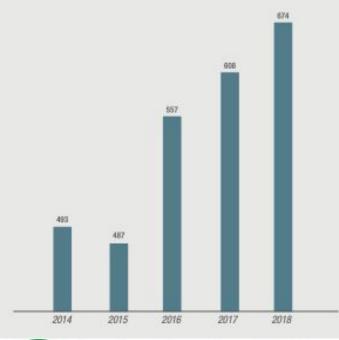
Contacts with SIAD

FC, Roma, 4 Jul 2019

SIAD Group

- SIAD (Società Italiana Acetilene e Derivati S.I.A.D. SpA) has been present in the industrial gases sector for nearly 90 years; in this field, it represents a leading company in Italy.
- Owned by an Italian family





HFC REFRIGERANT GASES

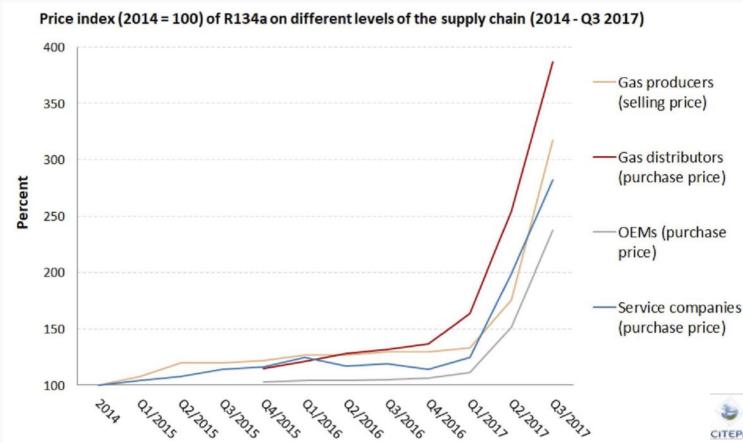
Freons or **hydrofluorocarbons** (HFC) are the most widespread refrigerant gases on the market today.

They have replaced **chlorofluorocarbons** (CFC) and **hydrochlorofluorocarbons** (HCFC), which damage the ozone layer.

European Regulation 2037/2000, integrated by European Regulation 1005/2009, came into force on January 1, 2010 and prohibited the sale of all HCFC refrigerants (e.g. R-22), which damage the ozone layer. An extension to the use of regenerated HCFC was granted until December 31, 2014.

The European regulation, known as F-GAS, 517/2014, came into force on June 9, 2014 and has applied from January 1, 2015. It provides for the progressive reduction of fluorinated greenhouse gases, which possess a high global warming potential (GWP), in favour of more sustainable refrigerant gases.

Monitoring of R134a prices in EU



The presented price developments include information provided by 49 companies from all over Europe: 2 gas producers, 2 gas distributors, 14 OEMs, 31 service companies







Alternatives

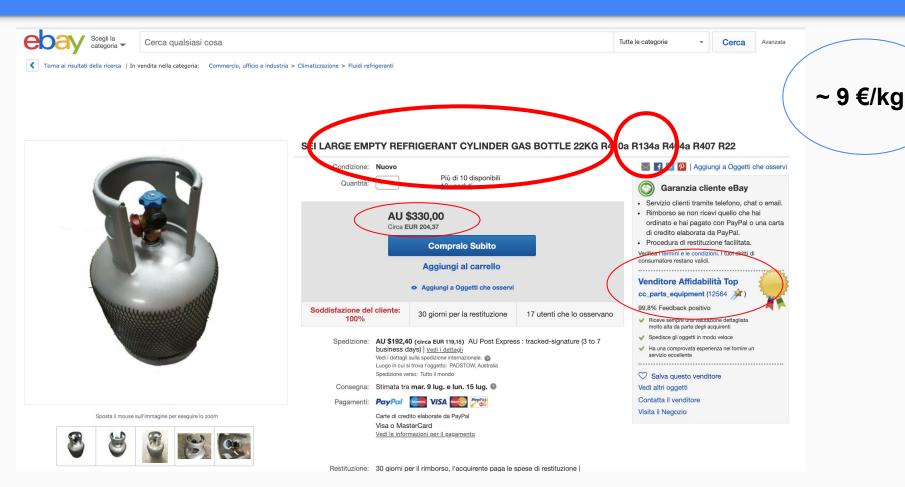
Origin of Illegal Imports to Italy



- From Eastern European countries (Ukraine, Romania, Bulgaria)
- From Tunisia and Malta (using fishing boats to Sicily)
- From Turkey via Greece and Albania

F-Gas: 80% in Greece is illegal (generalgas.eu)

e-bay, subito.it, facebook (!!)



Real Alternatives

- R32 (Flammable gas)
- R32 + Isobutane (Refrigerant gas)
- R1234ze (Refrigerant gas in use by Mercedes, Audi and now FCA)
- CO₂ (under study)

Final price from SIAD



