Dairy Capability





Also available from Parker domnick hunter



- Complete Process Product Filtration Range
- Process Filter Datasheets
- Full Range of Process Housings
- Integrity Testing Equipment



- Parker domnick hunter Complete Product Range
- Process Filter Datasheets
- Full Range of Process Housings
- Integrity Testing Equipment



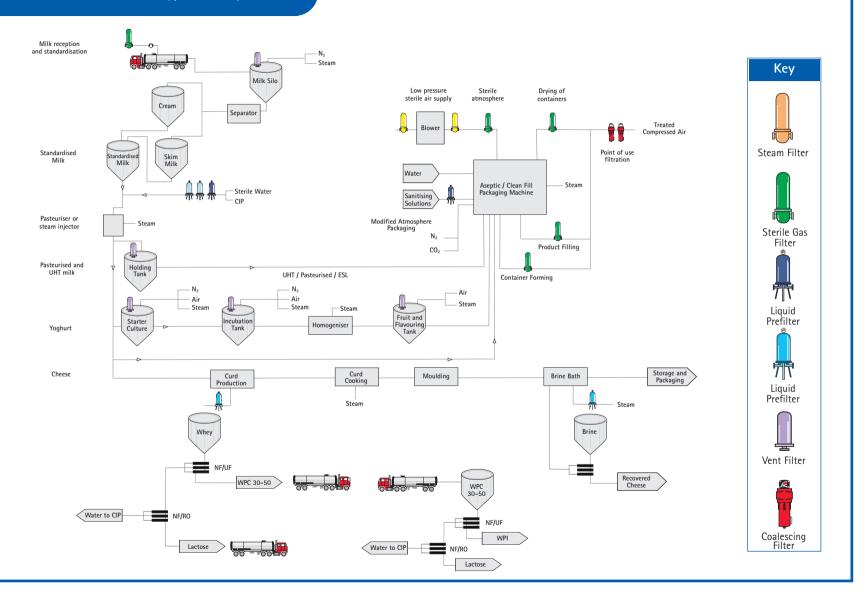
- Full TSG Capability
- Dedicated Support Team
- Contract Support
- Technical Analysis

For more information please contact:

0191 410 5121

dhprocess@parker.com www.domnickhunter.com

Typical Dairy Process



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Process Filtration

....providing complete filtration solutions

Parker domnick hunter specialises in the manufacture and supply of high quality products for the clarification, stabilisation and sterilisation of liquids and gases, providing full scaleability from membrane flat stock discs to multi-element filter systems. Each filter range has been specifically developed for industry requirements.

We have a vast range of filtration experience enabling us to provide innovative and cost effective solutions for all your filtration requirements.

Parker domnick hunter's commitment to service is reflected in our comprehensive before and after sales service.

Our worldwide assistance extends to on-site evaluations, design, manufacture, validation, quality control and ongoing support long after the filters are installed.

We supply the best products for you, when and where you need them.

In 2005 **domnick hunter**, became part of the Parker Hannifin Corporation, with annual sales exceeding \$10 billion, Parker Hannifin is the world's leading diversified manufacturer of motion and control technologies and systems.

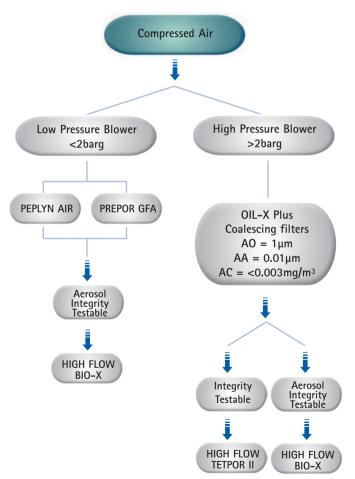
We have a vast range of filtration experience enabling us to provide cost effective solutions for all your filtration requirements. We have the capability to work across application areas including:

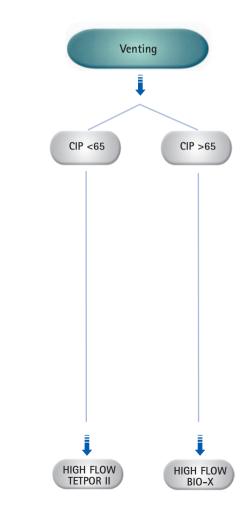
- Biopharmaceutica
- Beverage
- Chemica
- Electronics
- Fermentation

- Food and Dairy
- Healthcare and Cosmetics
- Hospita
- Paints and Inks
- Petrochemical



