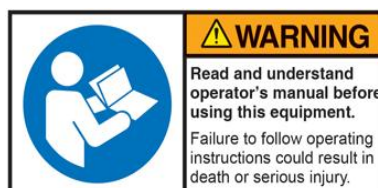


Sherpa **BIG AIR**

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SHERPA 4X4 'BIG AIR' AIR COMPRESSOR (283 L/MIN)



TECHNICAL SPECIFICATIONS:

Model	SAC12VHD & SAC24VHD
Recommended operating pressure range	0-90 PSI
Max. Operating Pressure	90 PSI
Pressure Switch Setting	On 60 PSI / Off 90 PSI
Relief Valve setting	120 PSI
Motor	12v / 24v options
Max. Power Draw	12V 100 amps / 24V 55 amps
Duty Cycle	100% @ 80 PSI
Solenoid Rating	200 amps
Weight	13.5 kg
Dimensions	383x140x275mm
Warranty	12 mths

PERFORMANCE:

Pressure (PSI)	Current (A) (12v model)	LPM (Litre per Min)	CFM (Cubic Feet per Min)
20	85	283	10
30	91	252	8.9
40	94	224	7.9
50	97	204	7.2
60	98	187	6.6
70	96	170	6
80	94	147	5.2

*24v specifications = Approx half (50%) of 12V amps

MATERIALS:

Cylinder Sleeve	Steel
Heat Sink	Aluminium
Piston	Aluminium
Piston Seal	Silicone
Check Valve	Teflon
Head Gasket	Silicone
Reed Valves	304 SS
Check Valve Spring	304 SS
Air Line	6.5m Poly Urethane



VEHICLE'S ENGINE MUST BE RUNNING DURING COMPRESSOR OPERATION

The compressor **CAN NOT** be connected to a stand-alone battery not being charged by the vehicle alternator. Doing so will damage the compressor, voiding the warranty.

*Refer to the Performance chart above to see Amp draw required during operation.

SHERPA BIG AIR – HEAVY-DUTY PORTABLE AIR POWER

The Sherpa BIG AIR is a heavy-duty, portable 12V air compressor (also available in 24V) built for serious performance and reliability. Designed to deliver high volumes of oil-free compressed air, it's the ultimate solution for 4WD enthusiasts, campers, truck drivers, and industrial users who demand consistent, powerful airflow on the go.

Whether you're inflating large tyres, running air tools, or maintaining onboard air systems for heavy vehicles, the BIG AIR delivers uncompromising results. Its continuous duty design makes it perfect for off-grid living and extended remote operation.

Featuring an oversized piston and components engineered for efficiency, the BIG AIR has been optimised for the 0–90 PSI operating range, producing an impressive 283 LPM at usable working pressures.

Operation is simple and intuitive, just connect to your power source and switch it on. The compressor automatically pressurises its integrated air tank, with an electric pressure switch managing cut-in and cut-out at 60 and 90 PSI respectively. For added safety, a pressure relief valve is included, releasing excess pressure at 120 PSI if required.

Built for reliability and performance, the Sherpa BIG AIR provides the airflow you need, wherever you need it, without compromise.

COMPRESSOR FEATURES:

- Exceptional Sherpa quality
- High volume air output
- 283 LPM of free air delivery
- Integrated air tank, pressure switch and safety relief valve
- Convenient 12V power demand (optional 24V)
- Simple integration into on-board air systems





WARNINGS

HOT SURFACES:

The BIG AIR compressor will become hot during operation, with cylinder head temperatures exceeding 100°C under normal use. Avoid skin contact with hot surfaces to prevent burns. Never leave children unsupervised around the compressor.

HEAVY UNIT:

The BIG AIR is a heavy-duty compressor. Take care when lifting, storing, or transporting the unit. Secure it properly in your vehicle to prevent tipping, damage, or injury during travel.

DUTY CYCLE:

The BIG AIR has a defined duty cycle depending on operating conditions. When running near maximum pressure (90 PSI) or for extended periods (20+ minutes), ensure you understand and follow the duty cycle limitations to avoid overheating or damage.



INSTALLATION

The Sherpa BIG AIR features an oil-free compressor design, allowing it to be mounted in any orientation without risk of internal damage. However, it is recommended to mount the unit vertically upright wherever possible for optimal performance and stability.

If mounting the compressor horizontally or inverted, additional supports or brackets may be required to ensure secure installation.

The BIG AIR is powered by a large DC electric motor with an integrated cooling fan to promote airflow and reduce operating temperatures. When installing the compressor permanently, ensure adequate ventilation around the unit to prevent overheating and potential damage to the motor or compressor head.

Outdoor or under-vehicle installations are **not recommended**. Although the BIG AIR is well-sealed and built for durability, it carries an IP54 rating and should be mounted in a sheltered location to avoid exposure to moisture, dirt, and debris.

For permanent installations, the supplied anti-vibration mounts should be used to minimise noise and vibration transfer. These mounts are also suitable and recommended for mobile applications.

The BIG AIR comes ready for integration into your vehicle's onboard air system. Simply connect an airline from the quick-connect fitting to an external air receiver tank. The built-in pressure switch and pressure relief valve will continue to manage compressor operation automatically, maintaining safe and efficient system performance.

