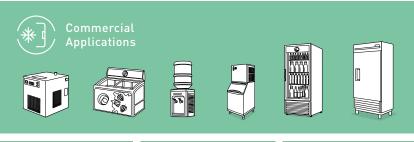
# ROBUST AND RELIABLE EVEN UNDER HARSH CONDITIONS



















#### → Heavy Duty Robustness

FRK-G compressors feature the tried and trusted quality of our FR compressors optimized for light commercial applications and for service and aftermarket use thanks to their insensitivity against intake of liquid refrigerant

→ Robust Solution for Food Retail and Food Service Applications Dedicated reliable design for bottle coolers, glass door merchandisers, and ice cream freezers and suitable for food service applications (LBP, MBP, and HBP applications)

## → Excellent Efficiency

High COP and top efficiency for light commercial applications

#### → Optimized Muffler System

The new muffler feature minimizes the risk of compressor or system damage due to extreme liquid return conditions or oil foaming

### → Easier Application Assembly

New terminal board design for additional interconnections

# → Reduced Noise Level

Improved noise and reduced vibration

Secop's new **FRK-G** compressors are the successors of our legendary FR compressors (F-Series). These were one of the most robust compressors on the market, known for their reliability even under harsh conditions. The designation of the FRK compressors has been adapted to the F-Series to ensure comparability.

Secop has developed the robust new F-Series for commercial refrigeration, which integrates various technical innovations, such as a noise-reducing shell, robust suspension, a robust internal discharge tube, improved valves, optimized motors, and a new muffler for lower noise levels.

FRK-G compressors were developed to offer a reliable, top-performing, and cost-effective solution for the next generation of light commercial cabinets offering high energy efficiency.

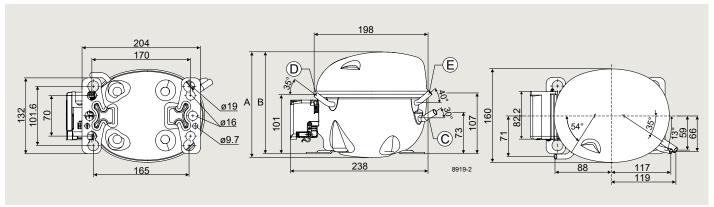
FRK-G compressors are dual frequency (50/60 Hz) types and are designed to support regions that experience harsh and challenging environments and where voltage fluctuations as well as high ambient temperatures need to be taken into account.

FRK-G compressors have a muffler system specially developed for heavy duty applications with rapid load changes, extreme liquid return conditions, and oil foaming. It increases the robustness and reliability of the cooling system against this type of overload.

General		FRK5G	FRK6G	FRK7.5G	FRK8.5G	FRK10G	FRK11G		
Compressor		106G5453	106G5553	106G5653	106G5753	106G5853	106G5953		
Approvals		EN6	0335-1, EN/UL 603	335-2-34 with Ann	ex AA, IEC/EN 600	79-1, IEC/EN 6007	79-15		
Application		R134a							
Application		LBP/MBP/HBP	LBP/MBP/HBP	LBP/MBP/HBP	LBP/MBP/HBP	LBP/MBP/HBP	LBP/MBP/HB		
Evaporating temperatu	ıre °C	-35 to 15	-35 to 15	-35 to 15	-35 to 15	-35 to 15	-35 to 10		
Voltage range / freque	ncy V/Hz	187-254/50	187-254/50	187-254/50	187-254/50	187-254/50	187-254/50		
Application		LBP/MBP	LBP/MBP	LBP/MBP	LBP/MBP	LBP/MBP	LBP/MBP		
Evaporating temperature °C		-35 to 10	-35 to 10	-35 to 10	-35 to 10	-35 to 10	-35 to 7.2		
Voltage range / frequency V/Hz		198-253/60	198-253/60	198-253/60	198-253/60	198-253/60	198-253/60		
Performance Data AS	HRAE LBP (220 V.	50   60 Hz • fan co	ooling)						
Evaporating temp.	°C	-23.3	-23.3	-23.3	-23.3	-23.3	-23.3		
Cooling capacity	W	98   119	126   150	152   187	185   224	214   254	240   286		
	BTU/h	336   407	430   511	518   638	632   766	730   867	818   977		
Power consumption W		89   102	103   118	118   140	151   170	165   184	181   213		
COP	W/W		1.23   1.27	1.28   1.33	1.23   1.32	1.30   1.38	1.32   1.34		
EER	BTU/Wh	1.11   1.17 3.79   3.98	4.19   4.33	4.38   4.56	4.19   4.51	4.43   4.71	4.52   4.59		
Test conditions		sing temperature: 54.4°C   Suction gas temperature: 32.2°C   Ambient temperature: 32.2°C   Liquid temperature: 32.2°C							
Performance Data AS	HRAE MBP (220 V	50   60 Hz • fan c	oolinal						
Evaporating temp. °C		-6.7	-6.7	-6.7	-6.7	-6.7	-6.7		
Cooling capacity	W	215   254	271   320	325   385	393   465	438   518	495   591		
	BTU/h	734   866	927   1094	1111   1313	1342   1587	1494   1767	1692   2017		
Power consumption			149   172	175   204	221   253	240   279	276   331		
COP			1.82   1.86	1.86   1.89	1.78   1.83	1.82   1.86	1.80   1.78		
EER BTU/Wh		5.86   6.03	6.23   6.35	6.37   6.45	6.08   6.27	6.22   6.34	6.13   6.10		
Test conditions	Conde	nsing temperature: 5			Ambient temperatur		mperature: 46.1°C		
Performance Data AS	HRAE HBP (220 V.	. 50   60 Hz • fan co	polinal						
Evaporating temp. °C		7.2	7.2	7.2	7.2	7.2	7.2		
	W	386   451	487   570	583   682	702   8222	766 I 906	867   1032		
Cooling capacity	BTU/h	1320   1541	1664   1946	1993   2329	2396   2807	2615   3093	2960   3524		
Power consumption W		155   180	185   217	220   258	283   326	316   366	357   442		
COP			2.63   2.63	2.65   2.65	2.48   2.52	2.42   2.48	2.43   2.34		
EER	BTU/Wh	2.50   2.50 8.54   8.54	8.99   8.97	9.06   9.04	8.46   8.60	8.27   8.46	8.29   7.98		
Test conditions		nsing temperature: 5							
Dimensions									
Height	mm	A 182							
	mm	В							
Suction connector location	I.D. mm   angle material   seal	С	C 8.2   30° Copper   Rubber plug						
	I.D. mm   angle		D 6.2   35°						

Dimensions			
Height	mm	Α	182
		В	175
Suction connector location	I.D. mm   angle material   seal	С	8.2   30° Copper   Rubber plug
Process connector location	I.D. mm   angle material   seal	D	6.2   35° Copper   Rubberplug
Discharge connector location	I.D. mm   angle material   seal	Е	6.2   40° Copper   Rubber plug
Connector tolerance	I.D. mm		±0.09

Variants with small baseplates available on request, please contact Secop for further information.



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Produced by Secop | June 2025 DES.N.420.C3.02