Sterile Air





Sterile Air

extending shelf life

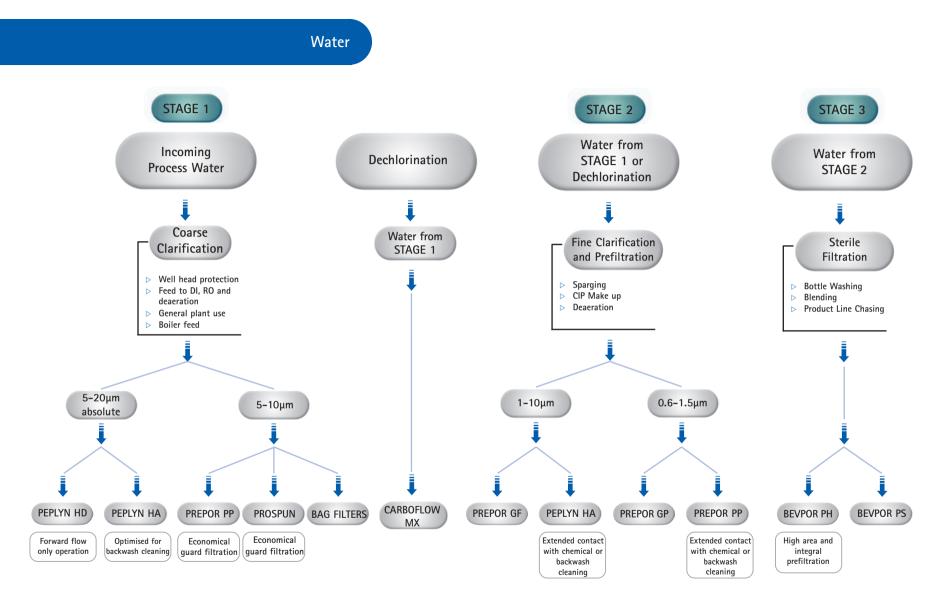
Parker domnick hunter manufacture a range of filters primarily to provide a sterile air supply to aseptic and clean fill packaging machines. Hygiene standards within the dairy industry are rising on an annual basis to guarantee uniformity of product quality, as well as satisfying the ever-increasing demand for longer shelf life allowing the final product to be sold across national boundaries.

Parker domnick hunter offers pleated cartridge filters and advanced design wrapped filters that utilise high technology PTFE impregnated media. The filters can be tested using a simple aerosol technique that is correlated to bacterial and bacteriophage retention. The ability to test these filters fits well into both quality and HACCP frameworks.

Cost effectiveness and a proven track record of maintaining integrity following very aggressive steam cycles mean that glass microfibre depth filters become the filter of choice for the majority of applications in the dairy industry. However filters incorporating PTFE membranes are also used in some instances.

- Filters validated for both live aerosol bacterial challenge and bacteriophage challenge.
- **Complete range of retrofits available**
- Unique choice of PTFE membrane or hydrophobic depth media
- All products meet recommended 3–A sanitary standards 604–05





Water

clear options, clear results

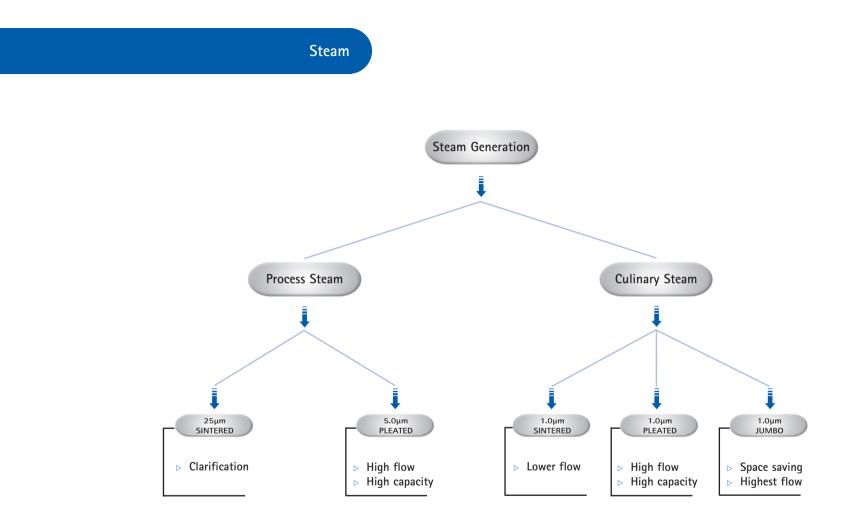
Water is an essential but expensive commodity. It has many uses in the dairy and the level of treatment required differs according to the source and quality of the incoming water, as well as the application that it is to be used for.

Water for general use will require coarse clarification to remove larger particles. This can be economically achieved using general clarification filters from the PROSPUN or PROPLEAT ranges. The other extreme is that water used for bottle washing or for blending should be sterilised to ensure that no extraneous microorganisms are introduced. The BEVPOR range of polyethersulphone (PES) membrane filters are ideal for water sterilisation. For intermediate production stages and make-up of CIP solutions, where the water is used to clean and sanitise pipework, bottling equipment and process filters, fine clarification offered by PREPOR GF and PEPLYN range filters are ideal.

