

Compressed Air Treatment

Catalogue S3.2.111a



Parker Filtration - Process Air and Gas Division

Compressed Air Treatment

Superior protection from the damaging and costly effects of oil, water and dirt...

- Filter elements that offer both market leading performance and efficiency and are environmentally friendly in their manufacture and disposal.
- Housings ranging from 1/4" to DN200 coded vessels, together with a full range of drain and differential pressure gauge options.
- A wide range of filtration efficiencies to provide the exact filtration that's required. From bulk water separation through to bacteria removal for sterile air.
- Innovative membrane air dryers that provide clean dry air with dew points down to -40°C, without any moving parts or the requirement for additional power.
- The inherent advantages of Parker filter elements are available in a range of filter elements sized to fit other manufacturers housings, offering the opportunity to upgrade to a Parker filter.

Gas Filtration

Filtration for sampling systems, analyser applications and process gases providing protection - pure and simple...

- Remove liquids & solids from gases with up to 99.9999+% efficiency at 0.01 µm.
- Specially configured filter media for applications such as carbon dioxide purification, alternative fuels and steam filtration.
- Temperature resistance to 538°C and a maximum pressure of 345 barg.
- Low pressure drop and a long life between filter element changes.

Process Liquid Filtration

Process liquid filtration providing purification and clarification for the beverage, chemical processing, cosmetic, food processing, metalworking, paint, ink, pharmaceutical and water treatment industries...

- Parker's line of membrane cartridges is ideal for critical applications where high performance is required.
- Parker's pleated depth filter series of cartridges provide high flow long life filtration, including absolute and nominal rated cartridges available in polypropylene, microglassfibre and cellulose.
- Wound Depth, Resin Bonded and Melt Blown filter cartridge series from Parker together with Filter Bag Media, Strainers, Metallic Media and Sorbent Media providing a range of choices to ensure the correct filtration for your application.
- Parker coded and non-coded vessels available for a broad range of applications.

On-Site Nitrogen Generators

Nitrogen is the most widely used gas in industry since it can prevent the risk of explosion or stop product degradation. Nitrogen is being used in new and exciting applications such as tyre filling for cars, motorcycles and trucks...

- Parker's proprietary hollow fibre membrane technology simply and elegantly separates nitrogen from compressed air.
- Generators such as the NitroSource will provide a supply of nitrogen from house compressed air, whilst units such as the Micro provide a plug-and-play solution with the inclusion of an integrated compressor.





Analytical Gas Generators



Nitrogen Generation



Process Liquid Filtration



Compressed Air Treatment

Filtration for Vaccanti Pumps

Filtration for Vacumn Pumps



Contents

| Understanding Compressed Air Filtration | 4 |
|---|-----|
| Providing Air, free from Oil, Dirt and Condensate | |
| Filtration Media Grades | 6 |
| | |
| Filter Silencers | '/ |
| Miniture Point-of-Use Filters | 8 |
| Compressed Air Filters 1/4" to 1 1/2" | 10 |
| Compressed Air Filters 2" to 3" | 12 |
| Compressed Air Filters DN100 - DN200 | 13 |
| Stainless Steel Compressed Air Filters | 14 |
| Breathing Air Purifiers | 16 |
| Medium and High Pressure Filters | 17 |
| Flow Rates | 18 |
| Producing Dry (Low Dew Point) | Air |
| Parker Membrane Technology | 19 |
| System Membrane Air Dryers | 20 |
| Point-of-Use Membrane Dryers +2°C Dew Point | 22 |
| Point-of-Use Membrane Dryers -40°C Dew Point | 24 |
| Point-of-Use Desiccant Dryers | 26 |

| Zero Air Loss Drains | 27 |
|---------------------------------|----|
| Nitrogen Generators From Parker | 28 |
| Par-Fit Alternative Elements | 30 |
| Accessories | 34 |
| Global Company Local Support | 35 |

Understanding Compressed Air Filtration

Compressed air is expensive to produce and must be properly treated in order to limit maintenance costs, downtime and spoilage. Parker compressed air filters remove the water, oil and dirt which form the contaminants of compressed air.

Protection where it's needed...

Stopping corrosion from compressed air at 20°C and 7 barg requires an extremely low dew point of -30°C, so even if an application is not particularly sensitive to impurities – for example an air driven tool – it's advisable to have a point-of-use filter. Any rust particles, pipe scale and water condensed out in the line will need to be removed or they will cause problems.

Water, dirt, degraded oil and bacteria can form an abrasive sludge; this will bring with it higher costs through spoilt product, broken tools, increased air line leakage and the resulting additional maintenance required. Parker compressed air filters provide you with the protection you need from these contaminants.

The diagrams (to the right) demonstrate the different configurations of Parker compressed air filters and dryers to provide a variety of the ISO compressed air qualities.

Green and Lean – Protection that doesn't cost the earth...

Parker compressed air filter elements are manufactured to offer advantages in addition to their great filtration performance. Parker elements have a self-supporting, rigid structure, this means that less of the world's valuable resources are used in their construction when compared with other designs. Also Parker are probably the most cost effective elements on the market, giving a low cost of ownership. The design of Parker elements means that they cost you less to use, since low pressure drop is an inherent feature. This helps to keep down the energy consumption of your compressed air system – an important consideration for users with the climate change levy.

Why Parker offer such high efficiency with a low pressure drop...

Parker compressed air filters are constructed from a random bed of borosilicate glass fibres, which are held in a rigid structure by a fluorocarbon resin binder.

The diameter of these fibres is approximately one micron, with the void spaces around the fibres being much larger. This high proportion of space ensures a low flow resistance (pressure drop) and long life.

Collision, not sieving...

Parker provides you with high efficiency filtration through filters designed to use mechanisms that capture contaminants within the filter, whilst intermolecular forces act to hold the contaminants in the filter.

When contaminants collide with a fibre they're captured. Intermolecular attraction is strong enough to prevent unloading of contaminants downstream and will permanently hold particulate.

'Coalescing' making big drops from little ones...

A solid particle, once captured, cannot be removed. A liquid droplet, however, runs down the length of the fibre until it reaches a fibre crossover point. When many liquid droplets run together, the liquid collected at the fibre crossover point becomes a larger droplet. The larger droplet is then gradually pushed through the fibre mat by the flow of air or gas, picking up other droplets along the way, until it appears as a very large droplet on the downstream surface of the filter. Thus, the filter removes very fine liquid droplets from the gas stream and converts them into large droplets of liquid, which can be readily drained from the system. This process is called "coalescing".

Why inside-to-outside flow?

Since the coalesced liquid appears on the downstream surface after having passed completely through the filter, the liquid will drip from this surface. In all Parker coalescing filters, the flow direction through the filter cartridge is inside-to-outside. A Parker filter will coalesce liquid droplets indefinitely without loss of efficiency or flow capacity, because the liquid drains from the filter cartridge as rapidly as it is collected. Only solid particles will cause a permanent increase in flow resistance; therefore, the useful life of the filter is determined only by the quantity of solids in the gas.

How to obtain a trouble-free coalescer...

The mechanism of coalescing leads to two important considerations in selecting and installing a coalescing filter:

- I. Proper sizing of a Parker coalescing filter is easily done by using the maximum flow rate data in the charts (page 18).
- II. To avoid liquid carryover, the coalesced liquid should not be allowed to build up in the filter housing above the level of the bottom of the filter cartridge. Rather than relying on operator attention to this easily overlooked job, automatic drains should be installed with all coalescing filters.

ISO 8573.1 QUALITY CLASSES

| Quality Class | Dirt Particle Size in Micron | Water Pressure dew point °C (ppm. vol.) at 7 barg | Oil (Including vapour) mg/m³ |
|---------------|------------------------------------|---|------------------------------------|
| 1 | 0.1 | -70 (0.3) | 0.01 |
| 2 | 1 | -40 (16) | 0.10 |
| 3 | 5 | -20 (128) | 1.00 |
| 4 | 15 | +3 (940) | 5.00 |
| 5 | 40 | +7 (1,240) | 25.00 |
| 6 | - | +10 (1,500) | - |

GENERAL PURPOSE PROTECTION General ring main protection Particle removal only in 'dry Pre-filtration for refrigeration type svstems' Pre-filtration to adsorption type air air drvers Liquid and solid - bulk dryers in 'oil free' systems contamination removal Large pneumatic tools Pre-filtration to high efficiency Low cost automation filters Pre-filtration to air sterilisation filters in 'oil-free' systems Use Grade DX or 10 ISO 8573.1 Class 2.-.3











Filtration Media Grades Specifications

2000-series, 6000-series and 914 series Coalescing Filter Media

Grade BXE:

Applications: General air coalescing applications when total removal of liquid aerosols and suspended fines is required in all pressure ranges. Protection of air dryers, air gauging, air logic, modulating systems, critical air conveying, most breathing air systems, etc.

Grade DXE:

Applications: Precoalescer or prefilter for Grade 6 to remove gross amounts of water and oil, or tenacious aerosols which are difficult to remove. Upgrading existing particulate equipment to coalescing without increase in pressure drop.

| Grade Designation | Efficiency for 0.01 micron particles and droplets | Pressure Drop (bar) @ Rated Flow Media Dry |
|----------------------|---|---|
| DXE | 93% | 0.14 |
| BXE | 100% | 0.14 |

Temperature Range: -30°C up to +149°C

Materials of construction: Borosilicate glass microfibres with fluorocarbon resin binder. Resistant to water, all hydrocarbon and synthetic lubricants.

Sterile Air Filter Media:

Grade SA:

Applications: Grade SA filter removes bacteria from compressed air and is the final filter in a sterile air system. SA media must have BXE prefilter.

| Grade Designation | Efficiency for 0.01 micron particles and droplets | Pressure Drop (bar) @ Rated Flow Media Dry |
|----------------------|---|---|
| SA | 99.9999+% | 0.5 |

Temperature Range: -30°C up to +149°C

Materials of construction: Borosilicate glass microfibres with fluorocarbon resin binder. Resistant to water, all hydrocarbon and synthetic lubricants

Adsorption (Vapour Removal) Filter Media:

Grade 000:

Applications: Polishing gas stream of final trace amounts of hydrocarbon contaminants, usually 0.5 to 2 ppm inlet concentrations. Preparation for breathing air; hydrocarbon removal.

| Grade | Oil Vapour | Pressure Drop (bar) |
|-------------|--------------------|------------------------|
| Designation | Removal Efficiency | @ Rated Flow Media Dry |
| 000 | 99%+ | 0.14 |

Temperature Range: Max. temp. 80°C.

