E-Air VSD range

Electric mobile air compressors with VSD technology
If you have the power to choose, choose electric

Every now and then, an innovation comes along that changes the industry. Atlas Copco’s range of E-Air VSD compressors is a game-changer when it comes to performances, energy-efficiency and versatility. The E-Air’s VSD motor is clean, compact, energy-efficient and quiet, while the compressors are easy to install and operate. No emissions, unrivaled efficiency, low noise levels and a plug-and-play design; you can take the E-Air anywhere.

Cost-efficient performance
When on-site power is available, an electric compressor with VSD technology is far cheaper to run than a diesel unit. The E-Air’s VSD integrated permanent magnet motor offers unmatched performances, at an incredibly small footprint. A VSD-driven motor proves its merit when compared to a fixed speed electric model at partial or unload conditions, the state compressors run in 90% of their life. Running at partial load a VSD compressor offers an efficiency gain of up to 50%, that is a lot of energy and money saved.

Together with substantial savings on your preventative maintenance, only every 2000 hours/2 years, and the absence of diesel engine service, an electric compressor offers savings of 50% on your operational costs compared to a diesel model.

Built tough
All component under the bonnet are subject to extreme endurance testing. They are engineered and built with the toughest conditions in mind. The E-Air VSD’s permanent magnet motor and electric converter are liquid-cooled and certified to run in ambient temperatures of up to 50°C. Every E-Air is a complete package, including a standard aftercooler and bypass valve. Our E-Air VSD compressors are green at heart, but have been built with the same robustness as their diesel counterparts, including HardHat hood and C3-certified bodywork.

Rugged reliability
At the heart of the H250 VSD and H450 VSD is an in-house designed permanent magnet motor. The motor is oil-cooled and the copper windings are potted in resin to keep dust and moisture out. The result? Reliable performance, even in the toughest conditions, with an IP66 rating.

King of versatility
The E-Air compressors with variable speed drive technology have an electronic pressure regulator on board (PACE technology), that allows you to control the pressure and increase the flow of the machine. An E-Air with variable speed drive is multiple machines in one and its in-house designed permanent magnet motor offers the benefits of low-current start-up, low noise levels and excellent performances.

The E-Air can be connected and operated anywhere. No exhaust means you can run it in low emission zones, but also in tunnels, underground or any other closed-off environment where up to 30% of the operating costs can be ventilation of engine emissions. An electric motor is also very quiet, another feature you’ll appreciate in a confined space or a residential area.

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E-Air VSD: Pressure range adjustable with PACE functionality

Every E-Air VSD comes with PACE technology (Pressure Adjusted through Cognitive Electronics), an electronic pressure regulation system. You select the pressure in the compressor’s controller, your application dictates the flow, the PACE controller locks in and regulates the perfect combination. Setting the pressure is a matter of 3 clicks and you can choose a pressure at increments of 0.1 bar.

One compressor can cover the needs of various applications. From 5 bar to run a handheld tool, to 10 bar for sand blasting to up to 14 bar for cable blowing, all with one machine.

A conventional, fixed speed compressor runs at a fixed pressure level, delivering a corresponding maximal flow rate. A PACE compressor however, can deliver additional flow at lower pressure settings. When the load goes down, PACE finetunes the motor speed accordingly, which saves energy... and money.

Operating range E-Air VSD

![Operating range chart]

You pick the pressure in increments of 0.1 bar

The PACE controller locks in, and regulates, the perfect combination!
Have you ever seen a 7 m³ compressor below 750kg? With the E-Air H250 VSD, you simply tow in reliable performance to any job site, without special driving license.

Thanks to the **in-house designed** permanent magnet motor and air element, this compressor offers best-in-class efficiency. With its smart socket system, the H250 VSD fits on any power connection you may have available, 16A, 32A or 63A. With integrated start-up protection, you set the max amps the machine is allowed to take from the grid and the E-air always complies. Phase sequence problems are also a thing of the past, the E-Air 250 works with any phase sequence combination.

Once the E-Air is on, you won’t notice it’s running, thanks to noise levels as low as 61 dB(A), which is about the sound level of a normal conversation. This whisper-quiet operation is particularly useful when running the compressor indoors. However, this doesn’t mean the H250 VSD is limited to indoor operation. Its award-winning HardHat™ is the most sturdy compressor canopy available and the whole unit, including the controller is rated IP 65.

