



It's time to get comfortable.

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**Date:** October 21, 2010 **YS-042-10**

**To:** All York Branch Service Managers  
All York Distribution Service Managers  
All Regional Managers

**Subject:** Demand Defrost Curve 2

**Units:** YHJD, THGD, YHJF and THGF models with scroll compressors

A new feature has been added to demand defrost board S1-03101975102 (kit # S1-33101975102).

Defrost Curve 2 has been modified to include a compressor delay on the initiation and termination of the defrost cycle. This change creates improved startup conditions for the compressor, eliminating noisy chatter during defrost shift, and improves the compressor pumping rate. This enhancement increases the speed of reversing valve shift, decreasing shifting losses, while accelerating and improving the defrost cycle. The defrost profile for Curve 2 is the same as Curve 1 except for this compressor delay feature.

Units shipped from Wichita after July 5, 2010 (W1G0) contain the new "295" control logic board. During factory production, units containing a reciprocating compressor are set on Defrost Curve 1, and units with a scroll compressor are set on Defrost Curve 2. The compressor delay feature should only be used on units with a scroll compressor. Units with a reciprocating compressor will not benefit from this new feature.

Current fourth generation models of YHJD, THJD and THGD heat pumps have been redesigned with a time/temperature style defrost board (S1-03101954000). This YS letter is not applicable to those models.

For field installed units demonstrating noisy compressor operation, low pumping rate and/or slow shift of the reversing valve during the defrost cycle, this YS letter will allow a fix-on-fail replacement of the defrost board, with a 1 hour labor credit at the dealer's registered DOA labor rate.

Sincerely,

**Mark Freund**

Manager, Residential Field Service  
Johnson Controls Unitary Products

**Jeff Nichols**

Director of Engineer  
Residential Heat Pump Products