

— SA SERIES 22KW - 250KW

VSD - VARIABLE SPEED DRIVE

SCREW AIR COMPRESSOR
SINGLE-STAGE

STRONG. RELIABLE. AFFORDABLE. BUILT TO LAST.

At Supa-Air, we do more than build compressors. We engineer them to thrive in Africa's toughest environments. For 16 years, our VSD (Variable Speed Drive) Screw Compressors have been the backbone of industries across the continent — proving themselves day in and day out, even in the harshest conditions.

35%

ENERGY SAVINGS
VS FIXED SPEED



WHY CHOOSE VARIABLE SPEED DRIVE COMPRESSOR

● SMARTER VARIABLE SPEED CONTROL

Automatically adjusts motor speed to match actual air demand - eliminating waste at every level of production.

● ENERGY EFFICIENT PERFORMANCE

Cuts unnecessary power use, lowering electricity bills and lifetime operating costs significantly.

● REDUCED COMPONENT STRESS

Smooth startups and fewer stop/start cycles extend the life of all key components

● OVERSIZED AIR ENDS

Intentionally oversized air ends run at slower RPMs — no gears needed. Cooler air, less wear, extended lifespan.

● DESIGNED FOR AFRICAN CONDITIONS

From intense heat to pervasive dust, purpose-built for resilience and longevity in Africa's toughest environments.

VSD SCREW AIR COMPRESSOR SPECIFICATIONS

MODEL NO.	AIR FLOW (M ³ /MIN)				POWER (KW)	NOISE (DB)	CONNECTION BSP / DN	DIMENSION (MM)			WEIGHT (KG)
	0.7 MPA	0.8 MPA	1.0 MPA	1.3 MPA				L (MM)	W (MM)	H (MM)	
SA-22	4.15	3.7	3.2	2.8	22	68	G1	1330	830	1265	410
SA-30	5.7	5.2	4.5	3.8	30	68	G1	1330	830	1265	520
SA-37	6.9	6.5	5.6	4.9	37	69	G1 1/2	1500	940	1415	655
SA-45	8.1	7.5	6.75	5.9	45	70	G1 1/2	1500	940	1415	730
SA-55	10.3	9.5	8.3	7.8	55	70	G2	1600	1060	1470	950
SA-75	13	12.8	11	9.5	75	72	G2	2000	1120	1590	1170
SA-90	16.7	15.5	14	12.5	90	72	G2	2000	1120	1590	1390
SA-110	20.8	19.6	17.8	15.5	110	72	DN65	2400	1630	1980	2280
SA-132	24.1	23.2	19.5	17	132	72	DN65	2400	1630	1980	2430
SA-160	28.8	27.8	23	20	160	72	DN80	2800	1828	2150	2950
SA-185	33.2	31.2	27.5	25.8	185	72	DN80	2800	1828	2150	3073
SA-250	43	41.5	38	34.9	250	76	DN100	4260	2182	2170	5200

ENERGY SAVINGS

35%

VSD adjusts speed to match actual air demand - you only use the power you need, every shift.

VSD WITH INTEGRATED STAR/DELTA SYSTEM

Our compressor uses a **Variable Speed Drive (VSD)** as the primary drive to match motor speed with air demand, reducing energy consumption and eliminating high electrical start-up peaks, saving you money on electricity.

For added reliability, an integrated **Star/Delta backup starting system** ensures the unit can continue operating in the event of VSD or power supply issues, minimizing downtime and keeping your production running.

Efficient. Reliable. Cost-Saving.

VSD AND INTEGRATED STAR/DELTA SYSTEM

Our unit is equipped with an integrated backup Star/Delta starting system, installed alongside the VSD (Variable Speed Drive). This built-in redundancy ensures operational continuity in the event of a VSD failure.

Should the VSD malfunction or require repair, the system can be manually switched over to the Star/Delta mode, allowing the unit to continue running without interruption. This feature significantly reduces the risk of unplanned downtime and ensures ongoing productivity while the VSD is being serviced.

The seamless switch-over capability between VSD and Star/Delta modes provides both flexibility and reliability, making this unit well-suited for critical operations where equipment uptime is essential.



INDUSTRIES SERVED



WORKSHOP



FOOD & BEVERAGE



AGRICULTURAL



AUTOMOTIVE



**MINING & HEAVY
INDUSTRY**

AIR ENDS / ROTOR



01

- Double Screw Technology - oversized rotors for better airflow at lower RPM.
- New Generation 5:6 Lobe Profile Rotors for high efficiency.
- German Air-End Technology
- SKF Bearings for balance and smooth operation.
- Cooler running, extended lifespan.

OIL / AIR COOLERS



02

- Oversized cooler design for improved heat control.
- Lower discharge temperature - higher air quality.
- Efficient cooling reduces fan use.

COMPUTER CONTROLLER (PLC)



03

- Adjusts output pressure 4-13 bar (model dependant)
- Built-in protection: phase faults, overheating, low oil, overload.
- Real-time display of hours, current, load status.

SUPA-46 COMPRESSOR OIL



04

- Reduces friction & Wear
- Meets DIN-50506 VDL Standard

OIL FILTER



05

- Model-specific lubrication - longer life
- Quality OEM filters
- Built to German specifications.

MOTORS



06

- SKF Industrial Bearings
- Reliable 380V & 525V with IP54 enclosure options.
- Motor kW/HP matched to each Air-End.

AIR INLET VALVE



07

- New reliable design - fewer moving parts
- Smooth suction valve - reduces bearing shock.
- Modulation control - units above 55kW



OIL / AIR SEPARATOR



08

- Large separator vessel with baffle plates.
- Efficient pre-separation - residual oil to ~3ppm.
- SANS 347 compliant - ASME Certified.

RECEIVER / SEPARATOR VESSEL



09

- Receiver/Separator Vessel - SANS 347 compliant.

AIR FILTERS



10

- High-Efficiency Inlet Filters
- Positioned at Highest Points
- Advanced Filtration Technology - blocks contaminants.

MINIMUM PRESSURE VALVES



11

- Quality Minimum Pressure Valve - keeps system pressure stable.
- Minimal pressure loss for consistent performance.

SWITCH GEAR & ELECTRICAL COMPONENTS



12

- Top international brand (ABB and Schneider) used across Models.
- High Quality VSD's and Star/Delta starting systems.

VSD DRIVE



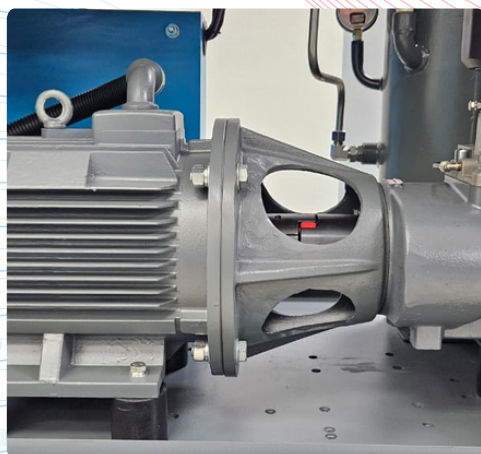
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- High quality VSD Drives
- South African backup on all drives

OEM-OWNED | OEM-PROUD

OUR PROMISE AS THE OEM.

Every Supa-Air compressor, from 22kW to 250kW,
is designed, built, and backed by us.



CONTACT US.

We stand behind our products with conviction and
provide unmatched support to ensure your
success.

DIRECT CONTACTS

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GAUTENG | CAPE TOWN | DURBAN

