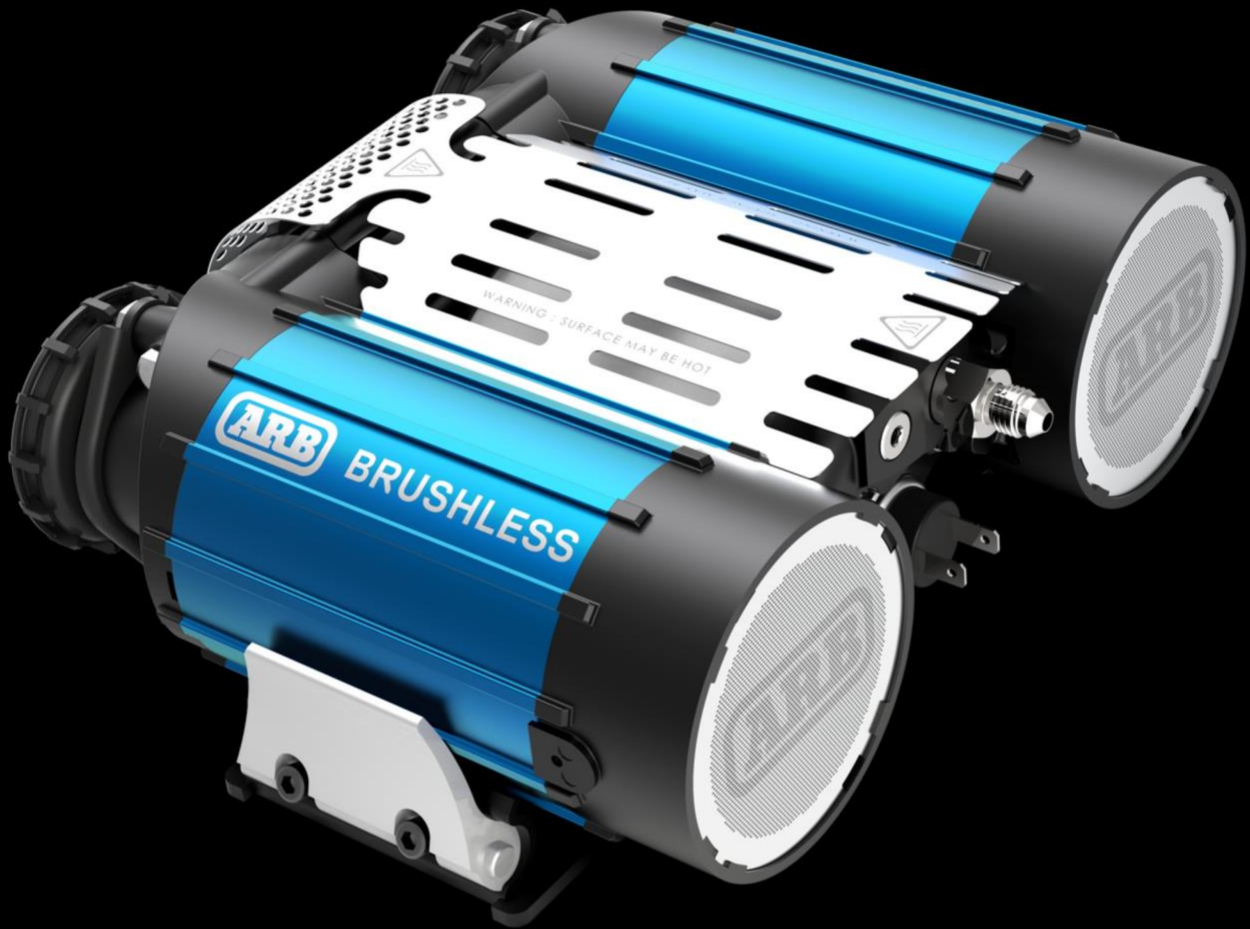




# BRUSHLESS

ON-BOARD AIR COMPRESSORS

**4X4 ACCESSORIES**





## PRODUCT PREVIEW



## ARB BRUSHLESS COMPRESSORS

### OVERVIEW

Discover the next generation of air compressors crafted specifically for 4WD enthusiasts: The ARB Brushless Compressor. Utilizing state-of-the-art technology, these groundbreaking compressors are equipped with the industry's first brushless motor, setting new standards in performance, efficiency, and reliability.

