AbN
automation

SEIFERT

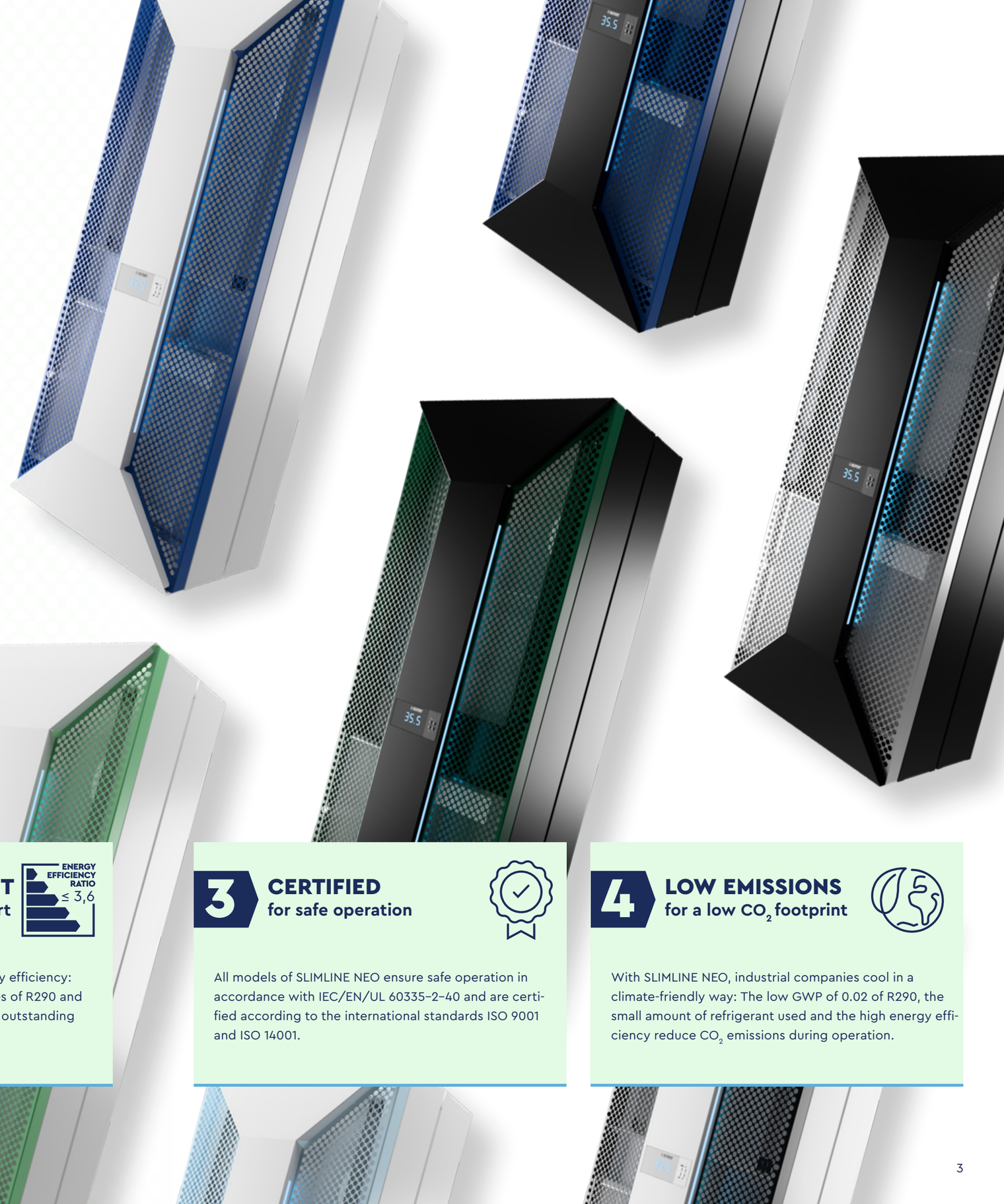
SLIMLINE NEO ENCLOSURE COOLING

SEIFERT SYSTEMS
THERMAL MANAGEMENT FOR ENCLOSURES AND MACHINERY

NEW ENCLOSURE COOLING SLIMLINE NEO

F-Gas compliant, PFAS-free, future-proof

With the stricter F-Gas regulation and the threat of PFAS bans, it is clear that industry must switch to more climate-friendly refrigerants. Seifert reacted early. The solution: the new SLIMLINE NEO cooling units with the natural refrigerant R290. A milestone in industrial air conditioning, opening the direct path to a sustainable, safe, and economical future for companies.



SLIMLINE NEO
4 KEY ADVANTAGES FOR INDUSTRY

1 FUTURE-PROOF
in just one step

With SLIMLINE NEO, industrial companies can future-proof their operations in just one step: The natural refrigerant R290 used meets the upcoming requirements of the F-Gas Regulation EU 2024/573 and is PFAS-free.

2 HIGHLY EFFICIENT
through state-of-the-art technology

SLIMLINE NEO achieves very high energy efficiency: The excellent thermodynamic properties of R290 and the inverter technology used deliver an outstanding EER of up to 3.6.

3 CERTIFIED
for safe operation

All models of SLIMLINE NEO ensure safe operation in accordance with IEC/EN/UL 60335-2-40 and are certified according to the international standards ISO 9001 and ISO 14001.

