



Automotive Climate E-Compressor Sealing

- Low friction shaft seal for automotive electric compressor
- Contributes to maintaining optimal internal pressure of electric compressor
- Rubber and PTFE optimized for refrigerant and compressor oil



The ALS-e (*Air-conditioning Lip Seal*) is a rotary shaft lip seal for electric scroll compressors in HVAC systems. EKK seals are known for its outstanding robustness and quality.

Its design with the supported single PTFE seal can maintain a pressure differential with reduced back-flow in combination with low friction. The seal can be applied in numerous refrigerants, such as R134 and R1234YF, and covers a large operating range.

Perfection in material, process and design makes this seal a well-established, cost effective sealing solution for electric automotive climate compressors which is highly appreciated by our customers.

Operation conditions:

Specification	Range	Unit
Medium	R134a / R1234yf / compressor oil	[-]
Pressure – dynamic	0 till 3,0	MPa.g
Temperature	-40 till +150	°C
Speed	10.000	min ⁻¹
Sliding Materials	PTFE	[-]

Assembly dimensions:

Specification	Abbr.	Range	Unit
Shaft diameter	D1	20 – 27,5	mm
Bore diameter	D2	30 – 41,3	mm
Total height	H1	3,7	mm
Shaft specification		0,2 – 0,6	µmRa

