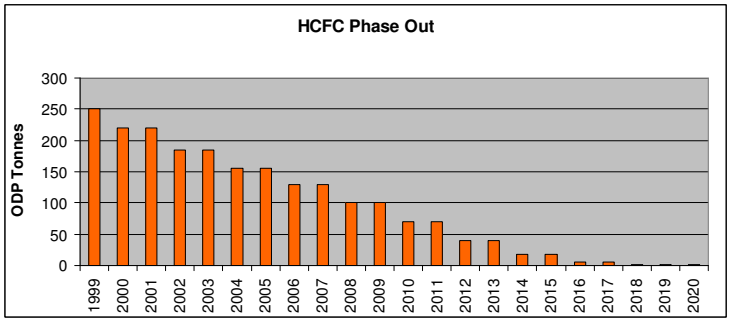
R22 REFRIGERANT PHASE-OUT

Confused about R22 phasing out? Worried you don't have all the answers?
Relax - you are in good hands with Heatcraft, Australia's leading refrigerant supplier and Gas2Know, the knowledge brand of Gas2Go®.

Let us take you through the program that Heatcraft offers, 5 steps to complete understanding.



❶ R22 Phase out

Under Montreal Protocol, all Hydrochlorofluorocarbons (HCFCs) are being phased out – a total phase out by 2020.

❷ Evaluate your equipment

R22 has proven itself over its long product life to be a very stable, capable and diverse refrigerant. It has a large install base in the Australian market and up till mid 2010 was still imported in new equipment. This means there is a lot of very serviceable equipment in operation today. It is important to remember that this equipment may have many years of service left so when R22 is no longer available, there will be a replacement* "drop-in" product to suit.

❸ What options do you have?

There are a few options available. Once the decision has been made to keep the equipment in service and there is no R22 easily available to service it – you can either "retrofit" the system to R407C (high temp) or R404A (low temp) or you could use a "drop-in" replacement as listed next. Current "drop-in" replacements available from Heatcraft are:

R417A Du Pont™ ISCEON®MO59 - capillary and small capacity system medium/high temp
R438A Du Pont™ ISCEON®MO99 - larger capacity medium / high temperature
R424A Xchange® - capillary and small capacity system medium/high temp
R434A Xchange® - larger capacity systems, low temp & flooded systems

**** Please remember that you cannot top-up on top of an R22 charge with a drop-in, they do not mix.***

❹ Weigh up the options

All refrigerant replacements for R22 that you will consider will be HFC based. The difference between a system retrofit for R407C or R404A is that you are required to change the systems oil to a POE oil, change the driers, any other non compatible seals and make TX valve adjustments. To convert a system to a "drop-in" replacement will require all the above but generally not an oil change. Finally you will need to be aware that the all 400 series refrigerants are zoetropes (though some are near azeotropes) and as such need to be handled a bit differently than single component refrigerants such as R22.

a) They need to be charged via liquid
b) They have varying degrees of temperature glide
c) Some can fractionate and change state if leaked from a system
d) Not every product will replace every application that R22 was used for – you need to select the right replacement gas for the right application

❺ Where do you go for this knowledge?

Heatcraft Australia has you covered. Through the Gas2Know program, Heatcraft can provide product / application training, taking out the guessing and confusion about replacement products for existing R22 installations. Heatcraft also stock a comprehensive range of refrigerants that can be used instead of R22 thus ensuring you have access to the right product for all application needs. Simply contact your nearest Heatcraft branch on **13 23 50** and let us provide the answers.