

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Air Compressor Unit**with type designation(s)
SC43; SC53; SC62; SC77

Issued to

Renner GmbH
Güglingen, Germany

is found to comply with

DNV GL rules for classification – Ships Pt.4 Ch.5 Rotating machinery – driven units**Application :****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2021-01-20**This Certificate is valid until **2026-01-19**.DNV GL local station: **Augsburg**for **DNV GL**Approval Engineer: **Christian Kaemmer**

Olaf Drews
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Air compressor module, screw type, frame mounted. The air compressor unit consists of the following main components:

- Screw Compressor EVO6 NK for Compressor modules SC43 & SC53
- Screw Compressor EVO9 NK for Compressor modules SC62 & SC77
- Electric motor
- Control panel
- Oil separator cartridge
- Oil filter
- Air filter
- Oil/ air cooler
- Safety valve
- Frame & Housing

SC43 & SC53 are of the same design but have different electric motor for higher performance data
SC62 & SC77 are of the same design but have different electric motor for higher performance data

Application

The air compressor unit is type approved for class III-piping systems for compressed air.

		SC43 400V 50Hz	SC43 440V 60Hz	SC53 440V 50 Hz	SC53 440V 60 Hz
Operating pressure [bar]/ Capacity (F.a.d.) @ gauged pressure [m3/h]	8	250	285	295	320
	10	235	250	260	295
	12	210	220	240	260
	13	205	215	235	255
Nominal Power [kW]		30	35	37	43
Speed [rpm]		2950	3540	2950	3540
Design Pressure [bar]		15	15	15	15

		SC62 400V 50Hz	SC62 440V 60Hz	SC77 440V 50 Hz	SC77 440V 60 Hz
Operating pressure [bar]/ Capacity (F.a.d.) @ gauged pressure [m3/h]	8	390	425	460	520
	10	340	380	420	460
	12	320	340	380	440
	13	300	335	350	400
Nominal Power [kW]		45	52,5	55	64
Speed [rpm]		2970	3550	2970	3550
Design Pressure [bar]		15	15	15	15

Type Approval documentation

Tests carried out

Job Id: **262.1-033847-1**
Certificate No: **TAM000016Y**

Marking of product

		J.P. SAUER & SOHN			
MASCHINENBAU GMBH					
Typ Type		Nr. No.			
Volt / Hz / Ph.		Baujahr Year of manuf.			
Voltage / Hz / Ph.					
Liefermenge Capacity FAD		Leistungbedarf Motor power		kW	
	lit / min				
		Zul. Betr.-O.-Druck Max. working press.		bar (g)	

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the Type Approval are complied with. Refer to DNVGL-CP-0338, Sec.4.