

ENGINEERING  
TOMORROW

*Danfoss*

# Time is money

## Make the most of both

Danfoss Universal Scroll Compressors are designed to serve as quick, easy replacements for most 7 1/2 to 15 ton commercial air conditioning scroll compressors. These compressors come with a bolt pattern, suction and discharge lines, and performance characteristics that match up directly with some competitors' products.

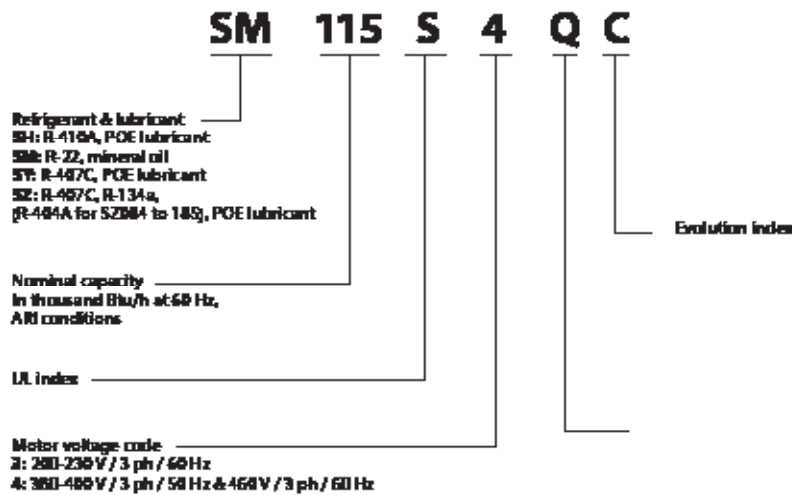
### Universal

replacement  
OEM drop-in  
replacement for easy  
field installation



[www.danfoss.us/aftermarket](http://www.danfoss.us/aftermarket)

Select compressor using the product selection table below based on refrigerant, nominal capacity, connection and voltage.



Version	Motor protection module	Connection	Applies to
V	Internal overload protector	brazed	090
C	Internal thermostat, external overload needed		115, 125, 160, 175, 185
Q			

### Product Selection

Refrigerant	Voltage/ Phase/ Frequency	Tons	Competitor Model Nos. <sup>1</sup>		Danfoss					
					Model No.	Connection type (in. ODF brazed)	Motor protection	Code No. <sup>2</sup>	Weight (lbs)	Solder Sleeve Adaptor Set to Rotolock Connections
R-22	200-230/3/60	7½		ZR94KC-TF5	SM090S3VC	11/8 x ¾	Internal overload protector	SM090-3VI	143	7765005
		9 1/3	CSHA-093R CSHS-093R	ZR108KC-TF5 ZR11M3-TWC	SM115S3QC	13/8 x 7/8	Internal thermostat, external overload needed	SM115-3QAI	172	7765006
		10	CSHA-100R CSHS-100R	ZR125KC-TF5 ZR12M3-TWC	SM125S3QC	13/8 x 7/8	Internal thermostat, external overload needed	SM125-3QAI	172	7765006
		12½	CSHA-125R	ZR16M3-TWC	SM160T3CC	15/8 x 11/8	Internal thermostat, external overload needed	SM160-3CBI	198	7765028
		14	CSHA-140R CSHS-140R		SM175S3QC	15/8 x 11/8	Internal thermostat, external overload needed	SM175-3QAI	220	7765028
		15	CSHA-150R CSHS-150R	ZR190KC-TW5	SM185S3QC	15/8 x 11/8	Internal thermostat, external overload needed	SM185-3QAI	220	7765028
	460/3/60	7½		ZR94KC-TFD	SM090S4VC	11/8 x ¾	Internal overload protector	SM090-4VI	143	7765005
		9 1/3	CSHA-093K CSHS-093K	ZR108KC-TFD ZR11M3-TWD	SM115S4QC	13/8 x 7/8	Internal thermostat, external overload needed	SM115-4QAI	172	7765006
		10	CSHA-100K CSHS-100K	ZR125KC-TFD ZR12M3-TWD	SM125S4QC	13/8 x 7/8	Internal thermostat, external overload needed	SM125-4QAI	172	7765006
		12½	CSHA-125K	ZR160KC-TW5 ZR16M3-TWD	SM160T4CC	15/8 x 11/8	Internal thermostat, external overload needed	SM160-4CBI	198	7765028
		14	CSHA-140K CSHS-140K		SM175S4QC	15/8 x 11/8	Internal thermostat, external overload needed	SM175-4QAI	220	7765028
		15	CSHA-150K CSHS-150K	ZR190KC-TWD	SM185S4QC	15/8 x 11/8	Internal thermostat, external overload needed	SM185-4QAI	220	7765028

<sup>1</sup> Competitor Model Nos. beginning "ZR" may have different footprint, suction, discharge or height compared to Danfoss Model No.

<sup>2</sup> Code Nos. ending "QAI" include threaded sight glass, 3/8" flare SAE oil equalization connection, brazed connections and mounting bracket.

Code Nos. ending "VI" and "CBI" are the same as "QAI" but exclude the mounting bracket.

Full range of models (refrigerant, tons and voltage codes) available. Check Coolselector (<http://coolselector.danfoss.com>) or visit our Online Datasheet Generator at [www.danfoss.com/odsg](http://www.danfoss.com/odsg).

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without consequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss Logotype are trademarks of Danfoss A/S. All rights reserved.