4 LOW EMISSIONS
for a low CO_2 footprint

With SLIMLINE NEO, industrial companies cool in a climate-friendly way: The low GWP of 0.02 of R290, the small amount of refrigerant used and the high energy efficiency reduce CO_2 emissions during operation.

AbN
automation

INNOVATIVE TECHNOLOGY, INNOVATIVE DESIGN

SLIMLINE NEO – a statement for responsibility, efficiency and future viability

The key of the SLIMLINE NEO concept is the use of the natural, high-performance refrigerant R290, efficiently combined with energy-saving inverter technology. For SLIMLINE NEO, Seifert has developed a completely new housing that impresses with its compact and safe architecture, modern design, and optional customisation. With the new SLIMLINE NEO cooling units, Seifert customers are switching directly to the technology of the future.

Certified according to international standards
The SLIMLINE NEO unit architecture meets all safety requirements regarding the classification of R290 as a Class A3 refrigerant according to IEC/EN/UL 60335-2-40. SLIMLINE NEO is manufactured at sites certified according to the international standards ISO 9001:2015 and ISO 14001:2015.

Industrial Design by oundo.com

The refrigerant R290 –
powerful and environmentally friendly

The refrigerant R290 is PFAS-free due to its natural composition and has an extremely low GWP of only 0.02. One kilogram of R290 with a GWP of 0.02 therefore has the same greenhouse effect as 20 grams of CO_2 (GWP 1), a fraction of the climate impact of chemical refrigerants. Due to its excellent thermodynamic properties, R290 delivers full cooling power even at high ambient temperatures and generates high cooling capacity with a small amount of refrigerant.

- R290 is climate-friendly, F-gas compliant and does not fall under PFAS bans.
- SLIMLINE NEO requires only 25 % of the refrigerant in comparable cooling units.

The inverter technology –
highly efficient and sustainable

The new cooling units feature inverter technology throughout. Unlike an on/off compressor, the inverter continuously regulates the speed of the compressor and fans. It perfectly adjusts the cooling capacity to the demand, keeping the temperature inside the enclosure stable and reducing condensation, resulting in an extended service life of sensitive components and electronics.

- The largest model of the SLIMLINE NEO achieves an EER of up to 3.6.
- The combination of refrigerant and inverter technology produces a significantly better climate footprint.

The housing architecture –
one cutout for three mounting options

For SLIMLINE NEO, Seifert has completely redesigned the technical and functional design, including customisable lighting options. The compact construction makes the cooling unit exceptionally lightweight and vibration-free. For maximum operational safety, the housing is also designed to prevent refrigerant from leaking into the enclosure.

- SLIMLINE NEO is almost a third smaller than similar cooling units.
- The low-vibration design improves component protection.

The design –
elegant surfaces and customization

The elegant design is available with a choice of surfaces made of powder-coated sheet metal or stainless steel.

Both surfaces and lighting can optionally be colour matched to the customer's brand identity.

Upon request, Seifert also manufactures tailor made solutions for individual customer requirements.

ONE STEP, NO RISK

SLIMLINE NEO – applications and technical data

Wherever sensitive electronics or processes need to be cooled, SLIMLINE NEO demonstrates its strengths: durable, reliable, compliant, and sustainable.
This includes Mechanical and Plant Engineering, Food and Beverage Industry, IT and Telecommunications, Renewable Energies, Battery Storage, Automotive Industry as well as Environmental and Medical Technology.

- Medical technology
- Environmental
- Automotive
- Renewable energies
- Battery storage
- Telecommunication
- IT technology
- Food & Beverage
- Mechanical
- Plant construction

Three cooling capacities and housing sizes
SLIMLINE NEO is available in three versions. The design is similar for all models.

Model	KG 9210		KG 9215		KG 9225	
Order no.	921000001	921020001	921500001	921520001	922500001	922520001
Order no. stainless steel 304 (V2A)	92100002	92102002	92150002	92152002	92250002	92252002
Optimised operating point	1000 W		1500 W		2500 W	
Cooling capacity range	300 – 1100 W		500 – 1800 W		600 – 2700 W	
Compressor type	BLDC Rotary Piston					
Operating temperature range	10°C to 60°C					
Mounting	Wall mounted, recessed [1], internal [2]					
Dimensions (H x W x D)	950 x 395 x 192 (137)[2] mm		950 x 395 x 255 (100) [1] (200)[2] mm		1350 x 395 x 290 (135)[1] (235)[2] mm	
Cutout (H x W)	910 x 345 mm				1316 x 351 mm	
Housing material/Colour	Mild steel powder coated/RAL 7035, stainless steel					
Weight	25 kg	30 kg	28 kg	34 kg	36 kg	42 kg
Voltage/Frequency	120 – 230 V ~ 50/60 Hz	360 – 480 V 2~ 50/60 Hz	120 – 230 V ~ 50/60 Hz	360 – 480 V 2~ 50/60 Hz	120 – 230 V~ 50/60 Hz	360 – 480 V 2~ 50/60 Hz
EER	≤2.6		≤3.6		≤3.1	
Protection class	IP 55, Type 12, 3, 3R					
Connection	4 pole terminal block for power, 5 pole terminal block for signals, 3 pole terminal block for RS 485					
Fuse	20 A (T)					

[1] unit section protruding into the enclosure / [2] unit section protruding into the enclosure