

# Hydrocarbon systems

Hydrocarbon refrigeration heavily reduces energy costs and uses a natural, non-toxic refrigerant that's environmentally safer.



Williams Refrigeration leads the way in developing the use of greener refrigerants—offering new, energy-efficient hydrocarbon based systems.

## Innovation and commitment

As refrigeration equipment runs 24-7 and 365 days a year its energy consumption is of increasing focus. Regulation is also evolving to drive kinder environmental innovations. Through **greenlogic** Williams sets out its criteria for assurances as to its professional business standards, accreditation and social responsibility.

**Greenlogic** is Williams' commitment to supplying the most energy efficient and sustainable commercial refrigeration in today's market. It's not limited to product design—**greenlogic** covers our plant, manufacturing and management processes too. We've pioneered a raft of greener technologies, ranging from energy-saving Smart Controllers to systems using eco-friendly refrigerants.

## Why hydrocarbons?

### Hydrocarbons are better for the environment.

Hydrocarbons (HC) are naturally occurring, highly efficient refrigerant gasses which have almost no negative impact on the environment.

### Hydrocarbons save energy.

R290HC, the hydrocarbon used by Williams, is pure propane. Its thermodynamic properties are so superior that it reduces energy consumption by up to 15% compared to standard refrigerants.

### Hydrocarbons save money.

Because less energy is consumed, hydrocarbons will in-turn provide a reduction in energy costs.

### Hydrocarbons are better to work with.

Using hydrocarbons means both heat and noise outputs from the condenser are reduced, making the working environment both quieter and more comfortable.



Helping you save on energy costs  
and reducing your carbon footprint



### Are hydrocarbons dangerous?

Not in Williams equipment.

The refrigerant charge in all Williams hydrocarbon equipment is small—below the 150g threshold. This means your hydrocarbon cabinet can be placed in any size room without affect your insurance.

All Williams hydrocarbon equipment uses hermetically sealed refrigeration systems that are hydrogen lead-tested to a detection rate of 2g per year.

What's more, Williams hydrocarbon cabinets are comprehensively tested and audited by a third party.



Working towards a greener, more environmentally responsible future

*Williams reserve the right to modify materials and technical content in accordance with its policy of continuous development.*

### Developing our hydrocarbon range

All our hydrocarbon models have been extensively redesigned to optimise their performance with the new refrigerant gas (R290HC).

As part of this process, Williams liaised with component manufacturers, academics and industry advisers.

All Williams hydrocarbon models undergo extensive testing and incorporate the latest technological innovations, resulting in the consistent refrigeration performance along with substantial energy savings.

Our commitment to high-performing, energy efficient products will see us continuing to expand hydrocarbon's advantages into our Australian range of cabinets.

Refrigerant	GWP	ODP
R290 HC (Hydrocarbon)	3	0
R134a HFC (Hydrofluorocarbon)	1300	0
R404A HFC (Hydrofluorocarbon)	3780	0

Ozone Depleting Potential (ODP)  
Global Warming Potential (GWP)

For more information contact us now:

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