Materials of construction: Activated Carbon.

Q-series, BA series, ZT-series, ZF-series media specifications

Coalescing Filter Media

Grade 6C:

Applications: General air coalescing applications when total removal of liquid aerosols and suspended fines is required in all pressure ranges. Protection of air dryers, air gauging, air logic, modulating systems, critical air conveying, most breathing air systems, etc.

Grade 10C:

Applications: Precoalescer or prefilter for Grade 6 to remove gross amounts of water and oil, or tenacious aerosols which are difficult to remove. Upgrading existing particulate equipment to coalescing without increase in pressure drop.

| Grade Designation | Coalescing Efficiency 0.3 to 0.6 micron particles | Maximum Oil Carryover PPM w/w (1) | Micron Rating | '@ Rat | re Drop (bar) ted Flow (2) Media wet with 10-20 wt. oil |
|----------------------|--|---|------------------|--------|--|
| 6 | 99.97% | 0.008 | 0.01 | 0.07 | 0.14 - 0.20 |
| 10 | 95% | 0.85 | 1 | 0.035 | 0.035 |

Notes:

(1) Tested per ADF-400 at 40 ppm inlet. (2) Add dry + wet for total pressure drop.

Temperature Range: -30°C up to +149°C

Materials of construction: Borosilicate glass microfibres with fluorocarbon resin binder. Resistant to water, all hydrocarbon and synthetic lubricants

Water Separator Filter Media

100WS:

Applications: Reduction and elimination of excess liquids in gas streams. Excellent prefilration for coalescing grades 6 and 10 when extreme quantities of liquid contaminants are present.

| Grade | Filter Efficiency | Pressure Drop (bar) |
|-------------|-------------------|------------------------|
| Designation | Rating | @ Rated Flow Media Dry |
| 100WS | 100µm | <0.02 |

Notes: Element flows in to out.

Temperature Range: Max. temp. 80°C.

Materials of construction: Rolled stainless steel mesh (304 SS).

Interceptor (Particulate Removal) Filter Media

3PU

Applications: Particulate removal where very high dirt-holding capacity is require. Safety after filter for desiccant dryer, pore matched prefilter for coalescer or as general use for the final instrument air protection.

| Grade | Filter Efficiency | Pressure Drop (bar) |
|-------------|-------------------|------------------------|
| Designation | Rating | @ Rated Flow Media Dry |
| 3PU | 3µm | <0.02 |

Temperature Range: Max. temp. 80°C.

Materials of construction: Pleated cellulose.

Adsorption (Vapour Removal) Filter Media

Α

Applications: Polishing gas stream of final trace amounts of hydrocarbon contaminants, usually 0.5 to 2 ppm inlet concentrations. Preparation for breathing air; hydrocarbon removal.

| Grade | Oil Vapour | Pressure Drop (bar) |
|-------------|--------------------|------------------------|
| Designation | Removal Efficiency | @ Rated Flow Media Dry |
| А | 99%+ | 0.07 |

Temperature Range: Max. temp. 80°C.

Materials of construction: Activated Carbon.



Filter Silencers Exhaust Coalescers and Silencers

Features

Longer life and less back pressure than sintered designs

Remove all visible oil mist from exhaust air Exceptionally efficient silencers for air exhausts

Available for exhaust ports from 1/8" to 1"



Type 9955-05-DX Type 9955-11-DX Type 18/18-DX Type ECSB-4 and 9955-12-DX

Types 9955-05-DX, 9955-11-DX, 9955-12-DX, 18/18-DX and ECSB-4

Balston Filter/Silencers are remarkably efficient sound mufflers, far more efficient than the felts, pleated paper, sintered plastic and sintered metal products commonly used in other exhaust silencers. A sound attenuation efficiency test comparing a 9955-12-DX, 1/2" Filter/Silencer with a sintered polyethylene silencer is described below.

This silencing efficiency test simulates the action of an air cylinder discharging rapidly to atmosphere. A length of 1/2" line between two ball valves is pressurised with air to a controlled pressure. The upstream valve is closed and then the downstream valve is opened rapidly to discharge the fixed volume of air under pressure to atmosphere. Noise levels were measured at a 0.75 metre distance, firstly with no silencer on the end of the line, secondly with the Balston Filter/Silencer and lastly with competitive silencer.

| Noise Level | Upstream Pressure (barg) | | | g) | |
|-----------------------|--------------------------|-----|-----|-----|-----|
| (dBA) | 7 | 5.5 | 4.3 | 2.7 | 1.5 |
| With Balston | | | | | |
| Silencer | 70 | 70 | 69 | 67 | 65 |
| With Sintered | | | | | |
| Polyethylene Silencer | 88 | 88 | 87 | 87 | 81 |

A similar test of the Type 18/18 on a 3/4" air line gave the following results:

| Sound Level 1m from 3/4" Air Line Discharging Air At 7 barg to Atmosphere | | |
|---|---------------------------|--|
| Without Silencer | With Type 18/18-DX | |
| 113 dBA | 94 dBA | |

Principal Specifications

| Туре | 9955-05-DX | 9955-11-DX | 9955-12-DX | 18/18-DX | ECSB-4 |
|---------------------------|---------------------------------|---------------------------------|---------------------------------|--|-----------------------------------|
| Inlet Port Drain Port | 1/8" NPT (Male) 1/4" OD Stem | 1/4" NPT (Male) 1/4" OD Stem | 1/2" NPT (Male) 1/4" OD Stem | 3/4" NPT (Female) 1/8" NPT (Female) | 1" NPT (Female) 1/4" ID Tubing |
| Materials of Construction | (6mm ID Tube) | (6mm ID Tube) | (6mm ID Tube) | i, o ivi i (i cinate) | (6mm 1/4 ID) |
| Filter Cartridge | Boro | osilicate glass micro | ofibres with fluoroca | rbon resin binder | |
| Holder | Nylon | Nylon | Nylon | Steel | Nylon |
| Internals | _ | _ | _ | Steel | _ |
| Maximum Internal | | | | | |
| Pressure at 43°C | 7 barg | 7 barg | 7 barg | 7 barg | 7 barg |
| Maximum Temperature at | | | | | |
| 0 barg Internal Pressure | 127°C | 127°C | 127°C | 149°C | 52°C |
| Shipping Weight | 0.2kg | 0.2kg | 0.2kg | 0.5kg | 0.5kg |
| Dimensions | 40x50mm | 40x80mm | 50x90mm | 90x140mm | 185x65mm |

Ordering Information

| Туре | Description |
|---------------------------------------|--|
| 9955-05-DX, 9955-11-DX and 9955-12-DX | Standard Pack of 10 Filter/Silencers per box, individually wrapped |
| 18/18-DX | One Type 18/18-DX per box |
| ECSB-4 | One Type ECSB-4 per box |



Compressed Air Filters Miniature Point-of-Use Filters

Features

Remove up to 99.99% of 0.01 micron oil, water and dirt
Automatic drain options
Maximum temperature to 121°C
Maximum pressure to 17 barg

Types A914D, A914P, A914, A914A

Types A914P and A914D are 1/4" line size assemblies with simple, reliable drains used for low flow applications with moderate levels of liquid contaminate.

The A914P is designed to empty condensate when there is a sudden pressure drop through the system (intermittent compressed air demand applications). The A914D incorporates an overnight drain which will drain liquid contaminate when the compressed air system pressure drops below 0.35 barg. The standard A914 utilizes a standard manual threaded drain. Types A914D, A914P and A914 have a transparent polycarbonate bowl with an aluminium head.

The Type A914A has an aluminium bowl and head.







Type A914A



Type A914D



Type A914P,

Principal Specifications

| Туре | A914, A914A, A914D, A914P | |
|---------------------------|----------------------------------|--|
| Port Size | 1/4" BSPT | |
| Materials of Construction | | |
| Head | Anodised Aluminium | |
| Bowl | Polycarbonate/Anodised Aluminium | |
| Internals | Nylon | |
| Seals | Buna-N | |
| Maximum Temperature | 49°C ⁽³⁾ | |
| Maximum Pressure (1) | 10 barg ^[4] | |
| Minimum Pressure (2) | 0.35 barg | |
| Shipping Weight | 0.2kg | |
| Dimensions | 40 x 100mm | |

Ordering Information

| Туре | A914, A914A, A914D, A914P |
|---------------------------------|---------------------------|
| Differential Pressure Indicator | Not Included |
| Replacement Filter Cartridges | |
| No. Required | 1 |
| Box of 5 | 5/050-05-🗖 |
| Box of 10 | 050-05-🗖 |

Notes:

- 1. Maximum pressure ratings are for temperatures to 49°C. Please consult factory for maximum pressure ratings at elevated temperatures.
- Required for proper operation of piston drain, overnight drain.
- 3. Aluminium version maximum temperature is 120°C
- 4. Aluminium version maximum pressure is 17 barg.
- 5. A914D for overnight drain, A914P for piston drain, A914A for aluminium version.

Filters with Aluminium Heads and Plastic Bowls

Features

Lightweight and economical

Pressure up to 9 barg

Aluminium heads

The Q series is an excellent point-of-use filter where element visibility is required. Coalescing, particulate and adsorption elements are available.

The Q series consists of aluminium head and clear polyurethane bowl design. Porting in NPT and BSPF is standard with an operating pressure to 9 barg.



