



AC COMPRESSORS
FOR FOOD AND
BEVERAGE STORAGE





SUSTAINABLE COOLING SOLUTIONS

Developed with you, customized for you.

Secop is your expert partner for advanced hermetic compressors, electronic controls, AC light commercial installations, DC mobile applications, and medical cold chain solutions.

Together with our customers, we develop high performance stationary and mobile cooling solutions, customized according to individual needs.

GREEN IS COOL

A complete range of sustainable and efficient cooling solutions

Designed to reduce energy consumption and carbon dioxide (CO₂) emissions, Secop solutions use state-of-the-art technology, such as variable speed compressors, as well as natural refrigerants (hydrocarbons – HC) to minimize the environmental and economic impact of commercial refrigeration.

A PARTNER YOU CAN TRUST

Robust design for commercial applications and proven track records of premium quality

Secop is committed to delivering advanced refrigeration compressors and controls, offering customers tailored sustainable solutions for light commercial, battery-driven, special cooling applications, and medical cold chain.

TOGETHER TO GET THERE

Application knowledge to support customers in system design and optimization with worldwide testing capabilities

Secop strives to be the first choice for partners seeking leading-edge refrigeration solutions and a premium customer experience. Our Sales and Application Team is always at hand to support customers in designing and engineering new, innovative solutions.

A PRESENCE MAKING THE DIFFERENCE

Sales and Customer Service team close to customers in every region

You will never work alone: our Sales and Customer Service team is ready to assist you from order to delivery, and to manage and quickly solve any problem that may occur. Wherever you are, whatever you do.

BEYOND THE PRODUCT, BEYOND THE STANDARDS

We do it better because we do it together

At Secop, cooperation in designing, engineering, and testing the solution with the partner is the standard. A proven combination of top quality and robust design guarantees reliable solutions. A network of 33 specialized laboratories continuously researches and tests new solutions. Our dedication to innovation, sustainability, and quality is recognized by prestigious international awards.

Committed to Quality Products

- Robust design with early risk control
- Capable, controlled manufacturing processes
- Comprehensive testing and validation excellence
- Traceable, qualified supply chain
- Closed-loop continuous improvement