Multi-barrier techniques may be used, for example where water for blending requires softening or deionisation to prevent dissolved salts from causing sensory defects. In this case filter selection is based on the combined performance of the overall treatment process.

- Wide range of retention ratings provides coarse and fine clarification and sterilising options.
- Options to suit filtration-only and multi-barrier treatment.
- High mechanical strength and chemical resistance enable washing and regeneration of the filters to increase service life.
- Positive impact on quality assurance and HACCP frameworks.





Steam

for general plant and culinary applications

Steam used to sterilise product contact surfaces should be of culinary quality to ensure that it does not contaminate the product with particles or chemicals that could be damaging to the quality of the product or hazardous to the consumer. The water quality used for culinary steam generation is addressed in The Food and Drugs Administration's Code of Federal Regulations. The quality of the water and permitted boiler additives are addressed specifically in the following Code of Federal Regulations:

Water Quality: CFR Title 40 Parts 141,142 and 143

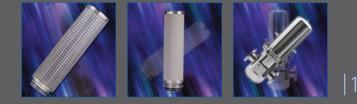
and

Boiler Additives: CFR Title 21 Chapter 1, Section 173.310

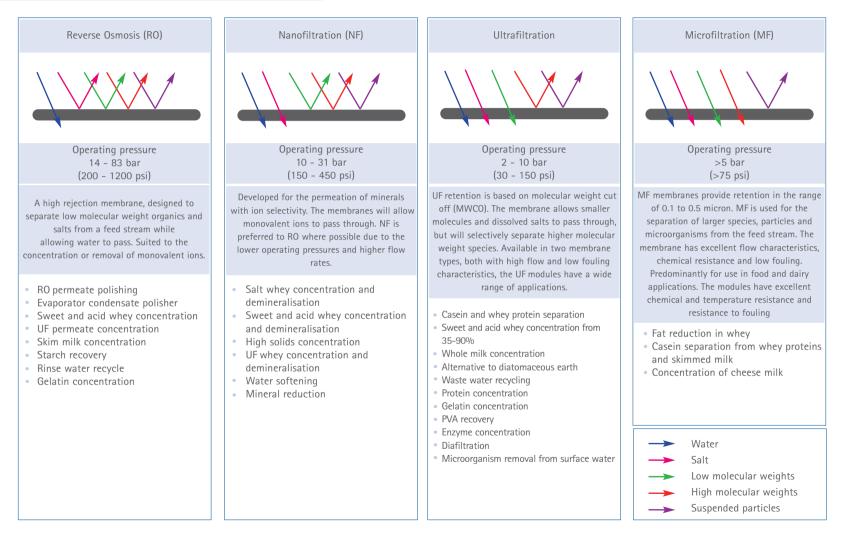
In addition, 3-A standard 609-03 states that pipework and associated equipment should be constructed from 300-series stainless steel and that filters used for particulate removal should be capable of retaining >95% of particles of size 2 micron or larger.

Parker domnick hunter 1 micron rated sintered and stainless steel filter elements meet and exceed the requirements for culinary grade steam quality. In addition Parker domnick hunter provides a number of steam filtration options for general and culinary use together with a comprehensive guide to their selection.

- Stainless steel housing and filter cartridges for general or culinary use.
- Sintered and pleated fibre filters options provide wide sizing options.
- Jumbo range for high volume applications.
- Comprehensive guide to steam quality guidelines, filter section and sizing.



Crossflow Separation (Spiral Wound)



Crossflow Separation

greater options

In crossflow systems, the process fluid is directed across the membrane surface at velocities that create high turbulence. A portion of the fluid permeates through the membrane, whilst the remainder, the retenateor concentrate, produces a scouring effect that minimises the build-up of foulants on the membrane and creates extended periods of consistent permeate flow.

Parker's spiral-wound crossflow membrane modules are a key component in modern separation processes. A wide range of retention characteristics and module formats are available to suit the many system sizes and applications to be found. Coupled to this is the knowledge and experience that Parker offers to optimise system design, performance and economy.

Application Development

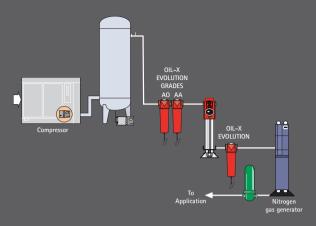
Parker has a team of highly qualified and experienced engineers that works closely with users and specialist system builders to optimise system design, operation and economics. The majority of applications can be satisfied with industry standard module sizes, but should these not fulfil the requirement, flexibility and know-how can be called upon to produce customised configurations.

New applications and system upgrades can be further supported from laboratory- scale studies and by using pilot-scale systems that, together with full technical support, are available for rental. Information generated from these analyses and trials provide the user with higher confidence prior ro large capital investment, and supply valuable data that can accelerate the commissioning and optimisation for the full size system.