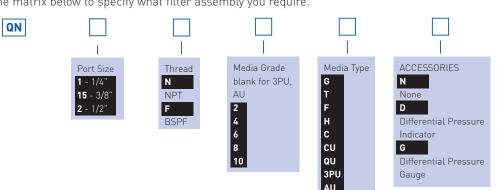
QN15N/Q2N Series

Principal Specifications

| Housing Model Number: | | | | |
|--------------------------|---|--|--|--|
| Port Size (NPT) | 3/8" 3/8" 3/8" 3/8" 3/8" 3/8" 3/8" 3/8" | | | |
| Element End Seals | No End Seals Urethane No End Seals Urethane | | | |
| Max. Pressure | 9 barg | | | |
| Max. Temp | 52°C | | | |
| Materials: | | | | |
| Head | Aluminium | | | |
| Bowl | Clear Polyurethane | | | |
| Internals | Stainless Steel/Acetal Plastic | | | |
| 0-Rings | Buna N | | | |
| Shipping Wt. | 0.38 kg | | | |

How to Order

Use the matrix below to specify what filter assembly you require.



For example: QN15N-10QUN for complete assembly, including element. QN15NN x for an empty housing.

Note: Although the element size is not included in the part number construction for this filter, the size, 10-025, is needed to order replacement elements. For example. 6C 10-025 x 8.



Compressed Air Filters 1/4" to 1 1/2" Line Size

Features

Utilises new XE Energy Saving Elements
Remove up to 99.9999% of 0.01micron oil,
water, dirt and micro-organisms
Integral filter life indicators
Automatic drains
Quick release housings
Modular fitting
Site glass to check autodrain operation
Lifetime warranty⁽¹⁾

Balston Coalescing Compressed Air Filters

Balston 2000 Series Coalescing Compressed Air Filters protect your equipment and delicate instruments from the dirt, water and oil found in compressed air. Balston Coalescing Filters remove contaminants at very high efficiency – up to 99.9999% for 0.01 micron particles and droplets. Liquid continuously drains from the filter cartridge, which allows the Balston Coalescing Filter to continue removing liquids for an unlimited time, without the loss of efficiency, flow capacity or pressure drop.

What's Creating The Cost?

For every 0·1 bar (2 psi) of differential pressure in a compressed air system, the energy requirement of the compressor is increased by 1% (Source: CAGI).

What's The Savings Solution?

The new "XE-Cartridges" from Parker exhibit a <0.1 bar (<2 psi) pressure drop improvement over the current generation cartridge. This produces cost savings of up to 379 EUR per year per installed filter cartridge depending on the number of work shifts.*

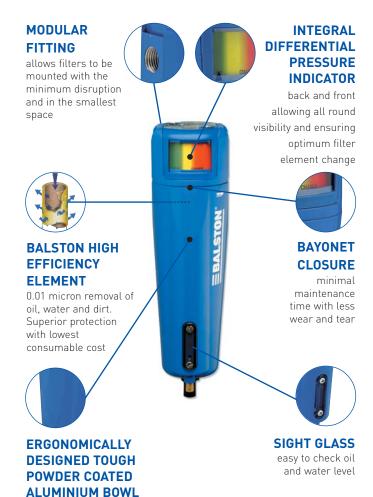
How Do I Order Them?

All 2000-series will include the XE type media (with no change in part number). For cartridge replacements be sure

to order the NEW "XE-Cartridges". Just simply add an "E" for energy savings to the end of the part number, see example below.

Previous Part # New Part # 100-18-DX 100-18-DXE

* Based on 14:86 euro / 100 Kwh as a European average electrical cost [Source: CIDEM, based on data provided by Eurostat ("Statistics in Focus", Environment and Energy)]. Savings are more significant in higher cost countries.



Filter Element Description

Bulk Water Removal

General Purpose Applications Such as Plant Compressed Air Instrument Air and Other Critical Air Requirements

Removal of Trace Compressor Oil Vapour

Commercially Sterile Air

For the reduction and elimination of excess liquids in gas streams. Excellent prefiltration for coalescing filters when extreme quantities of liquid contaminants are present. Use grade 100WS – contact Parker for further details.

Single stage filtration. Use a Grade DXE filter.

Two stage filtration is necessary. Use a Grade DXE followed by a Grade BXE filter. As a general rule, a Grade BXE filter should not be used alone.

For rare instances where even a trace amount of oil vapour can cause a problem, three stage filtration is necessary. Use a Grade DXE followed by a Grade BXE and a Type CI cartridge.

3-Stage filtration is necessary. Use a grade BXE followed by a CI and a SA cartridge.

Principal Specifications

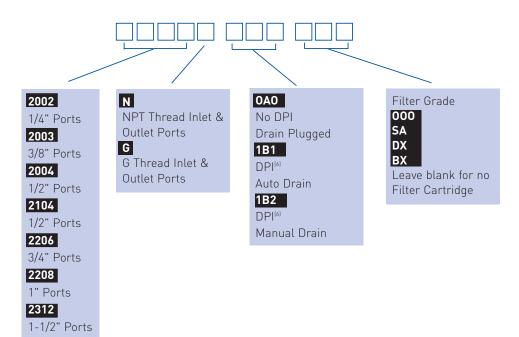
| Туре | 2002 | 2003 | 2004 | 2104 | 2206 | 2208 | 2312 |
|------------------------------------|------------|------------|------------|------------|-------------|-------------|-------------|
| Port Size | 1/4" | 3/8" | 1/2" | 1/2" | 3/4" | 1" | 1 1/2" |
| Materials of Construction | | | | | | | |
| Head | Aluminium | Aluminium | Aluminium | Aluminium | Anod. Alum. | Anod. Alum. | Anod. Alum. |
| Bowl | Aluminium | Aluminium | Aluminium | Aluminium | Steel | Steel | Steel |
| Internals | Nylon | Nylon | Nylon | Nylon | St. Steel | St. Steel | St. Steel |
| Seals | Buna-N | Buna-N | Buna-N | Buna-N | Buna-N | Buna-N | Buna-N |
| Maximum Temperature ⁽²⁾ | 54°C | 54°C | 54°C | 54°C | 54°C | 54°C | 54°C |
| Maximum Pressure (3) | 17 barg | 17 barg | 17 barg |
| Minimum Pressure ⁽⁴⁾ | 1 barg | 1 barg | 1 barg |
| Shipping Weight | 1.1 kg | 1.1 kg | 1.1 kg | 1.9 kg | 3.6 kg | 3.6 kg | 6.8 kg |
| Dimensions | 80 x 200mm | 80 x 200mm | 80 x 200mm | 80 x 280mm | 100 x 330mm | 10 x 330mm | 130 x 430mm |

Ordering Information

| Туре | 2002 | 2003 | 2004 | 2104 | 2206 | 2208 | 2312 |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Filter Cartridges | | | | | | | |
| No. Required | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Box of 5 ⁽⁵⁾ | 5/100-12-🗖 | 5/100-12- | 5/100-12- | 5/100-18-🗖 | 5/150-19- | 5/150-19- | 5/200-35-🗖 |
| Box of 10 ⁽⁵⁾ | 100-12-🗖 | 100-12- | 100-12- | 100-18-🗖 | 150-19- | 150-19- | 200-35-🗖 |
| CI Cartridge | | | | | | | |
| Box of 1 ⁽⁷⁾ | CI100-12-000 | CI100-12-000 | CI100-12-000 | CI100-25-000 | CI150-19-000 | CI150-19-000 | CI200-35-000 |

How to Order the Filter Assembly Part Numbers

Use the matrix below to specify what filter assembly you require.



Notes:

- Lifetime (20 year) Warranty included. Contact your local representative for details.
- 2 Automatic Drain and Differential Pressure Indicator are limiting factors. For temperature capabilities to 104°C, order assemblies without Auto Drain and Differential Pressure Indicator.
- 3 Maximum pressure ratings are for temperatures to 54°C. Please consult factory for maximum pressure ratings at elevated temperatures.
- 4 Required for proper operation of the float drain.
- 5 Indicate grade of filter cartridge by putting appropriate letter after ordering number. Example: 5/150-19-DXE, 200-35-BXE.
- 6 The DPI is sensitive in the range of 0-5 psi differential.
- 7 Automatic drains not supplied with assemblies containing Type CI cartridges.

Example: 1/2" NPT filter with DPI and Auto Drain with Grade DX Filter = 2104N-1B1-DX

Compressed Air Filters 2" to 3" Line Size

Features

Differential pressure gauges allow optimum element change-outs

External automatic drain supplied

Flow rates to 5,644m3/h (3,320SCFM)

All Aluminium construction, with a tough chromated and powder paint finish

Parker ZT-Series Compressed Air Filters

Parker ZT-Series compressed air filters protect your equipment and delicate instruments from the dirt, water and oil found in compressed air. ZT-Series housings are available with oil and water removal (coalescing), particulate and oil vapour removal elements.

ZT-Series housings have a maximum pressure to 16 barg, and port sizes to 3" giving a maximum flow rate of 5,644m3/h (3,320SCFM). An all aluminum construction with a tough powder paint finish provides a rugged construction offering a long life.



Principal Specifications

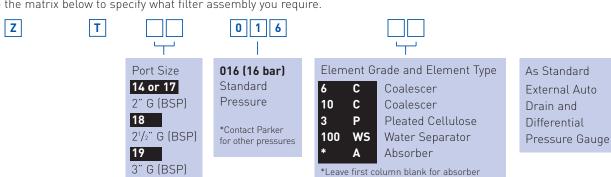
| Port Size | ZT14 2" | ZT17 2" | ZT18 2 ¹ /2" | ZT19 3" |
|------------------------------------|------------|------------|----------------------------|------------|
| Materials of Construction | | | | |
| Head | Aluminium | Aluminium | Aluminium | Aluminium |
| Bowl | Aluminium | Aluminium | Aluminium | Aluminium |
| Seals | Nitrile | Nitrile | Nitrile | Nitrile |
| Maximum Temperature | 79°C | 79°C | 79°C | 79°C |
| Maximum Pressure | 16 barg | 16 barg | 16 barg | 16 barg |
| Shipping Weight | 9.6 Kg | 12.3 Kg | 24.6 Kg | 27 Kg |
| Dimensions | 164x825mm | 164x1075mm | 250x1050mm | 250x1200mm |
| Additional length for Bowl removal | 520mm | 770mm | 600mm | 750mm |

Ordering Information

| Element Grade | ZT14 | ZT17 | ZT18 | ZT19 |
|---------------|--------------|--------------|--------------|--------------|
| 6C | 6CZ27-200 | 6CZ27-298 | 6CZ46-239 | 6CZ50-298 |
| 10C | 10CZ27-200 | 10CZ27-298 | 10CZ46-239 | 10CZ50-298 |
| 3P | 3PZ27-200 | 3PZ27-298 | 3PZ46-239 | 3PZ50-298 |
| A | AZ27-200 | AZ27-298 | AZ46-239 | AZ50-298 |
| 100WS | 100WSZ27-200 | 100WSZ27-298 | 100WSZ46-239 | 100WSZ50-298 |

How to Order the Filter Assembly Part Numbers

Use the matrix below to specify what filter assembly you require.



