Atlas Copco Portable Air
The DrillAir™ range of compressors

Atlas Copco is the leading manufacturer of portable compressed air machines in the world. Over the years, we have consistently listened to our customers and developed machines that exceed their expectations.

The DrillAir™ range provides the highest air volume at the highest air pressure available in the portable compressor industry. This also makes these new compressors the most energy efficient by having the lowest specific fuel consumption for the air delivered.

Now you can drill deeper and larger holes at the fastest penetration rates giving you the highest productivity.
1. Tandem (option) not only makes for easy manoeuvring but also saves valuable time by allowing the compressor to be towed on road at high speed. **Wagon** (option) provides stability and makes it easier to move the compressor on uneven sites.

2. The easy-to-access and easy-to-clean **cooler block** has been designed with the highest safety margin for burst pressure, and is optimised for high temperature performance.

3. **Fuel filters** not only extend the lifetime of the engine fuel system, but also ensures maximum engine efficiency and power output.

4. **Industrial Caterpillar C18 engine** can cope easily with heavy-duty tasks, while worldwide service network keeps any downtime to a minimum.

5. **Easy, ergonomic fuelling**, with a fuel funnel at convenient height and a breather line to prevent air-locks. Secure lockable fuel cap prevents theft. **Optional external fuel connections** for full-time operation.

6. **Spillage-free frame** protects the environment from any accidental spills.

7. **Nato/DIN towbar eye** meets country homologation requirements.

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13. **Standard fuel tank** allows stand-alone operation. **Optional extra-large fuel tank** for longer, uninterrupted operation.

14. **Optional skid-mounting** (with integrated fork-lift slots) enables box unit to be placed directly on any surface.

15. **Fuel filters** not only extend the lifetime of the engine fuel system, but also ensures maximum engine efficiency and power output.
4. Engine oil filters maximise the lifetime of the engine.

5. The air intake filters (on engine and compressor) use both physical and centrifugal separation systems. A safety cartridge is standard.

6. Compressor oil filter maximise the lifetime of the all-important screw elements.

7. Optional aftercooler and high-quality airfilters.

8. Easy-to-use control panel, with robust digital diagnostics and display panel, easy parameter setting and access to stored data.

9. Thanks to their high-precision engineering and high-quality materials, the screw elements are highly efficient in producing compressed air output from the minimum power input.

10. Sliding valve air outlet ensures flow and pressure to ISO 2117 standards, so level is always as stated in the documentation.

11. Easily accessed centralised service drains speed up service turnaround time by ensuring that service points are drained quickly and completely.

12. Regulating valve enable pressure to be regulated manually (within a specified band) to suit application requirements: for convenience, the set point can be simultaneously seen on the control panel. Optional dual pressure switch for easy pressure selection, depending on output requirements.

13. Multi-purpose air receiver (or oil separator tank)
- provides a buffer for pulsation or variation in outlet pressure,
- serves as a separation tank for the compressed air and oil mixture, and
- creates a pressure differential that enables oil to be circulated through the screw elements for lubrication.

14. Robust, long-life batteries provide a reliable stand-alone power source.
Battery cut-off switch enables power lock-out during storage and during maintenance, to ensure safety.
Options

**Custom colours** for customer’s own colour branding of canopy and rims.

**Road lights system** ensures optimal safety during towing and is fully compliant with country homologation requirements.

**Easy-to-access external fuel connections** enable continuous operation (both inlet and return valves are provided).

**Forklift slots** (standard with skid or support) for easy lifting and positioning.

**Wheel chocks** for extra security to ensure compressor does not move.

**Bow shackle** (tie-down loops) allow extra strapping for secure transportation on trucks.

**High-performance after-cooler and water separator** make the compressor ideal for applications requiring cooler and dryer compressed air.

**Particulate filter (PD)** for applications that require compressed air with low particle content.

**Oil-mist filter (QD)** for applications that require compressed air with low oil-mist content.

**FuelXpert™** ensures optimum fuel efficiency at partial load, guaranteeing best-in-class fuel efficiency.

**Additional fuel filter** provides extra protection for the engine in areas of lower fuel quality.

**Dual pressure feature** makes it possible to change pressure quickly and easily when required by the application.

**Air outlet with NPT thread** providing imperial measure thread-on connections to valves, pipelines and hoses that lead to the application.

**Pre-heater** using on-board fuel allows engine to be started at low temperatures (down to -10°C or 14°F).

**Extra cold-weather equipment** for starting at very low temperatures (down to -25°C or -13°F).

**Spark arrester** in exhaust system prevents release of ignitable particles in refinery environments.

**Inlet shutdown valve** shuts down engine to prevent danger of engine explosion in the event of intake of combustible gases.

**On-board electric refuelling pump** enables unit to be refuelled rapidly, keeping downtime to a minimum.

**Sensors at compressed air-outlet manifold** monitor the pressure and temperature of the compressed air required by the application. The signal output (reading) is then sent to the control systems.

**Compressor can be easily operated** from a distance (start, stop, load and unload), using the wireless remote control unit.

**Pressure reducer** (7 bar / 100 psi) allows for hose connection for air cleaning the cooler and for using low pressure pneumatic tools.

**COSMOS™**, our innovative Comprehensive Service and Maintenance System, not only guarantees that you know where your compressor is and when it is due for service, but it also enables remote diagnostics and sends e-mail and text-message alerts triggered by pre-specified events.

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**Oiltronix™ V2**

**Oiltronix™ V2 has highly improved & fully reliable valve assembly, combo sensor, controller and wiring.**

**Valve assembly**

A 3-way valve that controls the oil flow to the cooler and to the elements. This valve is actuated by an electrical motor. The start position (closed) and end position (bypass position) are detected by proximity switches.

**Combo sensor**

This is a multi-functional sensor that measures the ambient temperature, the relative humidity and the barometric pressure. With these parameters the dewpoint is determined.

**Cubicle assembly**

The cubicle assembly consists of a controller, a driver card and a circuit breaker. The controller software calculates and controls the dewpoint in the vessel and sends signals to the driver card which in its turn controls the electrical motor that rotates the valve. In this way the oil temperature is regulated with more or less compressor oil, bypassing the oil cooler as determined.

When the temperature of the oil/air mixture in the vessel is below the dewpoint, condensate is formed. This condensate can enter the oil system and cause bearing and element failures and accelerate oil degradation.

Oiltronix™ V2 is a system that regulates the oil temperature to a temperature just above the dewpoint in the vessel thus preventing condensation of water in the compressed air.

Condensation becomes critical at higher pressures; when air is compressed to 17 bar / 250 psi or more and dependant on ambient conditions, condensation can occur. That is why the Oiltronix™ V2 feature is only an option on two-stage compressors.

In case there is no risk of condensation, the system regulates the oil temperature to the lowest possible temperature in order to increase the lifetime of the oil.

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Never use compressed air as breathing air without prior purification in accordance with local legislation and standards.

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