Experience a remarkable 50% boost in output compared to our current market leading compressors. Whether you're navigating rugged landscapes or setting up your campsite, the new ARB Brushless Air Compressors provide the power and reliability to keep your gear running flawlessly and your campsite essentials fully inflated.

This line expansion adds to ARB's existing compressor collection, tailored for those who demand unmatched performance. Plus, it seamlessly integrates with all existing ARB Air accessories, including fittings, hose kits, and inflators!

Part No.	Description	Price	Availability
CKBLA12	BRUSHLESS COMPRESSOR SINGLE ON-BOARD	\$499.95	MARCH 2025
CKBLTA12	BRUSHLESS COMPRESSOR TWIN ON-BOARD	\$879.95	MARCH 2025
CKBLP12	BRUSHLESS COMPRESSOR SINGLE PORTABLE	\$834.00	<a href="#">Coming Q2 2025</a>
CKBLTP12	BRUSHLESS COMPRESSOR TWIN PORTABLE	\$1324.00	<a href="#">Coming Q2 2025</a>



## PRODUCT PREVIEW

### FEATURES & BENEFITS



Brushless motors have less wearing parts, rev faster and can compress air quicker. Meaning less time inflating and more time adventuring.



Both the new brushless single and twin compressors boast an impressive 50% increase in output compared to our already market leading compressors, making tire inflation faster than ever.



Electronically controlled fans will continue to operate even when the compressor is no longer in use, ensuring the compressor is kept at optimum operating temperature.



Programmed to adjust speed to maintain optimum performance and operation across all pressures and ambient temperature conditions.



Quick-release mounts for on-board models making installation simpler and faster



Built-in protection against voltage spikes, drops or fluctuations, as well as safeguards against over-current and motor stall.





## PRODUCT PREVIEW

### FEATURES & BENEFITS



Programmed to constantly monitor performance and make necessary adjustments to account for external factors, such as temperature and variations in vehicle charging systems. Brushless on-board compressors offer 100% duty cycle, with no need to shutdown to cool off.



Relays have been removed from on-board models to simplify and speed up installation.



Live diagnostics with both audio and visual alerts.



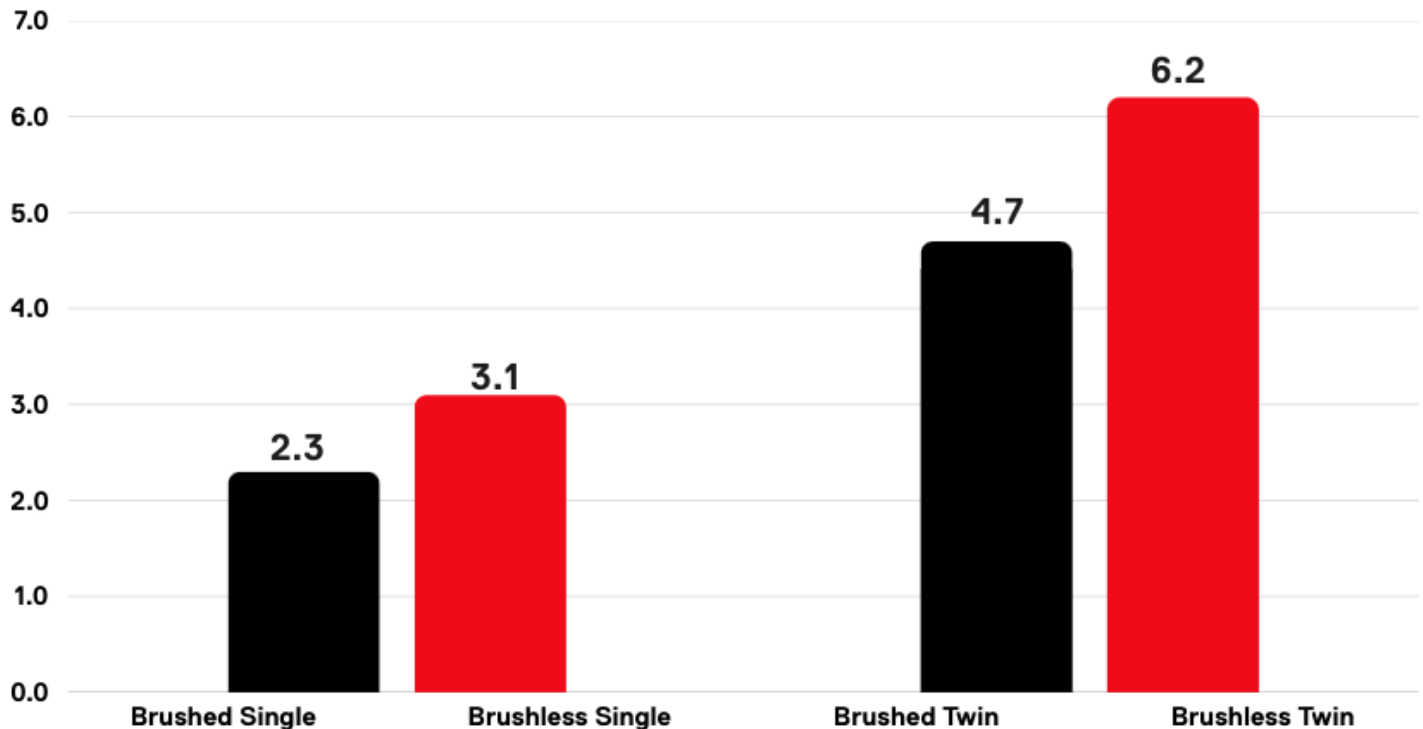
Portable Brushless models feature blue clamps signaling a polarity correction harness, this allows either clamp to be connected to either battery terminal.