	Model	With Compressor	Without	Nitrogen Outlet Flowrate – Nm3/hr (ATP) v Oxygen Content						
			Compressor	10ppm	100ppm	0.1%	0.5%	1%	2%	3%
MAXIGAS MIDI SINGLE BANK MAXIGAS	N2MID350		•	0.6	1.0	1.6	2.6	3.1	4.0	N/A
	N2MID351	•								
	N2MID600		•	0.9	1.5	2.6	3.9	4.6	6.1	N/A
	N2MID601	•								
	N2MAX104		•	1.3	2.2	4.5	7.6	9.0	11.8	13.8
	N2MAX106		•	1.9	3.2	6.7	11.4	13.5	17.7	20.7
	N2MAX108		٠	2.6	4.4	9.0	15.3	18.0	23.6	27.6
	N2MAX110		•	3.2	5.3	11.3	19.1	22.6	29.5	34.5
	N2MAX112		•	5.2	8.4	18.4	30.8	36.4	41.2	47.8
	N2MAX116		•	6.9	11.2	24.5	41.0	48.5	52.9	61.4

Performance data based on 6 barg (87 psig) air inlet pressure, 20 °C – 25 °C (68 °F – 77 °F) ambient temperature. Consult Parker domnick hunter for performance under other specific conditions.



Modified Atmosphere Packaging

improving product quality and extending shelf-life

Product spoilage can occur from the moment a food item has been produced. Increased consumer demand for fresh, high quality preservative-free foods has led to the development of modified atmosphere packaging (MAP).

MAP or 'gas flushing' as it is also known, is an increasingly popular technique used to easily and economically improve product quality and extend shelf-life.

Flushing packaged foods with inert high purity nitrogen retards aerobic spoilage and oxidative deterioration by typically reducing the oxygen level in packaged foods to below 1% so that food tastes as good as the day it was packaged.

Nitrogen is primarily used to reduce the oxygen content within food packaging and to avoid product deterioration. A secondary reason for using nitrogen is as a filler gas to provide a pressurised atmosphere that prevents package collapse, an important consideration for consumer brands.

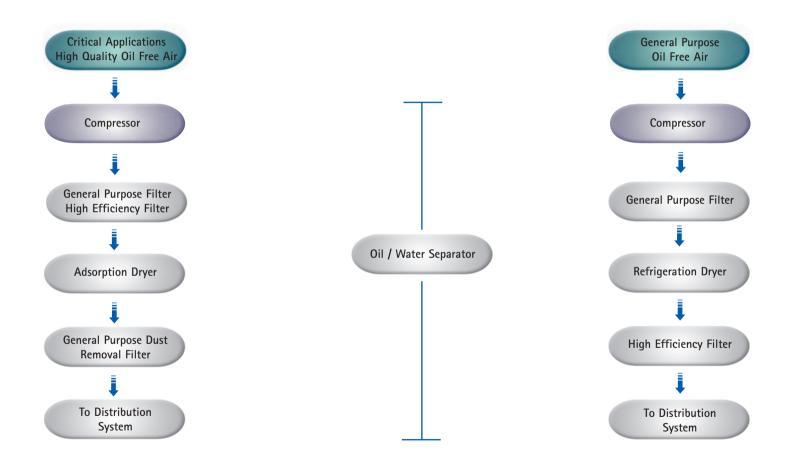
Why MAXIGAS?

MAXIGAS is a cost effective alternative to other nitrogen sources with on-going refill costs or other costs associated with order processing or multiple deliveries. It is also a safer alternative to the manual handling of high-pressure nitrogen gas cylinders.

Downtime is minimised due to the permanent availability of an on-demand nitrogen supply, giving manufacturers increased control. MAXIGAS requires minimal maintenance and can also bring valuable space saving advantages.

The development of food packaging machines with integrated gas flushing capabilities and the supply of 'food grade' nitrogen by Parker domnick hunter allows food manufacturers to enhance the quality of their products.





Compressed Air

selecting the ideal management system for your needs

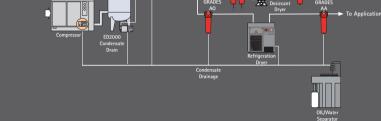
The quality of air required throughout a typical compressed air system can vary. The extensive range of purification equipment available from Parker domnick hunter is ideal for both centralised and decentralised compressed air systems. This allows the user to tailor the quality of air for each specific application, from general purpose ring main protection, through to critical clean dry air (CDA) point of use.

Parker domnick hunter can tailor its range of purification equipment to exactly match system requirements, ensuring both capital and operational costs are kept to a minimum.

To achieve the levels of cleanliness specified by IS08573.1:2001 a careful approach to system design, commissioning and operation must be employed.

It is highly recommended that the compressed air is treated prior to entry into the distribution system as well as at each usage point or application.

This approach to system design provides the most cost effective solution to system purification as it not only removes the contamination already in the distribution system, it ensures that only the most critical areas receive air treated to the highest level.