Leading-Edge Application Engineering

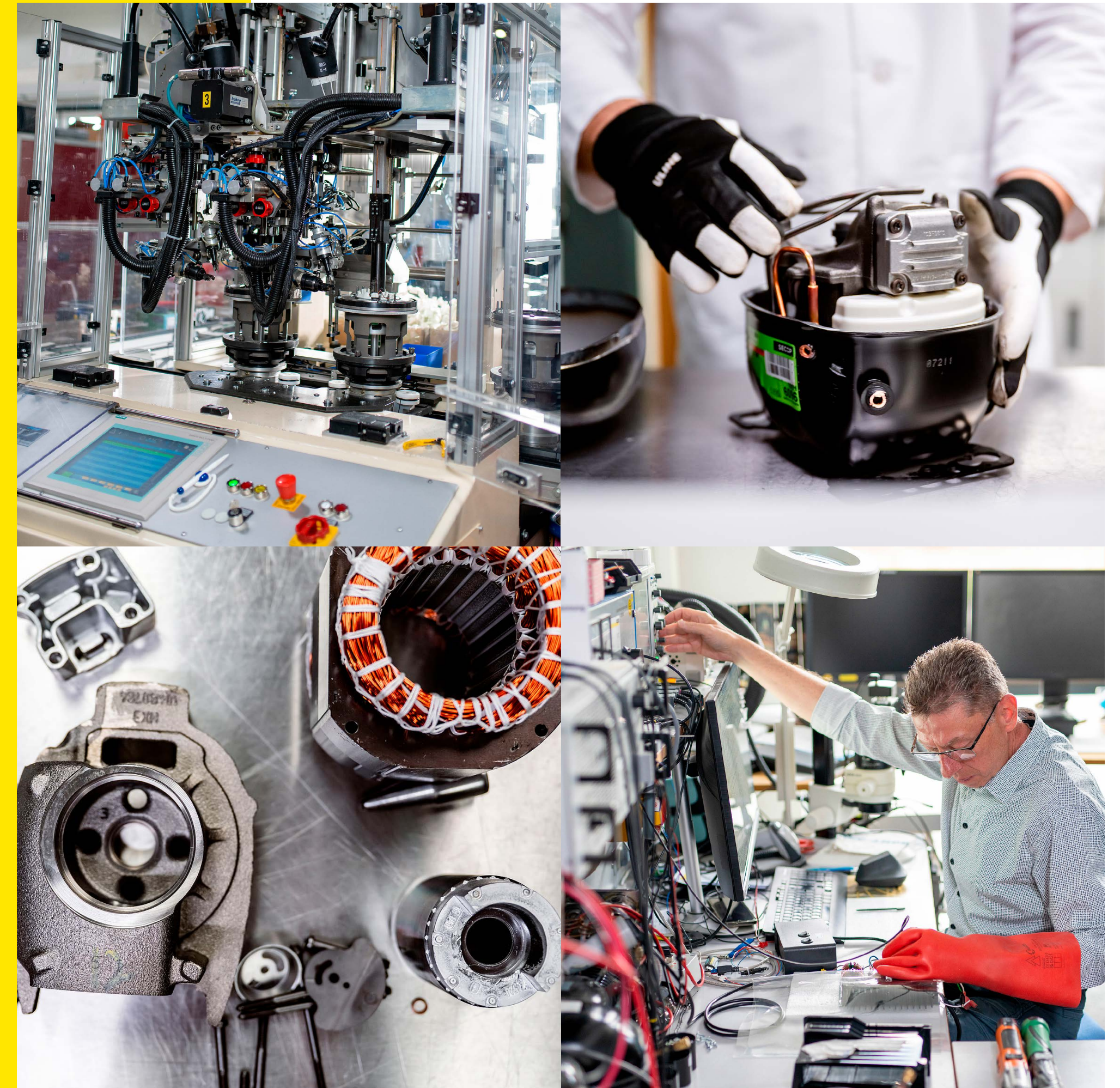
- Testing for customer's appliances
- Advanced trouble shooting
- System optimization support
- Support conversions to HC refrigerants
- System knowledge to support the introduction of variable-speed solutions

Engineering & Design Excellence

- Extensive engineering know-how in the integrated design of mechanical, electrical, and thermodynamic systems
- Specialized R&D teams with a proven track record in developing high-performance stationary, mobile and medical cooling solutions

Advanced Electronics & Control Systems

- Engineering mastery in motor design and advanced variable-speed control architectures
- In-house development of specialized inverter electronics and multi-voltage controllers
- Advanced simulation tools and data-driven design systems to support system reliability



