# Thanks for taking part in the Climalife F-Gas Challenge Quiz (November 2016).

## Here are the answers.


**Question 1**
Refrigerant Quota is the total quantity of HFC refrigerants allowed to be placed on the market. How is it measured?
**Answer:** In CO2 Equivalent Tonnes

**Question 2**
What is the percentage drop in Quota due at the end of 2017?
**Answer:** 32%

**Question 3**
True or False: A greater quantity of lower GWP refrigerants can be sold compared to those with a higher GWP.
**Answer:** True

**Question 4**
Comparing the GWPs of R-404A and R-449A, which of these statements is correct?
**Answer:** The GWP of R-449A is just 35.6% that of R-404A

**Question 5**
What is the GWP of R-407F (a R-404A alternative)?
**Answer:** 1825

**Question 6**
What does a refrigeration contractor need to purchase HFCs according to 2014 EU F-Gas Regulation (517/2014)?
**Answer:** A company F-Gas certificate

**Question 7**
Which of these refrigerants will not be banned for service and maintenance of stationary refrigeration equipment from 1 January 2020? (There is more than one correct answer.)
**Answer:** R-438A and R-449A

**Question 8**
For a system containing 35kg of refrigerant: what is the CO2 eq tonnes of 35kg of R-404A?
**Answer**: 137.27
what is the Co2 eq tonnes of 35kg of R-449A?
**Answer**: 48.9

**Question 9**
How often do you need to leak check both systems mentioned above in Question 8, when there is no fixed detection system?
For R404A? **Answer** – Every 6 months
For R-449A? **Answer** – Every 12 months

**Question 10**
At Chillventa, two new A2L refrigerants to replace R-404A were launched with a GWP below 150. Which were they? (There are two correct answers)
**Answer**: R-454C and R-455A

**Question 11**
In which year did it become a legal requirement to have fixed automatic leak detection equipment on static refrigeration equipment where the refrigerant charge is more than 500 CO2 Eq Tonnes.?
**Answer**: 2015

**Question 12**
In which application can you only use a refrigerant with a GWP below 150 in new equipment since 2015?
**Answer**: Domestic Refrigerators and Freezers

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