To Application

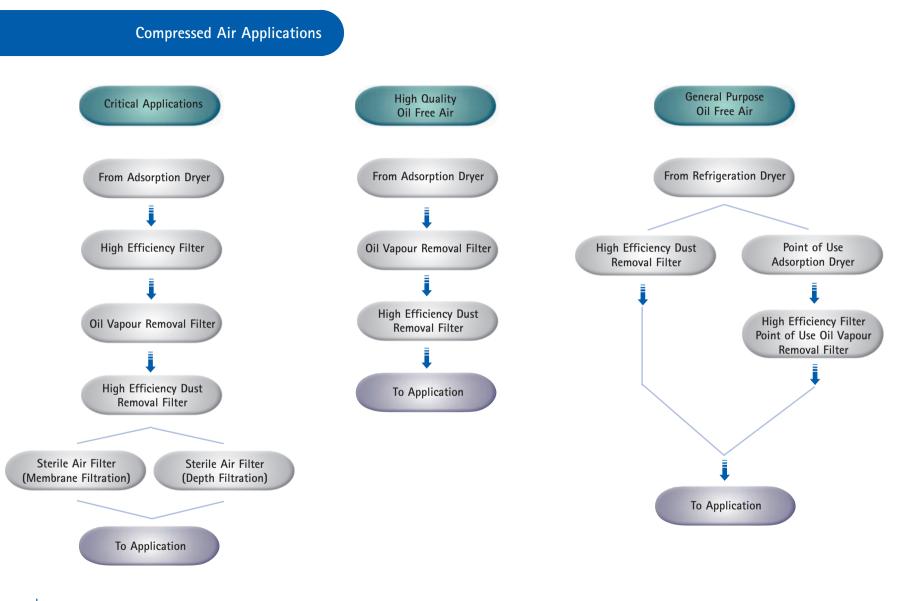
To Application

To Application

011 - X

- International system of air quality classification.
- From compressor house to point of application.
- See publication 17 400 4765 for detailed information.





Compressed Air Applications

high quality compressed air from generation to application

Compressed air can be an expensive commodity if not efficiently managed. As well as the primary costs associated with the production of compressed air and losses from leaking distribution systems, poor management of compressed air can lead to a rapid deterioration of the distribution system, failure of equipment due to oil, water and particulate carry-over, and bacterial traps which cause sensory taints in the final product.

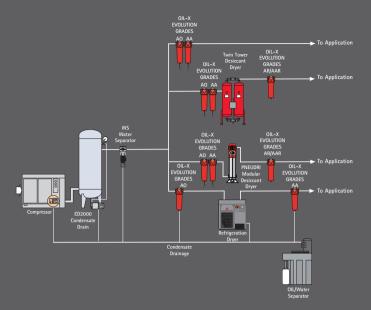
Management of compressed air falls into three main categories:

- Effective removal of all contamination in the form of dirt, oil, water and microorganisms.
- Minimising pressure losses between the compressor and the point of use.
- Eliminating losses from the system due to leaks, uneconomical regeneration of drying plant and inefficient condensate drains.

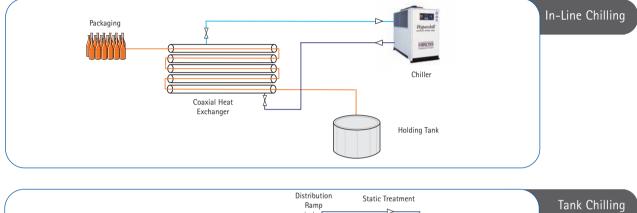
Parker domnick hunter offers unrivalled expertise in the purification of compressed air and works in partnership with many of the world's leading compressor manufacturers. In order to explain the various forms of compressed air treatments Parker domnick hunter has published a guide to ISO 8573.1:2001 Air Quality Classes. This provides an in-depth guide to identifying the air quality that best suits the needs of different applications.

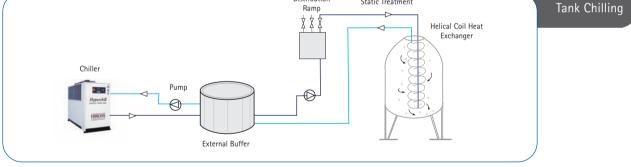
- **Easy to understand guide to air quality classes.**
- Filters for coalescing oil aerosols from the compressed air stream.
- Range of desiccant and refrigeration dryers to suit varied needs.
- Sterilising filters for high pressure (compressor) lines.
- Sterilising filters for low pressure (blower) applications.











Chilling creating the right environment

Process cooling is regularly used in the processing of dairy products:

- To regulate temperature during fermentation.
- During accelerated precipitation of tartrate crystals.
- To stabilise the wine during storage.

