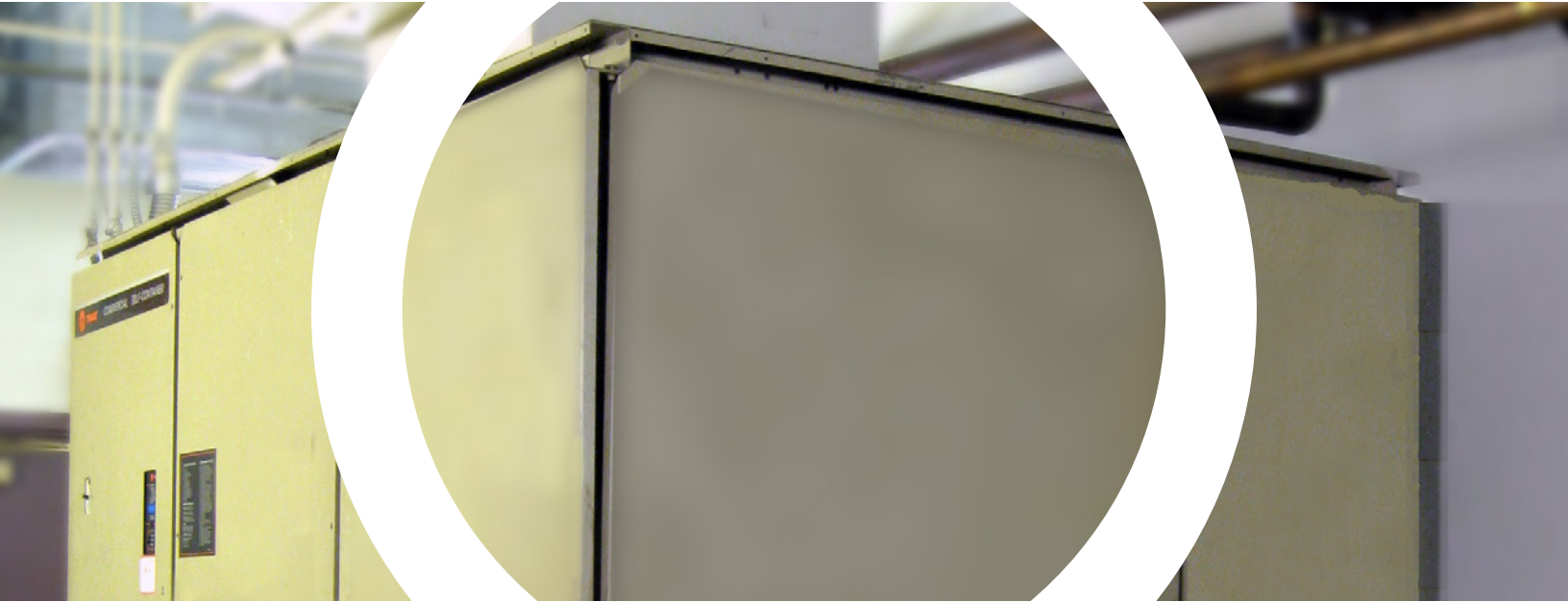


Commercial Self-Contained Air Conditioner R'newal™ Service Program



Helping to sustain equipment reliability and efficiency

Trane Self-Contained air conditioning units are designed to run for decades, but every unit's maintenance and usage is different, and by mid-life, the refrigeration system can cause trouble. Fixing compressors is harmful to budgets and disruptive to building occupants, and it hurts to pay for emergency compressor replacements when you know that the unit has up to four other compressors that are just as old.

The Trane exclusive Commercial Self-Contained R'newal™ service program is for owners who wish to sustain their equipment's reliability and efficiency over a lifetime of 30 to 40 years or longer. It is an exclusive Trane-backed, Trane-warranted solution to replace worn compressors, restore unit performance, and provide the same reliability for the replaced materials as seen on new Trane units.

Program content

The Commercial Self-Contained R'newal program is a Trane service offering that is backed by the same parts and labor warranty options offered on new Trane equipment. It comes with a new Trane nameplate for easy parts ID and support. The program allows users to customize their content and start with a base R'newal that includes replacement of all unit compressors, to optional replacement of condenser heat exchangers, fan motor and fan drive (if equipped).

Standard Self Contained R'newal service program base content

The base R'newal addresses known wear items common to older Self-Contained units including:

- **New or remanufactured Trane Service compressors and related pressure switches**

- Trane compressors include up to a 5 year parts and labor warranty.

- **New compressor contactors and fan contactors**

- Installing new contactors prevents failure of worn out contactors and resulting damage to compressor and fan motors.

- **New supply fan air flow switch**

- A failed air flow switch will disable fan, cooling and/or heating.

- **Updating units to new 3 phase protection module (if applicable)**

- This module is standard on new units. It prevents compressor or fan motor failure due to incoming power phase loss or phase reversal.

Optional service content

Optional service content varies from a single component (example: replace a water cooled condenser), to a combination of services to rebuild a complete unit. Most are backed with the same 1 year parts warranty provided with new Trane equipment. Optional service content includes:

Option	Description	Improves Reliability	Significant Repair Avoidance	Improves Energy Usage	Why consider replacement?
Water cooled Condensers	Replace all condensers	X		X	Condensers are designed to last the life of the unit. Replacements are usually needed due to fouling and leakage caused by bad water treatment.
Water cooled Economizer	Replace economizer coil			X	Economizer coils are designed to last the life of the unit. Replacements are usually needed due to fouling and leakage caused by bad water treatment.
Replace existing fan VFDs.	Install new Trane TR200 to replace prior generation VFD	X		X	VFDs are high maintenance items, and many of Trane's original VFD parts are no longer supported. Changing them all at the same time improves reliability and streamlines future support.
Replace existing fan inlet guide vanes with VFD	Install new Trane TR200	X		X	The fan inlet guide vane assemblies are no longer supported. Replacing them with new Trane TR200 drives at the same time improves reliability and streamlines future support.
Install new high efficiency VFD-compatible fan motor	Install new motor; Existing motors may not be VFD-compatible			X	VFD-compatible motors are required to assure reliability for VFD installations.
New supply fan bearings	Install new supply fan bearings		X		Failed bearings can destroy the fan shaft, wheel, and scroll. Such a failure would typically result in at least a week of downtime.
Fan power transmission	Replace supply and exhaust fan belts and pulleys	X		X	Worn pulleys result in a typical 5% efficiency lost due to belt slippage; this also accelerates belt wear and reduces service life.

*Compressor replacement option requires that the condenser be in good serviceable condition.

Condensers having significant corrosion, fouling and/or damage shall either be replaced or repaired as part of the compressor installation.

Additional services and options

An R'newal can be customized to meet a unit's requirements. Non-standard R'newal options include service of air-cooled condenser units, water regulating valves, and damper components. In addition, Trane can provide field technical services including: drain pan repair, coil and drain pan cleaning and re-insulation, as requested.



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