International partners for advanced developments

12

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

33

R&D engineers and technicians

150+

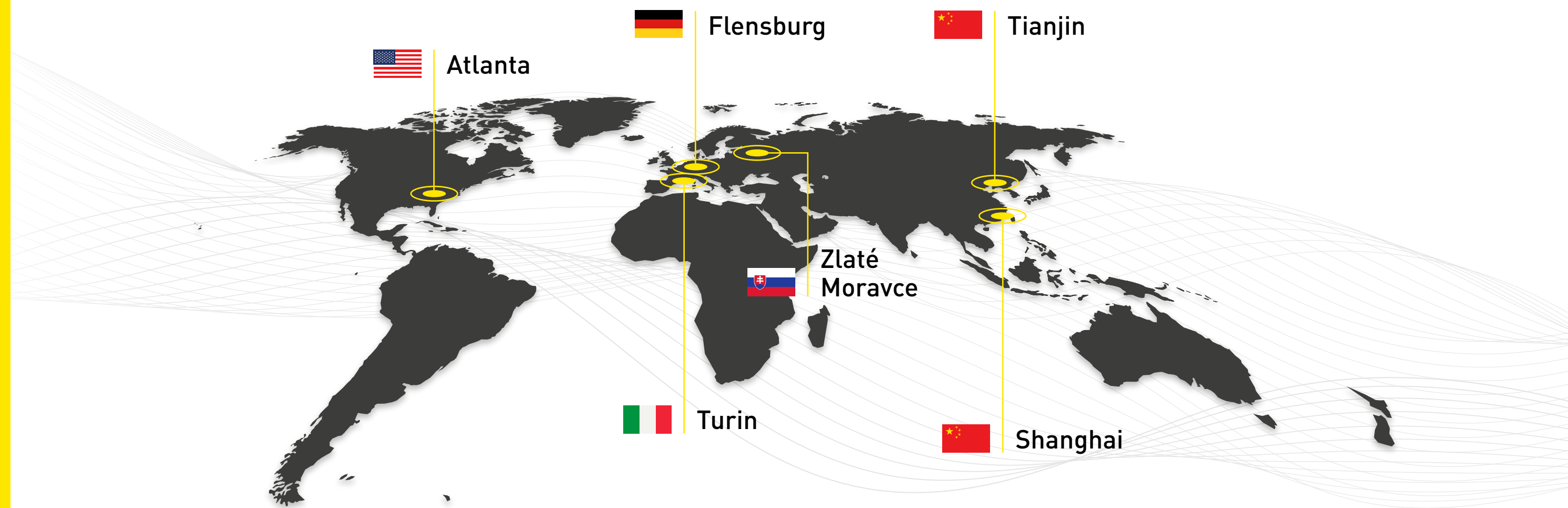
Patents globally

400+

Countries with customer support

50+

SECOP GROUP: AROUND THE WORLD



Flensburg: Sales, Application and R&D
Turin: Sales, Application and Marketing
Atlanta: Sales, Application and Logistics

Zlaté Moravce: R&D, Logistics, and Manufacturing
Tianjin: Sales, Application, R&D, Logistics, and Manufacturing
Shanghai: Sales, Application and Marketing

PREMIUM CUSTOMER SUPPORT

Sales team close to customers.
 Support in 50+ countries.
 Customer service in 10+ languages.
 Application engineering local support.
 Worldwide Distribution Network.



THE BEST SOLUTIONS FOR FOOD AND BEVERAGE STORAGE

Supported by over 70 years of experience, Secop compressors deliver efficiency and premium reliability for commercial refrigeration systems.

The core light commercial applications are:

- Glass door merchandiser
- Ice cream freezers
- Stainless steel fridges
- Food retail cabinets
- Food service professional equipment
- Commercial freezers or coolers
- Ice makers
- Beverage dispensers
- Special commercial equipment
- Vending machines

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



BUILT FOR TODAY'S REFRIGERATION CHALLENGES

Commercial refrigeration must meet stricter regulations, higher efficiency targets and growing sustainability demands.

Optimized for natural refrigerants

Designed for low-GWP refrigerants such as R290 and R600a.

Maximum energy efficiency

High-performance compressors help meet modern energy efficiency requirements.

Smart electronic control

Integrated electronics enable optimized compressor operation.

Robust design

Built to perform reliably in demanding commercial environments.



LEADER IN NATURAL REFRIGERANT SOLUTIONS

Secop has more than 25 years of experience developing compressors optimized for hydrocarbon refrigerants.

Optimized for propane (R290) and isobutane (R600a)

High-efficiency compressors engineered for modern natural refrigerant systems.

Patented hermetic terminal plug

Reduces refrigerant leakage risks and improves system safety.

Proven technology

Decades of field experience ensure reliable hydrocarbon (HC) solutions.

Sustainable cooling

Lower environmental impact thanks to natural refrigerants and high efficiency.



Low GWP Refrigerant



RELIABLE SOLUTIONS FOR COMMERCIAL APPLICATIONS

Secop compressors are engineered to deliver stable performance even under challenging operating conditions.

Voltage fluctuation resistance

Selected models start from 187 V (50Hz), ensuring reliable operation on unstable grids.

Reliable performance

Designed to operate in the most demanding environments at ambient temperatures up to 48 °C.

Advanced muffler design

Reduces noise and vibration while protecting the compressor from liquid refrigerant return.

Long-term durability

Robust design ensures reliable operation and reduced maintenance.



SMART CONTROL AND MEASURABLE SAVINGS

Variable-speed technology optimizes cooling performance while reducing energy consumption.

