

Secop is the first choice for partners searching for leading-edge refrigeration solutions and a premium customer experience.

Secop delivers advanced refrigeration compressors and controls, providing customers tailored sustainable solutions for light commercial, battery-driven, and special cooling applications.

PRODUCT PORTFOLIO

SECCOP

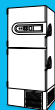
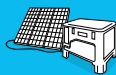
Stationary
Cooling



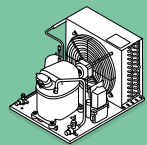
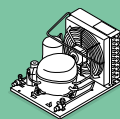
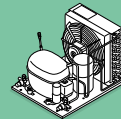
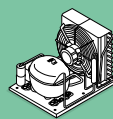
Mobile
Cooling



Medical
Cooling

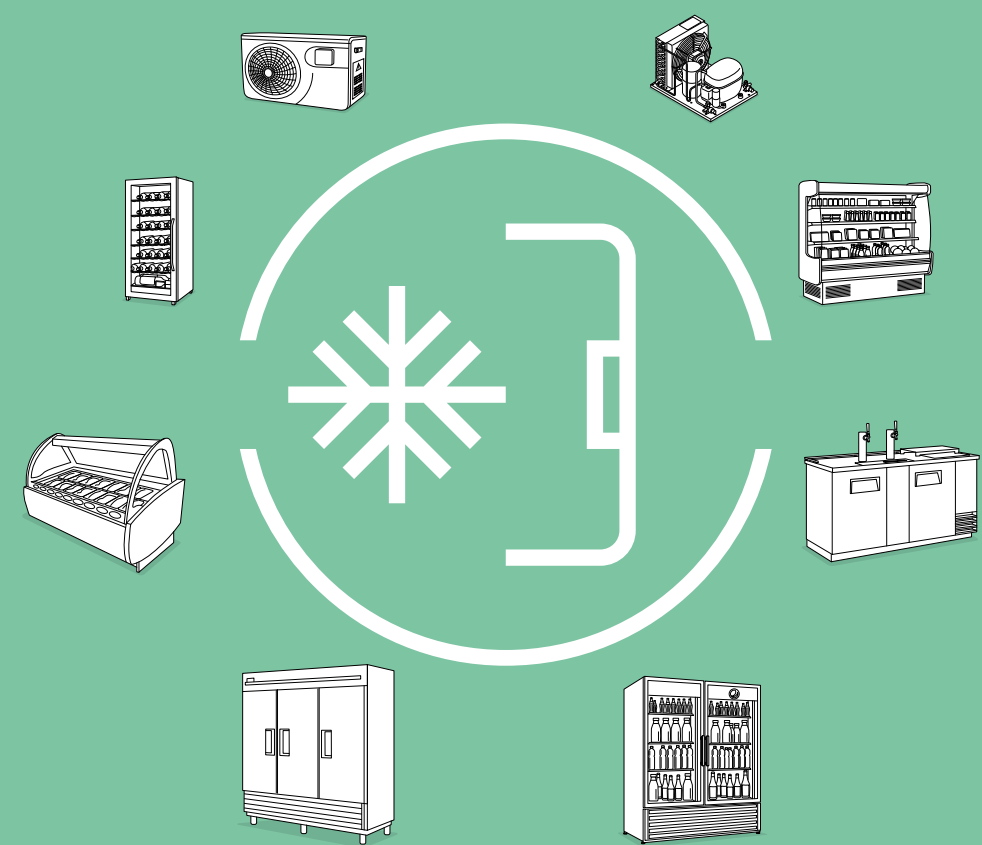




















Condensing
Units



STATIONARY COOLING

Refrigeration compressors and solutions for food retail, food service, medical, commercial freezers or coolers, beverage dispensers, special commercial equipment, and selected residential applications