Compressed Air Filters DN 100 - DN 200

Features

Porting up to DN200 flange Flows to 22,828m³/h Large sump capacity Easy element replacement

General Description

Parker's large capacity coded filter vessels have been designed specifically for our coalescing elements and incorporate large sump capacities and generous exit cavities for maximum performance with low differential pressures.

With flow capacities to 22,828m³/h and pressure to 16 barg and optional materials of construction, most compressor source filtration requirements can be met.



Principal Specifications

| Housing Assembly Port Size | ZF20-016 DN100 | ZF30-016 DN100 | ZF40-016 DN150 | ZF60-016 DN150 | ZF80-016 DN200 | ZF100-016 DN200 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Materials of construction | | | | | | |
| Head | Carbon Steel |
| Bowl | Carbon Steel |
| Seals | Nitrile | Nitrile | Nitrile | Nitrile | Nitrile | Nitrile |
| Maximum Temperature | 79°C | 79°C | 79°C | 79°C | 79°C | 79°C |
| Maximum Pressure | 16 barg |
| Shipping Weight | 106 | 106.5 | 148 | 208 | 230 | 366 |
| Dimensions (mm) | 500 x 1440 | 500 x 1440 | 640 x 1590 | 790 x 1650 | 790 x 1730 | 840 x 1780 |
| Additional length for bowl removal (mm) | 550 | 550 | 550 | 550 | 550 | 550 |
| Number of Elements per housing | 2 | 3 | 4 | 6 | 8 | 10 |

| Housing | Element Grade and Type | Element Size | Number of Elements |
|---------|------------------------|--------------|-----------------------|
| ZF20 | 6C, 10C, 3P, A, 100WS | Z27-298 | 2 |
| ZF30 | 6C, 10C, 3P, A, 100WS | Z27-298 | 3 |
| ZF40 | 6C, 10C, 3P, A, 100WS | Z27-298 | 4 |
| ZF60 | 6C, 10C, 3P, A, 100WS | Z27-298 | 6 |
| ZF80 | 6C, 10C, 3P, A, 100WS | Z27-298 | 8 |
| ZF100 | 6C, 10C, 3P, A, 100WS | Z27-298 | 10 |

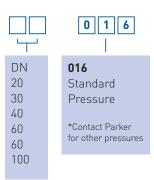
| Element | Dry (bar) | Wet (bar) |
|---------|-----------|-------------|
| 6C | 0.07 | 0.21 - 028 |
| 10C | 0.03 | 0.07 - 0.10 |
| 3P | 0.02 | N/A |
| 100WS | ←0.02 | ←0.02 |
| Α | 0.07 | N/A |

Examples:

ZF20 housing with grade 10C element: replacement part number = 10CZ27-298 (2 pieces per housing) ZF80 housing with grade 3P element: replacement part number = 3PZ27-298 (8 pieces per housing)









| | ı | | | | | | | | | | | |
|---------------|--|-------------------|--|--|--|--|--|--|--|--|--|--|
| Elem | Element Grade and Element Type | | | | | | | | | | | |
| 6 C Coalescer | | | | | | | | | | | | |
| 10 | 10 C Coalescer | | | | | | | | | | | |
| 3 | Р | Pleated Cellulose | | | | | | | | | | |
| 100 | WS | Water Separator | | | | | | | | | | |
| * | * A Absorber | | | | | | | | | | | |
| *Leave | *Leave first column blank for absorber | | | | | | | | | | | |

As Standard External Auto Drain and Differential Pressure Gauge

Stainless Steel Filters for Compressed Air

Ideal for pulp mills, steel and metal fabrication plants, refineries and chemical plants

Balston Stainless Steel Filters protect your equipment and delicate instruments from the dirt, water and oil usually found in compressed air and other gases. These filters will remove contaminants at a very high efficiency - up to 99.99% for 0.1 micron particles and droplets. Liquid releases from the filter cartridge to an automatic drain as rapidly as it enters the filter. This allows the filter to continue removing liquids for an unlimited time without loss of efficiency or flow capacity. Select 1/4" to 1" line filters are constructed of 304 stainless steel and are designed to hold up to the harshest environments.



All 304 stainless steel construction, ideal for harsh environments: food processing plants, chemical plants, refineries, pulp mills.

Remove 99.99% of 0.01 micron particles of oil, water and dirt from compressed air and other gases

Continuously trap and drain liquids

Remove trace oil vapour with adsorbent cartridges

Model 6002

The 6002 series models are 1/4" line size filters designed for lower flow systems and installations with space limitations. It is offered with two drain options, a manual drain or an auto float drain for maintenance free operation.

Model 6004

The 6004 series models are 1/2" line size filters designed for moderate flow rate systems. This series has increased liquid holding capacity which safeguards sensitive end use points from system upsets and morning start ups.

Model 6006 and 6008

The 6006 and 6008 series models are 3/4" and 1" line size filters respectively. These are designed for high flow rate systems servicing mutiple end use points. These are also offered with a high capacity auto float drain option.



Balston grade SA filter cartridges, rated at 99.9999+% efficiency for 0.01 micron particles, is at least 30 times better than the accepted standard for sterile air filters developed by independent research organisations in the U.S. and U.K. (request bulletin T1-105A for a detailed discussion on Balston filter efficiency rating procedure and Bulletin T1-935 for an independent test report on Balston Sterile Air Filters). Balston Sterile Air Filters are in full compliance with the requirements of the FDA.

Steam Sterilisation Procedure

In installations where the sterile air filter requires steam sterilisation, we recommend the following procedures:

The steam sterilisation pressure should not exceed 4 barg. Preferably, it should be held to 3 barg or less. A typical sterilisation cycle is 2 barg steam for 30 minutes. Steaming time can be increased as desired without harm to the filter cartridges. The steam flow should not exceed the normal air flow for the unit. To ensure no build up of condensate in the housing, condensate should be drained from the filter by a condensate drain valve during the steaming process. The cleanliness of the steam is an important factor influencing the life of the Sterile Air Filter cartridges. Parker strongly recommends using Model 23 Steam Filters to ensure optimum operating life (see page 36). When autoclaving, the Grade SA filter cartridges will tolerate temperatures to 149°C in dry gas. Viton® or other heat resistant seals should be used in the housing.

Viton® is a registered trademark of Dupont Dow Elastomers.

Principal Specifications

| Model | 6002N | 6004N | 6006N | 6008N |
|---------------------------|---------------------|---------------------|---------------------|---------------------|
| Port Size | 1/4" NPT | 1/2" NPT | 3/4" NPT | 1" NPT |
| Materials of Construction | | | | |
| Head | 304 Stainless Steel | 304 Stainless Steel | 304 Stainless Steel | 304 Stainless Steel |
| Bowl | 304 Stainless Steel | 304 Stainless Steel | 304 Stainless Steel | 304 Stainless Steel |
| Internals | Nylon | Nylon | Stainless Steel | Stainless Steel |
| Seals | Buna-N Food Grade | Buna-N Food Grade | Buna-N Food Grade | Buna-N Food Grade |
| Maximum Temperature (1) | 49°C | 49°C | 49°C | 49°C |
| Maximum Pressure (2) | 12 barg | 12 barg | 12 barg | 12 barg |
| Minimum Pressure (3) | 1 barg | 1 barg | 1 barg | 1 barg |
| Shipping Weight | 1.6 kg | 1.8 kg | 5 kg | 5.5 kg |
| Dimensions | 7 x 18mm | 7 x 25mm | 10 x 25mm | 10 x 30mm |

Notes:

Replacement Filter Cartridge Ordering Information

| Model P/N | 6002 | 6004 | 6006 | 6008 |
|-------------------------------|----------------|----------------|-----------------|-----------------|
| Replacement Filter Cartridges | | | | |
| Number required | 1 | 1 | 1 | 1 |
| Box of 5 | 5/100-12-(*X)E | 5/100-18-(*X)E | 5/200-176-(*X)E | 5/200-185-(*X)E |
| Box of 10 | 100-12-(*X)E | 100-18-(*X)E | 200-176-(*X)E | 200-185-(*X)E |
| Box of 10 | 100-12-SA | 100-18-SA | 200-176-SA | 200-185-SA |
| CI Cartridges (box of 1) | CI100-12-000 | CI100-18-000 | CI200-176-000 | CI200-185-000 |

^{(*}replace with B or D)

Ordering Information

| | N | | | How to order the Filter Ass |
|---------------------------|------------------------------------|-------------------------|-------------------------------------|--------------------------------|
| 6002 | | 0A2 | Filter Grade | Build your owr |
| 1/4" Ports 6004 | NPT Thread Inlet & Outlet Ports | Manual Drain 0A1 | 000 | filter assembly guideline matr |
| 1/2" Ports | outlet i or to | Auto Drain | SA | and specify you |
| 6006 3/4" Ports | | | DX | number. Example: |
| 6008 | | | вх | 1/2" filter and |
| 1" Ports | | | Leave blank for no filter cartridge | with Grade DX = 6004N-0A1-[|

sembly

vn custom ly using the trix (left) our model d Auto Drain

XE Filter -DX.

