

NO: 06-09
DATE: 02/25/2009
TO: All Customers
FROM: Emerson Climate Technologies – Europe
SUBJECT: ZR90K-ZR19M 7-15 Hp Phase-Out Road Map

After the successful introduction of the second generation of scroll compressor in June 2007, Emerson Climate Technologies is announcing the phase-out road map of the models ZR90K*, ZR11M*, ZR12M*, ZR16M*, ZR19M*. (7.5 – 15Hp). These compressors are primarily used in high temperature Air Conditioning and Process Chiller applications.

Schedule

	Today			AVAILABILITY		
	Oil	Connection	Modul	2009	2010	2011
ZR*KC	Mineral	Rotalock	24 V / 230 V			
		Braze	24 V / 230 V			
ZR*KCE	Ester	Rotalock	24 V / 230 V			
		Braze	24 V / 230 V			
ZRT / ZRU	Tandem					

Last ordering date	31st Oct 2009	31st Oct 2010	31st Oct 2011
Last shipping date	31st Dec 2009	31st Dec 2010	31st Dec 2011

- After the 1st January 2012, only 1 service dedicated Rotalock Bill Of Material of compressor will be available. It will be available in low quantity, longer lead time and with price premium.
- Conversion kit for service purpose will be available using new model

Cross reference table

Each model has one equivalence according to the following

Discontinued Model			Replacement			Difference	
Model	Capacity	COP	Model	Capacity	COP	Capacity	COP
ZR90K3E-TWD	18.7	3.14	ZR94KCE-TFD	20.6	3.29	10.2%	4.8%
ZR11M3E-TWD	22.7	3.17	ZR108KCE-TFD	23.0	3.36	1.5%	6.0%
ZR12M3E-TWD	26.3	3.22	ZR125KCE-TFD	27.0	3.35	2.6%	4.0%
			ZR144KCE-TFD	30.9	3.39		
ZR16M3E-TWD	32.2	3.14	ZR160KCE-TFD	33.5	3.24	3.9%	3.2%
ZR19M3E-TWD	39.4	3.21	ZR190KCE-TFD	39.3	3.19	0%	-0.6%

Main feature & differences

	Discontinued	Replacement
Motor Protection	Kriwan INT69	Klyxon
Discharge Protection	Scroll PTC	ASTP
Enclosure Class	IP 54	IP 21
Discharge Check Valve	Yes	Yes
Tandemisable	Yes	Yes
Sight Glass	Yes	Yes
Suction Filter	Yes	Yes
Shell Diameter	283	232
Base mounting mm	220 x 220	190 x 190

- IP54 Solution on the new models will be provided

Suction and Discharge

The second generation of scroll compressor is only available in braze version. It helps the compliance to F-gas regulation.

- Compressor Bill of material

Connection	Modul	Discontinued Model	Replacement Model
Rotalock	24 V	561	550*
	230 V	551	
Braze	24 V	568	
	230 V	522	

*425 For Tandem Mounting Part

Tandem

The tandem assembly of the discontinued compressor will also be replaced by equivalent second generation one. These new tandem will start to be available in July 09.

Cross reference Table

Discontinued Model		Replacement Model	
Model	Capacity	Model	Capacity
ZRT180K3E-TWD	36.3	ZRT188KCE-TFD	41.2
ZRU210K3E-TWD	44.2	ZRT216KCE-TFD	46.1
ZRT220K3E-TWD	44.9		
ZRU250K3E-TWD	50.3	ZRT250KCE-TFD	53.9
ZRT240K3E-TWD	52.1	ZRU285KCE-TFD	60.4
ZRU280K3E-TWD	58.2		
ZRT320K3E-TWD	64.3	ZRT288KCE-TFD	61.8
		ZRU315KCE-TFD	66.3
ZRU310K3E-TWD	65.1	ZRT320KCE-TFD	66.9
ZRU350K3E-TWD	71.2	ZRU334KCE-TFD	70.2
		ZRU350KCE-TFD	72.8
ZRT380K3E-TWD	79.5	ZRT380KCE-TFD	78.6

ZRT: Even Tandem ZRU: Uneven tandem

Customers are encouraged to begin transition of applications using these compressors to the suggested replacement models, as soon as possible. These replacement models are available in the same voltages as the discontinued models but with a modified voltage designation.

This bulletin applies to Copeland Air Conditioning compressors only. Detailed information regarding Copeland Scroll® compressors and other Emerson Climate Technologies products is available online at www.emersonclimate.eu/. Should you have further questions, please contact your Emerson Climate Technologies Field Sales Manager or Application Engineer.