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All orders are subject to our standard terms and conditions – available on request. In line with our continuous improvement programme, we reserve the right to amend or revise the specification of our products without prior notice. Published July 2010. E. & O.E.

tyre inflation solutions



As a world-leader in the design, manufacture and marketing of tyre inflation equipment, PCL's products are a familiar sight in tyreshops, OEM applications, and automotive/transportation markets across the globe.

Over 70 years of design excellence has made PCL first choice for distributors and users looking for the simplest, top quality inflation solutions at a competitive price.

Tailored inflation

PCL's expertise is to design and deliver a sophisticated range of products designed for every inflation environment. The company's unrivalled commitment to quality, reliability and cost-effective tyre inflation products makes PCL the brand to buy when it comes to inflation solutions. With an ever-increasing focus on fuel economy, road safety and green technology, many of PCL's modern inflation solutions are based around the benefits of Nitrogen inflation technology as well as standard air inflation products.

PCL's strategy for inflation products are:

- To make tyre inflation as simple and as effective as possible.
- To reduce the cost, time and complexity of inflating tyres with air or Nitrogen.
- To offer the latest and lowest life time cost tyre inflation technology to enable the most effective tyre inflation units for air or Nitrogen.
- To offer a complete range, including: mobile Nitrogen generation, fixed wall mounted units for air or Nitrogen, handheld devices and accessories.
- A provision of product to suit every possible application and budget, including bespoke units.
- To enable customers to identify a product to meet their exacting needs.
- Showing the benefits of the units as well as the features, including a clear explanation of how each product can benefit the tyre service provider.

Why choose PCL?

The products

- With a worldwide reputation for supplying the fastest, most accurate and reliable inflation solutions you can count on PCL to deliver air and Nitrogen inflation cost effectively in any environment.
- With a whole host of satisfied customers including the likes of Jaguar, Harley Davidson and Honda you can see that PCL's inflation solutions are globally renowned as the brand to buy.
- With over 70 years of experience designing and manufacturing tyre inflation equipment, PCL has the knowledge, technical support and back up that gives you the confidence you have the best product and service available.

The service

PCL is not just a supplier of products, we act as a partner too, by:

- Supplying you with the tools to sell our tyre inflation units, and highlighting the benefits of using them, including bespoke product literature, presentations, PR, advertising, training and product user manuals.
- Providing full technical hotline support and site visits where necessary.
- Helping you to identify the best revenue generators for tyre service providers.
- Enabling you to offer a unique service and increased turnaround with the ability to inflate 4 tyres simultaneously.
- Ensuring availability of a full spares stock for all PCL units.
- Incorporating optional features into every unit, including bespoke models.
- Providing a full range of other ancillary products designed to cover the needs of every tyre service environment.

Why is Nitrogen better than air for inflating tyres?

Pressure loss

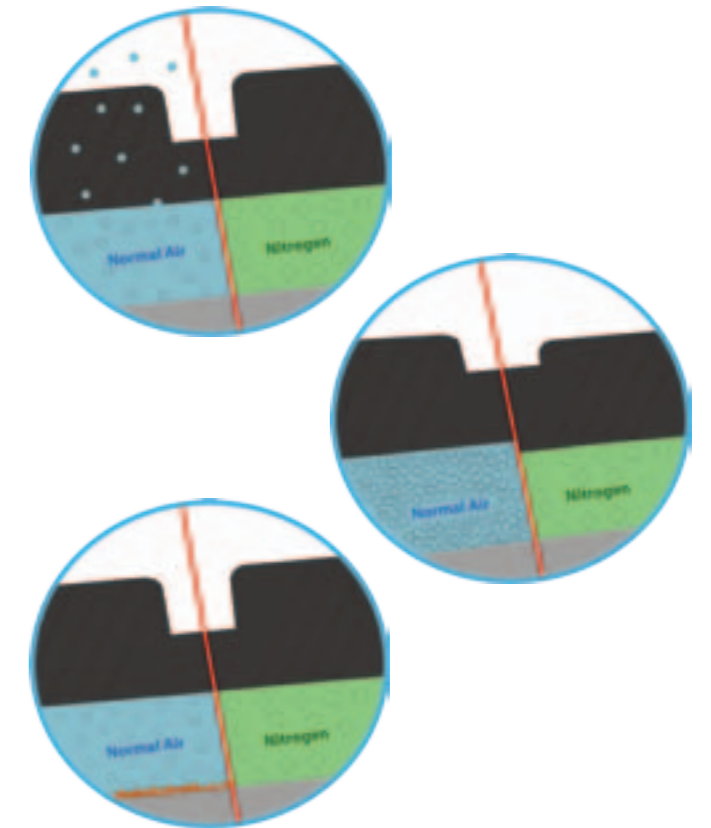
Air is made up of 78% Nitrogen, 21% Oxygen and 1% of other gases. Oxygen found in air is made up of very small molecules which over time permeate or escape the rubber tyre wall. Pure Nitrogen molecules are larger than those found in oxygen and cannot permeate or escape the rubber as easily. This keeps the tyre pressure consistent and stable for up to 3 or 4 times longer than normal air.