Flow Rates m³/hr at 0.14 barg drop at indicated line pressure.

| Filter Housing Model | Port Size | Filter Cartridge Grade | Barg | | | | | | | | |
|----------------------|-----------|------------------------|------|-----|-----|-----|-----|-----|-----|------|------|
| | | | 0.14 | 1.4 | 3 | 6 | 7 | 9 | 10 | 14 | 17 |
| 6002N | 1/4" | DXE | 15 | 32 | 66 | 87 | 107 | 129 | 153 | 199 | 246 |
| | | BXE | 5 | 14 | 19 | 36 | 42 | 53 | 61 | 80 | 99 |
| | | CI | 3 | 8 | 12 | 20 | 25 | 31 | 37 | 48 | 59 |
| | | SA | - | 14 | 19 | 36 | 42 | 53 | 61 | - | - |
| 6004N | 1/2" | DXE | 32 | 70 | 110 | 192 | 233 | 282 | 333 | 437 | 537 |
| | | BXE | 15 | 32 | 51 | 87 | 107 | 129 | 153 | 199 | 246 |
| | | CI | 10 | 20 | 32 | 54 | 66 | 82 | 95 | 124 | 153 |
| | | SA | - | 32 | 51 | 87 | 107 | 129 | 153 | - | - |
| 6006N | 3/4" | DXE | 63 | 133 | 209 | 364 | 440 | 535 | 630 | 822 | 1013 |
| | | BXE | 17 | 36 | 58 | 95 | 119 | 144 | 172 | 223 | 275 |
| | | CI | 14 | 27 | 44 | 75 | 90 | 110 | 129 | 168 | 207 |
| | | SA | - | 36 | 58 | 95 | 119 | 144 | 172 | - | - |
| 6008N | 1" | DXE | 93 | 195 | 308 | 533 | 646 | 787 | 928 | 1208 | 1490 |
| | | BXE | 19 | 39 | 63 | 109 | 131 | 160 | 189 | 245 | 302 |
| | | CI | 17 | 34 | 54 | 95 | 114 | 139 | 163 | 212 | 262 |
| | | SA | - | 34 | 70 | 116 | 144 | 177 | 209 | - | - |

¹ Max. temperature with auto drain. Max. temperature with manual drain is 135°C. 2 Max. pressure with auto drain. Max. pressure with manual drain is 17 barg 3 Required for proper operation of auto drain.

Dual-Stage Filters for Breathing Air and Food Quality

Features

Connection Sizes to 1"

Flows up to 127 m³/h (75 SCFM)

Maximum pressure 34 barg (500 psig)

Maximum temperature 79°C (175°F)

1/8" drain port with manual drain as standard

General Description

BA-series filters are designed to be used as point-of-use breathing air filters. The BA-series combination unit contains both a fine grade coalescing filter element and an activated carbon vapour removal element.

In addition to breathing air the BA-series filters may also be used in applications requiring compressed air to be free of odour or taste bearing hydrocarbons e.g. food contact. Replacement elements are supplied in a convenient repair kit. The kit includes one coalescing element, two activated carbon adsorber elements and replacement seals. The kit includes two adsorber elements because the coalescing stage will routinely outlive the extremely sensitive adsorber element.

THE BA-SERIES WILL NOT REMOVE TOXIC GASES FROM THE AIR STREAM. A CARBON MONOXIDE MONITOR IS RECOMMENDED.

How to Order Complete Dual-Stage Assemblies U BA Series Name Port Type Port Bowl Element Grade Element Type End Seal Accessory Designator Connection for preinstalled accessories U Size **NPT** Long Urethane F-G Auto Drain S 1/4" (Standard on all Note: Designate first stage; grade and media type, Thread Standard second stage; media type will always be "A" media, elements) 15 **DPI** Indicator and is not designated in the part number (S available on 3/8 (1/4" - 1/2" only) 3/4" and 1" port G size only) DPG Gauge No Accessories 3/4 Note: Bowl length is determined by the flow rate required. See Flow Rates on page 18. A+D (1/4" - 1/2" only) Υ **How to Order BA-Series Replacement Elements** A+G Κ BA U Repair Kit Series Name Port End Seal Element Grade Element Type Bowl Connection Size Long Urethane 1/4" (Standard on all Standard elements) 15 (S available on 3/8 3/4" and 1" port size only) Note: Each repair kit contains (1) coalescing element, (2) activated carbon adsorber elements and replacement seals

Medium, High Pressure and Stainless Steel Filters for Gas Filtration

ZJ-Series

ZJ-Series filters are used in a number of applications, ranging from breathing air for scuba divers, to high-pressure hydraulic circuit testing, to a variety of uses in the alternative fuel industry.

The filter housings and the replaceable elements used in this product line have an extremely robust construction, specially designed for use in system pressures up to 345 barg. Four housing sizes are available with connections ranging from 1/2" to 2"; temperatures up to 176°C and flows up to 66,000 m3/hr at 350 barg.

For further technical information please see pages 32 and 33 of Catalogue S3.2.206.

- 1/2" 2 Line Size
- Pressure Rating 350 bar
- ATEX approved option



Stainless Steel Filters

Filter elements available for removing oil, water, dirt, gaseous hydrocarbons. Steam and sterile filtration also available.

316 Stainless Steel construction pressures to 345 barg. Temperature to 204°C.

For further technical information please see page 48 of Catalogue S3.2.206.



Parker Compressed Gas Filters

Parker high flow rate compressed gas filters offer exceptionally high efficiency coalescing filtration of compressed gas at high flow rates. Specifically designed to remove suspended liquids and dirt from pipeline natural gas, the housings are CE PED stamped to 100 barg. Equipped with Parker Finite Filter Cartridges, the filters are rated at 93% retention of 0.01 micron and essentially 100% retention of 1 micron liquid droplets and particles. Since the coalesced liquid drains continuously from the filter cartridges as rapidly as it collected, the filters have an unlimited capacity for liquid removal.

Series ZA are available with inlet and outlet ports covering the range from DN50 to DN200 pipe sizes. The standard carbon steel units have pressure ratings from 16 - 100 barg.

For further technical information please see pages 34 and 35 of Catalogue S3.2.206.



Flow Rates For Sizing Filter Housings

m³/h and SCFM

Refer to Principal Specification Charts in each product data sheet for maximum pressure rating of each housing

| Filter Housing Type | Filter Grade Element | Flow ra | ates (m³/ | h), at in | dicated li | ne press | ure (bar | g) | | Flow r | ates (SCF | M), at ind | icated lin | e pressu | re (psig) | | |
|---|--------------------------|---------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------------|
| Line Pressure | | 1 | 3 | 6 | 7 | 9 | 10 | 14 | 17 | 20 | 40 | 80 | 100 | 125 | 150 | 200 | 250 |
| A94A, A914, A914D, A914P (1/4") 2002 (1/4"), 2003 (3/8"), 2004 (1/2") | DXE BXE DXE BXE | 15 4 32 14 | 22 7 66 19 | 41 12 87 36 | 49 14 107 42 | 61 15 129 53 | 73 20 153 61 | 93 25 199 80 | 114 29 246 99 | 9 2 19 8 | 13 4 39 11 | 24 7 51 21 | 29 8 63 25 | 36 9 76 31 | 43 12 90 36 | 55 15 117 47 | 67 17 145 58 |
| 2104 (1/2") | CI DXE BXE CI | 70 32 20 | 12 110 51 32 | 20 192 87 54 | 25 233 107 66 | 31 282 129 82 | 37 333 153 95 | 48 437 199 124 | 59 537 246 153 | 5 41 19 12 | 7 65 30 19 | 12 113 51 32 | 15 137 63 39 | 18 166 76 48 | 22 196 90 56 | 28 257 117 73 | 58 35 316 145 90 |
| 2206 (3/4") | DXE BXE CI | 133 36 27 | 209 58 44 | 364 95 75 | 440 119 90 | 535 144 110 | 630 172 129 | 822 223 168 | 1013 275 207 | 78 21 16 | 123 34 26 | 214 56 44 | 259 70 53 | 315 85 65 | 371 101 76 | 484 131 99 | 596 162 122 |
| 2208 (1") | DXE BXE CI | 195 39 34 | 308 63 54 | 533 109 95 | 646 131 114 | 787 160 139 | 928 189 163 | 1208 245 212 | 1490 302 262 | 115 23 20 | 181 37 32 | 314 64 56 | 380 77 67 | 463 94 82 | 546 111 96 | 711 144 125 | 877 178 154 |
| 2312 (1-1/2") | DXE BXE CI | 345 78 56 | 542 126 88 | 941 219 155 | 1138 263 187 | 1386 321 228 | 1636 379 268 | 2131 493 350 | 2627 608 430 | 203 46 33 | 319 74 52 | 554 129 91 | 670 155 110 | 816 189 134 | 963 223 158 | 1254 290 206 | 1546 358 |
| BA1L (1/4") | 4 | 6 8 | 9 | 15 20 | 17 24 | 21 29 | 25 35 | 32 45 | 40 55 | 3 4 | 5 7 | 8 12 | 10 14 | 12 17 | 14 20 | 19 26 | 253 23 32 |
| BA15L (3/8") | 4 6 | 7 9 | 10 13 | 17 23 | 21 28 | 25 34 | 30 40 | 39 51 | 48 63 | 4 5 | 6 | 10 13 | 12 16 | 15 19 | 17 23 | 22 30 | 32 28 37 32 42 |
| BA2L (1/2") | 4 6 | 8 10 | 12 15 | 20 26 | 24 31 | 29 38 | 35 44 | 45 58 | 55 71 | 4 5 | 7 9 | 12 15 | 14 18 | 17 22 | 20 26 | 26 34 | 32 42 |
| BA3S (3/4") | 4 6 | 13 16 | 21 25 | 36 43 | 43 51 | 52 63 | 61 74 | 80 96 | 99 118 | 8 9 | 12 14 | 21 25 | 25 30 | 30 37 | 36 43 | 47 56 | 58 69 |
| BA3L (3/4") | 4 6 | 21 31 | 33 49 | 57 85 | 68 102 | 83 125 | 98 147 | 128 191 | 157 236 | 12 18 | 19 29 | 33 50 | 40 60 | 49 73 | 57 86 | 75 112 | 92 138 |
| BA4S (1") | 4 6 | 18 24 | 29 37 | 50 64 | 60 77 | 73 94 | 86 110 | 112 144 | 138 177 | 11 14 | 17 21 | 29 37 | 35 45 | 43 55 | 50 65 | 66 84 | 81 104 |
| BA4L (1") | 4 6 | 26 39 | 41 61 | 71 106 | 85 128 | 104 156 | 122 183 | 160 239 | 197 295 | 15 23 | 24 36 | 41 62 | 50 75 | 61 91 | 72 108 | 94 140 | 115 173 |

