

**NO:** MB2012CC-5  
**DATE:** 2/24/12  
**TO:** Refrigeration Original Equipment Manufacturers & End Users  
**FROM:** Emerson Climate Technologies, Inc. – Refrigeration  
**SUBJECT:** Copeland Scroll™ K5 Compressors for Refrigeration with CoreSense™ Diagnostics  
**EFFECTIVE DATE:** Immediate

In response to critical refrigeration market needs for higher efficiency and more reliable compressors, Emerson Climate Technologies, Inc is pleased to inform you about the launch of the Copeland Scroll™ K5 compressor for refrigeration. This new product is for low, medium, and high temperature applications with R-404A, R-407A, R407C, R-134a, R-507, and R-22. The Copeland Scroll K5 compressors offer many benefits over the current product:

- 6-15% Efficiency Improvement
- 4-6 dBA Sound Reduction
- Improved Reliability with CoreSense Diagnostics
- Reduced Oil Circulation
- Reduced Weight
- U.S. Manufacturing



Samples are currently available to help the transition to the new product. Refer to Table 4 for the product release schedule. Another bulletin will follow detailing the phase-out schedule of the current ZB56KC-ZB11MC, ZS56K4-ZS11M4, ZF24KV-ZF48KV, and ZF24K4-ZF48K4 products. The phase-out of these products will occur in December 2012.

**Table 1 – ZB K5 Refrigeration Model Cross Reference (20/120/65RG / 404A / 60 Hz.)**

Current ZB & ZS Models	New ZB K5 Ref Models	Capacity
ZB56KC/KCE ZS56K4/K4E	ZB58K5E	58,900
	ZB66K5E	67,000
ZB75KC/KCE ZS75K4/K4E	ZB76K5E	78,200
ZB92KC/KCE ZS92K4/K4E	ZB95K5E	96,300
ZB11MC/MCE ZS11M4/M4E	ZB114K5E	115,000

**Table 2 – ZF K5 Refrigeration Model Cross Reference (-25/105/65RG / 404A / 60 Hz.)**

	Current ZF Models	New ZF K5 Ref Models	Capacity
No Injection & Liquid Injection	ZF33K4/K4E	ZF34K5E	32,000
	ZF40K4/K4E	ZF41K5E	39,300
	ZF48K4/K4E	ZF49K5E	47,000
Vapor Injection (maximum subcooling)	ZF33KVE	ZF34K5E	47,000
	ZF40KVE	ZF41K5E	58,000
	ZF48KVE	ZF49K5E	66,000

**Table 3 – BOM Guidelines for Copeland Scroll K5 Refrigeration (i.e. ZF34K5E-TFD-260)**

First Digit	Second Digit	Third Digit
2 – Domestic (U.S.)	6 – Rota Loc With SG & SV	0 – Top Cap Thermistor
5 – International		5 – Top Cap - Cap & Spring
9 - Wholesale		

**ZB K5 BOM's Available: -260, -560, -960**  
**ZF K5 BOM's Available: -260, -265, -560, -565, -960**

**Table 4 – Copeland Scroll K5 Refrigeration Availability Matrix**

Model	TFD (460/60 & 400/50)	TFC/TWC (230/60 & 200/50)	TFE/TWE (575/60)	TF7 (380/60)
ZB58K5E	Now	Now	Apr-12	May-12
ZB66K5E	Now	Now	Apr-12	May-12
ZB76K5E	Now	Now	Apr-12	May-12
ZB95K5E	Now	Apr-12	Apr-12	May-12
ZB114K5E	Now	Apr-12	May-12	May-12
ZF34K5E	Apr-12	Apr-12	May-12	May-12
ZF41K5E	Apr-12	Apr-12	May-12	May-12
ZF49K5E	Apr-12	Jun-12	Jul-12	Aug-12

Please refer to [AE-1383](#) for further details on the application of Copeland Scroll K5 compressors for refrigeration. For more information on the benefits of the compressor, please contact your district sales manager or application engineer, or visit [www.emersonclimate.com/CopelandScrollK5](http://www.emersonclimate.com/CopelandScrollK5).