

ECODYNE

Cooling Tower Review



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Cooling Tower Coupling Systems

The trend of replacing steel couplings in cooling tower fan applications with newer technology composite coupling systems continues with great success. The first composite couplings were introduced to the cooling tower industry in 1987 and today are almost used exclusively in new cooling tower designs. Cooling tower fan applications as well as other power transmission requirements benefit from the following advantages;

- High strength to weight ratio
- Corrosion resistant
- Elimination of intermediate bearings on long spans
- Reduced bearing loads
- Low vibration
- Very low thermal expansion
- High critical speeds

The specific modulus of the composite material is 3 1/2 to 5 times that of steel alloys. This allows composite spacers to span almost twice the distance of a comparable metal spacer, without the need for intermediate bearings.

Not only is the spacer tube constructed of filament wound composite materials, the flexible elements, traditionally the multi layered steel disc packs found in steel couplings, are also constructed of continuous fiber composites. Fretting and stress crack corrosion, the leading contributors to metal disc failure have been eliminated.

For breakdown emergencies, most composite coupling systems can be shipped the same day, when ordered by 10:00 am. Normal deliveries, without premium charges are generally 3-4 weeks.

For a quotation or additional information contact Ecodyne Limited toll free at 1-888-Ecodyne or email us at mark.kerr@ecodyne.com.



A Member of the Marmon Group of Companies

**For After-Hours, Weekends and Holiday Emergency Service call us at 416-814-8294.
Website: www.ecodynecoolingtowers.com**

Raymond Shennan Joins Ecodyne Field Construction Team

Many will recognize Raymond from his previous work in the cooling tower industry, predominantly in Western Canada. We are pleased Raymond has joined Ecodyne Cooling as Field Superintendent, Western Canada based in Edmonton, Alberta. Raymond brings many years of experience in cooling tower construction, rebuilds, inspections and preventative maintenance.

Raymond can be reached by calling our office toll free at 1-888-Ecodyne or mobile (780) 982-2480 or via email at raymond.shennan@ecodyne.com

Do You Have the Spare Parts Needed to Insure Uninterrupted Service from your Cooling Tower?

Don't get caught with an untimely breakdown in July and no spare parts on hand. Although we can offer rush delivery service on most parts, it's far more cost effective to maintain the basic spares in your inventory. Parts for drive shafts, gear reducers, fans and water distribution nozzles are a few of the key items which should be considered.

To discuss your spare parts requirements contact Ecodyne Limited toll free at 1-888-Ecodyne or by email at mark.kerr@ecodyne.com

'A' Series Right Angle Gear Drives for Cooling Towers Direct drop in Replacements for Marley Gear Drives

Ecodyne Limited provides the 'A' Series right angle gear drives for Marley cooling towers. Manufactured by Amarillo Gear, these units maintain the same critical mounting dimensions as the Marley M series making replacement easy and cost effective. Foot patterns, shaft dimensions and keyways are unchanged eliminating the need to replace existing couplings and drive shafts. Reduction ratios are within 2% of the Marley reduction ratios. Widely accepted by many users, the 'A' series drive offers a cost effective replacement with lead times and service capabilities the cooling tower market requires.

Design features are in accordance with or exceed the minimum requirements of AGMA and CTI standards.

For a quotation or brochure on the 'A' series Right Angle Gear Drives, contact Ecodyne Limited toll free at 1-888-Ecodyne or email us at mark.kerr@ecodyne.com