ELECTRICAL INSTALLATION

The Sherpa BIG AIR is supplied pre-wired with a 3-metre heavy-duty power lead and alligator clamps for direct connection to your vehicle's battery. An inline fuse is integrated into the power lead for circuit protection.

For best performance, connect directly to the vehicle's primary starting battery. When operating the compressor, it is **recommended to keep the vehicle engine running** to maintain battery voltage and allow charging from the alternator.

If a permanent electrical installation is desired, users should consult a qualified automotive electrician. The BIG AIR compressor can draw up to approximately 100 amps during operation, which must be considered when selecting cable size, fuse ratings, and connection points. Use only high-current rated wiring and terminals to ensure safe and reliable performance. **Please note:** Modification to the compressor wiring can/will void warranty.

OPERATION



1. CONNECT POWER

Attach the power cables directly to a suitable 12V (or 24V) power source such as a vehicle battery.

- Red lead → Positive (+) terminal
- Black lead → Negative (–) terminal

2. POWER ON

Switch the power switch to the “ON” position. The compressor will automatically start and pressurise the internal receiver tank within the enclosure.

3. AIR CONNECTION

Connect or disconnect air lines as required for your application. The compressor will cycle automatically, maintaining pressure between 60 PSI (cut-in) and 90 PSI (cut-out).



MAINTENANCE

PRE-START DAILY CHECKS

Before each use, visually inspect the air filter located on the compressor inlet. A clean air filter is essential for efficient operation and long service life.

- Replacement Interval: Dependent on operating environment and usage frequency.
- Suggested Replacement: Every 50 hours of operation, or sooner if operating in dusty or dirty conditions.

1,000 HOUR SERVICE INTERVAL

The main piston seal is designed with a 1,000-hour service life. At this interval, it is recommended that all soft seals within the compressor be replaced.

Additionally, the electric motor brushes should be replaced every 1,000 hours to maintain consistent performance and reliability.



PRODUCT WARRANTY

SCINTEX AUSTRALIA (ABN 97 630 306 982)

This warranty applies to **Sherpa 4x4 Air Compressors** supplied by Scintex Australia. The benefits provided under this warranty are in addition to any rights and remedies available to you under Australian Consumer Law, which cannot be excluded, restricted, or modified.

WARRANTY COVERAGE

Scintex Australia warrants that:

- **Mechanical components** of the Sherpa air compressors are free from defects in materials and workmanship for **twelve (12) months** from the date of purchase.
- **Electrical components** of the Sherpa air compressors are also covered for a period of **twelve (12) months** from the date of purchase.
- **Accessory components** are covered for a period of **twelve (12) months** from the date of purchase.

This warranty is valid for the original purchaser only and is not transferable to subsequent owners.

If a defect arises during the warranty period, and Scintex Australia confirms the product is defective in materials or workmanship, Scintex will, at its sole discretion:

- Repair or replace the product or defective component free of charge; or
- Have the product or part repaired/replaced by a qualified repairer at no cost to the customer.

WARRANTY EXCLUSIONS

This warranty **will not apply** in the following circumstances:

- The product has been repaired, altered, or modified by someone other than Scintex or an authorised repair agent.
- The defect falls within acceptable industry variances.
- No fault is found after testing and inspection.
- The product has been misused or used for purposes it was not designed for.
- The product was not properly installed, used, or maintained.
- The product has been exposed to abnormal conditions (e.g. temperature, moisture, pressure, environment, etc.).
- Damage has resulted from abuse, misuse, neglect, or accident.

THIS WARRANTY DOES NOT COVER:

- Normal wear and tear.
- Cosmetic finish of the compressor.
- Air hoses.
- Use in commercial/industrial or hoisting applications.

REPLACEMENT POLICY

Scintex Australia reserves the right to replace defective parts with components of similar quality and specifications if identical parts are unavailable.

Where necessary, refurbished parts or goods may be used to repair or replace defective items.

WARRANTY CLAIM PROCESS

To make a warranty claim:

1. Contact **Scintex Australia** or the original retailer where the product was purchased.
2. Provide:
 - (a) **Proof of purchase**
 - (b) **Details of the alleged defect**
 - (c) **Photos of the alleged defect**
3. The customer must make the product available to Scintex Australia or its approved repair agent for inspection and testing. If the inspection and testing finds no defect in the Product, the customer must pay Scintex Australia usual cost of service and testing.
4. Scintex Australia is not responsible for the cost of transport of the Product to and from Scintex Australia or approved repair agent to make a warranty claim.

AUSTRALIAN CONSUMER LAW NOTICE

Our goods come with guarantees that cannot be excluded under Australian Consumer Law.

You are entitled to:

- A **replacement or refund** for a major failure and compensation for any other reasonably foreseeable loss or damage.
- You are also entitled to have the goods **repaired or replaced** if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

LIMITATIONS

Scintex Australia makes no express warranties or representations beyond those set out in this document.

The **repair or replacement** of a defective product or part is the full extent of Scintex Australia's liability under this warranty.

CONTACT

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