Energy savings up to 40%

Variable-speed compressors significantly reduce power consumption and operating costs.

Adaptive cooling

Electronic control adjusts compressor speed to real cooling demand.

Longer compressor lifetime

Smooth operation reduces mechanical stress, system failures and machine downtime.

Better temperature stability

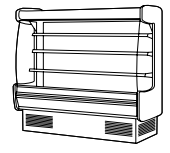
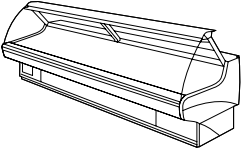
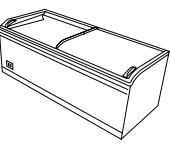

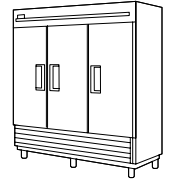
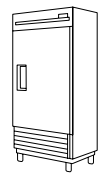
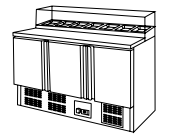
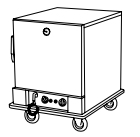
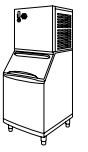


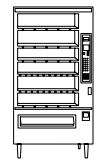

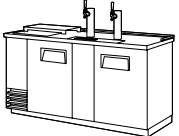
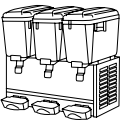


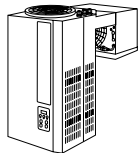
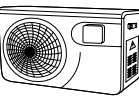
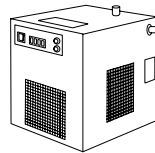
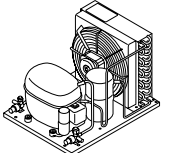
Precise modulation improves food quality preservation and reduces waste.



Energy Saving



APPLICATION MAP

Food Retail	 Reach-in Merchandiser Multidecks	 Display Cases	 Supermarket Freezers	 Show Cases, Bakery, Butchery		
Food Service Professional	 Professional Kitchen Reach In	 Reach in refrigerator	 Preparation Tables	 Catering, Ho.Re.Ca.	 Ice Makers	
Bottle Coolers, Beverage Merchandizers, Dispenser	 Glass Door Merchandisers	 Bottle/Beverage Coolers	 Vending Machines	 Beer Dispensers	 Keg Coolers	 Beverage/Juice Dispensers
Ice Cream Freezers and Coolers	 Horizontal Glass Door and Solid Door Freezers	 Soft Scoop Ice Cream Displays				
Customized Solutions / AC Special Applications	 Monoblocks	 Heat Pumps	 Air Dryer	 Condensing Unit		

PRODUCT PORTFOLIO AC

Hermetic Refrigeration Compressors for AC Voltage, food and beverage storage applications.

KL-Series



N-Series



S-Series



G-Series



	Beverages		Coolers Merchandisers			Food Retail			Food Service Professional						Ice Cream Freezers		Customized solutions
KL-Series	■	■	■	■	■					■	■	■	■		■		■
N-Series	■	■	■	■		■				■		■		■			■
S-Series						■	■	■	■						■	■	■
G-Series										■							■

PRODUCT PORTFOLIO AC

A complete range of sustainable and efficient cooling solutions in fixed speed and variable speed configuration.



KL-Series



N-Series



S-Series



G-Series



NLV



SLVE

FIXED-SPEED

Series	Displacement (cm ³)	LBP (W) ASHRAE	MBP (W) ASHRAE	HBP (W) ASHRAE	Refrigerants	
	0 — 35	0 — 2000	0 — 3500	0 — 2750	HC	HFO/HFC
KL-Series	4.0 - 4.8 - 5.6 - 6.6 7.7 - 8.6	102 - 490	221 - 847	398 - 1080	R290	R134a R513A
N-Series	6.13 - 7.0 - 7.3 - 8.4 - 8.8 9.0 - 10.0 - 11.0 - 14.65	127 - 909	320 - 1557	1400 - 1424	R290 R600a R170	R134a R513A R404A R452A
S-Series	10.29 - 12.0 - 15.0 - 18.0 21.0 - 23.0 - 25.0	167 - 1331	493 - 2440	923 - 2266	R290 R170	R134a R513A R404A R407C R452A
G-Series	21.2 - 26.3 - 33.8	1207 - 1912	1448 - 3363	2613		R134a R513A R404A

