



SAFETY REQUIRES STRONG PARTNERS!

COMPRESSED AIR SYSTEMS IN THE
DEFENSE INDUSTRY AND ARMED FORCES



GERMAN ENGINEERING
DESIGN & MANUFACTURE



The right **strategy** for the ideal **compressed air solution**

A leading global manufacturer of a wide range of world-class compressed air solutions, CompAir is dedicated to providing a complete solution for our industry partners.

From the latest advances in oil-free and oil-lubricated technologies to a complete range of downstream equipment, air treatment and accessories.

Oil-free or **oil-lubricated** compressor technology?

The **application** decides

Don't let yourself be (only) dazzled by efficiency

The key question must not be: How efficient is your compressed air system?

What really matters is: How much compressed air do you actually need – and in what quality?

Efficient compressors are generally more environmentally friendly. However, they only protect your budget and the environment if you choose the right model for your compressed air generation.

It is essential to clarify **when**, **how much** air is needed and in **what quality**. Once this is defined, you are free to choose from state-of-the-art technologies – either oil-lubricated or oil-free.



Manufacturing and maintenance of military equipment



Locations: Defense contractors, vehicle factories, maintenance hangars, hangars, or ports of the armed forces and logistics bases

CompAir solutions: Stationary oil-free or efficient oil-lubricated screw compressors, optionally with heat recovery and monitoring (EcoPlant)



Mobile supply for vehicles and task forces

Locations: Field workshops, mobile maintenance units, task force and mobile logistics bases

CompAir solutions: Mobile diesel compressors



Marine and shipyard applications

Locations: Shipyards, naval bases, ships

CompAir solutions: Stationary screw compressors with corrosion protection, also available as soundproofed modules or container solutions



Aviation and electrical engineering, as well as ground equipment

Locations: Defense contractors, hangars, aircraft maintenance, logistics bases

CompAir solutions: Oil-free screw compressors and compressed air treatment for the purest compressed air

Oil-free ULTIMA compressor technology

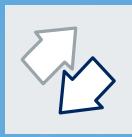
The new definition of **oil-free** efficiency

The oil-free **ULTIMA** compressor is equipped with two permanent magnet motors that replace the traditional gearbox. These variable-speed motors reach speeds of up to 22,000 rpm and offer higher efficiencies than IE4 motors.

The compressor stages can be operated at different speeds depending on demand.

ULTIMA operates 100% oil-free; component cooling is provided by a closed water circuit.

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PureAir

ISO CLASS: ZERO PLUS SILICONE FREE

Oil-free screw compressor **ULTIMA**



U55 to U160 – **ULTIMA**

4 to 10 bar

4.4 to 24 m³/min

55 to 160 kW

Two-stage, oil-free screw compressors; optional variable speed



Further oil-free screw compressors and compressed air technologies complete the CompAir product range



D15H to D37H

⌚ 5 to 10 bar

💨 0.32 to 5.86 m³/min

⚙️ 15 to 37 kW

Single-stage, 100% oil-free, water-injected screw compressors; optional variable speed



D37 to D75

⌚ 7 to 10 bar

💨 6 to 12.7 m³/min

⚙️ 37 to 75 kW

Two-stage, oil-free screw compressors; optional variable speed



DX90 to DX160

⌚ 4 to 10.7 bar

💨 6.7 to 28.3 m³/min

⚙️ 90 to 160 kW

Two-stage, oil-free screw compressors; optional variable speed



DX200 to DX355

⌚ 4 to 10 bar

💨 11.4 to 53.4 m³/min

⚙️ 200 to 355 kW

Two-stage, oil-free screw compressors; optional variable speed

Maximum air purity and sustainability in sensitive industries:

In many industries – for example, in the production of electronic components or in the aerospace industry – there are clear and strict regulations that also impact the quality of compressed air generation, including:

- Good Manufacturing Practice (GMP) protocols
- European Pharmacopoeia
- Various guidelines of the U.S. Food and Drug Administration (FDA)
- International Council for Harmonisation
- Technical Requirements for Pharmaceuticals for Human Use (ICH3)
- European Food Hygiene Regulation 852/2004

In these sectors, our comprehensive portfolio of oil-free compressed air solutions supports you in achieving maximum air purity and greater sustainability.





