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Refrigerant Changes are Coming

The old saying, “change is the only constant” could very well have been written about which refrigerants facilities can use.

AQMD/CARB has laid out a plan to phase-down HFC’s from 2015 to 2030 in an effort to reduce global warming. This has resulted in facility managers paying more for refrigerant, with some having to retrofit or rebuild their systems.

Even some of the replacements that came out a few years ago are going to start being phased out and then banned. By 2022, R-422 will probably be the only refrigerant that’s acceptable for commercial retrofits.

A broad summary of some of the key upcoming restrictions is below.

Year	System	Regulation
2020	Commercial refrigerators and freezers, hermetically sealed, GWP \geq 2500	Bans R404A/507
2020	Equipment using new refrigerants with GWP \geq 2500	Bans servicing of 404A/507 equipment with 10.2kg+ charge using new 404A/507. Recycled refrigerant still allowed.
2020	Stationary refrigeration equipment, GWP \geq 2500	Bans R404A/507
2022	Commercial refrigerators and freezers, GWP \geq 150	Bans R134a
2022	Multipack centralized refrigeration systems, GWP \geq 150 or \geq 1500 for primary circulation of cascades.	Bans traditional HFC, except R134a in cascades
2030	Equipment using refrigerants with GWP \geq 2500	Bans servicing of 404A/507 equipment with 10.2kg+ charge

There isn't a one-size fits all solution due to the various systems out there and complexity of the restrictions. Fortunately, there's still plenty of time to plan ahead.

[Contact TDI Refrigeration](#) to make sure you're in compliance now **and** for when the next phase rolls out.

TDI Refrigeration Shines with Big Projects



[TDI Refrigeration](#) was founded back in 1999 as a one-man operation servicing commercial refrigeration systems. Fast forward to 2016 and TDI manages multi-million dollar projects.

We have the experience and capacity to implement the design, engineering, construction, and maintenance of large refrigeration systems. TDI's [Mechanical Engineer](#), Tom Dosch, is the best in the business at designing exceedingly efficient systems that meet code to a 'T'. He also has a Professional Engineering (PE) license in California, Utah, Arizona, Hawaii and Texas to help funnel projects through the permitting process.

TDI has successfully completed design builds of single stage, two-stage, and cascade ammonia refrigeration systems. Our team also builds to pre-defined specifications, but proactively suggests value-added options if there's a smarter way to reduce cost or improve efficiency. Sometimes it's as simple as suggesting another manufacturer with a more competitive package.

With even more refrigerant phase-outs coming soon, it's critical to work with experienced companies to ensure your systems are built for maximum efficiency and long-term compliance. [Contact TDI Refrigeration](#) if you're planning a new build or want your existing system evaluated.

Electronic Maintenance Tracking and Invoicing

We're glad that so many of you are taking advantage of our electronic service orders, invoices, and AQMD forms. After all, who wants to file away stacks of paper? It's so much easier to have an electronic logbook.

AQMD/CARB also prefers having their electronic forms attached to invoices because they can see the repairs on the invoice. There are other benefits too:

"We use TDI Refrigeration to help out our in-house guys with repairs. In May or June we had an issue with one of our facilities. TDI quickly took care of it and I had a detailed report in my inbox within four hours. It had descriptions of their findings, how they fixed it, and even had pictures. Even though I wasn't on-site, it confirmed the technician did quality work. It's been five months now and we've had no issues with the unit since. I am so impressed with TDI's response time and email verification!"

- Dann Ades, President, [Cold Star Ice](#)

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