VARIABLE-SPEED

Series	Displacement (cm ³)	LBP (W) ASHRAE	MBP (W) ASHRAE	Refrigerants	
	0 — 35	0 — 2000	0 — 3500	HC	
NLV/E	7.96 - 10.0 - 12.6 - 14.65	265 - 1070	490 - 1830	R290	
SLVE	17.69	666 - 1190	1200 - 2149	R290	

ELECTRONIC CONTROLLERS

For variable speed compressors.



CORE FUNCTIONS

The professional standard with essential controls for comprehensive operational coverage.

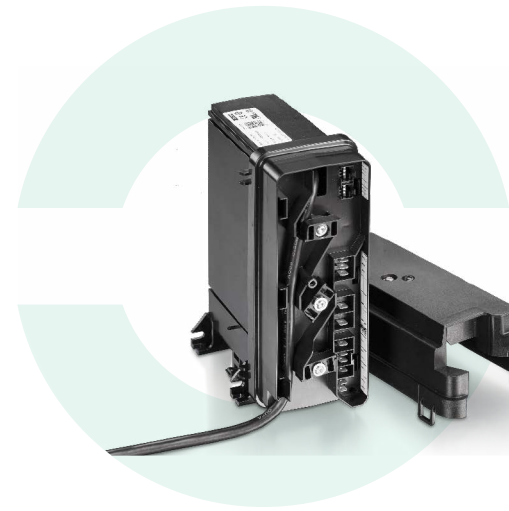
Optimized for primary needs

Protection Level:

IP31: indoor use protection

Features:

- AEO optimized energy efficiency
- Serial connection
- Frequency / PWM control
- Defrost support
- Regional focused
- LBP, MBP
- PCB coating, board protection



MULTIPURPOSE

Built on Core functionalities, offering expanded feature sets and high adaptability for custom requirements.

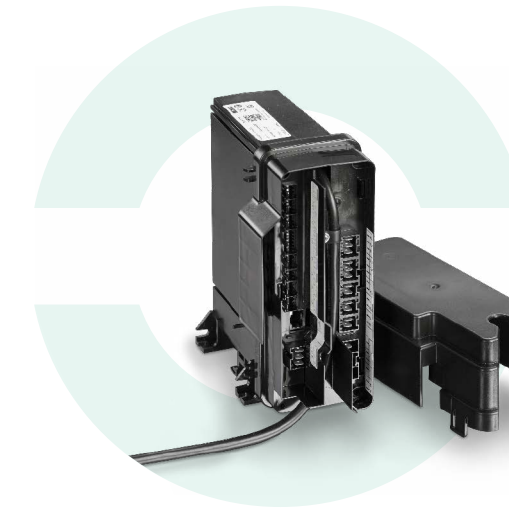
Developed for versatile integration

Protection Level:

IP54: protection against splashing rain (outdoor use)

In addition to the Core Functions model:

- Modbus connection via Tool4Cool®
- Two power relays with fan control
- Emergency mode and alarm
- Highest starting torque
- Logger function
- LBP, MBP, ULT
- Global voltage range
- GFCI: ground fault protection



EXTENDED

Designed for specialized applications and industries with critical requirements, such as medical.

Engineered for ultimate performance

Protection Level:

IP43: splash and debris protection

In addition to the Multipurpose model:

- Flexible settings for universal cabinets
- Full cabinet controls
 - Temperature controller
 - Control of fan, light, heater, valves, etc.
 - Door sensors, Alarm functions, Analog IO's, etc.
 - Multiple-Compressor-Control (Gearbox)
- Display connection
- Data logging of operating conditions
- Food/Medical safety
 - Connection to supervising system via Modbus
 - Temperature logging

		CORE FUNCTION	MULTIPURPOSE	EXTENDED
NLV/E		■	■	■
SLVE			■	

KL-SERIES COMPRESSORS

COMPACT SIZE, POWERFUL PERFORMANCE

Hermetic Refrigeration
Compressors for AC Voltage

Maximum efficiency.



