


K-SERIES COMPRESSORS IN DETAIL (Formerly KAPPA)



HKK, HMK, HTK, HXK, HZK, GTK




K-AT Types Master
Voltage Fluctuations




Competitive
Cost Structure



High
Efficiency

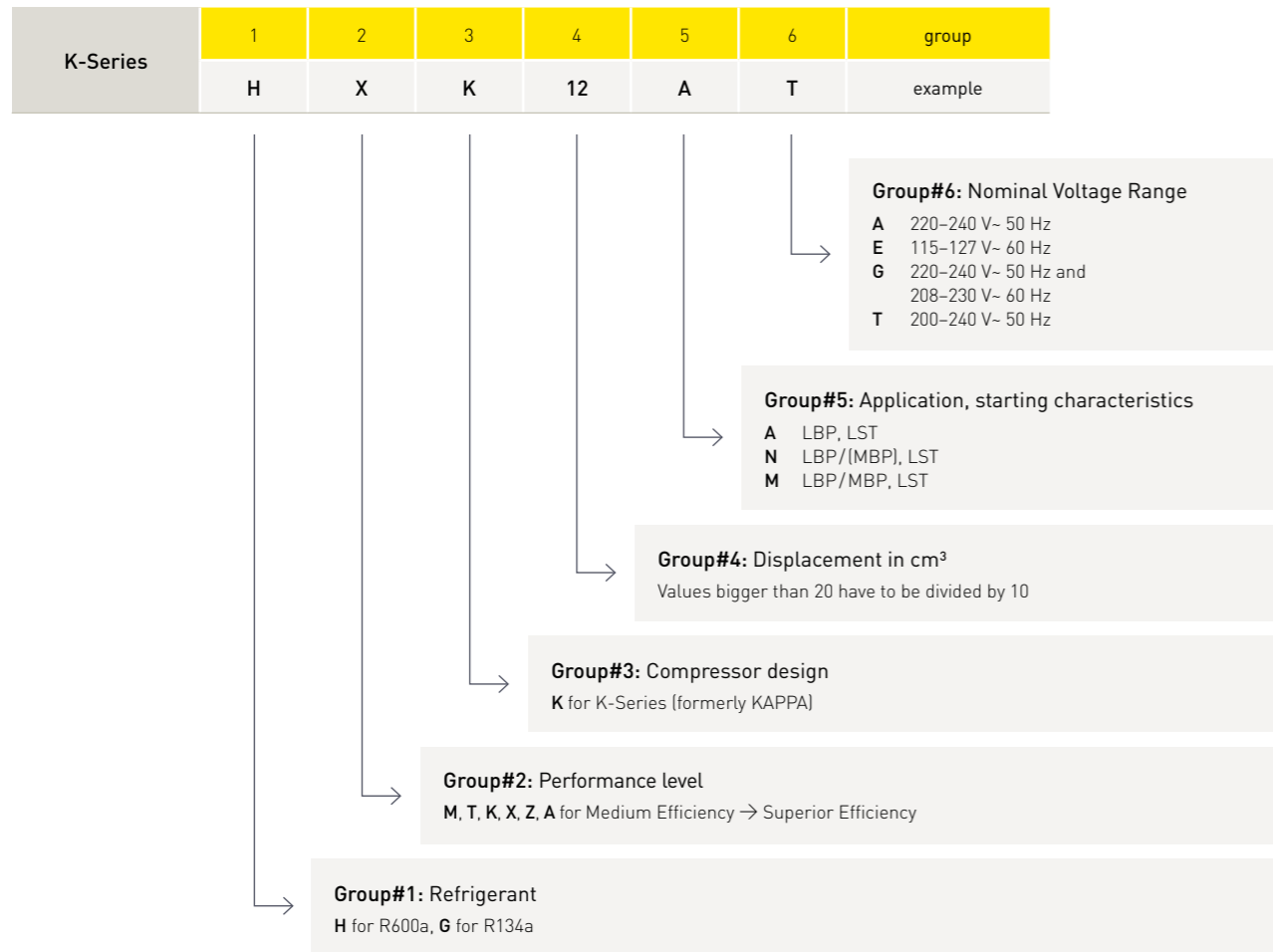


Reduced Noise
and Vibration



R600a
Green Refrigerant

K-SERIES IN DETAIL – DENOMINATION/TYPE LABEL



GTK compressor with blue area on type label for R134a

K-SERIES IN DETAIL – MOTOR TYPES/APPROVALS

Motor Types

RSIR:	Resistance start – inductive run Start winding is interrupted after start-up by a PTC.
RSCR:	Resistance start – capacitive run For higher efficiency the auxiliary winding is supporting the main winding by a run capacitor.
RSIR/RSCR:	Depending on requirements motor can be used as RSIR or RSCR type.