Temperature increase

Oxygen is a very unstable gas which contains a high level of moisture. When the temperature of a tyre increases, the unstable nature of oxygen within the tyre wall causes the water vapour to react and expand the tyre. Nitrogen is inert and contains no water vapour which prevents this reaction and keeps your tyre pressure consistent and stable in running. This also ensures the correct amount of rubber is in contact with the road at all times.

Oxidisation build up

Oxygen found in normal air contains a high level of water vapour. When a tyre is inflated with air, it causes "oxidisation" or rusting which begins to deteriorate the rubber as it begins to lose its elasticity and strength. Working from the inside out, oxygen, and its destructive properties increases the inner rusting of alloy wheels, affecting the tyre structure and ultimately the tyre's performance.



Independent testing proves that vehicle users benefit from Nitrogen by:

Saving money on fuel

Correct tyre pressures reduces strain on the engine which results in:

- A saving of between 4% & 10% on annual fuel bills.
- A saving of around £100 annually for the average road user.

Saving money on replacement tyres

Correct tyre pressures reduces unwanted friction with the road surface which results in:

- A 20% to 30% reduction in tyre wear.
- A replacement tyre saving of around £30-£50 annually for the average road user.

Increasing Safety

Correct tyre pressures prevents blowouts which results in:

- A 50% reduction in tyre failures.
- An increase in tread life by 25-30%.
- A significant reduction in tyre related road deaths and injuries.

Improving Performance

Correct tyre pressures prevents over contact with the road surface which results in:

- Improved steering, handling and braking.

Reducing CO₂ emissions

By inflating with Nitrogen the vehicle user can be safe in the knowledge that they are also:

- Reducing CO₂ emissions from less fuel consumption.
- Reducing waste by extending tyre life.
- Reducing car waste from tyre related traffic incidents and replacement parts.

Tyre service providers benefit from PCL's Nitrogen solutions by:

Charging for N₂ inflation

- Enables tyre service providers to generate extra revenue.
- Rapid payback – PCL's N₂ products pay for themselves over time.

Offering a unique service

- Beat the competition by offering Nitrogen inflation.
- PCL's inflators enable tyre service providers to convert from air to Nitrogen which many alternative systems on the market fail to do.

Increasing productivity

- By inflating all 4 tyres at once, PCL's equipment can increase your service speed and customer turnaround.
- With automatic inflation, PCL's equipment allows operators to get on with other tasks while tyres are inflating.

Increasing air tool life

- Pure Nitrogen contains zero moisture which prevents air powered tools rusting.

why
N₂itrogen?

N₂itrogen

The PCL range of Nitrogen products combines the latest in high performance digital inflation technology with the cost effective delivery of Nitrogen.

Specifically designed for high quality, reliable and cost effective equipment for fast and accurate tyre inflation, PCL's Nitrogen products offers the latest solutions.

Nitrogen generator & built-in digital inflator

Features

- High grade filtration and air line pre-filters.
- Digital inflation for up to 4 tyres at once.
- Electronic preset digital tyre inflation built-in.
- Nitrogen purge function.
- Mobile and easy to position.
- Nitrogen purity test point.
- Can be supplied to meet EC Standards.
- Not suitable for inflating commercial vehicle tyres.

Benefits

- Low life time costs and minimal downtime due to extended maintenance intervals.
- Increased efficiency and hands free operation – saving time and money.
- Guaranteed accuracy up to ± 0.5% of full scale reading.
- Both N₂ fill and Air to N₂ conversion – allows existing air filled tyres to be converted to N₂.
- Can be moved around workshop for increased flexibility and efficiency.
- Allows user to check purity of N₂ quickly and easily.
- Can be installed in under 10 minutes.
- Can be supplied to meet EC standards.