Premium Robustness

The KL-Series features the proven quality of the K-Series optimized for light commercial applications.

Universal solution (LBP/MBP)

Reliable design for bottle coolers, glass door merchandisers, ice cream freezers, ice cream makers, and food service applications.

Flexible and user friendly

New terminal board design with additional interconnections.

Reduced Noise Level

Improved noise and reduced vibrations, a benchmark level for hydrocarbon refrigerants.

Superior Efficiency

High COP optimized for light commercial applications with low GWP refrigerant propane (R290).

Innovative Patented Plug Connection

Patented hermetic terminal plug to prevent risks with flammable refrigerants.

Nominal Voltage

220-240 V/50 Hz, 110-115 V/50 Hz, 115-127 V/60 Hz, 208-230 V/60 Hz.

Voltage Range

90-110 V, 95-140 V, 170-254 V, 198-254 V.

Series	Displacement (cm ³)	LBP (W) ASHRAE	MBP (W) ASHRAE	HBP (W) ASHRAE	Refrigerants	
	0 — 35	0 — 2000	0 — 3500	0 — 2750	HC	HFO/HFC
KL-Series	4.0 - 4.8 - 5.6 - 6.6 7.7 - 8.6	102 - 490	221 - 847	398 - 1080	R290	R134a R513A

Applications

Beverages
Coolers Merchandisers
Food Service Professional
Ice Cream Freezers
Customized solutions
Natural Refrigerants
Heavy Duty

Designed for

Natural Refrigerants
Heavy Duty

N-SERIES COMPRESSORS

EFFICIENT AND RELIABLE

Hermetic Refrigeration Compressors for AC Voltage

- Variable-speed variants available
- Ultra-low temperature models available
- Premium efficiency in their class, models like e.g. NLE and NLV



NLV-CN Variable-Speed Compressors

A complete range that can cover different customer requirements with energy savings of up to 40%.

NLE Propane Compressors

The fixed-speed range ensuring a significant reduction in energy consumption and ready for the latest requirements in terms of energy labelling.

Heat Pump Compressor

The ideal solution for domestic water heaters with high efficiency and eco-friendly refrigerant propane.

Maximized Efficiency with R290

Engineered for optimum performance with low GWP HC refrigerants, replacing HFCs R404A and R134a.

Nominal Voltage

220-240 V/50 Hz, 110-115 V/50 Hz, 115-127 V/60 Hz, 208-230 V/60 Hz.

Voltage Range

103-127 V, 90-135 V, 198-254 V, 187-254 V, 90-270 V, 180-270 V, 100-240 V.

Series	Displacement (cm ³)	LBP (W) ASHRAE	MBP (W) ASHRAE	HBP (W) ASHRAE	Refrigerants	
	0 — 35	0 — 2000	0 — 3500	0 — 2750	HC	HFO/HFC
N-Series	6.13 - 7.0 - 7.3 - 8.4 - 8.8 9.0 - 10.0 - 11.0 - 14.65	127 - 909	320 - 1557	1400 - 1424	R290 R600a R170	R134a R513A R404A R452A
NLV/E	7.96 - 10.0 - 12.6 - 14.65	265 - 1070	490 - 1830		R290	

Applications

Beverages

Coolers Merchandisers

Food Retail

Food Service Professional

Natural Refrigerants

Electronically controlled

S-SERIES COMPRESSORS EXTENDED CAPACITY

Hermetic Refrigeration Compressors for AC Voltage

- Variable-speed variants available
- Ultra-low temperature models available
- Premium efficiency for R290 (SCE, SLV)



SLVE Variable-Speed Compressor

The most powerful hermetic reciprocating variable-speed compressor for propane available on the market.

SCE Propane Compressors

New generation, energy-optimized propane compressors with maximum performance for a range of refrigeration/freezing applications.

All-Rounder – Variable and Versatile

Variants for all voltages and many refrigerants and different market applications.

SLVE Variable-Speed Compressors

Used in chest freezers in all leading supermarkets.