		Cooling Capacity				Refrigerants
Series		Displacement (cm³)	LBP (W) ASHRAE	MBP (W) ASHRAE	HBP (W) ASHRAE	
NLV		 	7.96 – 14.65	265 – 1250	490 – 2200	R290
SLV/ SLVE		 	15.28 – 17.7	403 – 1190	1200 – 2149	R290
P			1.41 – 2.50	25 – 59	66 – 126	R600a R134a
K			5.6 – 12.5	92 – 260		R600a R134a
KL			4 – 8.6	102 – 490	221 – 847	R290 R134a R513A
N			6.13 – 14.65	127 – 909	320 – 1557	R600a R290 R134a R404A R513A R452A R170
FRK			4.0 – 8.6	99 – 287	215 – 590	R134a R513A
S			10.29 – 25.0	167 – 1173	493 – 2073	R290 R134a R404A R407C R513A R452A R170
G			21.2 – 33.8	1207 – 1912	1448 – 3363	R134a R404A R513A
		0 – 35	0 – 2000	0 – 3500	0 – 2750	

Secop stationary cooling compressors are available for all worldwide AC mains supply standards.



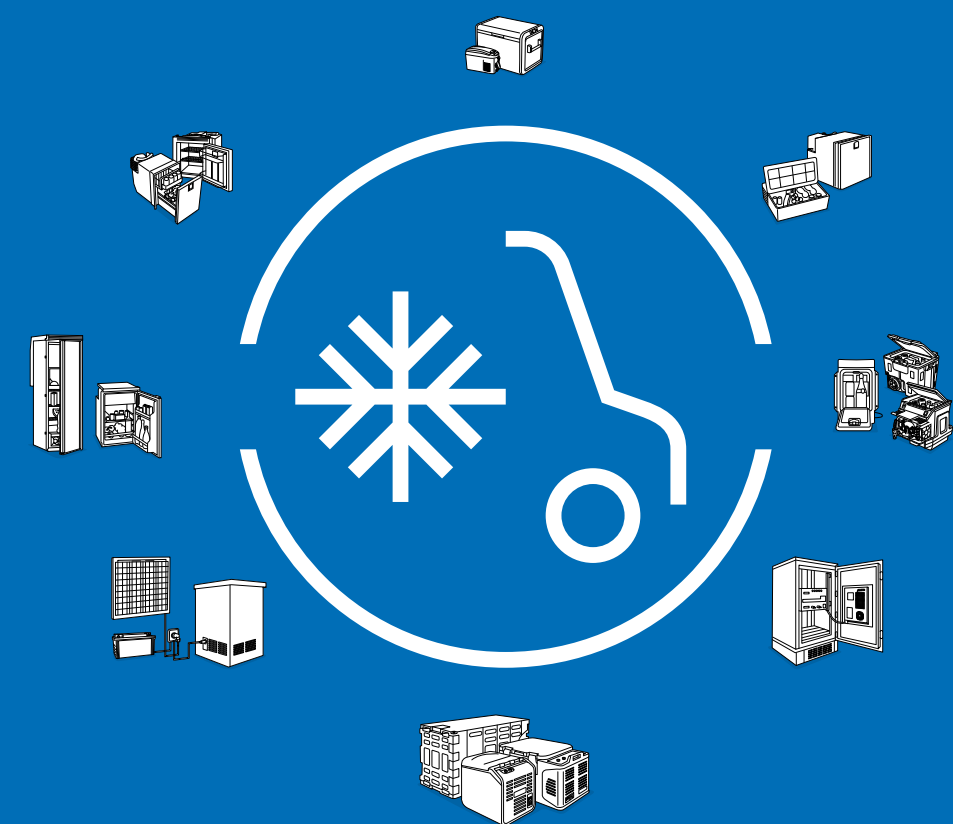
Natural
Refrigerants



Variable-
Speed Drive

MOBILE COOLING

DC-powered or battery-driven compressors specifically designed for mobile cooling solutions: automotive (trucks, cars, bus), recreations vehicles, portable boxes, medical, solar, and special applications



Series	Displacement (cm³)	Cooling Capacity			Refrigerants
		LBP (W) ASHRAE	MBP (W) ASHRAE	HBP (W) ASHRAE	
BD Nano	1.42 – 2.60	28 – 69	62 – 131		R134a R1234yf R600a
BD Micro	1.41	13 – 34	42 – 94	83 – 173	R134a R1234yf
BD-P	2.0 – 3.0	29 – 71	65 – 223	115 – 390	R600a R290 R134a R1234yf

