

REAL Zero gives you

TOOLS TO MEASURE

SAVINGS

Carbon Emissions Calculator
Refrigerant Monitoring
Spreadsheet

WORKSHOPS TO GAIN

REAL ZERO CPD

19th November (Manchester)
1st February (Midlands)

TRAINING MATERIAL

Environmental, cost and legal aspects

Maintenance and service

Minimising leakage in new systems

Site specific surveys and advice

GUIDANCE NOTES

Good practice in leak testing

13 Common leaks

Designing out leaks

Leakage matters for end users

Leakage matters for contractors



Sign up at:

realzero.org.uk

This newsletter is designed for those at the sharp end - the technicians and engineers responsible for the efficient and reliable operation of refrigeration and air conditioning systems.

Service & maintenance reduces leakage!

Technicians play a key role in reducing leakage through their day to day work - simple things from filling in the F gas records accurately to replacing valve caps can make a big difference in the long term. The system operator may bear the legal responsibilities for fixing and preventing leakage but the engineer holds the key to making sure effective action is taken. The REAL Zero guides to good leak testing and leakage matters explain in detail what you can do to help tackle this industry-wide issue and make sure industry best practices are applied in the sites you work on.

Containment works - new evidence



One year on from the initial research and investigations which underpinned the REAL Zero approach, the IOR has conducted follow up analysis with the original refrigeration equipment sites surveyed 12 to 18 months ago. The sites were asked for information on refrigerant use and actions carried out as a result of their work with REAL Zero.

In total 27 systems at 10 of the original 24 sites were reviewed. Feedback showed that the REAL Zero concept has changed practice on these sites and as a result there has been significant reduction in leakage related to that equipment.

The carbon savings realised equates to nearly 8,000 tonnes CO₂(e) per annum, based on a net reduction in refrigerant leakage of 4,900 kg over a corresponding 12 month period. This represents an impressive 43% reduction in annual leakage, averaged across the 10 sites.

See www.realzero.org.uk for details

REAL Zero Assessment workshops

The Carbon Trust has funded a further three one day assessment workshops - building on two successful events held earlier in the year. So far 56 engineers and supervisors have taken part in the events with 34 having passed all three modules on the day and seven of these submitting a site survey for assessment which allows them to gain the full completion CPD.

The possibility of further events in Scotland in 2011 is being considered.

Book at www.ior.org.uk

Top Tip for Service Engineers

Check that pipes are not vibrating excessively and are not chafing
Check pipe clips are adequate and in good condition - replace if necessary.
When tightening flanges, tighten the bolts evenly and to the correct torque.
When tightening flare nuts, use a torque wrench to achieve the correct torque

F Gas Regulation under review



An industry-wide analysis of the F Gas Regulation in the UK carried out by the Air Conditioning and Refrigeration Industry Board (ACRIB) has found that the single most significant barrier to effectiveness of the Regulation is the lack of visible enforcement, policing and mechanisms to guarantee compliance or report non-compliance.

In addition to calling for increased support from UK Government in raising awareness of leakage issues amongst equipment owners, the ACRIB position paper emphasises that sufficient time is necessary to fully assess the positive impact of industry initiatives to reduce leakage such as the IOR's REAL Zero.

ACRIB Chairman, David Bostock, said: "We can see in the many positive steps taken by supermarket groups and retailers to comply with the Regulation that there has been a definite reduction in emissions from these sectors."

The paper makes seven key recommendations which industry believes will increase the effectiveness of the F Gas Regulation in the UK.

Read the full paper at www.acrib.org.uk

REAL Skills into Europe



A UK led initiative called REAL Skills Europe is developing e-learning material based on the REAL Zero guidance and training notes. With partners in Estonia, Germany, Greece, Poland and Belgium as well as the UK, the project will provide a pan-european approach to refrigerant containment. It is funded by the EU Leonardo Transfer of innovation in vocational knowledge and skills programme.

Project leaders are keen to gain input from those who have used the REAL Zero guidance notes, tools and learning material to update this for the broader audience.

Take part in an on line consultation by registering as a stakeholder at www.realskillseurope.eu.

REAL Zero is supported by the Carbon Trust Low Carbon Collaboration Initiative. Together we help our members cut carbon, energy and costs.

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