Housing Selection Chart ZT and ZF series

Rated Flows: m3/hr @ 7bar and 20°C (SCFM @ 100 psiand 70°F). For other pressures and temperatures please see alternative housing selection below

| Housing Assembly | Port Size | | | Media | Grade | |
|--|--|--|--|--|---|---|
| | | 3P | 100WS | 10C | 6C | A |
| ZT14 ZT17 ZT18 ZT19 ZF20 ZF30 ZF40 | 2" 2" 2 1/2" 3 JN 100 DN 100 DN 150 | 1526 (898) 2283 (1344) 3058 (1800) 4027 (2370) 4566 (2687) 6848 (4031) 9131 (5374) | 1526 (898) 2283 (1344) 3058 (1800) 4027 (2370) 4566 (2687) 6848 (4031) 9131 (5374) | 1526 [898] 2283 [1344] 3058 [1800] 4027 [2370] 4566 [2687] 6848 [4031] 9131 [5374] | 915 (539) 1370 (806) 1920(1130) 2416 (1422) 2739 (1612) 4109 (2418) 5479 (3225) | 915 [539] 1370 [806] 1920[1130] 2416 [1422] 2739 [1612] 4109 [2418] 5479 [3225] |
| ZF60 ZF80 ZF100 | DN 150 DN 200 DN 200 | 13697 (8062) 14942 (100749) 22828 (13436) | 13697 (8062) 14942 (100749) 22828 (13436) | 13697 (8062) 14942 (100749) 22828 (13436) | 8218 (4837) 10957 (6449) 13697 (8062) | 8218 (4837) 10957 (6449) 13697 (8062) |

Alternative Housing Selection Chart

for applications with conditions other than 7 bar and 20°C (standard conditions)

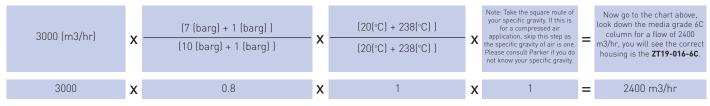
Converting Actual Application Conditions to Standardised Conditions

As the required size of the filter is affected not only by flow but also by operating pressure and operating temperature, it is necessary to convert those actual conditions to standardised conditions (7 bar and 20°C). The calculated adjusted flow rate can be used to choose the appropriate filter in the chart above. When using the chart choose the closest flow rate from the appropriate media grade column.

Equation:

| Flow | | Pressure | | Temperature | | Specific Gravity | | Adjusted Flow Rate |
|------------------------------------|---|--|----|--|---|--------------------|---|--|
| Actual System Flow Rate (m3/hr) | X | (7 (barg) + 1 (barg)) (System Pressure (barg) + 1 (barg)) | ٠. | (System Temp (°C) + 238(°C)) (20(°C) + 238(°C)) | X | √ Specific gravity | = | Adjusted Flow Rate (At 7 barg and 20°C) |

For grade 6C filter, with an actual flow rate of 3000m3/hr of air, an actual pressure of 10 barg and temperature of 20°C. The equation would go as follows



Drying Compressed Air with Parker Membrane Technology

Features

Membrane Dryers offer atmospheric dew points to -40°C for point-of-use critical applications

The 5000 Series Membrane Air Dryers offer plant-wide pressure dew points to 2°C for compressed air systems

Unattended 24-hour operation and quick easy maintenance

Explosion-proof and require no electricity Silent operation

Lightweight and compact Environmentally friendly with no refrigerants or freons

Applications

Instrument air for calibration of sensitive equipment

HVAC systems

Pneumatic equipment

Instrument cabinets

Electronic equipment blow-off air

CNC/CMM machinery

Prevention of freeze-ups

Fire and sprinkler systems

Pressurizing electrical cabinets

Pneumatic controls

Provide clean air for laser operation

Dry air for hazardous areas

General plant compressed air

Chemical blanketing and packaging

Process controls

Electronics/Dry boxes

Laser optics

Balston Membrane Air Dryers

Utilise innovative membrane technology to provide clean, dry, compressed air at atmospheric dew points to -40°C. This high efficiency, durable technology is quickly becoming the standard for drying compressed air. Balston Membrane Air Dryers require no electricity and contain no refrigerants or freons, making them environmentally sound. Balston membrane air dryers protect critical applications from the problems caused by moisture.



Phase I - Pre-Filtration

Prior to entering the membrane drying module, the compressed air passes through a high efficiency coalescing filter to remove oil and water droplets and particulate contamination with an efficiency of 99.99% at 0.01 micron. The liquids removed continuously drip from the filter cartridge into the bottom of the housing, where they are automatically emptied by an autodrain assembly. The air leaving the prefilter, therefore, is laden only with water vapour, which will be removed by the membrane module.

Phase II - Membrane Drying

The water vapour in the compressed air is removed by the principle of selective permeation through a membrane. The membrane module consists of bundles of hollow membrane fibres, each permeable only to water vapour. As the compressed air passes through the centre of these fibres, water vapour permeates through the walls of the fibre and dry air exits from the other end of the fibre. A small portion of the dry air (regeneration flow) is directed along the outside of the membrane fibre to carry away the surrounding moisture-laden air. The remainder of the dry air is piped to the application.

Parker 5000 Series SMART Dryer System Membrane Air Dryers

Features

State-of-the-art membrane technology

2°C pressure dew point - 13% dryer than typical refrigerant dryers

Durable - will hold up to the dirtiest compressed air system

No requirement for costly maintenance contracts

Output capacities to 1,020m3/h (600 scfm)

Applications

General Compressed Air Mainlines

Process Controls

HVAC Systems

Instrument Cabinets

CNC/CMM Machinery

Fire and Sprinkler Systems

Pneumatic Controls

Chemical Blanketing and Packaging

Electronics/Dry Boxes

Laser Optics

Benefits

Easy to install and quick to maintain

No refrigerants or freons - environmentally friendly

Similar configuration of inlet/outlet ports to that of refrigerant dryers for easy replacement installation



State-of-the-Art Membrane Technology

Water vapour from the compressed air supply passes through the hollow fibres of the membrane. At the same time, a small portion of the dry air product is redirected along the length of the fibres to sweep out the water vapour which has permeated the membrane. The moisture-laden sweep gas is then vented to the atmosphere and clean, dry air is supplied to the compressed air distribution system. The SMART Dryer utilises sophisticated technology to monitor the air consumption and automatically adjusts the regenerative sweep flow as required. The variable sweep system results in significant energy savings and low operating

costs. The SMART Dryer technology offers an advantage over refrigerant air drying technology as it does not produce condensate. An average 170 m³/h (100 CFM) compressor system can produce up to 6,814 litres (1,500 gallons) of oily condensate per year. The refrigerant dryer condenses it into an oily/water emulsion which has to be disposed of, at a high cost to you. The Membrane Air Dryer is designed to operate continuously, 24 hours a day, 7 days a week. The only maintenance required is changing the prefilter cartridges twice a year, which takes approximately 5 minutes and requires no tools.

Why buy a SMART Dryer instead of a cycling refrigerant air dryer?

The Smart Dryer can save you money and offer better performance. Refrigerant and desiccant air dryers, sized to meet worst-case operating conditions are often designed to run continuously regardless of the system's demands, when in fact the actual system conditions and demands are far less. The result is significant operating costs in wasted energy and wear and tear on refrigerant compressors, cooling systems, drains and other componentry. The SMART Dryer does not require refrigerant, compressors, cooling systems or other componentry that carries high operating costs (energy) and maintenance costs. The SMART Dryer utilises sophisticated technology to monitor the air consumption and automatically adjusts the regenerative sweep flow as required. The variable sweep system results in significant energy savings and low operating costs with no fluctuation in output dew points.

Additionally, there are no freons that need recharging, no compressors to be serviced and no cooling coils to be cored and cleaned. Most importantly, the SMART Dryer is producing a constant 2°C pressure dew point which is typically 13% dryer than a refrigerant air dryer (ppm weight in air).

The Parker Compressed Air System Dryer provides clean, dry compressed air from an existing compressed air supply through the use of state-of-the-art membrane technology. The dryers are capable of delivering dry air with a dew point of 2 °C at 7 Barg. No electrical supply is required to use the Parker Membrane Air Dryers. Each membrane air dryer is equipped with high efficiency coalescing prefilters to remove oil, water, and particulate contamination.

