
Avocent (Emerson) Shannon

New Heat Pump Water Systems' Installation and Commissioning



“Avocent turns to Sirius for F Gas compliance and energy savings...”

Because of Avocent’s industry-leading portfolio of software, hardware and embedded technologies, it requires exacting indoor climate control over its entire operation. It also has to be high-performing and energy efficient. Hence the major challenge faced by Avocent’s Shannon-based plant when changes in F Gas legislation required that existing R-22 chillers be replaced by new regulation-compliant equipment.

Having carefully considered the situation Avocent appointed Sirius Air Con to oversee the entire project. The appointment included configuration, planning, procurement, management, installation and final commissioning.

Further analysis resulted in the decision to address the high energy consumption of the existing units by replacing them with reversible heat pump technology. The selected approach was to install two 250kW water-based Hitachi Samurai reversible heat pump chillers to provide cooling in summer and improve heating performances in winter assuring a tighter control thanks to the use of a water system.

Sirius used their expertise in building energy management systems to tie the controls of the new heat pumps into the existing site system and provide Avocent with very accurate control of the heating and cooling systems for their facility.

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FINAL CLIENT

Avocent Products and Services
(Emerson Network Power)

LOCATION

Shannon Free Zone County
Clare, Ireland

SERVICES PROVIDED

Supply, Installation and
Commissioning of two 250 KW
Heat Pumps, all related Pipework,
break tank, frame, BMS HVAC
System loads initial assessment.

DURATION

November 2011

REFERENCE CONTACT

Mr. Brendan O’Donoghue
Projects & Facilities Manager
Tel: +353 (0) 61 715104

PARTNERS

Hitachi Ireland, Complete
Stainless Steel Ltd.

Avocent (Emerson) Shannon

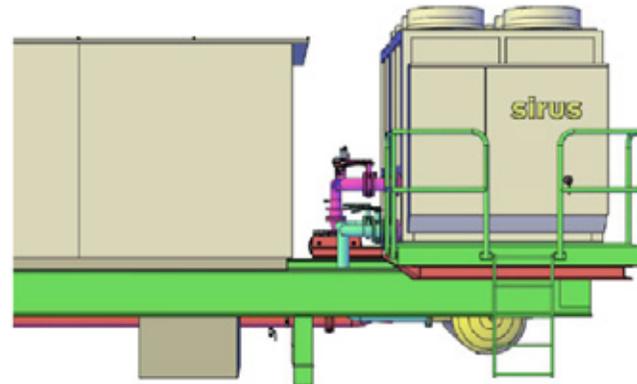
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The new heat pump units – mounted on new structural frames with associated buffer vessels, twin pump sets and heat exchanger coils – were individually craned into position and installed over two weekends. The only downtime on the existing roof top units was during the removal of the old DX coil and installation of the new water-based coil.

The new high efficiency reversible heat pump units and system modifications will provide a performance gain of approximately 30% over the existing chillers and system. Changes to the HVAC and BMS system will allow facility managers to heat and cool the building in a more efficient manner than previously possible.

Throughout the project Sirius ensured that all the works, right up to final commissioning, were carried out swiftly and with little or no disruption to Avocent's operations.



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