Nitrogen generator

Features

- Mobile and easy to position.
- Converts N₂ from standard airline supply.
- Nitrogen purity test point.
- Connect to existing inflation equipment.
- High grade filtration and airline pre-filters.
- Not suitable for inflating commercial vehicle tyres.

Benefits

- Can be moved around workshop for increased flexibility and efficiency.
- No need to keep or store expensive N₂ bottles or tanks.
- Allows user to check purity of N₂ quickly and easily.
- No need to purchase new airlines or tyre inflation equipment.
- Low life time costs and minimal downtime due to extended maintenance intervals.
- Can be installed in under 10 minutes.
- Can be supplied to meet EC standards.

Nitrogen cart

Features

- Mobile cart with optional bottle footplate and carry straps.
- Nitrogen purge function.
- Electronic preset digital tyre inflation built-in.
- Digital inflation for up to 6 tyres at once.
- Automatic inflation process
- Not suitable for inflating commercial vehicle tyres.

Benefits

- Allows easy movement and flexibility around workshop.
- Both N₂ fill and Air to N₂ conversion – allows existing air filled tyres to be converted to N₂.
- Guaranteed accuracy up to ± 0.5% of full scale reading.
- Increased efficiency and hands free operation – saving time and money.
- Releases operator to undertake other tasks.
- Can be installed in under 10 minutes.
- Can be supplied to meet EC standards.

Nitrogen analyser

Features

- Allows operator to view Nitrogen purity % in tyres or generators.
- Compact and ergonomic design.
- Battery charge indicator.
- Auto power off function.
- Replaceable battery and sensor.

Benefits

- Simple one button operation shows the actual percentage of Nitrogen in your tyres.
- Alternative products simply show oxygen levels in the tyre and require a conversion calculation.
- Highly accurate to ± 0.5% of full scale reading.
- Low life time costs – robust design with proven electronics.
- Very low and simple maintenance.



Other fixed inflation solutions



Wall mounted unit Accura D11

- Offers all the features designed to meet the needs of a busy tyre fitting shop.
- Complies with EC directive 86/217/EEC & BS EN 12645:1999.



Highflow wall mounted unit Accura D12 & Accura D13

- Offers all the features of the D11 with a faster inflation speed.
- D13 variant for high flow inflation of up to 4 tyres at once.



'Compact' wall mounted unit Accura Compact

- Compact, user friendly inflation device.
- Robust yet lightweight – ideal for space saving environments.



'Qube' wall mounted unit Accura Qube

- The smallest and simplest digital inflator in PCL's range.
- All the benefits of a digital inflator without the added cost of the larger more sophisticated units.

Other handheld inflation solutions



Accura 1 digital inflator

- Robust electronic design.
- Calibrated from 0-174psi or 0-12bar.



AirForce analogue inflator

- Clear dial display.
- Calibrated from 0-170psi and 0-12bar.



MK3 inflator

- Compact and extremely robust design.
- Calibrated from 0-138psi and 0-9.6bar.

Inflation accessories



Tyre valve connectors



Replacement hoses



Tyre valve core removing tool

All PCL products are compatible with both Air and Nitrogen

Spares and repairs

PCL provide a full compliment of spare parts for all our Tyreshop Tyre Inflation Equipment.

In the unlikely event you should encounter a problem with your unit, our technical department will be able to provide you with the necessary advice to resolve the issues quickly and efficiently.

Should for any reason spare parts should be required, PCL carry a full range of spares to cover all eventualities. Please contact our customer services department with your request.

All Tyreshop products include a full safety and operating manual to enable the correct operation and maintenance of the unit with full diagrams and troubleshooting solutions.

Also included is an EC declaration of conformity and all products are covered by product liability insurance.

Training & value added service

- Full product installation and maintenance training as required.
- Full product sales training and support for agent sales staff.
- Nitrogen concept training available for sales staff, including presentations.
- Technical helpline available all day.
- Limited warranty included on all PCL products.

Other compressed air products available from PCL:

- Air Tools
- Couplings & Adaptors
- Motor Accessories
- Spray Equipment
- Air Treatment

For full technical specifications see product datasheets or visit the website:

www.pclairtechnology.com

(USA) www.pcltireinflation.com