Certificate References



HXX

VDE, (ICE) Certificate No.	EAC Certificate No.	CCC Certificate No.
40023933	TC RU D-AT.AG27.B.00381	HXK70AT only: 2021980704000080
40053013	TC RU D-AT.AG27.B.00382	
40044388	TC RU D-AT.AG27.B.00383	

HKK

VDE, (ICE) Certificate No.	EAC Certificate No.
40010874	TC RU D-AT.AG27.B.00381
-	TC RU D-AT.AG27.B.00382
-	TC RU D-AT.AG27.B.00383

HTK

VDE, (ICE) Certificate No.	EAC Certificate No.
40003038	TC RU D-AT.AG27.B.00381
	TC RU D-AT.AG27.B.00382

HMK

VDE, (ICE) Certificate No.	EAC Certificate No.
40016826	TC RU D-AT.AG27.B.00381
	TC RU D-AT.AG27.B.00382

HZK

VDE, (ICE) Certificate No.	EAC Certificate No.
40040794	

GTK

VDE, (ICE) Certificate No.	EAC Certificate No.
40052834	EAEU N RU D-DE.NV27.V.03212/20

K-SERIES IN DETAIL – DELIVERY CONDITIONS/ APPLICATION CONDITIONS

Delivery Conditions

Max. solid impurities ¹⁾	[mg]	30
Max. soluble impurities ¹⁾	[mg]	600
Max. total compressor water content ¹⁾	[mg]	100

[*] When delivered

Applications Conditions

Max. ambient temp. ¹⁾	[°C]	43
Max. steady discharge temp. ²⁾	[°C]	120
Max. peak discharge temp. ^{2,5)}	[°C]	135
Max. steady condensing temp. ³⁾	[°C]	60
Max. peak condensing temp. ^{3,5)}	[°C]	70
Max. winding temp. ⁴⁾	[°C]	130

¹⁾ static

²⁾ measured on discharge tube, 50 mm from the shell

³⁾ measured in the middle of condenser

⁴⁾ calculated out of the measured difference of resistance

⁵⁾ max. 5% life time

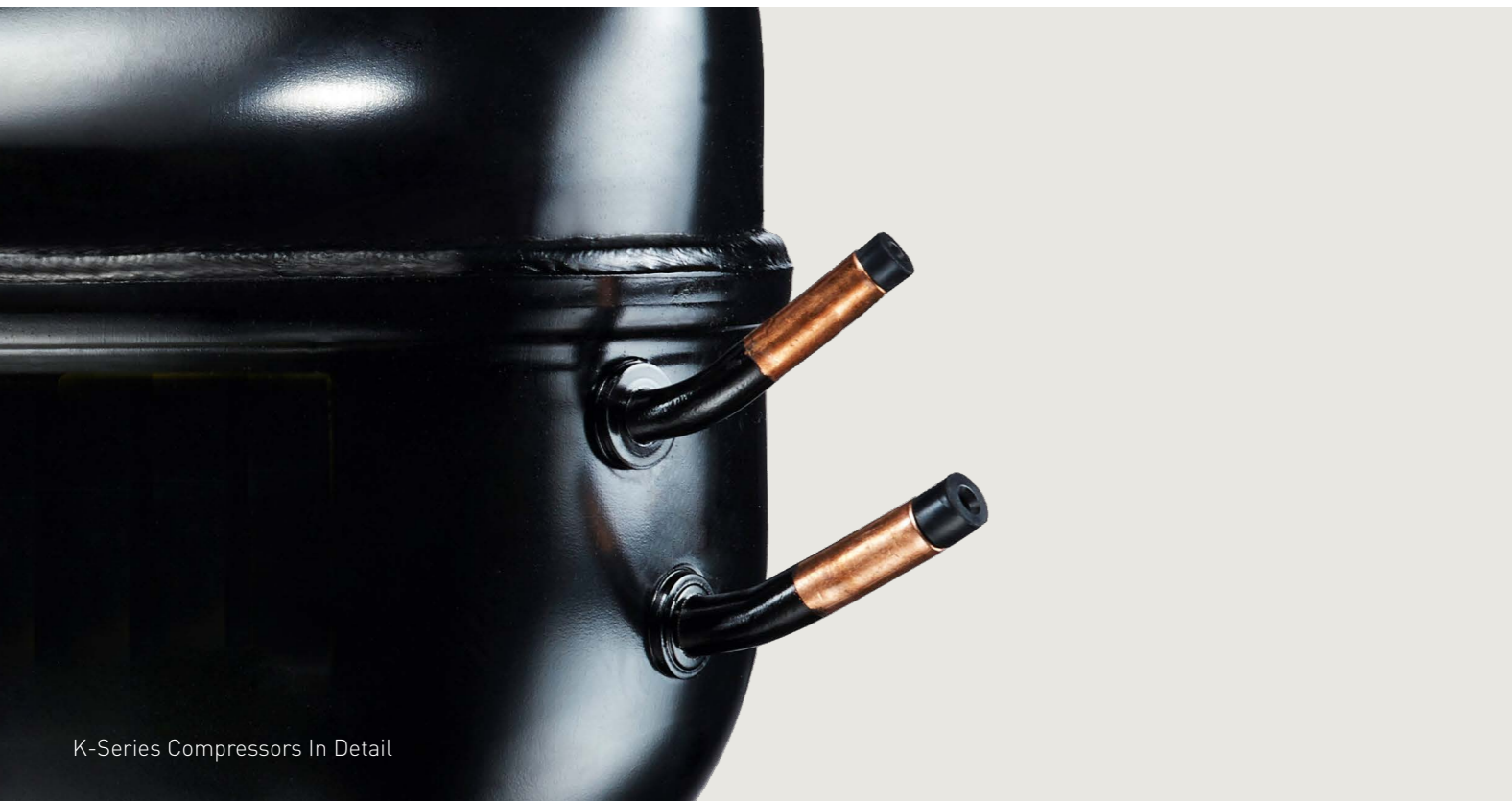
Oil Transport of the Compressor in the Refrigeration Circuit

