aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Treatment and distribution of industrial fluids

Parker

ENGINEERING YOUR SUCCESS.

Compressed air: the 4th utility

Compressed air is a safe and reliable power source that is widely used throughout industry. Known as the 4th utility, approximately 90% of all companies use compressed air in some aspect of their operations.

Unlike gas, water and electricity which is supplied to site by a utility company to strict tolerances and quality specifications, compressed air is generated on-site by the end user.

The quality of the compressed air and the cost of producing this powerful utility is therefore the responsibility of the user.

The quality and reliability of compressed air distribution systems have always posed problems. Almost all concerns arise from contaminants carried in the air.

Typically there are at least 10 different contaminants in a traditional compressed air network.

These may be present in the atmospheric air drawn into the compressor or can be created within the compressor itself. They are also often found in air receivers or out-dated pipe systems which may be subject to corrosion.

Contaminants, however, can be fully removed or reduced to acceptable levels when the compressed air treatment and the air distribution system are managed safely and efficiently

Utility providers must ensure that the gas and water supplied to industrial users meet stringent quality standards.

Compressed air is generated by users themselves who alone are responsible for its purity.

Water supplied to industrial concerns is continually monitored by Local Authorities in order to check there are no contaminants present which could endanger the production cycle.

One solution for each contaminant

There are several different techniques for efficiently removing the contaminants found in compressed air and gases.

Parker develops the best solutions and equipment for optimum results, with associated energy savings and respect for the environment.

Purification techniques	Contaminants								
	Water vapour	Condensates	Water aerosols	Dust and atmospheric particles	Micro-organisms	Oil vapour	Liquid oil and oil aerosols	CO-CO^2-NOX-SO^2	Rust and pipescale
Transair aluminium pipe systems									●
Condensate water separators		●							
Coalescing filters			●	●	●		●		●
Adsorption filters						●			
Refrigeration dryers	●		●						
Adsorption dryers	●								
Membrane dryers	●								
Activated carbon adsorption column						●			
Dust filters				●	●				●
Sterile filters					●				
Nitrogen generators					●				
Breathable air units			●	●		●	●	●	

New Parker components for compressed air systems

Parker Global FRLs are available in three sizes and with BSPP or NPT connectors to suit all requirements. Our filters, regulators, filter/regulators and lubricators are available in a wide range of standard options. Personalised modules can be very easily assembled in different configurations using patented connection components.

The LF 3000 instant connection system for compressed air offers complete reliability at all times. Proven performance characteristics include optimum flow rate, vacuum capability, instant connection and disconnection, compactness, ease of use and lightweight materials.
The wide range includes 8 diameters from 3 mm to 16 mm and a choice of three BSP thread types - parallel, taper and metric.

Parker compressed air tube (CAH) is specifically designed for compressed air applications. The reinforced structure of the tube, internal duct and external covering can withstand aggressive working environments and guarantee a long trouble-free service life.

Products

Coalescing and activated carbon filters for air and compressed gas

Flow rate from 10 to 30,000 m^3/h. Operating pressure up to 350 bar.
Designed for air and other compressed gases (natural gas, hydrogen, oxygen, nitrogen, argon, helium, etc.). Deliverables in accordance with the main international bodies (PED, ASME VIII div. 1 and 2, Ghost, China Stamp, LRofS, DNV, GL, ABS, etc.) including directives ISO12500 and ISO8573.1.

Refrigeration dryers

Flow up to 26,400 m^3/h.
Operating pressure up to 40 bar.
Pressure dew point +3 °C.
Energy-saving system SMART SAVE.

Transair pipe systems for air and inert gases

Transair: a unique, truly flexible and upgradeable aluminium pipe system.
Creating primary and secondary networks of the main industrial gases has never been quicker.
Compatible fluids: air, nitrogen, vacuum and argon, etc.
Diameters available: 17, 25, 40, 63, 76, 100 and 168 mm.
Tube colours: blue, grey and green. Fittings: BSP and NPT.

Adsorption dryers for compressed gases and air

Flow rate from 10 to 15,000 m^3/h. Operating pressure up to 350 bar.
Pressure dew point to -70°C. Designed for air and other compressed gases.
Patented vacuum regeneration system.
Compliant with the requirements of main international standards and bodies (PED, ASME VIII div. 1 and 2, Ghost, China Stamp, LRofS, DNV, GL, ABS, etc.).

Membrane dryers

Designed for point of use applications where compact size is a determining factor.
Flow rate of air up to 1,000 m^3/h.
Operating pressure up to 10 bar.
Pressure dew point to -40°C.
Operates without electrical supply.

Breathing air systems

Flow rate up to 850 m^3/h.
Operating pressure up to 16 bar.
Compliant with ISO 12021 and European Pharmacopoeia standards.

Heat exchangers with air and liquid cooling systems

Flow rate up to 12,000 m^3/h.
Designed for applications from 0 to 40 bar.
Available in stainless steel and other materials resistant to chemical agents.
Special ranges for biogas and natural gas.
Bespoke installations according to requirements.