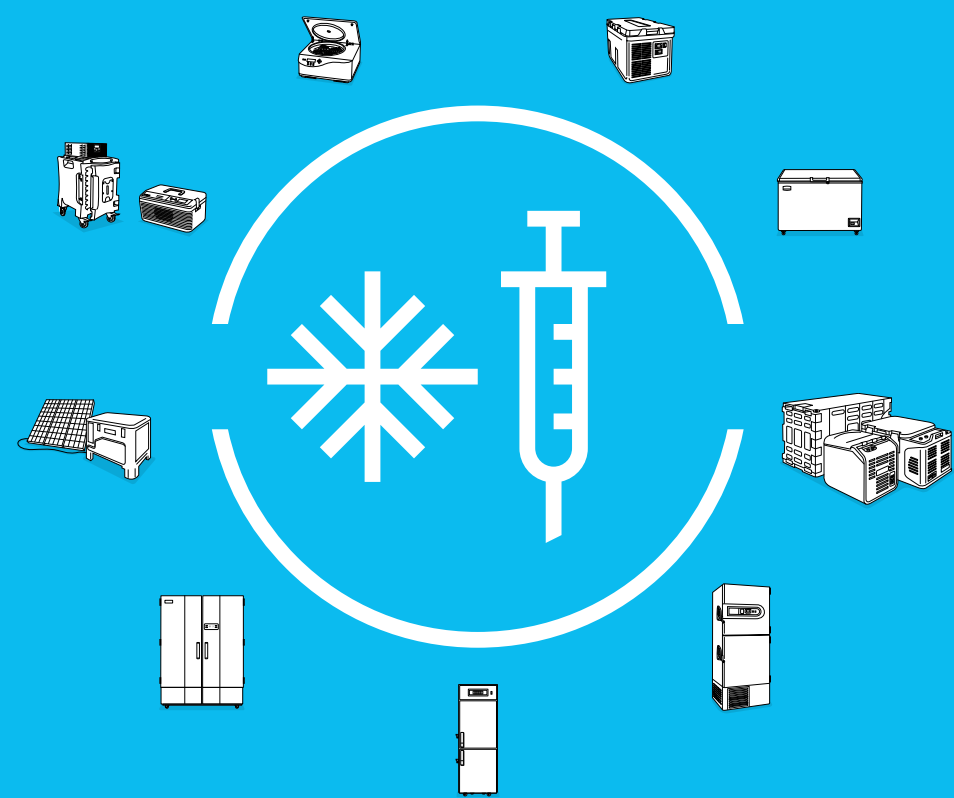



Secop mobile cooling compressors are available for a variety of DC voltage ranges and certain controllers even feature an AC option for various mains supply.



MEDICAL COOLING

Refrigeration compressors and solutions for various vaccine and biomedical cooling requirements including ultra-low temperature models for stationary or mobile appliances providing world-wide safe storage or transport at different temperature levels



