

Trane IntelliPak® Refresh Service Program



Helping to sustain equipment reliability and efficiency



Designed for longevity, Trane IntelliPak® units regularly deliver reliable service long past the 15 year industry-expected life for rooftop-mounted equipment. When good, running IntelliPak units approach this mark, owners have told us they are frustrated that their only options have been:

- Do nothing and fix problems on failure
- Install new units

The IntelliPak refresh service program offers a new option. This exclusive Trane program replaces the wear components that cause problems on older units on a proactive basis. It reduces unplanned repair costs, restores lost efficiency, and avoids major downtime for owners who want to keep their units for 20 years or longer.

Program content

The IntelliPak refresh program is a Trane service offering that is backed by the same standard one year parts warranty and optional extended parts warranties 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 go from a simple base refresh to a comprehensive total overhaul of unit compressors, heat exchangers and motors.

The base refresh addresses known wear items common to older IntelliPak units including:

- Replacing compressor and fan contactors
 - Failed contactors disrupt equipment operation and can damage compressor and fan motors.
- Replacing supply fan and combustion air fan make up switches
 - Failed switches disable cooling and or heating operation.
- Restoring cabinet leak integrity by replacing door and panel gaskets and lost fasteners
 - Cabinet air leaks can waste 5% or more of unit energy. Failed gaskets and lost fasteners can also allow storm water leaks into buildings.
- Updating the controls with a new 3 phase power monitoring module
 - This module is standard on new IntelliPak units. It locks out the unit when it detects utility caused phase loss or phase reversal. This prevents severe damage to compressor and fan motors.

Optional service content

Optional service content varies from a single component (example: replace a failed outside air damper), 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. Compressors are offered with a 5 year extended warranty when Trane provides the equipment maintenance. Optional service content includes:

| Option | Description | Improves Reliability | Significant Repair Avoidance | Improves Energy Usage | Comment |
|---|---|----------------------|------------------------------|-----------------------|--|
| Condenser fan | Replace fan motors and blades | X | X | | Fan motors are high usage parts. Motor failures reduce unit efficiency and can result in compressor damage. Blade failures can result in condenser failure. |
| Fan power transmission | Replace supply and exhaust fan belts and pulleys | X | | X | Worn pulleys have resulted in as much as 30% efficiency lost due to belt slippage; this also accelerates belt wear and reduces service life. Failed bearings can destroy the fan shaft, wheel, and scroll. Such a |
| Fan bearings | Replace supply fan and exhaust fan bearings | | X | | failure would typically result in at least a week of downtime. IntelliPak IGV components are no longer available from Trane Supply. |
| Replace existing fan IGV assembly | Upgrade existing inlet guide assembly to variable frequency drive | X | X | X | Most IGV assemblies wear out before the unit's life ends. If the assembly fails, it will take several days of downtime to convert the unit to VFD control. The new VFD replacement reduces fan energy by 25%. |
| Replace existing Square D fan VFD | Upgrade existing VFD with new Trane VFD | X | | | Square D VFD components are no longer available from Trane Supply. Most Square D fan VFDs will wear out before the unit's life ends. If the drive fails, it will take several days of downtime to convert the unit to a new Trane VFD and unplanned conversions are expensive. |
| Replace unit compressors* | Replace all existing compressors with new compressors | X | | | Compressors will typically start having problems after 20 years. Proactive replacement can be appropriate for mission critical units. Also, replacing all compressors at the same time is less expensive and disruptive than replacing them piecemeal. |
| Rebuild motorized outside air dampers | Replace actuators and linkage, and rebuild worn bushings | | | X | Motorized dampers can wear out, causing significant air leakage. This wear is often due to dusty environments. A motorized damper failure can result in a 25% loss in unit capacity/efficiency. |
| Replace seized or failed gravity-operated dampers | Install new damper assembly | | | X | Gravity-operated dampers can seize due to wear and corrosion. This can cause lost building pressurization control and significant air leakage. A seized gravity operated damper can result in a 25% loss in unit efficiency. |

*Compressor replacement option requires that the condenser be in good serviceable condition. Condensers having significant fin corrosion and/or damage should be replaced as part of the compressor installation.

Additional services and options

A refresh can be customized to meet a unit's requirements. Non-standard refresh options include replacement of air-cooled condenser coils, evaporative condenser assemblies, gas heat exchangers and valves, other major wear unit components, and drain pan repair or replacement. In addition, Trane can provide field technical services including: coil and drain pan cleaning, cabinet painting, repair and re-insulation, as requested.

For additional information, contact your local Trane office or account manager.



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