Parker domnick hunter Hiross has more than 30 years experience in the manufacture of industrial cooling systems. In recent years a wide range of chillers for the production of chilled water has been introduced. Coupled with a sales and engineering team capable of providing customised solutions to meet application needs, this provides a dedicated approach to the requirements of dairy applications.

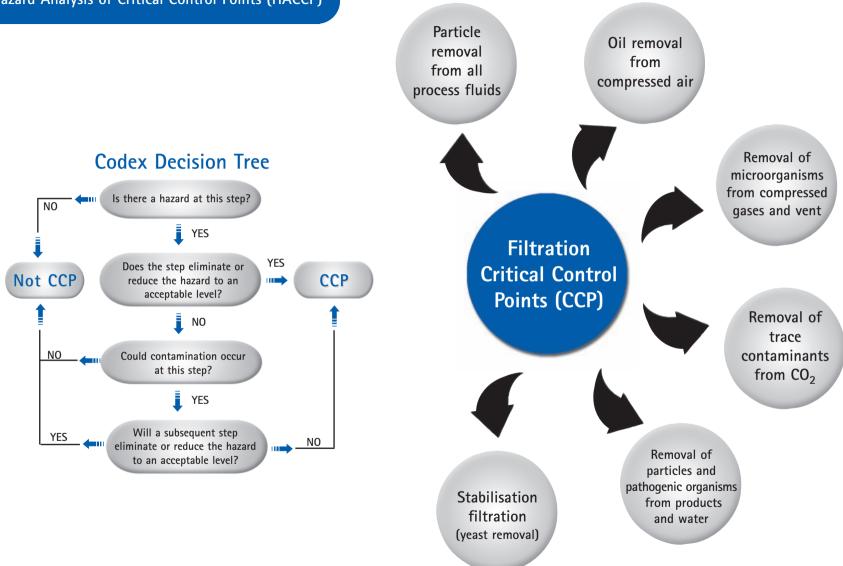
The technology is characterised by a high refrigeration yield for low electrical consumption. Combined with a small footprint this leads to a compact, space-saving and energy efficient solution.

Chillers are available for internal and external installation and are equipped with microprocessor intelligence providing precise control and automatic function.

- Standard and custom designed options provide unrivalled choice.
- Wide range of cooling capacities.
- Minimal space-saving footprint.
- Low energy consumption.







HACCP and Integrity Testing

monitoring critical control points

HACCP

If precautionary measures are not in place during production, products may be contaminated biologically, chemically or physically. "Hazard Analysis of Critical Control Points" (HACCP) is a food safety management system acknowledged by governments, regulatory control bodies and the food industry as a system that identifies and monitors specific food safety hazards and risks.

Microporous filter products are used by a number of industries to achieve required levels of purity in both gases and liquids. The verification of filter performance has been identified as an important process monitor.

The HACCP programme should be applied from the production, supply and handling of unprocessed material, to the processing, distribution and consumption of the final product. Global markets are demanding more than ever that potential food safety risks are managed.

ASSURED PERFORMANCE

The ability to test the integrity of a filter provides a valuable quality assurance tool. A properly conducted integrity test provides assurance that the filter will fulfil the role that it was designed for, ensuring that it is fit for purpose BEFORE a process run is initiated. As well as installing confidence in the filter, recording integrity test results demonstrates sound process quality monitoring and provides a test protocol that fits well into a HACCP framework.

VALAIRDATA II

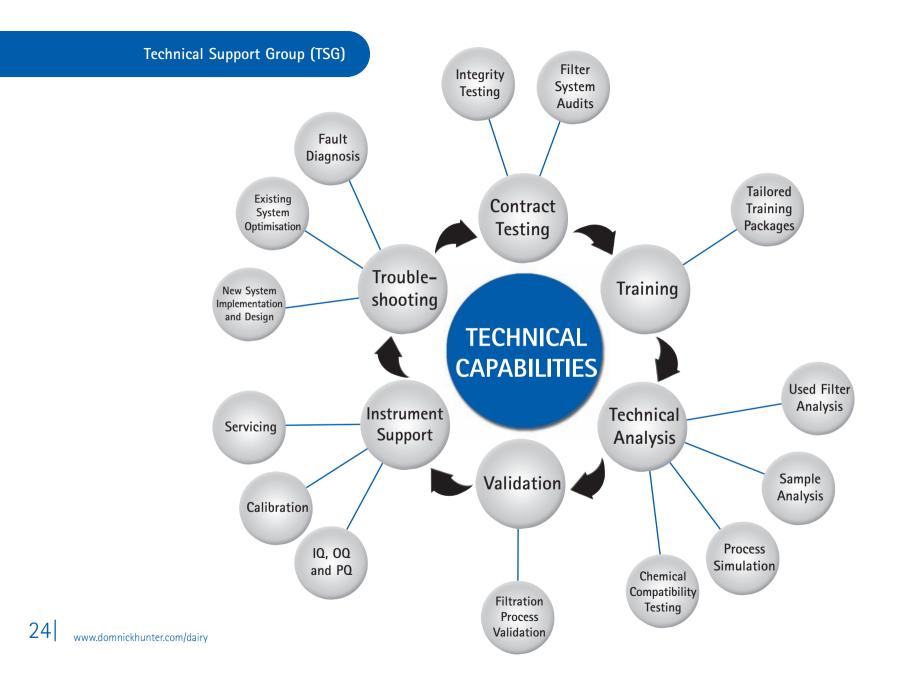
VALAIRDATA II is based on an aerosol integrity test, making it the most effective and practical integrity test for sterile gas filters.