Products

Chillers for industrial cooling

Refrigerating power up to 800 kW.
Special external and internal surface treatments for aggressive gases and environments.
Dedicated equipment for laser applications and special gases (biogas).
Bespoke installations according to requirements.

Condensate drains

For compressed air lines up to 66,000 m^3/h.
Operating pressure up to 50 bar. Designed for corrosive gases and air.
Float, time delay and electronic level control versions.

Transair pipe system for process water

Transair: a flexible and upgradeable stainless steel pipe system for creating primary and secondary industrial water networks.
Compatible fluids: industrial water, oils, etc.
Main application: cooling (moulds, tools, welding, etc.)
Diameters available: 22, 28, 42, 60, 76 and 100 mm.
Fittings: BSP and NPT.

Water-oil condensate separators

Available in 7 models for the treatment of condensates generated by compressed air for flow rates up to 3,600 m^3/h.

Nitrogen generators for industrial and laboratory applications.

To generate ultra-pure nitrogen from compressed air.
Flow rate of nitrogen produced up to 150 m^3/h.
Modular assembly for larger nitrogen flow rates.
Degree of purity: from 95% to 99.999%.
Maximum pressure of incoming air: 15.0 bar.
Maximum pressure of outgoing nitrogen: 13.5 bar.
Compliant with EIGA standard relating to the food and drink industry.

Nitrogen membrane generators

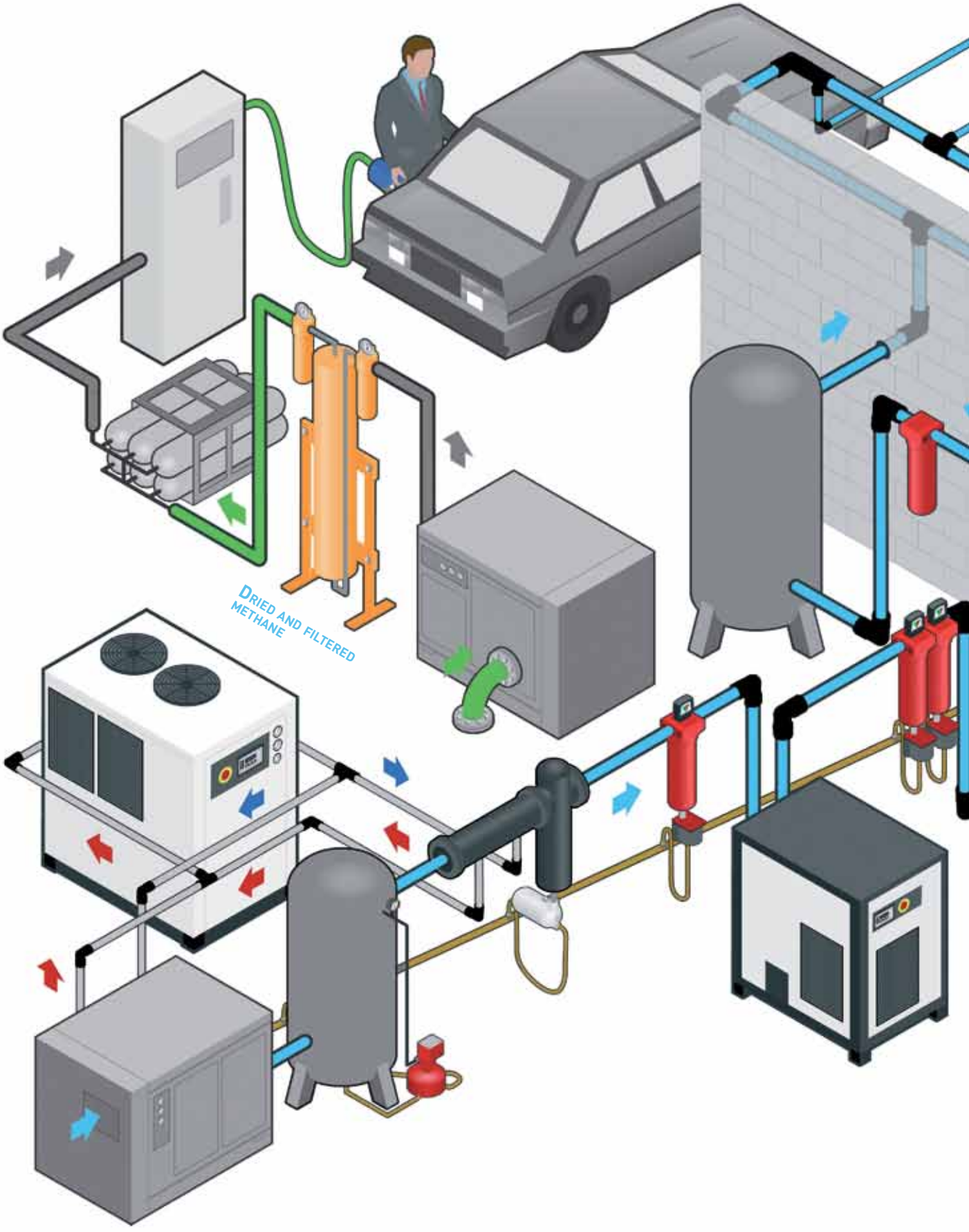
To generate ultra-pure nitrogen from compressed air.
Flow rate of nitrogen produced up to 300 m^3/h.
Modular assembly for larger nitrogen flow rates.
Degree of purity: from 95% to 99.5%.
Maximum pressure of outgoing nitrogen: 13 bar.
Reduced compressed air consumption per m^3 of nitrogen produced.
Designed for point-of-use applications.