With an H250 VSD the possibilities are truly endless, also when it comes to applications. The integrated PACE technology allows you to run the machine at an adjustable pressure level (between 5 and 12 bar). Take the E-Air anywhere, plug it in, set the pressure and start the work.

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- **In-house permanent magnet motor design.** Motor is oil-cooled with potted windings for robustness (IP66)
- **Xc2003 controller with PACE.** IP 65
- **All controls at one side.**
- **Legendary HardHat™ canopy**
- **Smart Socket:** choose your current: 16A, 32A or 63A
- **Standard aftercooler with bypass valve**
- **Strong undercarriage made from a single sheet without welding. 110% fluid containment, as standard.**
- **Water-cooled inverter.** IP 66.
The E-Air H450 VSD features an in-house developed drive train with permanent magnet motor and air element that takes this compressor’s efficiency to the next level. This motor even outperforms the IE4 efficiency levels of an induction fixed speed motor.

The H450 VSD offers more than unmatched performances. When you compare its footprint and weight to a diesel machine of a comparable capacity, you’ll find that the E-Air is often only half the size and weight, and includes a HardHat™ canopy.

This compact compressor is also incredibly versatile: thanks to the Xc2003 controller with PACE, you can select a pressure between 5 and 13 bar. You can wire the H450 VSD up without the need for a phase sequence installation and it will start up without peak current.

Servicing the H450 VSD is as easy as operating it. The HardHat hood features a U-Flex design with easy and full access to all service points. Service intervals stretch to 2000 hours or 2 years.

### H450 VSD – Versatility at low cost of ownership

- Legendary HardHat™ canopy, with U-flex design
- Xc2003 controller with PACE. IP 65
- In-house permanent magnet motor design. Oil-cooled, IP66 rated motor with potted windings, complete protection against dust and water.
- Water-cooled inverter. IP 66.
- VSD fans for optimized cooling performance and efficiency
- Heavy-duty air filter with safety cartridge
- Standard aftercooler with bypass valve
- Spillage-free frame

**Compliance**

- IP 66 Water-cooled inverter
- IP 65 Xc2003 controller with PACE
- Heavy-duty air filter with safety cartridge
- Standard aftercooler with bypass valve
- Spillage-free frame

**Performance**

- Up to 50% smaller than conventional compressors
- Up to 50% lighter than conventional compressors
- PACE system manages pressure and flow
- Service once every 2000 hours/2 years
- Variable speed drive
- Low noise and emission zone compliant
- Plug & Play
- Legendary HardHat™ canopy
V1100 VSD
Sheer power, full control

The V1100 VSD is our most powerful mobile electric compressor, which pairs up our renowned Atlas Copco air element with a highly-efficient permanent magnet motor. Both the permanent magnet motor and electric inverter are water-cooled with an IP65 rating. On the V1100 VSD’s easy-to-use Xc4004 controller with PACE technology, you can set the pressure from 5 to 14 bar, with increments of 0.1 bar. This latest generation controller also shows pressure and flow meters in one 7-inch, anti-glare screen.

All this power comes in a package that weighs up to 50% less than a diesel compressor with a comparable capacity and a footprint that is almost half of regular VSD compressors.

With the same benefits of low maintenance requirements as his little brothers, the V1100 VSD offers significant savings on your operation cost when compared to a diesel compressor.

Service goes fast thanks to a canopy design with full access to all service points and a simple vessel cover for fast oil separator element changes. Other smart design features such as the VSD-driven fan boost the compressor’s efficiency and cooling performance in any climate condition. The dedicated cooling chamber design allows the same cooling performance of 50°C with and without aftercooler running.