		Cooling Capacity		Test Conditions	Refrigerants
Sub Platform	Applications Evap. Temp Range	Displacement (cm³)	Cooling Capacity (W)		
MB CKV	 Solar Powered Vaccine Refrigerators -30 to 5° C	2.6	66 – 131	ASHRAE MBP	R600a
MN U/UV	 Biomedical Freezers -30 to -60 °C	11.15 – 12.55	245 – 538	EN 12900 LBP	R290 HC mixture R404A R452A
MS U/UV	 Biomedical Freezers -30 to -60 °C	17.69 – 20.95	316 – 657	EN 12900 LBP	R290 HC mixture R404A R452A
MP UV	 Ultra-Low Temperature Freezers -60 to -90 °C	2	26.7 – 47	pe= -90° pc= -35° Tsuc= 20° Tliq= -35° Tamb= 32.2°	R170 R290 HC mixture
MN U/UV	 Ultra-Low Temperature Freezers -60 to -90 °C	11.15 – 12.55	182 – 397	pe= -90° pc= -35° Tsuc= 20° Tliq= -35° Tamb= 32.2°	R170 R290 HC mixture
MS U/UV	 Ultra-Low Temperature Freezers -60 to -90 °C	17.69 – 20.95	234 – 477	pe= -90° pc= -35° Tsuc= 20° Tliq= -35° Tamb= 32.2°	R170 R290 HC mixture
Mobile ULT Condensing Units	 Ultra-Low Temperature Freezers -60 to -90 °C	2x 2	26.7 – 47	pe= -90° pc= -35° Tsuc= 20° Tliq= -35° Tamb= 32.2°	R170 R290
Stationary ULT Condensing Units	 Ultra-Low Temperature Freezers -60 to -90 °C	2x 17.69	234 – 477	pe= -90° pc= -35° Tsuc= 20° Tliq= -35° Tamb= 32.2°	R170 R290
		0 – 35	0 – 1200		

Secop recommends using 2-stage cascade systems for the temperature range from -60 °C to -90 °C. These have been developed for highest reliability and product safety at ultra-low temperatures.

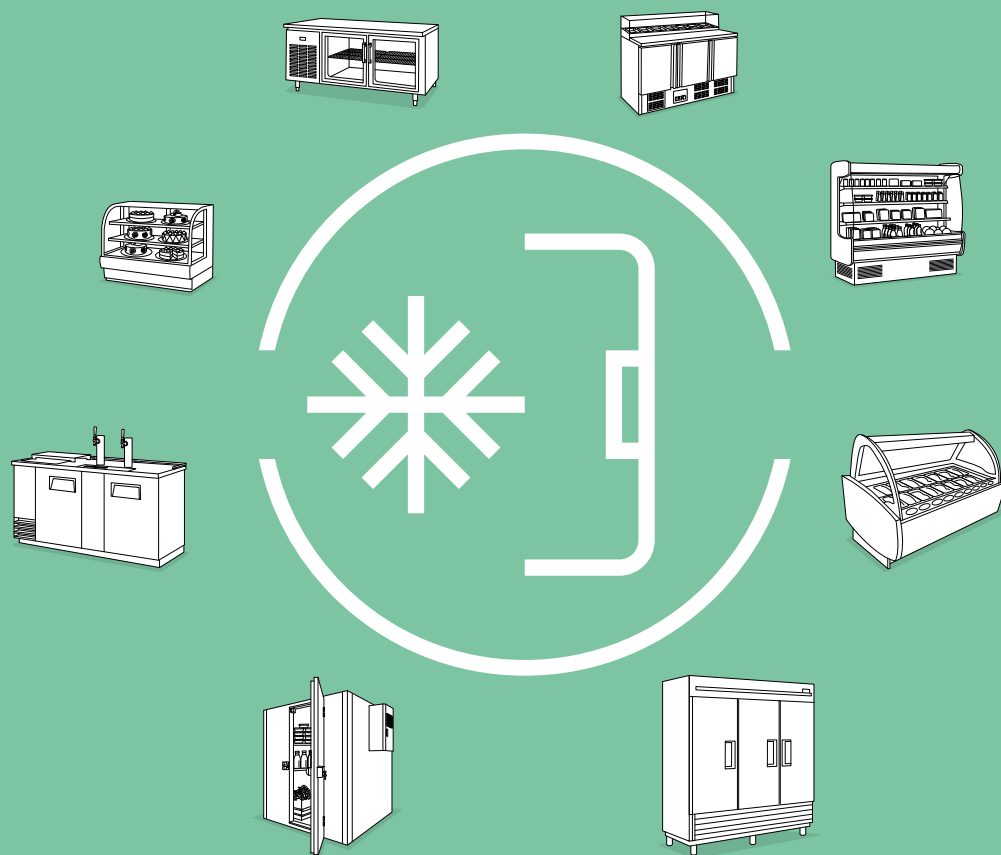


CONDENSING UNITS

Perfect for installation in tight spaces with a precise, compact design, they allow easy conversion for new drop-in replacement refrigerants.