Principal Specifications

| Model Number | SMRT5100 | SMRT5200 | SMRT5300 | SMRT5400 | SMRT5500 | SMRT5600 |
|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Max Flow Rate @2°C dew point | 170 m³/h (100 SCFM) | 340 m³/h (200 SCFM) | 510 m³/h (300 SCFM) | 680 m³/h (400 SCFM) | 850 m³/h (500 SCFM) | 1,020 m³/h (600 SCFM) |
| Dew point (1) | 2°C | 2°C | 2°C | 2°C | 2°C | 2°C |
| Min/Max Inlet Air Temp. | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C |
| Ambient Temperature Range | 4°/43°C | 4°/43°C | 4°/43°C | 4°/43°C | 4°/43°C | 4°/43°C |
| Min/Max Inlet Pressure | 4.1/10 barg | 4.1/10barg | 4.1/10barg | 4.1/10barg | 4.1/10barg | 4.1/10barg |
| Max Compressed | | | | | | |
| Air Requirement | 191 m³/h (113 SCFM) | 384 m³/h (226 SCFM) | 576 m³/h (339 SCFM) | 768 m³/h (452 SCFM) | 960 m³/h (565 SCFM) | 1,152 m³/h (678 SCFM) |
| Max Pressure Drop Inlet/Outlet Port Size | 0.7 barg 1¹/₂"NPT(Male) | 0.7 barg 2"NPT(Male) | 0.7 barg 2"NPT(Male) | 0.7 barg 2"NPT(Male) | 0.7 barg 2¹/2"NPT(Male) | 0.7 barg 3"NPT(Male) |
| Electrical Requirements Dimensions | None 320x1120x 400mm | None 320x1120x 400mm | None 320x1120x 680mm | None 320x1120x 680mm | None 320x1120x 950mm | None 320x1120x 950mm |
| Shipping Weight | 80 kg | 102 kg | 136 kg | 170 kg | 215 kg | 250 kg |

Ordering Information

| Model Number | SMRT5100 | SMRT5200 | SMRT5300 | SMRT5400 | SMRT5500 | SMRT5600 |
|-------------------------------------|------------------------------|-------------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|
| Coalescing Prefilter Assembly | 2312N-1B1-DX 2312N-1B1-BX | | | ZT14-016-10C ZT14-016-6C | | ZT17-016-10C ZT17-016-6C |
| Replacement Prefilter Cartridges | 200-35-DXE 200-35-BXE | 10CZ27-200 6CZ27-200 | 10CZ27-200 6CZ27-200 | 10CZ27-200 6CZ27-200 | 10CZ27-298 6CZ27-298 | 10CZ27-298 6CZ27-298 |

Notes:

1 Dew point specified for saturated inlet air at 38°C and 7 barg. Outlet flow and dew point will vary for other inlet conditions. Aftercooler and condensate separator may be required to reduce air temperature upstream of dryer.



IT Series Membrane Air Dryers

Offer a reliable, efficient and economical alternative to pressure swing and refrigerant dryer technologies

Require no electricity thus lowering operating costs

Produce +2°C pressure dew point, ideal for critical points of use

No moving parts

Silent operation

No desiccant to change

Applications

Food processing and automation

Electronics/Dry Boxes

Co-ordinate Measurement Machines

Critical Pneumatic Valves

Protection of Pneumatic Instrumentation

Low dew point Instrument Air

Pneumatic Equipment

Pressurizing Electronic Cabinets

Dry Air for Hazardous Areas



Easy to Operate and Maintain

Installation consists of simply connecting a standard compressed air line to the inlet and connecting the outlet to your application. The unit is ready for trouble-free operation. This system is designed to operate 24 hours per day, 7 days per week.

Once the system is operating, it requires little monitoring. The only maintenance involves changing the coalescing prefilter cartridges periodically. The membrane module does not require any maintenance.

Why Choose a Balston +2°C Membrane Dryer?

There are many variables that will affect the output specification of compressed air. By the time air reaches its intended point of use, changes in pressure, temperature and dew point can all contribute to potential contamination. As capital equipment tolerances become tighter and more sensitive to this contamination, maintenance costs will escalate if equipment is not adequately protected. In cases where standard air filtration is not sufficient or where the reliability, performance and operating cost of older dryer technologies is becoming more significant, a Balston Membrane Dryer provides a reliable and economical alternative.

IT Series Point of Use Membrane Dryers

Balston Membrane Air Dryers combine superior coalescing filtration technology with a proven, innovative membrane system to supply clean, dry, +2°C dew point compressed air. The Balston Membrane Dryers are available in 6 different models which can deliver compressed air at flow rates up to 85 m³/hr with a +2°C dew point. The systems are engineered for easy installation, operation and long term reliability. By incorporating high efficiency coalescing filtration and the highest efficiency membrane available, the systems provide low cost operation with the lowest minimal maintenance.

Principal Specifications

| Туре | IT0010-35 | IT0030-35 | IT0080-35 | IT0150-35 | IT0250-3560 | IT0250-3500 | IT0500-3560 | IT0500-3500 |
|-------------------------|---------------|---------------|----------------|----------------|---------------|---------------|--------------|--------------|
| | | | | | | | | |
| Inlet Port Size (NPT) | 1/4" | 1/4" | 1/4" | 1/2" | 1/2" | 1/2" | 1/2" | 1/2" |
| Outlet Port Size (NPT) | 1/4" | 1/4" | 1/4" | 1/2" | 1" | 1" | 1" | 1" |
| Min/Max Inlet Air Temp. | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C |
| Ambient Temp. Range | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C |
| Min/Max Inlet pressure | 4.1/10barg | 4.1/10barg | 4.1/10barg | 4.1/10barg | 4.1/6.9barg | 6.9/10barg | 4.1/6.9barg | 6.9/10barg |
| Compressed Air | | Total | al Air cancur | ontion - Pogo | neration Flow | . Outlot Flow | | |
| Requirement | | 100 | at All Collsul | iiption = Rege | neration rtow | + Outlet Flow | | |
| Max. Pressure Drop | 0.2bar | 0.2bar | 0.2bar | 0.2bar | 0.34bar | 0.334bar | 0.34bar | 0.34bar |
| Wall Mountable | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Mechanical Separator | F14F17B | F06F18B | F06F18B | F07F38B | F07F38B | F07F38B | F07F38B | F07F38B |
| Included | | | | | | | | |
| Coalescing | 8A02N-0B2-BX | 2002N-0B1-BX | 2002N-0B1-BX | B2004N-1B1-DX | 2104N-1B1-DX | 2104N-1B1-DX | 2208N-1B1-DX | 2208N-1B1-DX |
| Prefilters (1) | 1 | 1 | 1 | B2004N-0B1-BX | 2104NN-0B1-BX | 2104N-0B1-BX | 2208N-0B1-BX | 2208N-0B1-BX |
| Electrical | None | None | None | None | None | None | None | None |
| Requirements | None | None | None | None | None | None | None | None |
| Dimensions (cm) (LxWxD) | 44.5x20.3x6.3 | 45.2x10.5x6.3 | 61x28.2x6.3 | 63.5x40.6x11.4 | 66x45.7x15.2 | 66x45.7x15.2 | 99x53.3x15.2 | 99x53.3x15.2 |
| Shippinf Weight (kg) | 0.73 | 3 | 3 | 6.75 | 11.11 | 11.1 | 16.55 | 16.55 |
| | | | | | | | | |

Notes:

Flow Rates at 2°C Pressure dew point (1)

| Model Number | IT0010-35 | IT0030-35 | IT0080-35 | IT0150-35 | IT0250-3560 | IT0250-3500 | IT0500-3560 | IT0500-3500 |
|--|--------------|-----------------|----------------|-----------|-------------|-------------|-------------|-------------|
| Flow @ 7 barg inlet pressure (m3/hr) | 1.7 | 5.1 | 13.6 | 25.5 | 42.5 | N/A | 85 | N/A |
| Flow @ 7.1/10 barg inlet pressure (m3/hr | 1.7 | 5.1 | 13.6 | 25.5 | N/A | 42.5 | N/A | 85 |
| Regeneration Flow @ 7 barg (m3/hr) | 0.4 | 0.9 | 2.5 | 4.6 | 7.6 | 7.6 | 15.2 | 15.2 |
| (1) Dew point specified for | or saturated | inlet air at 38 | 3° and 7 barg. | | | | | |

Ordering Information for technical assistance please call +44 (0)1622 723300

| Model Number | IT0010-35 | IT0030-35 | IT0080-35 | IT0150-35 | IT0250-3560 | IT0250-3500 | IT0500-3560 | IT0500-3500 |
|-----------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Replacement Pre | filter Cartrid | ges | | | | | | |
| Stage 1 | PS403 | PS702 | PS702 | PS802 | PS802 | PS802 | PS802 | PS802 |
| Stage 2 | - | - | - | 5/100-12-DXE | 5/100-18-DXE | 5/100-18-DXE | 5/100-19-DXE | 5/150-19-DXE |
| Stage 3 | 5/050-05-BXE | 5/100-12-BXE | 5/100-12-BXE | 5/100-12-BXE | 5/100-18-BXE | 5/100-18-BXE | 5/150-19-BXE | 5/150-05-BXE |

¹ If compressed air is extremely contaminated a grade DX prefilter should be installed directly upstream from the membrane dryer.

Point-of-Use Membrane Dryers Dry Air for Critical Applications

Features

Provide clean, dry compressed air
Offer a reliable, efficient and economical
alternative to pressure swing and
refrigerant dryer technologies
Require no electricity low operating costs
Built-in high-efficiency prefilter
Atmospheric dew points as low as
-40°C prevent freezing
Inherently safe in hazardous areas
Silent operation
No refrigerants or freons
No desiccant to change
No moving parts or motors

The Parker Compressed Air Point of Use Dryer are capable of delivering clean, dry compressed air with a dew point of -40 °C at atmospheric pressure. No electrical supply is required to use the Parker Membrane Air Dryer. Each membrane air dryer is equipped with a high efficiency coalescing prefilter to remove oil, water, and particulate contamination.



Applications

Low dew point instrument air

Pneumatic equipment

Pressurising electronic cabinets and cables

Analytical instrumentation

Prevention of freezing

Dry air for hazardous areas

General critical air supply

Flexibility of required dew point

Process controls

Instrument cabinets

CNC/CMM machinery

Electronics and telecommunications

Robotics

Laser technology

Optical instrumentation

State-of-the-Art Membrane Technology

Water vapour from the compressed air supply passes through the hollow fibres of the membrane. At the same time, a small portion of the dry air product is redirected along the length of the fibres to sweep out the water vapour-laden air which has permeated the membrane. The moisture-laden sweep gas is then vented to the atmosphere and clean, dry air is supplied to the application. This technology offers another advantage over refrigerant air drying technology as it does not produce condensate. The refrigerant dryer condenses it into an oily/water emulsion which has to be disposed of at high cost to you! The Balston Membrane Air Dryer is designed to operate continuously, 24 hours per day, 7 days per week. The only maintenance required is changing the prefilter twice a year. This annual maintenance takes approximately 5 minutes.

