

HVAC MARKET UPDATE

ATS launches fan coil linking solution

A pre-fabricated unit developed by Advanced Technical Solutions is aimed at reducing the on site installation time and potential future system leakage from fan coil unit systems.



FCU-LINK: THE FEATURES IN BRIEF

- The FCU-link is intended for the connection of a fan coil unit directly into a building's chilled water or hot water network.
- The product features an inbuilt factory-assembled set of valves and accessories that includes all the components needed to complete the installation of the fan coil unit.
- The FCU-link can be installed by unskilled labour with minimal instruction; there is no need for the use of tools as it is designed to be fitted by hand tightening.
- The product is pressure-tested in the factory before delivery to site to reduce on site commissioning times.
- A built-in bypass section includes a full port isolating valve to enable coil and circuit flushing and cleaning to be carried out without the need to switch off the attached fan coil unit.
- An inbuilt fixed orifice measuring station ensures that accurate solid state and repeatable flow measurements can be made. This feature is also intended to reduce the time needed for water balancing.
- A control valve thermal actuator is available in 24 and 240V on/off versions. This can be installed onto the FCU-link without the need for tools and the actuator is waterproof.
- The use of full port isolating ball valves with raised handles enable thermal insulation.
- A regulation flow valve enables the independent regulation and water balancing of individual fan coil units.
- 200mm-long helical stainless steel flexible connectors are provided as standard, with other lengths available on request. The flexible connectors are intended to allow the use of the FCU-link with products of differing centre-to-centre pipe distances. They can be twisted without their overall cross-section, hence the water flow rate, being affected.
- The unit measures 180mm.
- Unions can be hand-tightened to enable easy assembly.

German-based Advanced Technology Solutions (ATS) has announced the worldwide launch of the FCU-link. The product is aimed at reducing the on-site installation and commissioning times needed for the application of a standard fan coil unit pipework and flow control system.

The FCU-link is a factory-assembled unit that includes an inbuilt standard set of valve and connections that are needed for the installation and use of an individual fan coil unit. The product means that rather than installing each valve individually on site and commissioning a series of individual products, all the necessary components are installed as a single item.

"This will reduce on site installation time and potential leakage [in the system]," explains ATS CEO Ahmed Omer, "It will take five to ten minutes to install the product, and it can be installed by unskilled labour by hand-tightening."

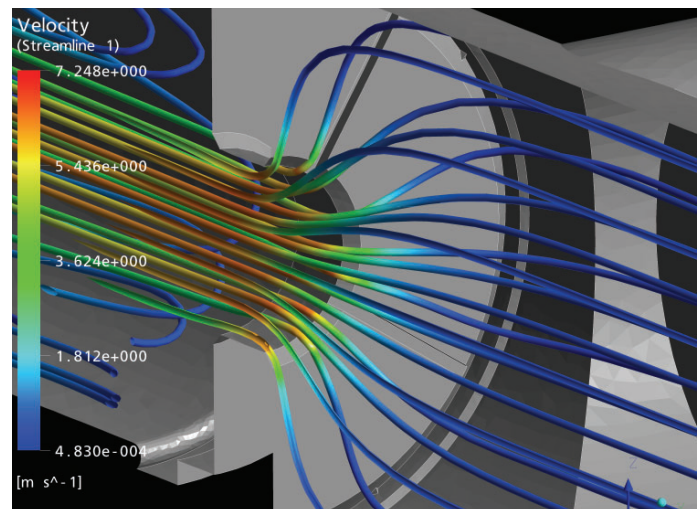
The FCU-link is aimed at use by MEP contractors and particularly for projects where several hundred or thousand fan coil units may be

needed, such as high-rise residential and office towers.

The unit includes a built-in bypass to enable effective coil and circuit flushing and cleaning without the need to turn off the fan coil unit. In addition, it has a two-way control valve, regulating flow valve, isolating valves, a strainer and fixed orifice measuring station. Stainless steel flexible hoses are included to increase the ease of installation. The product is pressure-tested in the factory prior to delivery to site.

The initial focus for the product launch is the Middle East market states Omer, due to the large potential demand in the region. A pilot scheme on the five-star Grand Regency Hotel in Qatar is now underway and during the product final design stage the firm won a further two projects for its use, Omer reports.

The products will be manufactured at the firm's German facility and distributed throughout the GCC countries, Jordan, Syria, Lebanon and North Africa via the firm's new Qatar base. "We are designing the stock level now to optimise the availability," assures Omer. [MEP](#)



A fixed orifice measuring station enables solid state and repeatable flow measurements.