Beverage Industry
A guide to Products and Services
Focused on Adding Value to Your Business

Improving quality and control

Supported by innovative products, state-of-the-art technical facilities and a specialized international team, Parker domnick hunter’s capability is based on understanding the specific needs of your business and providing a total solution.

Delivering value from source to bottle
The Purecare programme represents a joint approach to beverage processing to review and manage your entire process. The Purecare package incorporates up-front consultation & assessment to establish your overall goals as well as a range of after sales packages that ensure the Parker domnick hunter solution is working at maximum efficiency. Purecare takes into account all aspects that affect your process, making small changes that can lead to big results.

Purity that goes beyond filtration
Developing solutions that support quality in every aspect of your process make us a truly unique supplier who can deliver complete purification of your liquid and gas applications enabling you to have confidence and assurance in the quality of your final product.

Global support
Part of the $10 billion Parker Hannifin corporation, we have subsidiaries in 25 countries worldwide with nine manufacturing locations, so we can offer you truly global support with a local perspective and expertise.

Committed to process improvements
Our goal is to continually improve your productivity, reduce your process costs and ensure the safety of your final product. Parker domnick hunter commit to your goals through:

- Continued investment in research & technology
- Application driven approach to new products
- Market & geographical experience leading to tailored solutions
- Global network providing technical, service and sales support
- Excellent reputation gained through working with the worlds leading beverage companies
- Highly skilled, experienced and trained employees
Nitrogen Generation
• Generate your own gas
• Consistent flow, pressure and purity
• Cost saving of up to 90%
• Improves safety
• Increases efficiency
Applications include:
- Pressure transfer
- Blanketing
- Purging
- Sparging
- Filling

PCO2 System
The PCO2 system is designed as a quality incident protection unit acting as a point of use vapour ‘polisher’ and is proven to be effective at removing a wide range of potential CO₂ impurities, such as Benzene, Acetaldehyde & Hydrogen Sulphide. Under HACCP principles, the quality of CO₂ used at the point of carbonation is defined as a Critical Control Point (CCP) and the installation of PCO2 system at this point will form part of a complete CO₂ quality approach.

Silt Density Index (SDI) Testing
An evaluation of suspended particles and colloids in the water, based on the rate of blockage of a test membrane. Samples are taken over a given period of time to provide an indication of the performance of various treatment stages and the effect on water quality due to seasonal variation.
• Disc trial carried out over 15 minutes
• Multiple samples taken
• Periodic testing to monitor seasonal trends

Pre-stabilization
• BEVPOR range of final filters
• PES membrane
• Removal of colloids
• Bioburden stability

Sterile Gas & Vent Filtration
• TETPOR & BIO-X range of filters
• PTFE media
• Assured biosecurity

Compressed Air Purification
Direct and indirect contact between compressed air and ingredients, packaging or product may lead to contamination. BRC / BEAS code of practice for food / beverage grade compressed air protects food / beverage manufacturers and bottlers. Parker domnick hunter as market leaders provide a complete solution that will remove a potential of 10 contaminants from up to 4 different sources.
• Water separators
• Coalescing filters
• Adsorption filters
• Refrigeration dryers
• Dust removal filters

Remote Monitoring
Assessment
• Monitor system parameters
• Highlights problems & unexpected changes
• Both customer and Parker domnick hunter support team monitor performance

Filter Integrity Testing
Integrity testing of sterile grade filters is a fundamental requirement of critical process applications ensuring the biological safety, quality and shelf-life of the product that reaches the customer. Parker domnick hunter provide a range of instruments suitable for beverage applications providing a test protocol that fits well into a HACCP framework.
• Aerosol challenge of sterile air filters
• Pressure decay testing of membrane filters

Carbon
• Activated carbon
• Chlorine and chloroform reduction

Clarification
• PEPOR range of liquid filters
• Polypropylene media
• Effective particulate removal
• Available in large format diameters

Particle Size Analysis (PSA) Testing
PSA is a measurement of particle size distribution in water samples, using a laser particle counter either on-site or in a laboratory environment. PSA can give an indication of the expected workload of a filter system.
• Helps identify the need for more effective prefiltration protecting downstream membranes

