

# Fact Sheet

## Refrigerants used in Kensa Heat Pumps.

### Facts at a glance:

#### Ozone Depletion Potential

ODP is the potential for a single molecule of refrigerant to destroy the Ozone layer.

#### Global Warming Potential

GWP is a measurement of how much effect the refrigerant will have on Global Warming in relation to Carbon Dioxide.

#### Refrigerants in Kensa's heat Pumps

Majority of Kensa's heat pumps use R407C, higher temperature units will use R134A.

The ODP or Ozone Depletion Potential is the potential for a single molecule of the refrigerant to destroy the Ozone Layer. All of the refrigerants use R11 as a datum reference and thus R11 has an ODP of 1.0. The less the value of the ODP the better the refrigerant is for the ozone layer and therefore the environment.

The GWP, or Global Warming Potential, is a measurement of how much effect the given refrigerant will have on Global Warming in relation to Carbon Dioxide, where CO2 has a GWP of 1. This is usually measured over a 100-year period. In this case the lower the value of GWP the better the refrigerant is for the environment. However, it should be clearly understood that there is only a theoretical risk of GWP with any of Kensa's heat pumps. In other words, unless the heat pump accidentally leaks its refrigerant inside it, then there will never be any GWP.

#### Kensa's Refrigerants

Almost all of Kensa's heat pumps use R407C. This is a ternary blend of hydrofluorocarbon or HFC compounds, comprising 23% of R32, 25% of R125 and 52% of R134a. It has no chlorine content, zero ozone depletion potential, and only a modest direct global warming potential of 1610.

A handful of Kensa's heat pumps used R134A is a single hydrofluorocarbon or HFC compound. It has no chlorine content, no ozone depletion potential, and only a modest global warming potential of 1300.

Refrigerant	ODP	GWP
407c	0	1610
134a	0	1300

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Heat Pumps

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