

The logo features the word "HYSTER" in a bold, white, sans-serif font, set against a black rectangular background.

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PI.B.

Product Information Bulletin

PIB Number: 03.0328

Date: March 28, 2003

Series Impact: H177

Subject: H45-65XM

Description: H45-65XM RADIATOR UPDATE

As a result of Hyster Company's continuous product improvement process, new radiator offerings for the H45-65XM product will be implemented into production effective April 1, 2003. The new CoPar built "Z" wave construction and an optional Open Core (fin and tube) radiator will replace the existing Modine built square wave radiator design utilized on this truck series.

Re-sourcing to CoPar allows us to provide a radiator with improved field results. These same designs are currently being utilized in our cushion tire S40-65XM product manufactured in Berea. **The standard Z-wave radiator option number is 022-01, and the optional Open Core number is 022-03 – The Open Core list price is \$140.**

The standard radiator should be used for all applications except where there are high airborne contaminants that could plug the standard radiator core. For such an application where high airborne contaminants exist, it is suggested you use the Open Core version.

COPAR RADIATOR THERMAL EFFICIENCY

Test results of the "old" and the "new" show the following: Pressure drop across the old (Modine) Square Wave is greater than the two new CoPar radiator options. Thermally, the standard CoPar Zwave is 5% more thermally efficient than the current Modine radiator. The optional CoPar Open Core compares favorably with our previous Open Core design supplied by NRF (prior to the Modine introduction) having 25% better thermal efficiency. The new CoPar Open Core radiator has less core thickness than the old Modine Square Wave, which reduces potential for "clogging" in the core area. The two new CoPar radiators will not have a low coolant sensor in the system. For operational temperature use the temperature gauge built into the dash.

Please take these changes into account as you place orders for new trucks and provide aftermarket parts support to your customers.

Please remember to refresh HERO by selecting the "completely reload tables" option in the download area of the price book thereby activating this series. Updated standard price pages are also available to you electronically through the dealer portal by visiting www.hysterusa.com

As always, we appreciate the support of our distribution network and the sales organization.

Sincere Regards,

A handwritten signature in dark ink, appearing to read "Pete M. Siessel".

Pete Siessel
Vice President, Marketing
Hyster Company