This energy-efficient and compact workhorse comes with multidrop frame with galvanized skid and forklift slots, outdoor robust canopy with external lifting point and a corrosion-resistant C3 certified coating. It is also equipped with aftercooler and bypass valve as standard for wider applications.
## Technical data

<table>
<thead>
<tr>
<th></th>
<th>H250 VSD</th>
<th>H450 VSD</th>
<th>V1100 VSD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Working pressure range</strong></td>
<td>Bar (g)</td>
<td>5 - 12</td>
<td>5 – 13</td>
</tr>
<tr>
<td></td>
<td>Psi (g)</td>
<td>72 - 174</td>
<td>72 -190</td>
</tr>
<tr>
<td><strong>Socket connection</strong></td>
<td>A</td>
<td>CE Smart Socket, 16, 32, 63A</td>
<td>Powerlock</td>
</tr>
<tr>
<td><strong>Free Air Delivery</strong></td>
<td>m³/min</td>
<td>7 - 4,7 (at 63A)</td>
<td>13,2 - 9,72</td>
</tr>
<tr>
<td></td>
<td>l/s</td>
<td>112 - 78 (at 63A)</td>
<td>220 - 170</td>
</tr>
<tr>
<td></td>
<td>cfm</td>
<td>237 - 166 (at 63A)</td>
<td>466 - 360</td>
</tr>
<tr>
<td><strong>Sound pressure level (LpA) at 7m (23ft)</strong></td>
<td>dB(A)</td>
<td>65</td>
<td>65</td>
</tr>
<tr>
<td><strong>Max ambient temperature</strong></td>
<td>°C</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td><strong>Motor</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Installed motor power</strong></td>
<td>kW</td>
<td>37</td>
<td>75</td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>V</td>
<td></td>
<td>350 - 530</td>
</tr>
<tr>
<td><strong>Rated frequency</strong></td>
<td>Hz</td>
<td></td>
<td>50/60</td>
</tr>
<tr>
<td><strong>Dimensions (LxWxH)</strong></td>
<td>mm</td>
<td>2765 x 1346 x 1435 fixed no brakes</td>
<td>3747 x 1593 x 1572 fixed towbar</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>kg</td>
<td>749</td>
<td>1200</td>
</tr>
</tbody>
</table>

* Powerlock as option
Power Technique Solutions Portfolio

Atlas Copco’s Power Technique Business Area has a forward-thinking philosophy. For us, creating customer value is all about anticipating and exceeding your future needs – while never compromising our environmental principles. Looking ahead and staying ahead is the only way we can ensure we are your long term partner.

Air compressors

<table>
<thead>
<tr>
<th>Ready to go</th>
<th>Versatility</th>
<th>Productivity partner</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Ready to go" /></td>
<td><img src="image2" alt="Versatility" /></td>
<td><img src="image3" alt="Productivity partner" /></td>
</tr>
<tr>
<td>• 1-5 m³/min</td>
<td>• 5.5-22 m³/min</td>
<td>• 19-116 m³/min</td>
</tr>
<tr>
<td>• 7-12 bar</td>
<td>• 7-20 bar</td>
<td>• 10-345 bar</td>
</tr>
</tbody>
</table>

*Diesel and electric options available

Handheld tools

<table>
<thead>
<tr>
<th>Pneumatic tools</th>
<th>Hydraulic tools</th>
<th>Petrol engine driven tools</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="Pneumatic tools" /></td>
<td><img src="image5" alt="Hydraulic tools" /></td>
<td><img src="image6" alt="Petrol engine driven tools" /></td>
</tr>
<tr>
<td>• Breakers (2.5 – 40 kg)</td>
<td>• Breakers (11 – 40 kg)</td>
<td>• Breakers &amp; Tie Tamper (25 kg)</td>
</tr>
<tr>
<td>• Rockdrills (5 – 25 kg)</td>
<td>• Additional Hydraulic Tools</td>
<td>• Rockdrills (23 Kg)</td>
</tr>
<tr>
<td>• Underground Rock Drills</td>
<td>• Powerpacks</td>
<td></td>
</tr>
<tr>
<td>• Additional Air Tools</td>
<td>*Diesel and electric options available</td>
<td></td>
</tr>
</tbody>
</table>

Generators

<table>
<thead>
<tr>
<th>Light towers</th>
<th>Dewatering pumps</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7" alt="Generators" /></td>
<td><img src="image8" alt="Light towers" /></td>
</tr>
<tr>
<td>• Portable</td>
<td>• Diesel LED and MH</td>
</tr>
<tr>
<td>• Mobile</td>
<td>• Electric LED</td>
</tr>
<tr>
<td>• Industrial</td>
<td>• Battery LED</td>
</tr>
<tr>
<td>*Multiple configurations available to produce power for any size application</td>
<td>*Diesel and electric options available</td>
</tr>
</tbody>
</table>

Not all products are available in all markets.