The range is designed and optimized to meet the European Ecodesign Directive.

With high precision manufacturing and 100% quality control of every single unit, they are made to operate in the most demanding environments under all operating conditions.



Natural Refrigerant

HC models are using our energy-optimized DLE, NLE, and SCE propane (R290) compressors with a very low GWP and maximum performance.



Alternative refrigerants

HFC models are approved for alternative refrigerants R452A and R513A while selected models are approved for R449A.



EU Sustainable Design

Secop's full range of condensing units is designed and optimized to meet the European Ecodesign Directive.

Series	Displacement (cm³)	Cooling Capacity		Refrigerants
		LBP (W) EN 13215*	MBP (W) EN 13215*	
KL	4.8 – 7.7	228 – 422	412 – 700	R290
N	6.1 – 12.6	159 – 582	326 – 996	R134a R513A R404A R452A R290
S	10.3 – 21.0	590 – 944	752 – 1683	R134a R513A R404A R452A R449A R290
G	26.3 – 33.8	1275 – 1712	1372 – 1782	R134a R513A R404A R452A R449A
0 – 35		0 – 2000	0 – 3500	

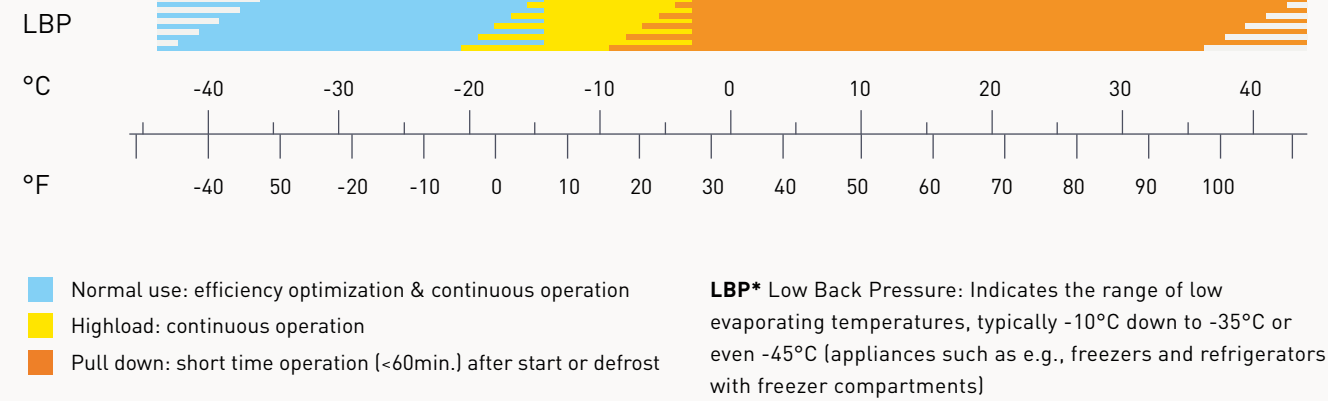
*Tsubcooling=2 K, Tsuc=20 °C, Tamb=25 °C, LBP: pe=-25 °C, MBP: pe=-10 °C



