Ball Bearing Housed Units for HVAC

TIMKEN



Timken® Fafnir® housed units help prevent vibration corrosion in the HVAC industry.

Timken® Fafnir® housed units are the ideal solution for the Heating, Ventilation and Air Conditioning industry. They help reduce vibration, are easy to install and run cooler at higher speeds to extend grease life. Timken housed units keep lubricants in and contaminants out. Designed to maximize performance, a housed unit combines the bearing, housing, seal and locking system into one device for easy installation and operation. Installed in a sturdy housing, each bearing provides shaft support for radial, thrust or combination loads to reduce friction in applications.

Timken RABR housed units feature a conductive rubber interliner to dissipate static charges. Vibration and noise from grounding springs are eliminated. Extended inner ring bearings are pre-lubricated and have positive contact, land-riding seals with self-locking collars. These units can be mounted in tri-arm brackets or pressed steel stampings.

Timken's Shaft Guarding Technology

Timken has introduced one of the easiest-to-install housed units available. Timken housed units with shaft guarding technology feature a conventional setscrew, but provide shaft protection and prolong the life of the shaft – no nicks, raised metal or permanent shaft damage. You'll find Timken's patented shaft guarding technology where production uptime is critical and shaft replacement is expensive.

Shaft guarding technology exceeds gripping application requirements, maintains dimensional integrity and reduces fretting corrosion. It locks to the shaft like a traditional setscrew, but with new benefits.

- *Faster and easier installation and removal*
- *Reduces number of shaft replacements*
- *Requires less shaft preparation*
- *Reduces system costs*

Where traditional setscrew products rely on the setscrews to dig into the shaft to maintain grip, Timken's shaft guarding technology transfers the pressure of the setscrews through a stainless steel, hardened band. This absorbs the problems encountered from relative motion typically associated with setscrew product. The stainless band will not corrode to the shaft.

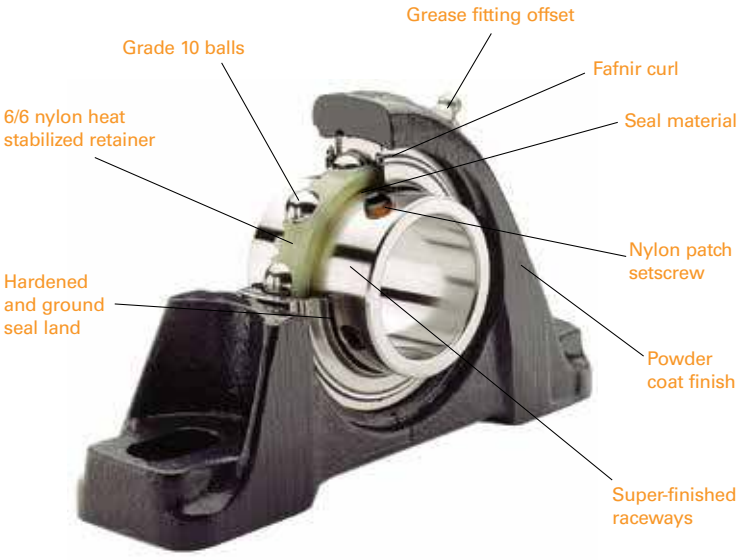
Timken Grease and Lubricants

Timken offers a complete line of application-specific, custom-formulated lubricants that help bearings and components operate efficiently in industrial environments. High-temperature, anti-wear and water-resistant additives offer superior protection in the harshest conditions. You can turn to Timken for all the friction management products you need to extend life, boost productivity and reduce downtime.



The HVAC Industry Turns to Timken® Fafnir® Housed Units

FEATURE	BENEFIT
Fafnir curl	Mechanical attachment of seal is secure, resisting "pop-out" during re-lube and inhibiting spinning of the seal in the outer ring seal groove.
Seal material	Buna-N rubber has cotton fiber, embedded to wick oil, which enhances lubrication and improves sealing integrity.
Super-finished raceways	Even surfaces reduce friction, leading to cooler, quieter running and longer life.
Hardened and ground seal land	Seal protected from inner ring abrasion, resulting in less wear (longer life) and prolonged seal integrity.
Grade 10 balls	Quiet and smoother-running bearings resulting from higher specification steel and improved roundness.
Double-filtered polyurea grease	Particles that can cause noise in application are removed. Improved lubrication cleanliness also leads to superior performance at higher speeds.
6/6 nylon heat stabilized retainer	Excellent misalignment capability. Resists size changes and moisture trapping. Non-corrosive and self-lubricating, as well as resistant to abrasion, wear and most solvents.
Special quality steel	Fewer carbides, inclusions and voids result in reduced risk of stress risers that can cause premature fatigue.
Grease fitting offset	Minimized risk of accidental and side impact, while maintaining accessibility for single-point lubricators.
Powder coat finish	Chipping, scratching and subsequent exposure to parent metal is reduced, helping to prevent corrosion.
Housing tolerances	Better grease purge throughout the bearing due to reduced risk of grease purge at outer diameter.



TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including bearings, gears, belts, chain and related mechanical power transmission products and services.

Stronger. **Commitment.** Stronger. **Value.** Stronger. **Worldwide.** Stronger. **Together.** | **Stronger.** By Design.

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