

The integration process of Coolgas into the A-Gas Americas group continues to add additional value and resources to its customer base and strengthens our position in US markets.

Coolgas can competitively offer all mainstream HCFCs and HFCs (and other natural gases) needed in today's market, including the top-of-the-line R-22 retrofit refrigerants Cool50™ (R-424A) and Cool55™ (R-434A). We can also assist with refrigerant reclaim, separation or destruction, cylinder re-certifications, bulk deliveries, technical assistance, lab services, etc.

Give us a call and let us know how we can help you.

Call us **1.800.366.1356**



## New People At Coolgas.

Gus Rolotti is our new Vice President of Technical Sales and Marketing. Gus is based in our Doylestown, PA sales office and comes to us with over 30 years of technical experience in the HVAC/R market. He has worked in

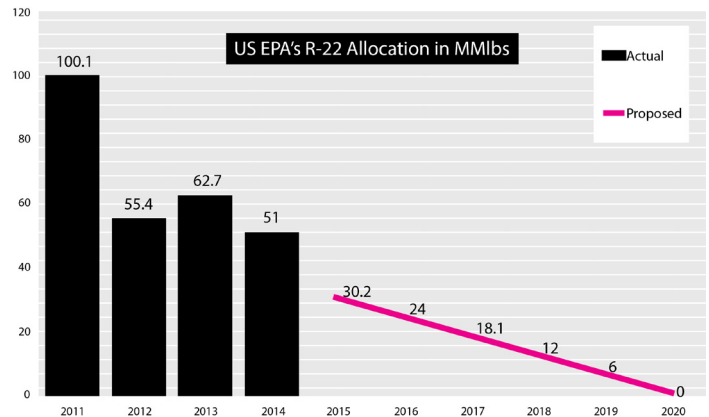


automotive A/C design and more recently served as Technical Director and Product Steward for a large refrigerant manufacturer. Gus holds a BS and MS in Mechanical Engineering from Syracuse University. Gus enjoys sailing in the Chesapeake Bay. He can be reached at:  
**gus.rolotti@coolgas.com**

**Gus Rolotti**  
"Our New Vice President of Technical Sales and Marketing."

## Regulatory News

EPA R-22 allocations: The US EPA has set its 2014 R-22 allocation limits as seen on the following chart.



The black bars indicate the total levels of R-22 available to the market (production + imports) in millions of pounds. However, the EPA is working on allocation levels for next year and beyond. The EPA is communicating to producers, importers, distributors, and consumers trying to assess the best way to expedite the phase out of ozone depleting chemicals without major disruptions to the domestic market. The magenta line shows one such proposal at the time of writing. Please note that this is just a proposal and has not been finalized. Coolgas and A-Gas continue to participate in industry meetings to provide input on future allocation rules.

**"The US E.P.A. has set its R-22 allocation limits for 2014"**

Coolgas, Inc. remains committed to supplying our current customers with R-22 (virgin or reclaimed) and its replacements as EPA allocations allow.

Mexichem Fluor has launched a complaint with the U.S. International Trade Commission (ITC) alleging that Chinese companies are dumping R-134a in the US market and therefore hurting domestic R-134a producers. The ITC has determined that sufficient evidence exists to support their case and voted to have the US Department of Commerce continue its investigation. The investigation will determine if, in fact, there has been evidence of dumping, the extent of it, the time period covered and the potential penalties. Any DoC findings would only affect imports of Chinese R-134a but would have no effect on any other R-134a imports.

**"The investigation will determine if, in fact, there has been evidence of dumping."**

A ruling on this matter is expected later this year. We will update you in future editions of CoolNews. Coolgas currently offers R-134a sourced from non-Chinese producers, if needed.

# New Pressure/Temperature chart and updated literature

The technical staff at Coolgas is working on a new pressure/temperature (P/T) chart that will soon be released. The chart will not only have updated P/T information on most common refrigerants, but will also have additional information on our R-22 retrofit refrigerants, Cool50™ and Cool55™, which are not included. The data is being generated using the latest version of the industry standard software REFPROP which was written and developed by NIST. The new P/T chart will be posted to our website: [www.coolgas.com](http://www.coolgas.com).

Our technical team is also working on updating our literature on Cool50™ and Cool55™ with new information on retrofit procedures, technical data and reference information. It will be on our web site soon.

## Our R-22 Retrofit Refrigerants: Cool50™ and Cool55™

Coolgas Inc. has added two new refrigerants to its line-up of retrofit refrigerants: Cool50™ for A/C and Cool55™ for refrigeration (ASHRAE R-424A and R-434A respectively). Both refrigerants have been tailored to match R-22's capacity and efficiency, and with the addition of some hydrocarbons to their make-up, they have exceptionally good miscibility with traditional R-22 oils. While a change to a POE oil is always recommended when using a HFC blend, the added miscibility of these products allows for their application in a number of cases in which an oil change is either not practical, or cost effective. Using the correct oil in a system will not only extend its life, but will also afford the best capacity and efficiency after a retrofit.

Cool50™ is unique in that it has a very low glide of about 1.5 F. This makes it suitable for applications in flooded evaporators.

Our R-22 retrofit refrigerants: Cool50™ and Cool55™

# Tech Brief: What is the difference between R-407A and R-407C?

There are two refrigerant products that are often mentioned as R-22 replacements, both as retrofit and OEM replacements; R-407A and R-407C. However, users are frequently confused by the similarity in their assigned numbers and do not fully understand their differences.

Both refrigerants are 400 series HFC blends. ASHRAE standard 34 designates the 400 series for zeotropic blends (500 is for azeotropic blends). They are both made up of the same basic components: R-32, R-125 and R-134a. However, the capital letter A or C indicates that each one has a uniquely distinct composition. R-407A is 20/40/40 % by weight while R-407C is 23/25/52. So, in spite of having the same components, their different ratios make them two completely different refrigerants.

**"They are best positioned as retrofit refrigerants."**

R-407A is better suited to low temperature refrigeration applications, and is typically used in supermarket refrigeration competing with R-404A and/or R-507A. R-407C is better suited for medium to high temperature applications such as air conditioning. While both blends can be currently found in new OEM equipment, they are best positioned as retrofit refrigerants, and as such, they offer the closest match to R-22 in terms of capacity and performance of any other blend and in addition, they offer one of the lowest levels of GWP.

Unfortunately, they have very poor miscibility with the standard R-22 mineral or alkyl benzene lubricant oils and require a complete replacement to a POE type oil in the system. This last point has turned some contractors away from them and into easier retrofit refrigerants such as Cool50™ and Cool55™.

## Send us your Questions!

Coolgas, Inc. would like to help you with your refrigerant questions. If you need any information or have any questions that you need answers to, please email us at: [AskGus@coolgas.com](mailto:AskGus@coolgas.com) and we will try to answer them here. Please remember that this is only for general, non-emergency questions regarding our refrigerants. If an immediate response is needed, please continue using your current channels of communication with the Coolgas staff.

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