Average value of the transported oil in the refrigeration circuit:

2.5 g oil/kg R600a mass flow per hour.

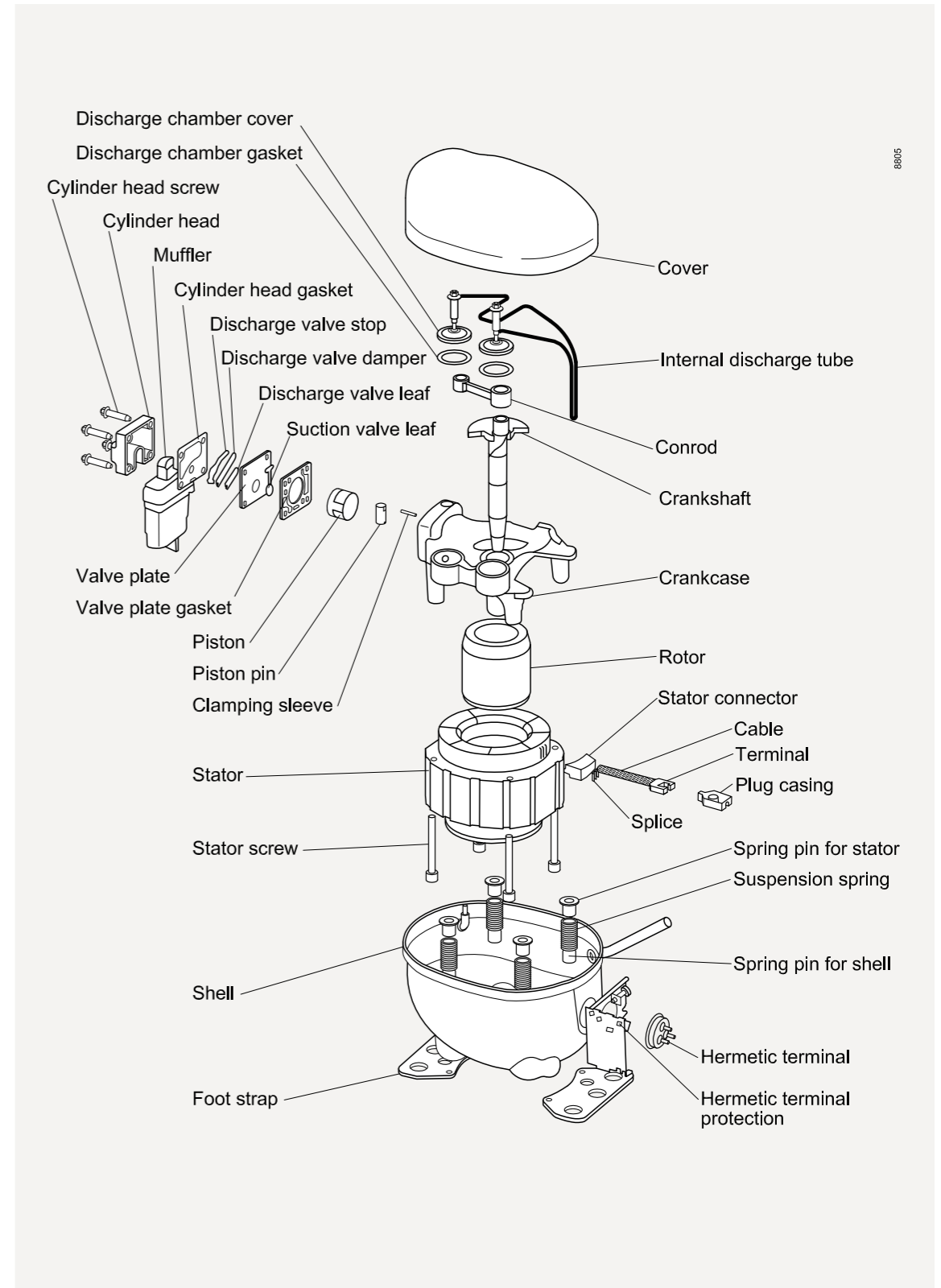
Tolerance:

±2.5 g oil/kg R600a mass flow per hour.