Oil-lubricated compressor technology

Sustainability – even when conditions are **far from clean?**

As in many areas of life, there are two sides to the story. Specifically when things are not clean in industrial production, shipyards or ships, workshops, logistics centers or fuel depots.

Here, **oil-lubricated compressors** not only operate reliably, but also increase profitability.

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Oil-lubricated compressor technology

Even in these industries, **sustainability** has its chance – with the right **compressed air solution**

A prime example: **FourCore** technology. With this solution, environmentally conscious companies can use an oil-lubricated compressor that has been optimised for sustainability over its entire life cycle.



CompAir's range of **oil-lubricated screw compressors**:



L02 to L06

⌚ 10 bar

💨 0.18 to 0.89 m³/min

⚙ 2.2 to 7.5 kW

Single-stage, oil-lubricated screw compressors; optional variable speed¹⁾

L07 to L22

⌚ 7 to 13 bar

💨 0.45 to 3.54 m³/min

⚙ 7.5 to 22 kW

Single-stage, oil-lubricated screw compressors; optional variable speed¹⁾

L23 to L29

⌚ 5 to 13 bar

💨 1.03 to 5.52 m³/min

⚙ 22 to 30 kW

Single-stage, oil-lubricated screw compressors; optional variable speed

L30 to L37

⌚ 5 to 13 bar

💨 1.33 to 7.15 m³/min

⚙ 30 to 37 kW

Single-stage, oil-lubricated screw compressors; optional variable speed

¹⁾ also available as **AirStation** including receiver and dryer



L45 to L55

⌚ 5 to 13 bar

💨 1.6 to 11.1 m³/min

⚙ 45 to 55 kW

Single- or two-stage, oil-lubricated screw compressors; optional variable speed

L75

⌚ 5 to 13 bar

💨 2.1 to 14.8 m³/min

⚙ 75 kW

Single-stage, oil-lubricated screw compressors; optional variable speed

L90 to L132

⌚ 5 to 13 bar

💨 5.1 to 24.79 m³/min

⚙ 90 to 132 kW

Single- or two-stage, oil-lubricated screw compressors; optional variable speed

L160 to L250

⌚ 5 to 13 bar

💨 5.83 to 47.1 m³/min

⚙ 160 to 250 kW

Single- or two-stage, oil-lubricated screw compressors; optional variable speed

A blue-tinted photograph of a ship's bridge. A sailor is seen from the side, looking through binoculars. In the foreground, there are several control panels with numerous buttons and screens. The background shows the ship's interior and windows looking out at the sea.

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consultation

Compressed air treatment

Only lets through **what is allowed to pass**

Compressed air treatment from CompAir stands for clean, high-quality compressed air in accordance with ISO 8573-1:2010 – independently tested and certified in line with ISO 12500-1, and produced in an energy-efficient, low-emission manner.

Compressed air treatment

Filtration, drying and condensate management

Modern production systems and processes require compressed air of ever-increasing purity. CompAir compressed air treatment systems use the latest technologies to provide energy-efficient solutions with minimal lifecycle costs.

- The integration of a heat recovery system and advanced master controls helps maximise efficiency.
- The right filtration and drying systems ensure continuous protection of your equipment.
- CompAir nitrogen generators offer numerous advantages over external supply, such as higher flexibility, lower costs and reduced downtime.



With in-house manufacturing of the entire treatment portfolio, CompAir designs and produces carefully matched products and components. Everything fits together – ensuring maximum efficiency with minimum energy consumption.



High-quality consumables, such as long-life filter elements, ensure low resource wear and consistently low differential pressure.

