

Case Study



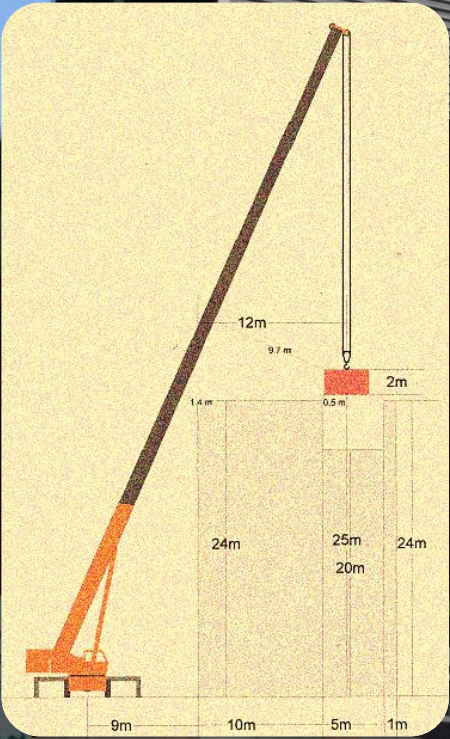
The Spectrum Centre
Shankill Road, Belfast



**Mechanical
Chiller Replacement
One Solutions
18/04/2010**

Location

The Spectrum Centre is a major landmark building on the Shankill Road at the corner of Tennent Street. It is only a few minutes drive from the city centre.



History:

The Spectrum Centre opened on the 30th October 2001. Nine years later, our client had to replace their old Chiller . The Chiller is used to cool and dehumidify air in the building.

At One Solutions we replaced a 0.5mW chiller that weighed almost 5,000 kgs which was a tricky job particularly when a 65 ton crane has to be positioned on a pathway which has main services running the length of it less than a meter underground. Gas, water, drains, cables and fibre optics were major considerations. The problem was enabling the crane to position close to the lift point safely without the risk of ground subsidence.

The challenges for One solutions was getting the new 1,600 kgs chiller some 4 meters long, 2 meters wide and 2 meters high through a 4m opening. The chiller was loaded and transported from the factory to a site, the unit was lowered onto the roof plant room using a mobile crane where our engineers then re-assembled connected back to the existing services.

The assembled chiller was pressure leak tested, dehydrated and charged with refrigerant in preparation for commissioning.

A turnkey project managed by one Solutions.

Refrigerant Chiller Replacement

Refrigerant Chiller Replacement:

- Our project management services include:
- Site survey
- Health and safety management (CDM)
- Equipment selection
- Decommissioning, refrigerant recovery and safe disposal
- Equipment disassembly
- Transport and mechanical handling
- Craneage (including negotiations with local authorities)
- Disposal of redundant plant
- Disassembly, transportation and on site reassembly of new equipment
- Pipework alterations and modifications
- Electrical modifications
- Power factor correction
- Trace heating
- Pipe work insulation
- Commissioning and hand over

Chiller & Plant Replacement



Ferroli Chiller ready to be lifted into position, the organisation of the crane and installed by **one solutions**



Current legislation

Down with the old



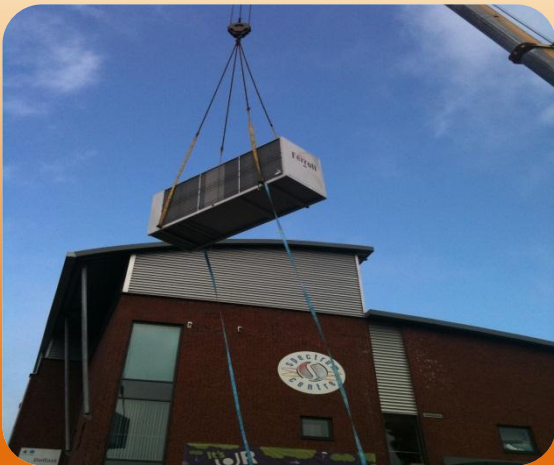
- Your chiller currently depends upon (HCFC's), R22 which is the most commonly used Gas refrigerant, because of its severe ozone depleting properties, is now being rapidly phased out in accordance with EU Protocol.

- R22 refrigeration equipment currently in use within food factories and office blocks will soon be compulsory to be replaced, in the mean time should this equipment breakdown you will be limited with options.

- Current legislation means a total ban on the use of virgin R22 by 2010. Recycled R22 should be available until 2015, but many larger corporations are already stock piling it in advance of need. The likely result is that the amount of recycled R22 becoming available to the general market will fall far short of demand leading to a sharp escalation in its price.

- All will have to be converted or replaced by 2015, sooner if legislation is toughened.

Up with the new



- The solution to replace your chiller and to bring it into conformance, and meet the performance and energy efficiency requirement's.
- One solutions we can offer our experience of supplying and installing chillers.
- We have the qualifications, approval and licensing to carry out these conversions by our engineering staff with the specialist knowledge, engineering skills and qualifications required to conduct this work.
- A go anywhere, anytime, lift and shift, transport and installation team.
- Our quotation includes everything needed .
- A Comprehensive maintenance can be arranged after the install
- For the best advice, quality and reliability
- why not give us the opportunity of a site visit next time you need to replace a chiller.

New legislation is enforcing the removal and replacement of the low temperature refrigerant-R22 refrigeration system. Check out <http://www.r22-legislation.co.uk/>



REFCOM approved and all members of the service team are **ACRIB** certified and licensed.

One Solutions Unit A3 Valley Business Centre 67 Church Rd, Newtownabbey BT36

7LS Tel: +44(0) 2890 552711 Fax: +44(0) 2890 552711 Email:

info@1onesolutions.biz