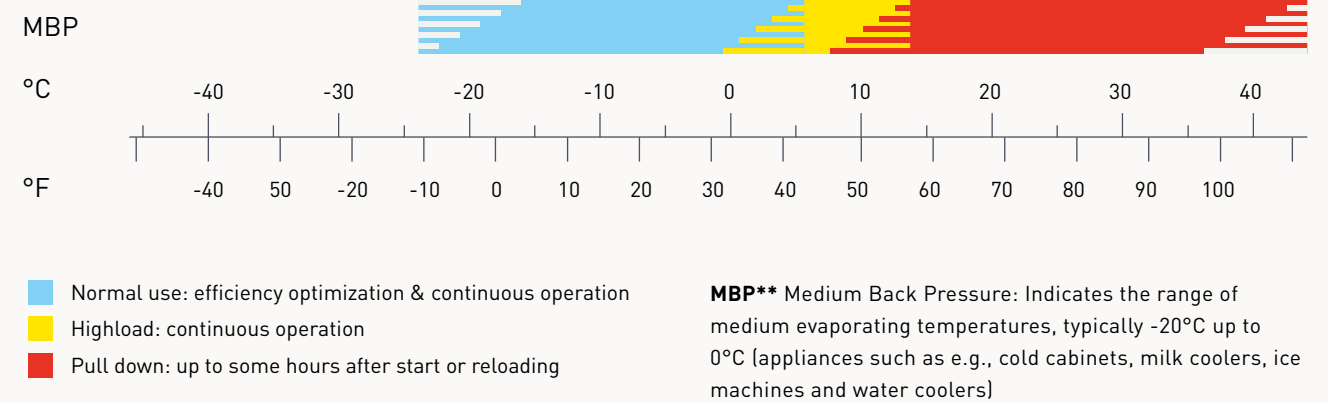
Natural Refrigerants

LBP-MBP-HBP

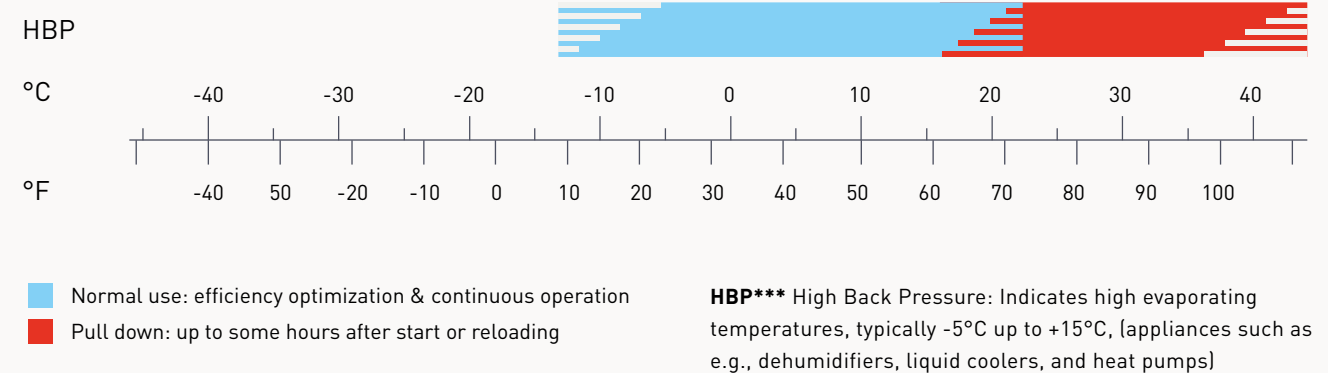
SECOP LBP* COMPRESSORS: EVAPORATION PRESSURES



SECOP MBP** COMPRESSORS: EVAPORATION PRESSURES



SECOP HBP*** COMPRESSORS: EVAPORATION PRESSURES



SECOP GROUP: AROUND THE WORLD

SECOP**12**

international
partners for
advanced
developments

33

laboratories
located in Germany,
Slovakia, China,
U.S.A., and Turkey

150+

R&D engineers
and technicians

400+

patents globally

50+

countries with
customer support



Secop is the expert for advanced hermetic compressor technologies and cooling solutions in commercial refrigeration. We develop high performance stationary and mobile cooling solutions for leading international commercial refrigeration manufacturers and are the first choice when it comes to leading hermetic compressors and electronic controls for refrigeration solutions for light commercial and DC-powered applications.

Secop was formerly known as Danfoss Compressors and is one of the founding fathers of modern compressor technology with years of experience that goes back to the beginning of the 1950s.



Flensburg: Sales and R&D



Turin: Sales



Atlanta: Sales and Logistics



Zlaté Moravce: R&D, Logistics, and Manufacturing



Tianjin: Sales, R&D, Logistics, and Manufacturing



Stationary Cooling



Mobile Cooling



Medical Cooling



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