Click here:



For more information about
compressed air treatment

The comprehensive **compressed air treatment** range from CompAir offers components for almost every application and requirement profile:



Filtration

- Cyclone separator
- Threaded filter
- Flanged filter

Removes free water, dirt particles and aerosols



Refrigerant dryers

PDP:
+ 3 °C

ISO class:
4

Technology:
refrigeration circuit

Compressors:
oil-free / CC



Sub-freezing dryers

PDP:
- 20 °C

ISO class:
3

Technology:
refrigeration circuit

Compressors:
oil-free / CC



Heated blower dryers

PDP:
- 40 °C / - 70 °C

ISO class:
2 / 1

Technology:
pressure swing adsorption

Compressors:
oil-free / CC

Superior everywhere and at all times – **mobile compressors**

Designed for high mobility, reliability and efficiency

CompAir portable compressors prove their reliability in the toughest site conditions and offer significant cost savings through energy efficiency and low maintenance. Our developers know what matters: reliable power supply for every application, in all weather conditions, for every tool.

6 ranges, 41 types – numerous application options & many benefits:



Pressure ranges
5 to 24 bar



Flow rates
1 to 27 m³/min



Engine outputs
15.5 to 224 kW



**Low fuel
consumption**



**Minimal
life cycle costs**

AirPlus

AirPlus – many options
for many Applications



Mobile 5 warranty **up to 5 years
protection** for your investment



Original service kits for **cost-
effective maintenance**



TurboScrew compressor with
unique bi-turbo technology



Diesel engines according to
European exhaust regulations

GERMAN ENGINEERING
DESIGN & MANUFACTURE

**In-house design and man-
ufacture of compressor airend**



FPM – Flexible Power Management



LOW EMISSION ZONE

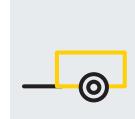
No matter which compressor you need, CompAir has an economical solution for you. All diesel engines future proofed in accordance with Regulation (EU) 2016/1628 Stage V

Click here:



Video **Elec50**

Click here:



Complete portfolio CompAir **construction compressors**

Click here:



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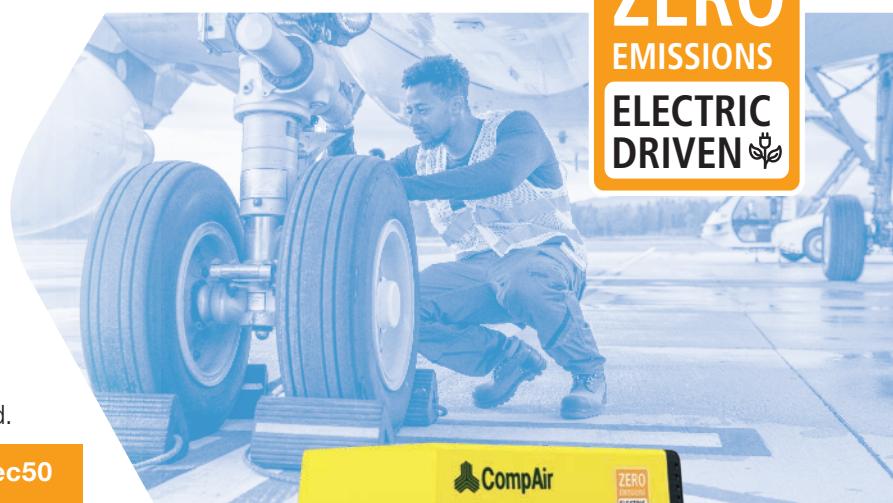


CompAir portable compressors have proven their reliability and efficiency under the toughest conditions. The **Elec50** compressors combine these strengths with the advantages of an emission-free, extremely quiet and economical electric drive:

The **Elec50** is ideal for use in environmentally or noise-sensitive areas, such as tunnels, narrow excavations or inside buildings. Whenever a suitable power supply is available, the compressor can be connected to the local grid.

Compared to a comparable diesel unit, the **Elec50** offers **potential savings of up to 46% in energy costs and up to 36% in maintenance and service costs.**

ZERO EMISSIONS ELECTRIC DRIVEN



A black and white photograph showing two men in a factory or industrial environment. One man is in the foreground, wearing a dark t-shirt and safety glasses, looking down at a computer screen. Another man is in the background, also wearing safety glasses and a dark t-shirt, looking towards the screen. The background is filled with industrial equipment and shelving.

