



## Engas hydrocarbon refrigerants for residential, commercial and industrial applications

22 July 2014

*Based in Australia, Engas offers a variety of hydrocarbon refrigerants designed to achieve higher efficiency and reduce energy consumption. The M10, M20, M30, M40, M50 and M60 are low to medium temperature refrigerants for domestic refrigerators, freezers, light commercial cabinets, air conditioning, cold rooms, industrial fluid chillers and more. Each Engas Hydrocarbon Refrigerant is blended or formulated to replace most of the synthetic refrigerants currently in use throughout the world today.*

Engas hydrocarbon (HC) refrigerants are non-toxic, have no ozone-depleting potential (ODP) and very low global warming potential (GWP). Engas offers 6 products as specified below.

All Engas Hydrocarbon Refrigerants must only be applied by fully trained and competent engineers and technicians.

### Engas M10: medium temperature hydrocarbon refrigerant

Engas M10 is a medium temperature HC refrigerant for domestic refrigerators and freezers, ice-cream cabinets and display cabinets, which cools approximately 30% faster than R134a and R12, thus saving about 20% on energy consumption. M10 is suitable for replacement of all R600a refrigerators and freezers.

### Engas M20: special purpose hydrocarbon refrigerant

M20 is a special purpose HC refrigerant specifically designed to replace R32 in residential and commercial air-conditioning systems. M20 can save approximately 40% on energy usage and help reduce wear and tear as a result of the system conversion.

### Engas M30: special application hydrocarbon refrigerant

M30 is a special application HC refrigerant designed to replace R12 and R134a. Switching to M30 does not require extensive modification to existing air-conditioning or refrigeration systems.

M30 can be applied to:

- Vehicle air-conditioning
- Domestic refrigerators and freezers
- Cold rooms and freezer rooms
- Industrial liquid chillers (commercial and industrial)

Replacing existing R134a in mobile air-conditioning systems with M30 can achieve a 30% cool efficiency gain due to the refrigerant's higher critical temperature.

### Engas M40 : pure hydrocarbon refrigerant

M40 is a pure hydrocarbon refrigerant with no temperature glide, operating at medium to low temperature. It is a suitable replacement for all R290 systems. M40 can be applied to areas such as air-conditioning systems, refrigerators and freezers (domestic and commercial), cold rooms, freezer rooms and liquid chillers.

### Engas M50: low-temp hydrocarbon refrigerant

M50 is a low temperature HC refrigerant designed as a direct drop-in replacement for chemical refrigerants R22, R502, R404a, R407c and R507c. M50 can achieve a savings of 25% in energy consumption, whilst minimising wear and tear on all converted or retrofitted systems.

M50 can be applied to the following sectors:



- Residential and commercial air conditioning
- Cold rooms and freezer rooms
- Milk chillers and vats
- Industrial liquid chillers (commercial and industrial)
- Refrigerated containers

### **Engas M60: special purpose hydrocarbon refrigerant**

M60 is a special purpose HC refrigerant specifically designed to replace R410a in residential and commercial air-conditioning systems. M60 can save approximately 35% on energy usage and help reduce wear and tear as a result of the system conversion.

### **About Engas**

Based in Perth, Australia, Engas is an environmental and energy efficiency company focused for over a decade in the field of hydrocarbon refrigerant technology. The company's expertise in research and development has established them as an environmental leader pioneering the field of specialty blended hydrocarbon refrigerants in Australia and the Asian region. Engas distributors can be found in Australia, Indonesia, Malaysia, Thailand, Philippines and China.

© 2014 hydrocarbons21.com - Managed by shecco™