BEVCHECK

BEVCHECK is a hand-held instrument that provides a convenient and easy means of carrying out pressure decay and diffusional flow integrity tests, on liquid filters or sterile gas filters.







Technical Support Group

dedicated support team

Parker domnick hunter has a multi-disciplinary team of scientists and engineers dedicated to the technical support of our products. Situated at facilities around the globe including centres of excellence in Birtley, UK and Oxnard, USA.

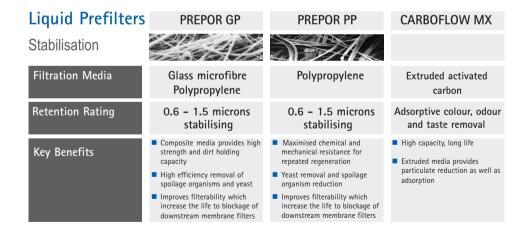
Through the Technical Support Group (TSG) and Laboratory Service Group (LSG), our teams assist clients in the selection and design of filtration systems coupled with ongoing support including: validation services, instrument servicing and calibration, contract testing, delivery of training programmes, on-site support (system optimisation, trouble shooting) and an advisory service.

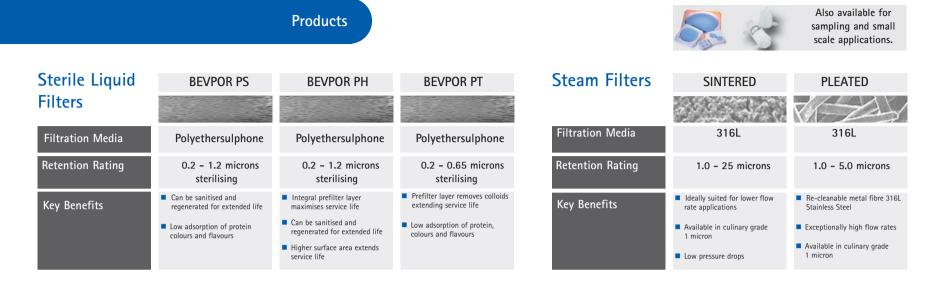
The commitment of our people is backed up by state-of-the-art facilities. Our Birtley site has been the subject of a major investment programme to extend existing laboratory, manufacturing and training capabilities. This supports our commitment to provide world-class products and support services.

- Filtration process validation.
- Industry tailored training.
- Process optimisation.
- Instrument support.



		Products			R	Also available for sampling and small scale applications.
Liquid Prefilters	PEPLYN HD	PEPLYN HA	PREPOR GF	PROPLEAT	PROSPUN	BAG FILTERS
Clarification Filtration Media	Polypropylene	Polypropylene	Glass microfibre	Polypropylene	Polypropylene	Various
Retention Rating	5 – 35 microns absolute	3 – 100 microns absolute	2 - 10 microns absolute	1 – 75 microns	0.5 - 75 microns	Medium to coarse
Key Benefits	 Graded density and increased depth resulting in high dirt holding capacity Ideally suited to high volume, forward flow processes 	 Graded density results in high dirt holding capacity Optimised pleat configuration maximises backwash efficiency Wide range of chemical resistance improves chemical regeneration 	 High voids volume glass microfibre media provides high dirt holding capacity Higher flow than polypropylene media results in low pressure drop even in viscous liquids 	 Economical general clarification Higher area than spun products provides longer life to blockage 	 Economical general clarification Excellent first-stage protection of downstream processes 	 Economical general clarification in non-critical applications





Sterile Gas and	HIGH FLOW BIO-X	BIO-X	TETPOR AIR	Integrity Test	VAL/
Vent Filters					1
Filtration Media	PTFE Impregnated Glass Fibre	Glass Microfibre	Expanded PTFE		4
Retention Rating	0.01 microns sterilising	0.01 microns sterilising	0.01 microns sterilising	Tests	Aerosol c
Key Benefits	 94% voids volume PTFE impregnated GF Exceptional flow rates with low pressure drops Integrity testable by aerosol challenge 	 High Temperature operation 200 °C (392 °F) Robust construction Full range of retrofits Integrity testable by aerosol challenge 	 Assured biosecurity with absolute rated filtration High voids volume PTFE membrane Unique prefilter layer Steam sterilisable to 142°C (287°F) 	Key Benefits	 30 second cartridge, immediate Increased to liquid t Easily app systems Test result



For full range of Custom and Industry Specific Housings and Skids please contact Parker domnick hunter

Products

MAXIGAS

nitrogen generators



- On-demand, Secure Supply
- The Safest Supply
- Generate The Right Purity
- Space Saving
- Easy to increase supply as required

You can now generate your own nitrogen gas at the press of a button – as much or as little as you need, at a fraction of the cost of your existing supply and at the purity your process requires. The generators are virtually maintenance free. Simply switch on and let your Parker domnick hunter nitrogen generator do the rest.