Service agreements, proactive maintenance, genuine spare parts

Greater safety for industry and the environment

An intelligent maintenance strategy avoids unplanned production interruptions, unnecessary wear and increased use of materials in servicing. In addition, optimal system efficiency lowers energy consumption and reduces both environmental impact and operating costs.

A compressed air system is more than the sum of its parts:

Assure service agreements

A sound monitoring strategy with iConn and proactive maintenance is essential to avoid unplanned downtime.

Click here:



All about
Assure
service
agreements

Our Assure service agreements ensure a consistently efficient compressed air supply by keeping filters, wear parts and lubricants in perfect condition and tuning the controls for optimal performance.



Ensure efficiency. Reduce risk. Act with foresight.

IIoT connectivity & proactive maintenance

With **ECOPLANT**, you can use your compressor data to:

- improve performance
- reduce the workload on your service team
- gain transparency on energy consumption
- increase process efficiency

Click here:



Further
information
about
ECOPLANT

ECOPLANT monitor

as **standard** with Assure service agreements

Upgrade option:

ECOPLANT optimisation

Compressed air management with these **upgrades**:

- Live energy dashboard
- Dynamic control algorithm
- Leak detection & system auditing
- Real-time savings verification



Powered by

 **ECOPLANT**

Don't save in the wrong place:

Genuine spare parts

Saving money on non-original spare parts is saving in the wrong place.

"Cheap" often turns out to be expensive.

Purchasing genuine spare parts at a fair price pays off, because:

Click here:



Go here for
original
spare parts

- the cost risk of frequent repairs or production disruptions is reduced

- system efficiency is maintained over the long term

Those who use genuine spare parts secure an optimal price-performance ratio.





Protect your investment

The biggest levers for you are operating costs and power consumption.

Assure service agreements ensure a long service life with optimal operation through regular inspection of genuine parts such as filters and fluids, and by keeping control parameters optimally adjusted.



Click here:



All about
Assure
service
agreements



Click here:



Further
information
about
ECOPLANT



Click here:



More
information
about **iConn**



Click here:



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Information about
www.compair.com

**Now it's
your turn!**

Make a forward-thinking
decision about your
compressed air system.

CompAir
iConn inside
Assure
PureAir
ISO CLASS: ZERO PLENTY

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Innovation & Engineering Excellence

A leading global manufacturer of a wide range of world-class compressed air solutions, CompAir is dedicated to providing a complete solution for our industry partners. From the latest advances in oil-free and oil-lubricated technologies to a complete range of downstream equipment, air treatment and accessories.

An extensive network of dedicated CompAir sales companies and premium partners across all continents provide global expertise with a truly local service, ensuring our advanced technology is backed up with the right support.

CompAir has consistently been at the forefront of compressed air systems development, culminating in some of the most energy efficient and low environmental impact compressors on the market today, helping customers achieve or surpass their sustainability targets.

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CompAir product range

ADVANCED COMPRESSOR TECHNOLOGY

Lubricated

- Rotary Screw
 - Fixed and Regulated Speed
- Portable
- Vane

Oil-free

- Water Injected Screw
 - Fixed and Regulated Speed
- Two Stage Screw
 - Fixed and Regulated Speed
- Ultima®

COMPLETE AIR TREATMENT RANGE

- Filter
- Refrigerant and Desiccant Dryer
- Condensate Management
- Heat of Compression Dryer
- Nitrogen Generator

MODERN CONTROL SYSTEMS

- CompAir DELCOS Controllers & Monitoring
- SmartAir Master Plus Sequencer
- iConn – Smart Compressor Service
- Ecoplant

VALUE ADDED SERVICES

- Professional Air Audit
- Performance Reporting
- Leak Detection

LEADING CUSTOMER SUPPORT

- Heat Recovery
- Assure Service Agreements
- Custom Engineered Solutions
- Local Service Centres
- Genuine CompAir Parts and Lubricants

CompAir is committed to continuous improvement of its products, and we therefore reserve the right to change specifications and prices without prior notice. All products are offered and sold in accordance with our terms and conditions of sale and delivery.