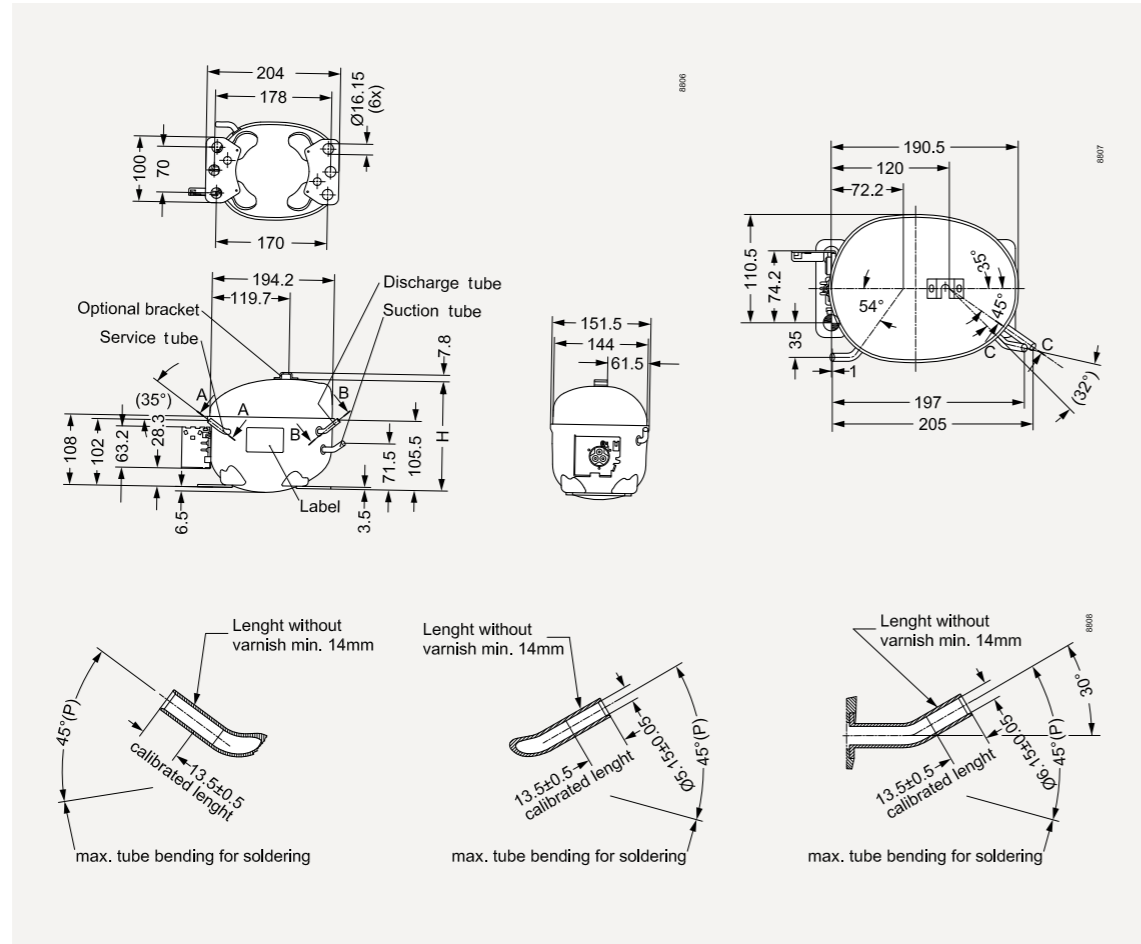


K-SERIES IN DETAIL – DRAWINGS

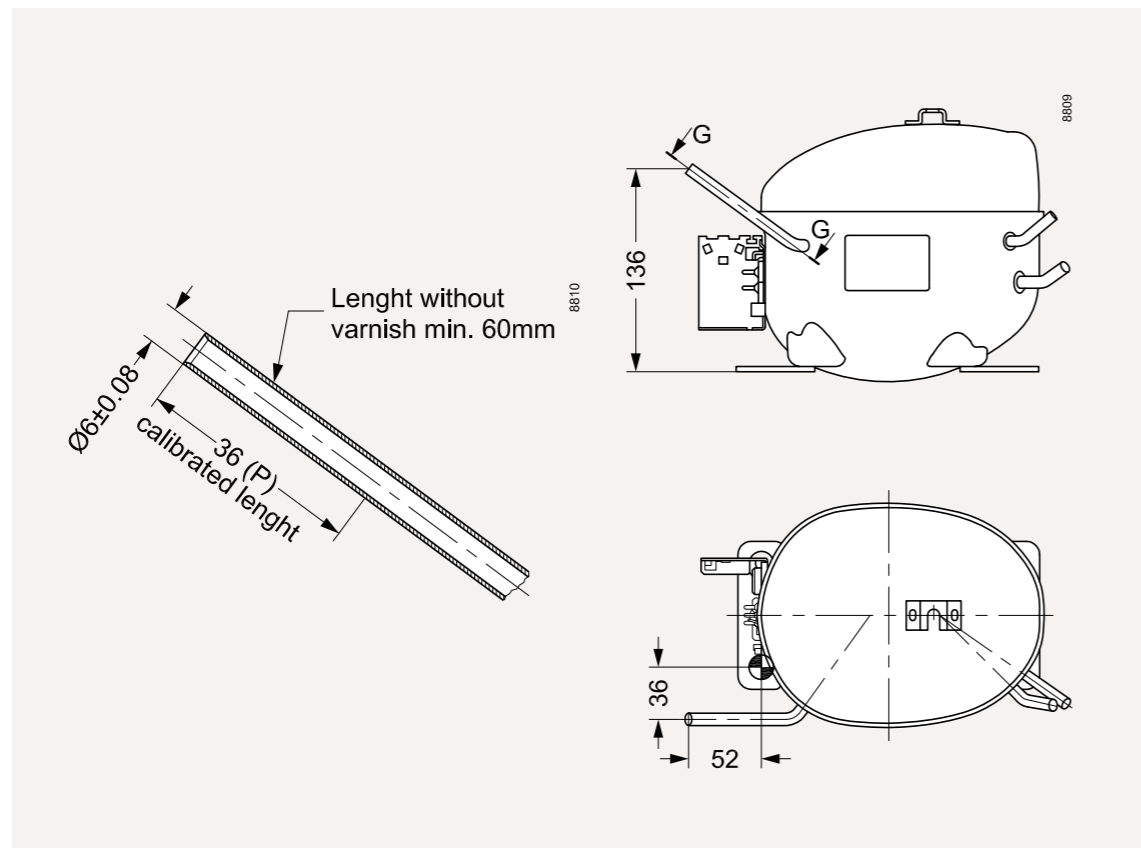
3D Sketch



Outline Dimensions with Short Service Tube

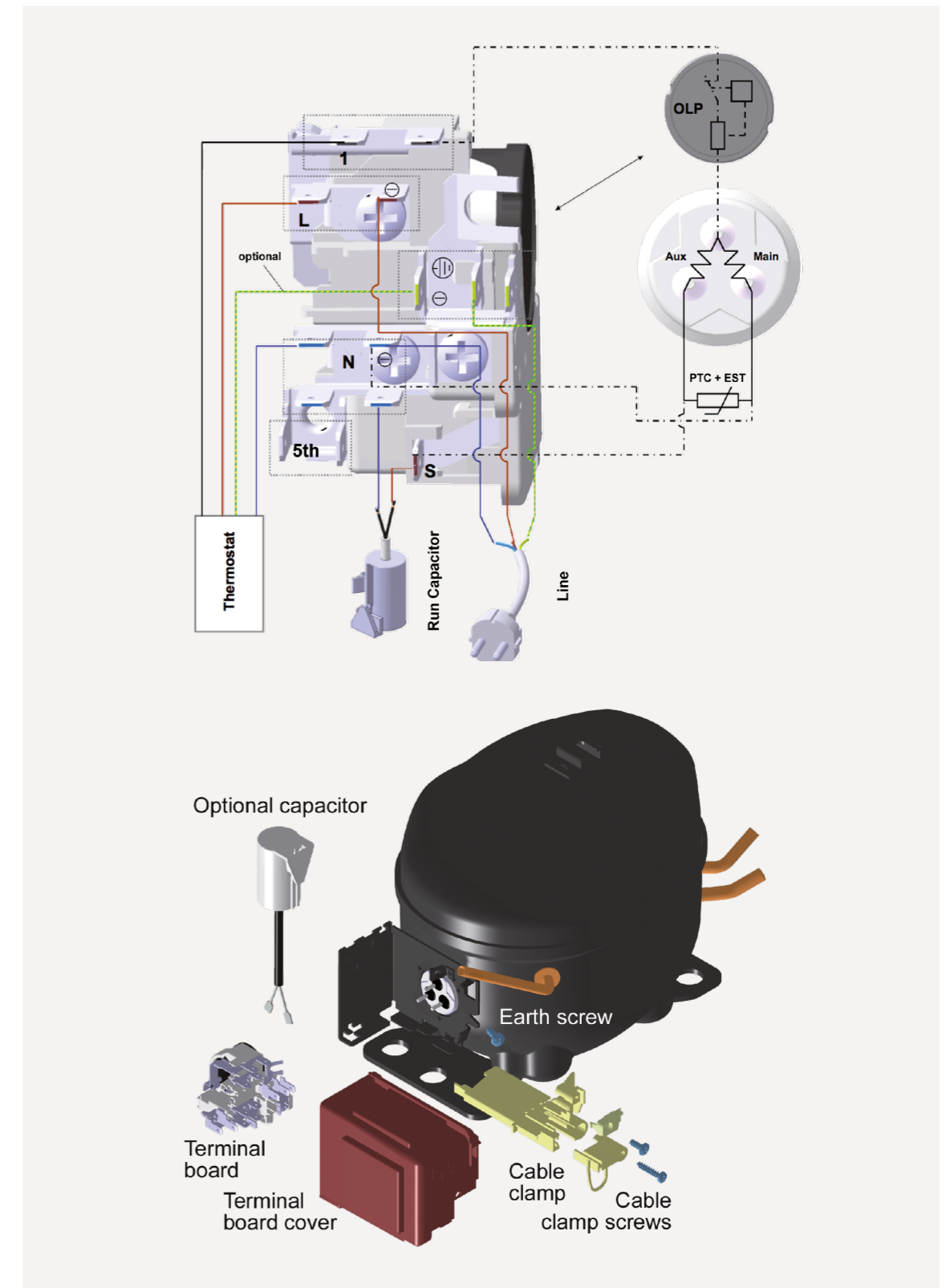


Outline Dimensions with Long Service Tube



