

# hydrocarbon

greenlogic: energy saving refrigeration



[www.greenlogic.info](http://www.greenlogic.info)

**Williams Refrigeration has been producing and continually improving its range of hydrocarbon products for over ten years and is the only choice when it comes to choosing environmentally sound equipment**



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Refrigerant	GWP	ODP
R290 HC (Hydrocarbon)	3	0
R404 HFC (Hydrofluorocarbon)	3800	0
R134 HFC (Hydrofluorocarbon)	1300	0

## Hydrocarbons: the facts



1. Hydrocarbons are an efficient, naturally occurring refrigerant gas.
2. The type used by Williams is R290 which is refrigerant grade, pure propane.
3. R290HC reduces energy consumption by up to 15% due to its excellent thermodynamic properties.
4. The hydrocarbon range has undergone an extensive redesign, incorporating the latest energy efficient innovations, extensive testing, liaising with component manufacturers and academic industry advisers and has produced results demonstrating **substantial energy savings**.
5. The hydrocarbon range is designed and engineered to operate efficiently and effectively in the harshest of environments up to 43°C ambient, Climate Class 5.
6. Given the potential risks attached to hydrocarbons, generic cabinets have been fully tested and audited by a third party to ensure full compliance with BS EN378.
7. R290HC almost eliminates the environmental impact due to its low Global Warming Potential (GWP) and Zero Ozone Depleting Potential (ODP).

## Hydrocarbons: the benefits



1. The refrigerant charge on all Williams hydrocarbon equipment is below the 150g threshold, enabling it to be placed in any size of room without the need for specific room volume calculations thereby eliminating any potentially costly charges by insurance providers.
2. Heat output and noise levels from the condenser are reduced, providing an improved working environment.
3. Hydrocarbon equipment can assist you in reducing your businesses carbon footprint.
4. All components used in the Williams range are suitable for hydrocarbon use.
5. Hydrogen leak tested (detection rate of 2 grams/year), hermetically sealed refrigeration systems.
6. Hydrocarbon products are available at no extra cost to you across the entire range of cabinets and counters.

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**for more information on how our wide range of hydrocarbon cabinets and counters could help you reduce your impact on the environment, please contact us or visit our website**

[www.williams-refrigeration.com](http://www.williams-refrigeration.com)



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components *in focus*



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New fan motors offer improved heat rejection, increasing efficiency and lower energy consumption by 15%



Evaporator coils designed for longer life, optimised performance and hygiene



Corrugated evaporator fins for improved heat transfer



Low energy lighting giving up to 50,000hrs illumination – less energy required



Metal work designed to eliminate the potential for refrigerant to form should a sudden loss occur



Precision injected, high density 75mm polyurethane insulation provides maximum thermal properties with low GWP ( $\leq 5$ ) and zero ODP



Longer life, PVC magnetic balloon gaskets provide 100% tight seal and prevents heat loss, ensuring temperature is maintained



Self closing doors avoids heat loss and reduces energy



## CoolSmart: intelligent controllers



- Energy reductions of up to **15%** by detecting changing situations, instigating economy mode when use is low - keeping energy use to a minimum, whilst ensuring total food safety at all times.
- Intelligent defrost function ensures evaporator works more efficiently.
- Number of compressor starts can be limited, thereby reducing wear and tear and prolonging compressor life.

### Williams Refrigeration

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As well as the energy / environmental features of the hydrocarbon equipment illustrated here, Williams are at the forefront of providing a raft of standard quality components.

Please ask for our **Cabinets In Focus** brochure for further details.