Steam
• Culinary grade steam
• Steam to meet (3A Standard 609-03)
• Protects age-work, equipment and downstream filters

CO₂ Polishing
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CO₂ Polishing is a measurement of particle size distribution in water samples, using a laser particle counter either on-site or in a laboratory environment. PSA can give an indication of the expected workload of a filter system.
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Pre-stabilization
• BEVPOR range of final filters
• PES membrane
• Removal of colloids
• Bioburden stability

Microbial Stabilization
• BEVPOR range of final filters
• PES membrane
• Removal of colloids
• Bioburden stability
**Products**

- **BEVPOR**
  - Final Stabilization
  - The BEVPOR PES range of filters from Parker domnick hunter provides microbial stabilization that extends shelf-life, whilst maintaining colour and flavour of the final product.
  - 0.2 - 1.2 microns
  - PES membrane filters
  - Regeneration for extended service life
  - Bio-burden stability

- **PEPYN**
  - Clarification & Prefiltration
  - The PEPYN range of filters from Parker domnick hunter utilizes a graded density polypropylene depth media providing high dirt holding capacity with high flow rates.
  - 3 to 100 microns
  - Large-diameter format PEPYNMAX
  - Excellent particulate retention

- **PREPOR**
  - Pre-Stabilization
  - Prefiltration liquid filters that provide high efficiency removal of spoilage organisms and yeast removal, providing economic stabilization of your product and protection to final membrane filters.
  - 0.6 to 1.5 microns
  - Available in glass fibre and polypropylene media
  - High filtration area
  - High dirt holding capacity

- **CARBOFLOW**
  - Carbon Filters
  - Activated carbon filters are offered in both high efficiency and general grades. Utilizing FDA approved materials they are ideal for chlorine reduction.
  - Available in 2 grades
  - 5” to 40” lengths
  - Excellent adsorptive capacity

- **STEAM**
  - Culinary Grade
  - Sintered & pleated steam filters from Parker domnick hunter are designed to provide culinary grade steam. That protects pipe-work, equipment and downstream filters.
  - The 1 micron version guarantees steam to (SA Standard 609-03)
  - 1 to 25 microns
  - Re-cleanable 316L stainless steel
  - Exceptionally high flow rates
  - Jumbo version for increased capacity

- **WS WATER SEPARATORS**
  - Bulk liquid removal
  - Providing efficient bulk liquid removal at all flow conditions.
  - OIL-X EVOLUTION WS Water Separators also minimize energy consumption and help reduce your carbon footprint.
  - Teste d in accordance with ISO 8573.9
  - Performance independently verified
  - Low pressure loss / low operational cost

- **OIL-X EVOLUTION**
  - Compressed air filters
  - Providing air quality that meets or exceeds the requirements of ISO8573-1, the international standard for compressed air quality, OIL-X EVOLUTION is also the most energy efficient compressed air filter in the world, helping to reduce your carbon footprint.
  - The most energy efficient filters available
  - High quality ISO8573.1-2001 compressed air
  - Running costs that start low and stay low

- **PNEUDRI**
  - Desiccant dryers
  - Providing water vapour removal in accordance with Classes 1, 2 & 3 of ISO8573-1 the international standard for compressed air quality, PNEUDRI modular compressed air dryers offer unrivalled performance, flexibility and expandability in a unique space saving design. Low operational costs and integrated energy management systems also ensure energy consumption is kept to a minimum.
  - Highest quality air
  - Totally stops corrosion / damage
  - Low installation costs
  - Energy efficient

- **HYPERCHILL**
  - Precision chilled water
  - Hyperchill maximizes productivity and minimizes costs, as well as easy conformity to regulations on water quality. Hyperchill is the perfect solution to industrial chilled water needs.
  - Increases productivity, reduces costs
  - Adaptable to individual customer needs

- **PCO2**
  - Carbon dioxide polishing systems
  - Providing quality incident protection for beverage grade carbon dioxide, PCO2 offers protection against carbon dioxide contamination and impurities of up to 10 times the allowable levels.
  - Ensures compliance with quality guidelines published by the International Society for Beverage Technologies (ISBT)
  - Protects drinks manufacturing processes from vapour impurities