

The need for qualified installers and the Eucert Programme

Reginald Brown, BSRIA (UK)
Vice Chair of EHPA Education Committee







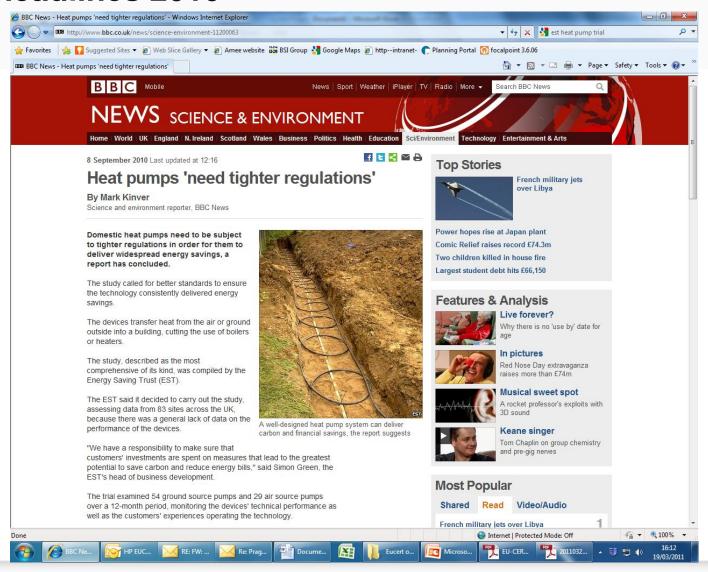
AVTC Conference | Prague | 21.03.2011

Why do installers need to be qualified?

- The common experience of countries with mature heat pump markets is that failure to train installers results in:
 - Poorly performing installations
 - High energy bills
 - Dissatisfied customers
 - Loss of confidence in heat pump technology
- The best heat pump in the world cannot work effectively if badly installed!



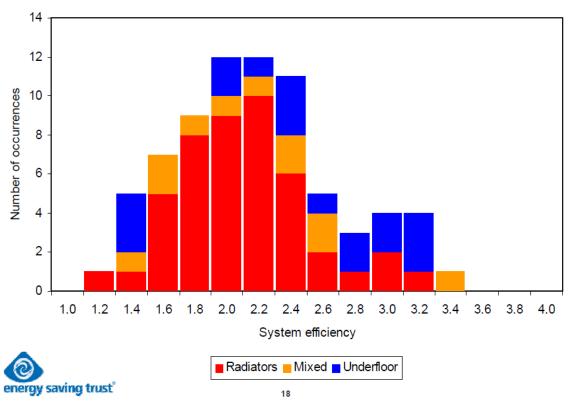
UK headlines 2010





Extract from EST presentation

System efficiency – heat sinks





Origins of Eucert

2004 EUCERT.HP project begins

- 10 project partners & 2 associate partners
- Part funded by EU Intelligent Energy Programme

Objective:

Development of a European Training Programme for heat pump installers

Tasks

- Compile material based on training experience across Europe, particularly Sweden, Austria and France
- Run pilot courses
- Establish a framework for continued development



EUCERT- HP Partners

- Arsenal (Austria)
- MSU (Sweden)
- EHPA
- EdF (France)
- SWS (Ireland)
- BSRIA (UK)
- SDHK (Slovenia)
- BSRIA (UK)
- ARE Liguria (Italy)
- AVTC (Czech Rep)
- BWP (Germany)





EUCERT-HP Deliverables

- Model 5-day training course
- Training manual for installers
 - 200+ pages of material in 14 chapters
 - 5 languages
- Examination questions
- Supporting material for organisers
- Demonstration courses held in 9 countries
- Initial criteria for "European Certified Heat Pump Installer"



Training course

- 4 days theory (based on installer manual)
 - + 1 day practical laboratory
- Theory examination
 - 60 randomised questions in 1 hour
 - Multiple choice answers
 - "open book"
 - Pass mark = 70%
- Practical examination
 - Supervised exercise



EHPA Education Committee

In 2008 responsibility for "Eucert" development passed to the EHPA Education Committee

Austria

Belgium

Czech Rep

Finland

France

Germany

Hungary

Italy

Slovak Rep

Sweden

UK



2010 Training manual

- 1. Marketing
- 2. Costs
- 3. Environmental relevance
- 4. Geology & climate
- 5. Energy efficient buildings
- 6. Technical details of the heat pump cycle
- 7. Heat distribution and systems integration

- 8. Heat sources
- 9. Operating modes & control
- 10.Conducting a site assessment
- 11.Installation & commissioning
- 12. Electrical basics
- 13. Customer handover
- 14.Maintenance
- 15.Installation errors



European Certified Heat Pump Installer

Requirements

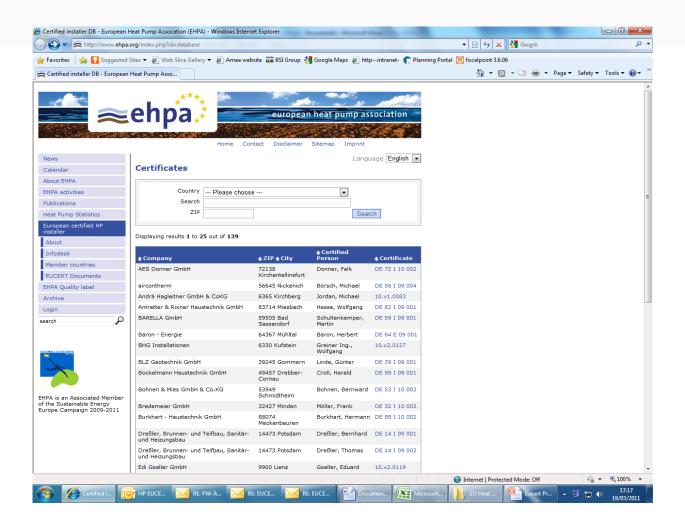
- Pass examination
- Provide evidence of installation
- Sign contract and pay fee to national body
- Certificate valid for up to 6 years







Database for European Certified Heat Pump Installers





Progress to the end of 2009

27 training institutes

323 courses

3177 trainees attended courses

2657 trainees passed examinations

135 European Certified Heat Pump Installers

Projection for 2010 was 2245 new trainees



The future

- Can Eucert save the world from climate change with 5 days of training?
 - Certainly not!
- Can Eucert help installers to avoid the mistakes of previous installations (and avoid damaging the reputation of heat pumps)?
 - Possibly!



Thank you for listening

Further information at www.ehpa.org