SCE Plus Premium robustness and top efficiency

With hermetic terminal plug with enhancing protection with flammable refrigerants and high performance in compact size with an optimized electrical system.

SCE Plus Propane Compressors with High Energy Efficiency

Compact size with high performance and an optimized electrical system.

Nominal Voltage

220-240 V/50 Hz, 115-127 V/60 Hz, 208-230 V/60 Hz.

Voltage Range

90-135 V, 103-127 V, 187-254 V, 198-254 V.

Series	Displacement (cm ³)	LBP (W) ASHRAE	MBP (W) ASHRAE	HBP (W) ASHRAE	Refrigerants	
	0 — 35	0 — 2000	0 — 3500	0 — 2750	HC	HFO/HFC
S-Series	10.29 - 12.0 - 15.0 - 18.0 21.0 - 23.0 - 25.0	167 - 1131	493 - 2440	923 - 2266	R290 R170	R134a R513A R404A, R407C R452A
SLVE	17.69	666 - 1190	1200 - 2149		R290	

Applications

- Coolers Merchandisers
- Food Retail
- Food Service Professional
- Ice Cream Freezers
- Customized solutions

Designed for

- Natural Refrigerants
- Electronically controlled

G-SERIES COMPRESSORS SIZE MATTERS

Hermetic Refrigeration Compressors for AC Voltage

Robust application, a reliable solution for demanding systems.



Proven Reliability Over Time

Decades of market presence guarantee trusted, consistent, and stable system operation.

Secop's Largest Displacement

Delivering the maximum cooling capacity required for demanding commercial applications.

Heavy-Duty Operating Resilience

Robust design ensures unwavering performance in extreme environmental conditions and high loads.

Leading the Class in Efficiency

Achieve benchmark COP values and cutting-edge energy efficiency in its class.

Robust Solution for High Load Systems

Specifically designed to manage large capacity requirements and rapid load changes effortlessly.

Nominal Voltage

220-240/50 Hz.

Voltage Range

198-254 V, 187-254 V.

Series	Displacement (cm ³)	LBP (W) ASHRAE	MBP (W) ASHRAE	HBP (W) ASHRAE	Refrigerants	
	0 — 35	0 — 2000	0 — 3500	0 — 2750	HC	HFO/HFC
G-Series	21.2 - 26.3 - 33.8	1207 - 1912	1448 - 3363	2613		R134a R513A R404A

Applications

Food Service
Professional

Customized
solutions

Designed for

Heavy Duty

CONDENSING UNITS

Secop's full range of condensing units is designed and optimized to meet the European Ecodesign Directive, providing a plug-and-play solution that reduces installation costs.



Environment

VDE approved compressors for low GWP refrigerants
Easy conversion with new drop-in replacement refrigerants.

Ecodesign

Complying with latest EU standards 2009/125/EC and 2015/1095 as well as EN 13215:2016 +A1:2020
Electronically commutated (EC) energy saving fan motors.

Suitability for severe working conditions

Components selected to operate in the most challenging environments.

Wide operational range

Compressors designed to operate in a wide range of evaporating temperatures.

Compact design

Accurate compact design to match easy installation in limited space.

Approvals

Ecodesign (EU) 2015/1108, CE, UKCA, and VDE.

Series	Displacement (cm ³)	LBP (W) ASHRAE	MBP (W) ASHRAE	HBP (W) ASHRAE	Refrigerants	
	0 — 35	0 — 2000	0 — 3500	0 — 2750	HC	HFO/HFC
KL-Series	4.8 - 5.6 - 6.6 - 7.7	228 - 422	412 - 700		R290	R134a R513A
N-Series	7.0 - 7.3 - 8.4 - 8.8 9.0 - 10.0 - 11.0 - 12.6	159 - 582	326 - 996		R290	R134a R513A R404A R452A
S-Series	10.29 - 12.0 - 15.0 18.0 - 21.0	590 - 944	752 - 1683		R290	R134a R513A R404A R452A R449A

Applications

Beverages

Food Retail

Food Service Professional

Natural Refrigerants

Heavy Duty



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