Added value services

Contaminant analysis.
Particle counting
Humidity testing.
Breathing air analysis.
Leak testing.
Service packages.
Factory trained technicians.

From the compressor room to the hear

The Parker solution couples excellent purity of conveyed air and gases with high flow and lower operating costs



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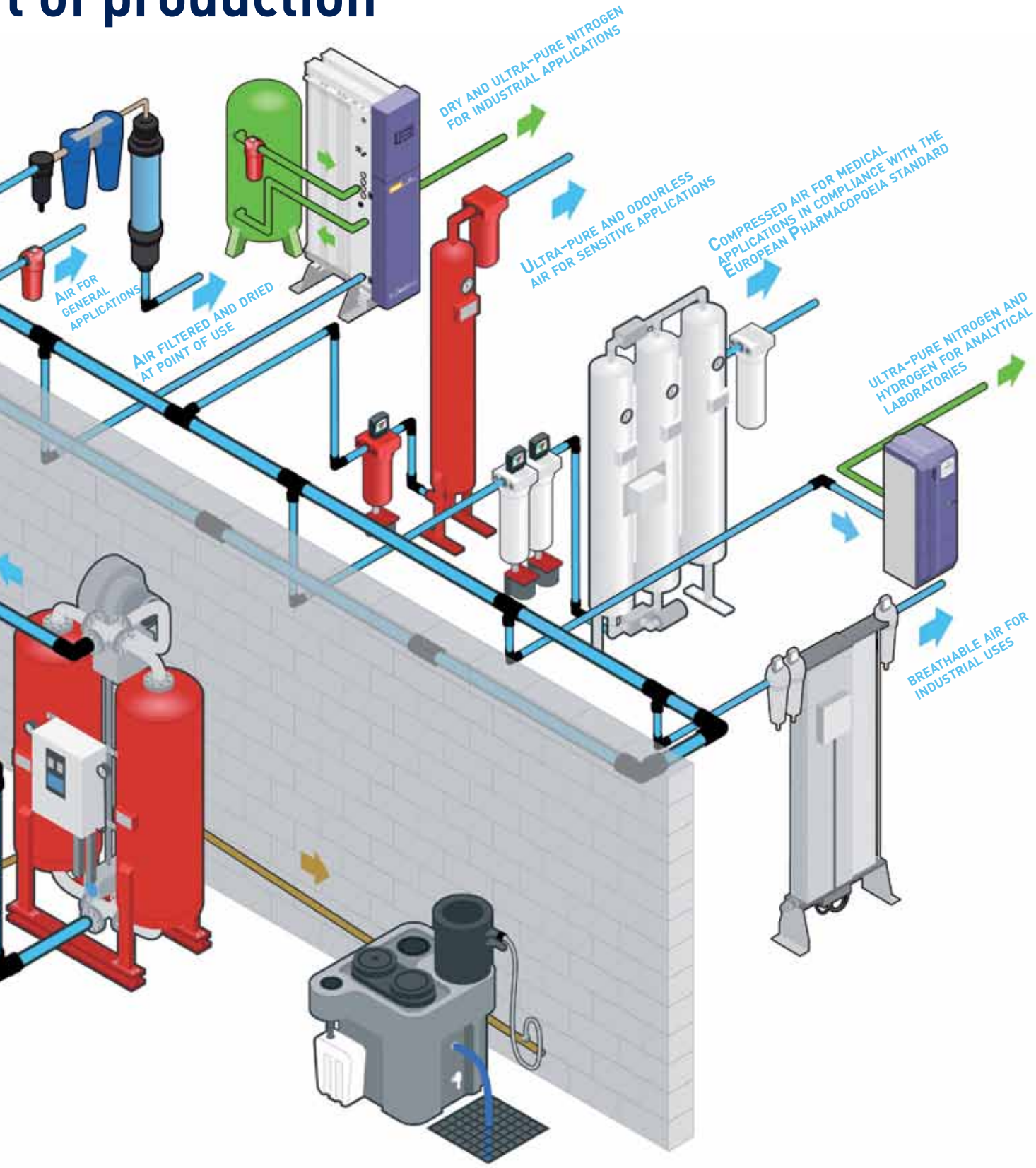

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