SERIES SV/SW MECHANICAL COMPRESSORS

safe GAS DESIGNED FOR YOU
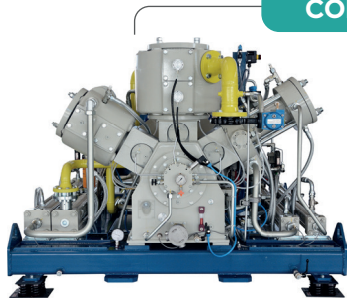
SAFE is an Italian key player in compression and decompression infrastructure technology. Since 1975 it develops and produces mechanical and hydraulic compressors for biomethane and natural gas in Upstream, Midstream Industrial and Distribution markets.
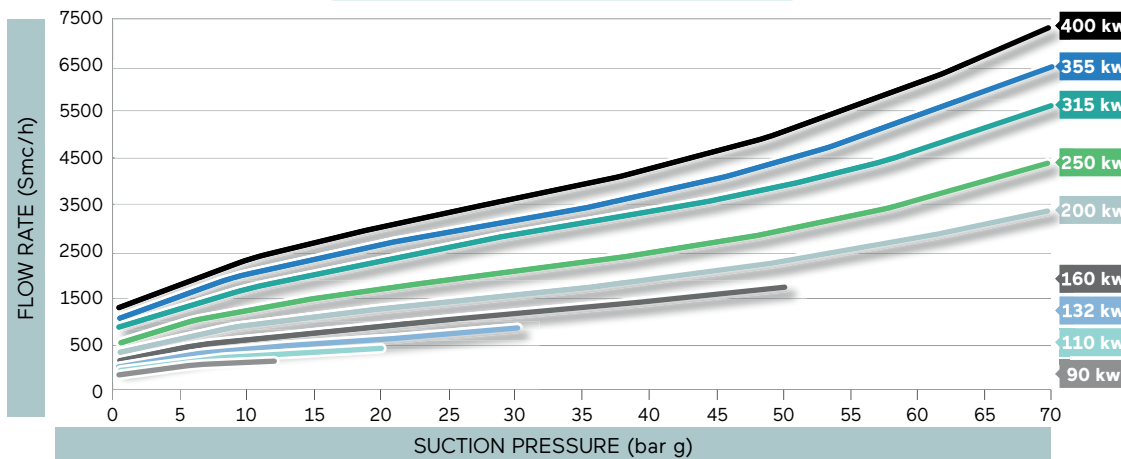
COMPRESSOR PHYSICAL DESCRIPTION

Large size Mechanical compressors equipped with 2 or 3 cylinders positioned at 60°. They are the largest compression units produced by SAFE and can operate in a wide range of suction pressures. They are suitable for all application where high suction pressure is required.
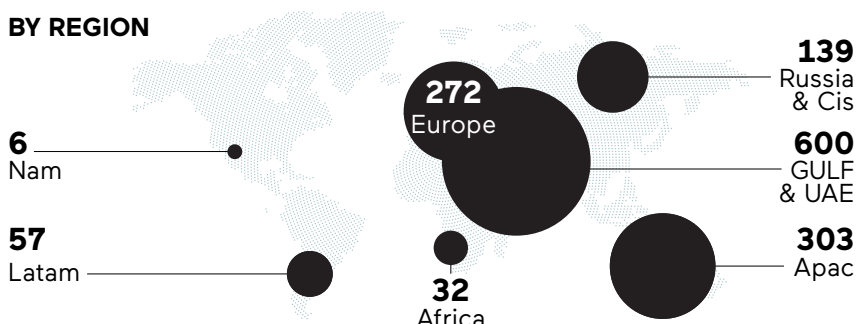
DATASHEET (TABLE)

TECHNICAL FEATURES	UNIT OF MEASURE	VALUES
MODELS	–	C90, C110
CYLINDER	No.	2 ÷ 3
STAGES	No.	1 ÷ 4
SUCTION PRESSURE	bar (psi)	0.3 ÷ 70 (4 ÷ 1,015)
DISCHARGE PRESSURE	bar (psi)	Up to 300 (4,350)
MAX FLOW-RATE	Scm/hr (SCFM)	7,000 (4,130)
POWER	kW (Hp)	55 ÷ 400 (100 ÷ 540)
SPEED	rpm	750 ÷ 1,500
MAINTENANCE PLAN	hours	4,000 in CNG; 8,000 in RNG*
GAS HANDLED	–	NG, RNG
CYLINDER FEATURES	–	Water cooled, non-lubricated
LUBRICATION SYSTEM	–	Crankcase forced lubrication system
OIL CONSUMPTION	Liters	2 over 100 hours of operation OIL-FREE CONFIGURATION available as standard
GAS LEAKAGES	%	0.1% of the rated capacity
CERTIFICATION	–	EC/EAC – US

PERFORMANCE GRAPH

FLOW RATE (Smc/h) vs SUCTION PRESSURE (bar g)

Curves: 400 kw, 355 kw, 315 kw, 250 kw, 200 kw, 160 kw, 132 kw, 110 kw, 90 kw

REFERENCES

BY REGION

- 6 Nam
- 57 Latam
- 272 Europe
- 32 Africa
- 139 Russia & Cis
- 600 GULF & UAE
- 303 Apac

TOTAL **1.409**

COMPANY HISTORY

1975	SAFE is founded
1979	Production of the first HYDRAULIC Compressor
1988	Production of the first MECHANICAL reciprocating compressor
1992	Production of the first Oil & Gas Package
2008	Production of the first Mobile Refuelling Unit (MRU)
2010	Production of the first Biomethane solution
2011	SAFE moves to the new HQ in San Giovanni in Persiceto (BO) – ITALY
2017	SAFE&CEC is established through the Agreement between Landi Renzo and Clean Energy Fuels
2022	Idro Meccanica joins SAFE to foster H2 Market. Launch of the first HYDROGEN DISPENSER for filling stations fully designed and produced in-house

COMPANY SQM

ENTIRE PREMISES
27,000

PRODUCTION FACILITY
11,500

OFFICES & SERVICES
2,950

OTHER (parking)
12,550