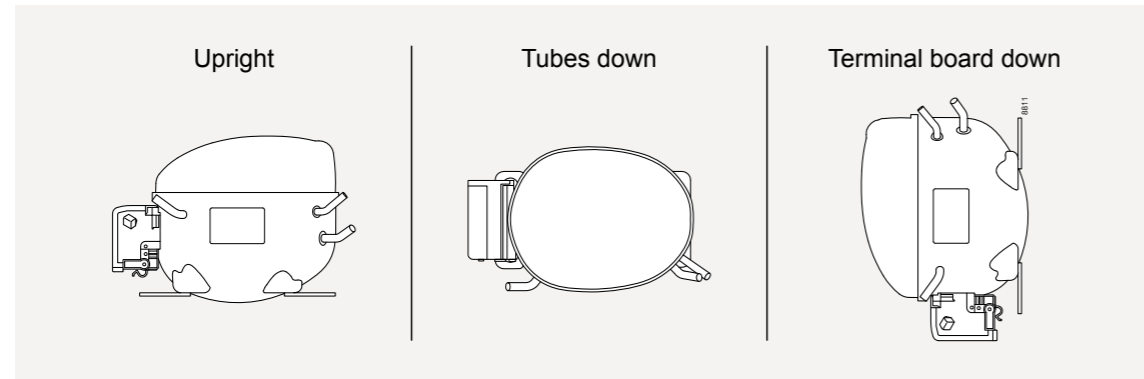
K-SERIES IN DETAIL – ELECTRICAL COMPONENTS

Terminal Board and Assembly



K-SERIES IN DETAIL – TRANSPORT, PACKING, PALLETIZATION

Recommended
Transport Positions
when Fitted into
Appliances



Packing and
Palletization

	Packing-type	Layers	Quantity	Compressors per layer	Pallet Size LxW
				LxQ	mm
One-Way packaging	Wood-EPS *	5	100	5x4 = 20	1120x820
	Single packaging	4	56	4x4 = 16	1120x820

*Optional protection and reinforcement with cardboard-box and PE top foil.