## PRODUCT PREVIEW

### PERFORMANCE – CFM AT 30PSI



The new ARB Brushless Single and Twin Compressors have been designed to complement our already market leading range and boast an impressive increase in output.

## FAQ

### Can I mount Brushless on my current ARB compressor bracket?

Brushless compressors have a smaller overall footprint, because of this, they have a different mounting bolt pattern to ARB's existing compressors. ARB has vehicle specific mounting brackets in development for popular applications.

### Can I re-use my current compressor wiring loom?

Due to the brushless technology inside, there is no longer a need for relays in the wiring loom, because of this, a new loom has been developed and comes with each brushless compressor. With the high performance nature of the Brushless compressor, the gauge of wiring has been increased to provide power to the brushless in the most efficient manner. Because of these changes you cannot use an existing wiring loom with the Brushless compressors.

### BRUSHED compressor V BRUSHLESS compressor

Brushed motors use brushes and a commutator to transfer electrical current to the rotor, making them simpler and less expensive but requiring more maintenance due to wear. In contrast, brushless motors eliminate brushes and use electronic controllers to manage current flow, resulting in higher efficiency and lower maintenance requirements.



## PRODUCT PREVIEW

### **Single compressor v twin compressor**

Simply, A single compressor is constructed of one compressor providing an air supply, which can be simpler and less costly, Ideal for fitment in vehicle's that do not have much space. In contrast, a twin compressor system employs two compressors, working in tandem, to provide a greater volume of air and efficiency. This setup is ideal for those that have big tires, a trailer and other high volume air needs.

### **Where can I mount my compressor?**

There are several locations 4WDers fit on-board air compressors depending on space allocation and vehicle setup. Common locations include engine bays, and under seats. Anywhere with a flat surface and suitable support for the weight of the compressor will do!

### **Does the Compressor support an Air Locker?**

Yes, ARB offer a variety of fittings to connect and operate an Air Locker system with a Brushless compressor.

### **Is my compressor waterproof?**

The ARB Brushless is IP67 water resistant, meaning it can be briefly fully submerged, keep in mind that being an air compressor, it does suck in air therefore it needs a remote intake fitted.

### **Why Does my compressor get hot?**

Compressors get hot when they operate over a long period of time due to the internal friction. The ARB Brushless, being the most efficient and powerful compressor on the market takes a long time to heat up. However, the inbuilt fan will help to maintain stable operating temperatures.

### **Why is my compressor noisy?**

Brushless compressors include an innovative speed controller allowing much greater air output by revving faster, and higher the revs, = higher noise, AND higher performance.

### **What fittings do I need to mount the compressor?**

Included with the brushless is a quick release bracket and mounting hardware. Enabling you to mount the brushless to any flush surface. Note: The mounting footprint is different from ARB's brushed range.

### **Why does my twin start one motor at a time?**

Brushless twin compressors include smart-start technology. A staggered "Power-On" reduces the power spike at start up allowing brushless twins to start up on vehicles with smaller electrical charging systems.

### **What happens if I have low voltage in my battery?**

As an inbuilt part of the brushless twin compressor's programming, it will shut down just one of its two motors to keep pumping on a vehicle charging system that has become too drained to still support twin compressor levels of output. That keeps you pumping in adverse conditions.