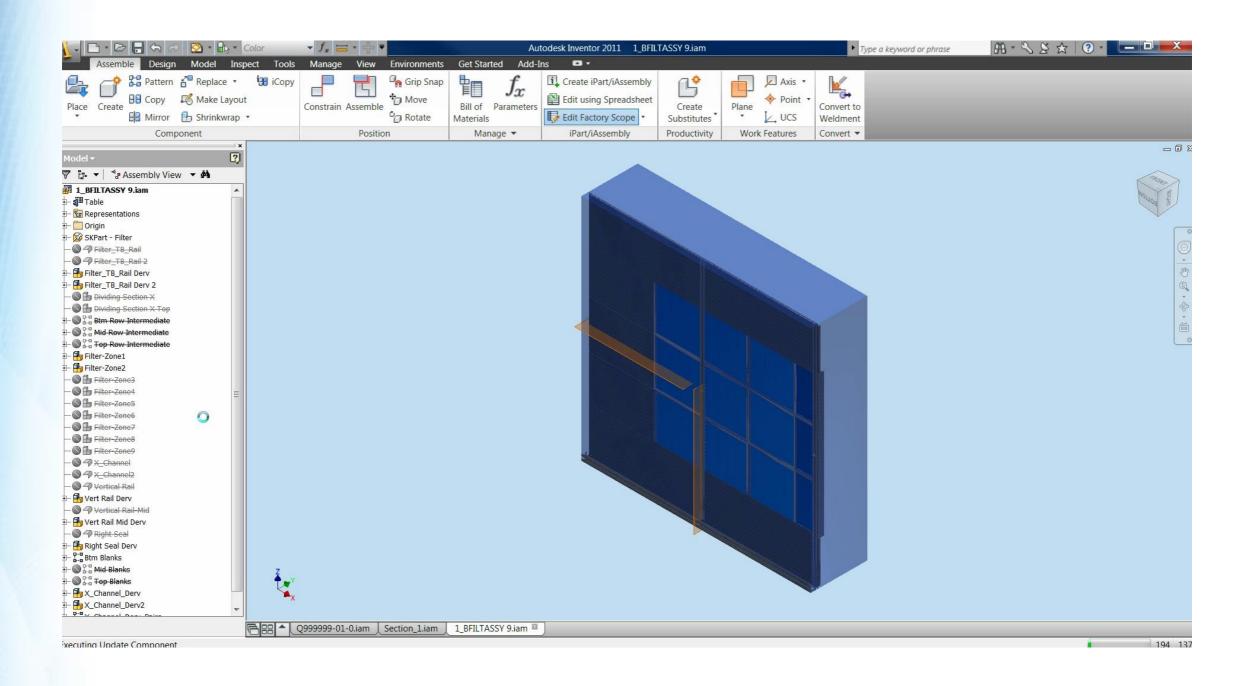


Parametric: a single parent part that be automatically altered by changing some of the parameters that describe it. I.e. changing the length of the base from 1m to 2m will allow the base to automatically change its shape to the new dimensions required – without the need for someone to redesign/redraw it.



State of the Art - Parametric





State of the Art - Parametric



Visualise



Automate



Manufacture



Deliver



IN GREAT BRITAII

Installation is a Breeze

Hurley experienced benefits such as:

- Clearly labelled sections with colour coded corners.
- Alignment devices to prevent the units being installed incorrectly.
- 99.6% on-time delivery record working with the Project Engineers timelines.
- Thinking about Facilities Managers (Admiral)
 QR Codes









Conclusion



- Nuaire have achieved the BREEAM targets through BESPOKE solutions.
 - Parametric modelling
 - Optimise unit at duty point
- Nuaire have listened to our Customers
 - Consultant: Specification requirements
 - Contractor: Assembly and Site Innovation
- The best solution is when all parties requirements are met.....



We have the technology......

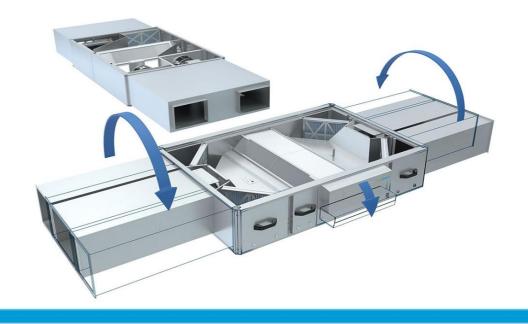
And the willingness to help......





Hywel Boucher, AHU Technical Engineer, Nuaire

THANK YOU



Carl Bennett Construction Manager - SDC

Andy Roberts
Project Design - SDC



Q & A

Followed by Tour of the Building

