



Case Study - 10/2010

The Implementation of the ODS and F-Gas Regulations in Hungary

- **The Hungarian Monitoring and Certification Body for Refrigeration (HMCB)** was established by the Hungarian Refrigeration and Air-Conditioning Association (HRACA) in 2009 and appointed by the Hungarian Ministry of Environment and Water in June, 2009. HMCB is responsible for implementing and managing the certification and monitoring tasks of ODS and F-Gas regulations in Hungary.
- **Through a web-based information system and database**, HMCB reaches out to all stakeholders of the stationary and mobile refrigeration and air conditioning sector, satisfying the administrative and reporting requirements of the regulations and environmental authorities.
- **Currently, the HMCB database** includes approx. 7600 certified persons, more than 1200 certified and registered companies, over 2000 registered operators and more than 22.000 registered refrigeration circuits.

Historic Background

Training and certification systems have been existing in Hungary since 1994, when the Hungarian Association HRACA was founded. With the implementation of the ODS regulation (2037/2000), new certification categories (A-F) for personnel and companies were introduced, as well as refrigeration circuits registration, labelling and leakage checking methods. This system took already into consideration existing Member States solutions such as STEK (Netherlands) and anticipated the intentions of the F-Gas regulation (842/2006).

Implementation of the F-Gas regulation (842/2006)

When implementing the F-Gas regulation, Hungary decided to adopt a holistic approach, taking into consideration the following facts:

- **ODS and F-Gas regulations merged into one global registration and certification system:**
 - ⇒ Covers all stakeholders of the stationary and mobile refrigeration, air conditioning and heat pump sector and allows tracking the entire lifecycle of refrigerants.
- **Creation of a web-based registration and certification system:**
 - ⇒ Certification of personnel based on 303/, 307/2008, 1005/2009/EC and EN13313, EN378 using e-learning + test-exams and theoretical + practical assessment methods. Creation of additional personnel categories (Category V-VI-VII) for MAC sector.

- ⇒ Certification of companies based on 303/2008/EK and integrating already existing information such as refrigerant inventories, databases etc.
 - ⇒ Creation of a new registration system based on 303/2008/EK for companies handling refrigerants but not being required to interfere with the refrigeration circuit or having their own certification system.
 - ⇒ Mandatory operator and refrigeration circuit registration to monitor the refrigeration circuit, leakage checking, service and maintenance and to control whether operators are respecting their obligations
- **Characteristics of the online database:**
- ⇒ IT system with barcode-ID and labelling of all the circuits
 - ⇒ Online track-keeping of all services (leakage checks, maintenance, etc.)
 - ⇒ Refrigerant management system for the entire lifecycle of refrigerants from placing on the Hungarian market, through containment up to recovery, reclaim or disposal
 - ⇒ Collection and evaluation of data (of the refrigeration circuit database, operators, etc.)
 - ⇒ Access to the database by authorities
- **Further planned developments:**
- ⇒ New, pre-charged equipment and container labelling, tracking
 - ⇒ Fully IT-based refrigerant management system,
 - ⇒ New personnel and/or company categories, as heat-pump installers, gas-equipment installers, energetic inspectors,
 - ⇒ New operator categories such as owners of transport AC&R, installed AC and heating equipment, -systems,
 - ⇒ Registration and administration of different entities, as MAC refrigeration circuits (leakage checking), AC- and heating devices and systems (EPBD energetic inspections).

More information can be found online in Hungarian at www.hlhmonitoring.hu or contact directly (in Hungarian, English and German) zoltan.attila@hlhmonitoring.hu.

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HMCB - Hungarian Monitoring and Certification Body for Refrigeration

Annex:

The Hungarian certification and monitoring system has been developed taking into consideration the following projects:

- World Bank Program- "Replacement of ozone depleting materials"(No. 28306 - 1994)
- Former and existing certification and registration system of Hungarian Refrigeration and Air Conditioning Association – HRACA - 1995-2009
- "European Refrigeration Craftsman Profile" project (Leonardo da Vinci Project EUR/02/C/F/NT- 84604 /EC) - Air conditioning and Refrigeration European Association (AREA), Certification and Qualification Committee (CQC) – 2002-2003
- "Developing the National Monitoring Institution and Certification Body for Refrigeration, Air-conditioning and Heat-pump Trade" Twinning Light Program 2006/018-176.05.01. – 2006-2007
- Revision of EN 13313- CEN 182 WG 4 – 2007-2008
- "Implementation of the Hungarian Monitoring and Certification Body for Refrigeration" project, Ministry of Environment and Water - 2009

ID Card for F-Gas certification of personnel

Label of a refrigeration circuit with ID code

Hűtőközeg				Hűtőközeg töltet		Névl. hűtőtelj.	
R-404A				30.0 kg		1050 KW	
Hermetikusan zárt				Szivárgás észlelő			
nem				nincs			
COP	TEWI	ODP	GWP				
3,4	832	0.0000	3260				