For more information publication number: 174004791

ES2000 oil / water separators



- Help to protect and maintain the environment
- Efficiently separate oil and water on-site and return up to 99.9% of the condensate to foul sewers
- Meet trade effluent discharge regulations
- Rapid payback over conventional disposal methods

Discharging oil contaminated condensate from compressed air systems is not only harmful to the environment, it is invariably illegal.

Oil spillages from industry do not have to be big to be serious. One litre of oil can cover 3500m² of water surface. One gallon of oil can cover 4 acres of water surface.

For more information publication number: 174004429



OIL-X EVOLUTION has been designed from the outset with the key design focus concentrated in critical areas such as air flow management, filtration media selection and construction and the efficient removal of coalesced liquid. OIL-X EVOLUTION has also been designed to be fully compliant with the latest ISO8573.1 : 2001 air quality standards as well as the forthcoming ISO12500 standard for filter testing.

For more information publication number: 174004402

ED2000

series condensate drains



- Removes liquid condensate efficiently
- Saves valuable compressed air
- Protects downstream equipment and processes from condensate damage
- Help protect the environment

Consider the compressed air and energy losses associated with the common types of drain. What appears to be a good purchase could actually turn out to be the most expensive option. For example, a system using a single timed drain, could lose approximately $0.062 \text{m}^3/\text{min}$ (2.18cfm) of air.

Over a full year of continuous operation that equates to approximately 32,798m³ (1,142,669 ft³) of air lost! In energy terms that single drain would use 3,581 KW (4,804 hp) energy per year! Now multiply by every drain of that type in the system.

Products

PNEUDRI

desiccant dryers



- Highest Quality Air
- Totally stops corrosion and damage
- Low installation costs
- Energy efficient

PNEUDRI cleans and dries compressed air down to -40° C (-40° F) PDP as standard and for critical applications, PNEUDRI can be supplied with a dewpoint of -70° C (-100° F) PDP.

Our award-winning modular design utilises Parker domnick hunter patented technology to provide the ultimate in uncompromising performance, security and reliability for your compressed air system.

For more information publication number: 174004759

CRD refrigeration dryers



- Environmentally friendly R407C refrigerant
 - Energy efficient, low running costs
- Suitable for high ambient operating conditions up to 50°C (122°F) and inlet temperatures up to 60°C (140°F)

Remove water from any compressed system economically. Well proven refrigeration principles are at the heart of this reliable and complete product range.

Avoid corrosion, machinery failure and product spoilage. Reduce energy costs and improve productivity by installing a Parker domnick hunter refrigeration dryer with OIL-X EVOLUTION filtration.

Modern features include the latest technology ultra-compact modular aluminum cross flow heat exchangers with low differential pressure and energy efficient scroll compressors (most models).

PCO2 carbon dioxide polishing filter



- Ensures compliance with quality guidelines published by the International Society for Beverage Technologists (ISBT)
- Protects drinks manufacturing processes from vapour impurities

The Parker domnick hunter PCO2 range of carbon dioxide purifiers will remove harmful contaminants from CO_2 used in the manufacture of beverages.

The PCO2 cartridge incorporates a mix of adsorbents that effectively remove the contaminants. The addition of a particulate retention filter, providing protection down to 0.01 micron, completes a package that will ensure CO_2 conforms to the quality guidelines for carbon dioxide (published 1999) by the International Society for Beverage Technologists. (ISBT)

The domnick hunter PCO2 Carbon Dioxide Polishing Filter, model: MF-5 is deigned to give point of use protection in draught dispense applications.

For more information publication number: 174004462

HYPERCHILL precision chilled water



- Standard custom designed options provide unrivalled choice
- Wide range of cooling capacities
- Minimal space-saving footprint
- Low energy consumption

Hyperchill is the new range of precision water chillers by domnick hunter Hiross. The range covers cooling capacities from 2 to 360 kW. Each model is designed for safe and reliable operation, whatever the working conditions.

Flexibility and an extensive range of options ensure that Hyperchill operates continuously and efficiently whatever the conditions. All models accept water inlet temperatures up to 30°C and water outlet temperatures down to 0°C. Custom-designed alternatives for tower temperature glycol solutions are also available.

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