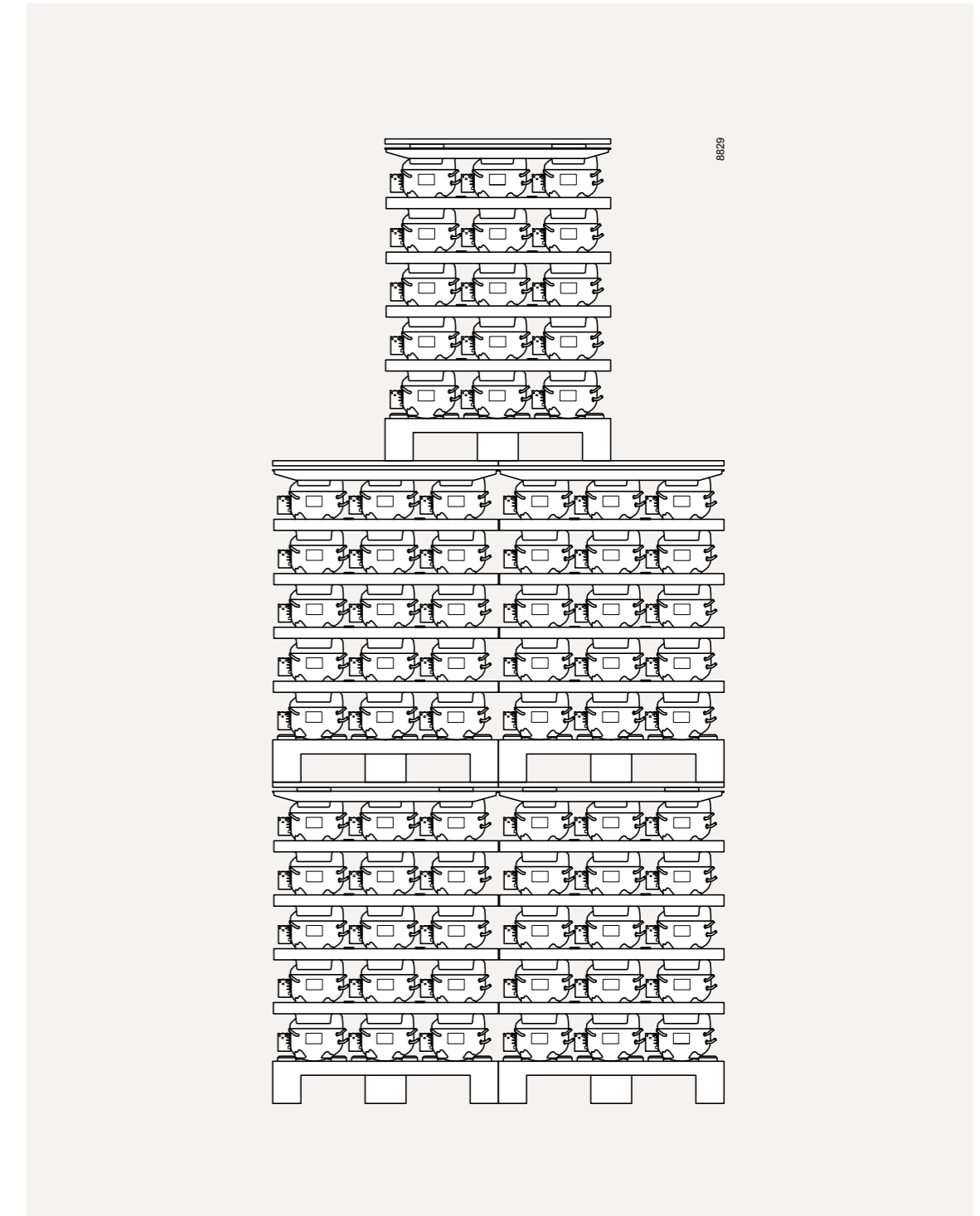
Transport

	Packing-type	Layers	Stacking height Number of pallets		
			Truck	Container	Train 1, 2
One-Way packaging	Wood-EPS	5	1	-	-
		4	1	-	1
		5	1	-	1
	Wood-EPS + cardboard-box + PE top foil	4	1	2	1
		5	1	2	1
		Single packaging	4	1	1

1 → Train transport according UIC-Codex 526-1. In sliding wall wagon with lockable bulkhead only;
2 → Train loading according BT Band 2 Rail Cargo Austria, Loading guideline 100.1; Contact of pallet to bulk head is mandatory; respectively the maximum distance of 45 mm has to be guaranteed. Maximum weight of goods between bulk heads is 5 t.

Warehouse Storing

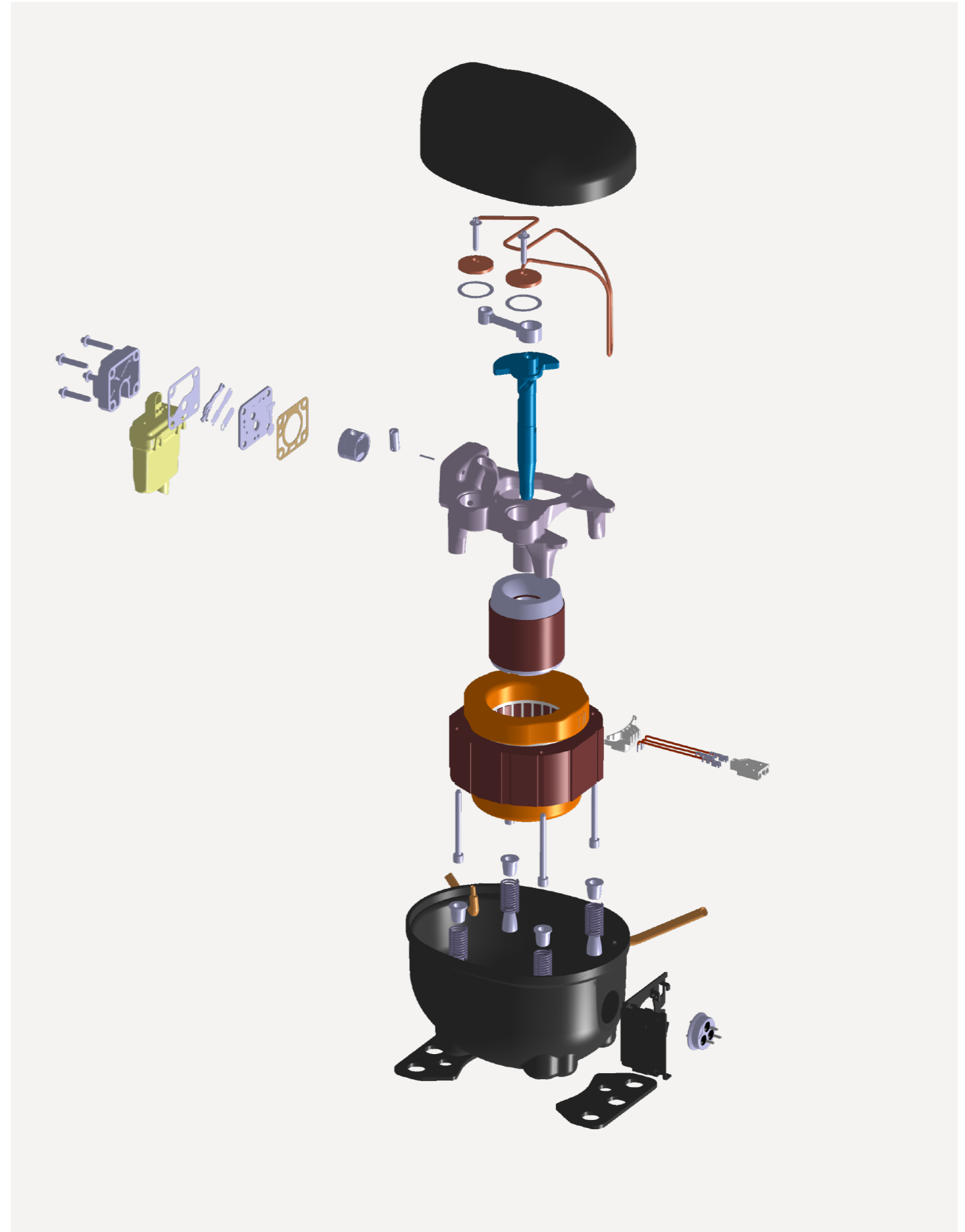
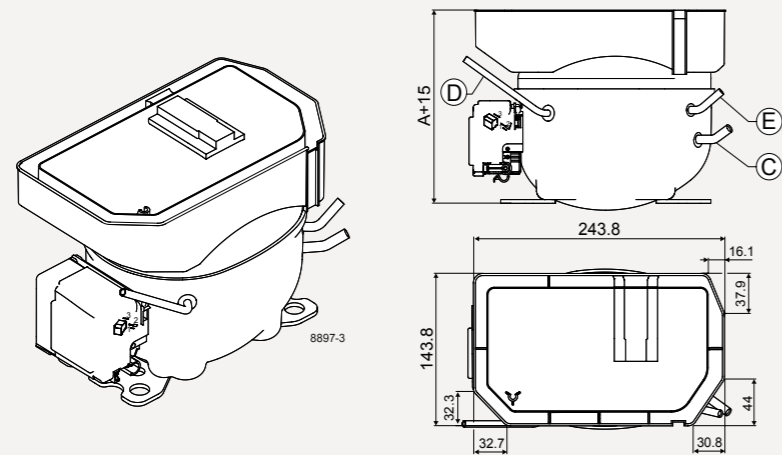
One Way packaging max. 3 pallet layers – 3rd layer with offset.



Recycling of
Compressors

Oil and gas must be recycled separately. After-
wards the compressor must be removed from the
refrigerator and has to be given to a scrap metal
recycling unit.

K-SERIES EVAPORATION TRAY - 162991_



SECOP GROUP: AROUND THE WORLD

SECOP

12

international
partners for
advanced
developments

33

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

160

R&D engineers
and technicians

440

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.

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- Turin:** Sales
- Gleisdorf:** R&D
- Zlaté Moravce:** R&D, Logistics, and Manufacturing
- Tianjin:** Sales, R&D, Logistics, and Manufacturing
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**Stationary
Cooling**



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