Principal Specifications

| Туре | 76-01 | 76-02 | 76-10 | 76-20 | 76-40 | 76-100-4050 |
|-----------------------------|---------------|-----------------|------------------|------------------|-------------------------------|-----------------|
| Port Size Inlet/Outlet | 1/4" NPT (F) | 1/4" NPT (F) | 1/2" NPT (F) | 1" NPT (F) | 11/2" NPT (F) 3/4" NPT (F) | 2" NPT (M) |
| Min/Max Inlet Air Temp. (4) | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C | 4°C/49°C |
| Ambient Temp. Range | 4°C - 49°C | 4°C - 49°C | 4°C - 49°C | 4°C - 49°C | 4°C - 49°C | 4°C - 49°C |
| Min/Max Inlet Pressure | 4.1/10 barg | 4.1/10 barg | 4.1/10 barg | 4.1/10 barg | 4.1/10 barg | 4.1/10 barg |
| Compressed Air Requirement | | Total Air Consu | ımption: Regener | ration Flow + Ou | tlet Flow | |
| Max. Pressure Drop (1) | 0.34 barg | 0.34 barg | 0.34 barg | 0.34 barg | 0.34 barg | 0.34 barg |
| Wall Mountable | Yes | Yes | Yes | Yes | Yes | No |
| Electrical Requirements | None | None | None | None | None | None |
| Dimensions | 150x580x130mm | 150x580x130mm | 150x940x130mm | 300x940x180mm | 480x990x210mm | 1290x1670x710mm |
| Shipping Weight | 4kg | 5kg | 9kg | 9kg | 16kg | 341kg |

Notes:

- 1. 0.34 barg at -40°C dew point operating parameters.
- 2. If compressed air is extremely contaminated, a Balston Grade DX prefilter should be installed directly upstream from the membrane dryer.
- 3. Dew points indicated are for maximum inlet/ambient temperature of 38°C.
- 4. Maximum inlet air pressure dew point is 38°C. Inlet dew point must not exceed this figure.

Flow Rates

| Туре | Outlet flow m³/h | n (SCFM) at indicated | operating pressure fo | r -40°C atmospheric | dew point |
|-------------|------------------|-----------------------|-----------------------|---------------------|--------------|
| | 4 barg | 5.5 barg | 7 barg | 8.3 barg | 9.6 barg |
| 76-01 | 0.5 (0.3) | 1.0 (0.6) | 1.7 (1.0) | 2.2 (1.3) | 2.9 (1.7) |
| 76-02 | 1.2 (0.7) | 1.7 (1.0) | 3.4 (2.0) | 4.4 (2.6) | 5.8 (3.4) |
| 76-10 | 5.6 (3.3) | 8.5 (5.0) | 17.0 (10.0) | 22.1 (13.0) | 28.9 (17.0) |
| 76-20 | 11.2 (6.6) | 17.0 (10.0) | 34.0 (20.0) | 44.2 (26.0) | 57.8 (34.0) |
| 76-40 | 22.4 (13.2) | 34.0 (20.0) | 68.0 (40.0) | 88.3 (52) | 115.5 (68.0) |
| 76-100-4050 | 56.0 (33.0) | 85.0 (50.0) | 170.0 (100.0) | 220.9 (130.0) | 292 (170.0) |

Membrane Module Regeneration Flow

| Type | Reg | eneration flow m³/h (| SCFM) at indicated or | perating pressure an | d all dew points |
|-------------|-------------|-----------------------|-----------------------|----------------------|------------------|
| | 4 barg | 5.5 barg | 7 barg | 8.3 barg | 9.6 barg |
| 76-01 | 0.3 (0.2) | 0.3 (0.2) | 0.5 (0.3) | 0.5 (0.3) | 0.5 (0.3) |
| 76-02 | 0.5 (0.3) | 0.7 (0.4) | 0.8 (0.5) | 1.0 (0.6) | 1.2 (0.7) |
| 76-10 | 2.9 (1.7) | 3.6 (2.1) | 4.2 (2.5) | 5.1 (3.0) | 5.9 (3.5) |
| 76-20 | 5.8 (3.4) | 7.1 (4.2) | 8.5 (5.0) | 10.2 (6.0) | 11.9 (7.0) |
| 76-40 | 11.6 (6.8) | 14.3 (8.4) | 17.0 (10.0) | 20.4 (12.0) | 23.8 (14.0) |
| 76-100-4050 | 28.9 (17.0) | 35.7 (21.0) | 42.5 (25.0) | 51.0 (30.0) | 59.5 (35.0) |

Ordering Information

| Balston Membrane Air Dryer | 76-01 | 76-02 | 76-10 | UK76-20 | UK76-40 | UK76-100-4050 |
|------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Replacement Prefilter | | | | | | |
| Cartridges | 100-12-BX | 100-12-BX | 100-18-BX | 150-19-BX | 200-35-BX | 200-80-DX |
| Optional Additional | | | | | | |
| Coalescing Prefilter | 2002G-1B1-DX | 2002G-1B1-DX | 2104G-1B1-DX | 2208G-1B1-DX | 2312G-1B1-DX | ZT14-016-6C |
| Replacement Filter Cartridge | s | | | | | |
| for Optional Prefilter | 100-12-DX | 100-12-DX | 100-18-DX | 150-19-DX | 200-35-DX | 10CZ27-200 |



Desiccant Dryer Economical In-line Drying

Features

Steel bowl with integral sight glass
Lightweight zinc head
Sintered bronze elements
prevent desiccant carry-over
Maximum operating temperature 82°C
Maximum working pressure 20 barg
Optimum working temperature <38°C

FDD Series Desiccant Dryer

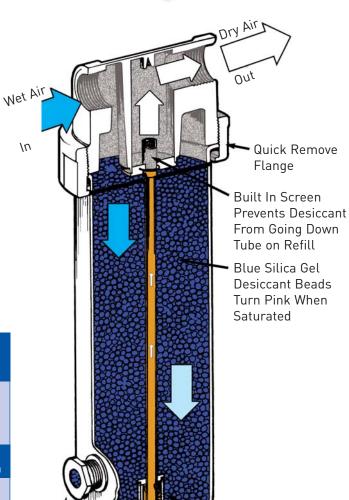
Parker's unique in-line air/gas dryer system is engineered for easy desiccant changeouts, longer life and lower pressure drop.

The FDD Series is designed to remove water vapour and aerosols at point-of-use for intermittent flow up to 25 m³/h. Finite dryers do not require steady flow for constant dew point suppression.

A colour changing moisture indicator with visual sight indicates the desiccant needs replacement.

RESULT: Zero loss of expensive compressed air, which results in lower overall operating cost.





Principal Specifications

| Model No. Housing Only** (NPT) | Port Size | Flow Capacity (m³/h) | Flow Capacity (SCFM) | Desiccant Capacity (Kg) |
|--|------------------------------|----------------------------|----------------------------|-------------------------------------|
| FDD15-02* FDD15-03* FDD15-04* FDD15-06 | 1/4" 3/8" 1/2" 3/4" | 25 25 25 25 | 15 15 15 15 | 1.1 1.1 1.1 1.1 |
| Dessicant Type | | 2.3 kg (| 5lb) Can | Master pack 4 x 2.3 kg (5lb) Can |
| Silica gel (all ind Molecular Sieve (non-indicating) | icating) | FSGM10 FMS100 | | FSGM100-4 FMS100-4 |
| *These dryers supplied **Desiccant sold sepa | | ducer bushing | 5. | |

Change

Sintered Bronze

Zero Air Loss Drain Conserving Costly Compressed Air

Features

Electronic condensate drains of the Zero Air series feature:- Non-wearing magnetic-core level control for optimised and loss free discharge of condensate

Integrated dirt screen between level measurement and drain valve to protect the diaphragm valve with alarm monitoring

Diaphragm valve with large cross-section and condensate pilot control for extended service life

Potential-free alarm contact ZLD013



Non-wearing magnetic-core level control

The magnetic-core level control employs fixed switching points to operate the valve. The magnetic core signal transmitter position is detected by non-contact magnetic sensors:

- independent of the condensate type (water/oil)
- independent of the working pressure

The collecting vessel integrated in the condensate drain is always used at optimum efficiency. This results in a minimised number of switching cycles and thus, in a maximum service life of the drain valve. No calibration required!

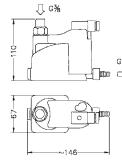
Integrated dirt screen

The dirt screen which is integrated between the level control and the drain valve:

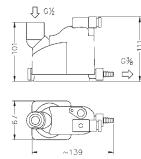
- retains any contaminants that could damage the diaphragm valve
- triggers an alarm, also if the screen is clogged by dirt
- allows the drain to be cleaned easily and rapidly

Therefore, it considerably increases the operating safety of the condensate drain. Since the condensate is pressed through the screen at working pressure, it will normally not need to be cleaned between the maintenance intervals.

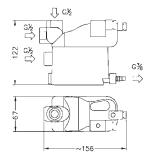
71 D006



7LD013



71 D023



Principal Specifications

| Model | Compressor aftercooler | Capacity *1 Refrigeration dryer | Filter *2 | Max Working pressure | Temperature range | Connections |
|--------|---------------------------|---------------------------------------|------------|-------------------------|----------------------|------------------|
| ZLD006 | - | - | 720 m³/h | 16 bar | 1 - 60°C | G 3/8 |
| ZLD013 | 240 m³/h | 480 m³/h | 2,400 m³/h | 16 bar | 1 - 60°C | 1 x G 1/2, G 1/8 |
| ZLD023 | 420 m³/h | 840 m³/h | 4,200 m³/h | 16 bar | 1 - 60°C | 2 x G 1/2, G 1/8 |

^{*1} referred to 1 bar(a) and 20°C at 7 bar working pressure, suction air compressor 25°C at 60% RH, air discharge temperature aftercooler 35°C, pressure dew point refrigeration dryer 3°C

^{*2} Condensate from aftercooler or refrigeration dryer to be drained upstream - only for residual oil content or small quantities of condensate Standard version with BSP thread (G) for 230V/50 - 60Hz supply voltage (230).

Alternatively, versions with NPT thread (N) or 115V/50 - 60Hz (115) or 24V/50 - 60Hz (024) are available.

24V DC on request



Parker Nitrogen Generation Membrane Technology

Simplicity and elegance describes the working principle of Parker's hollow fibre membrane technology.

Nitrogen is produced from hollow fibres which have selective diffusion rates. As compressed air is passed through the membrane modules consisting of thousands of hollow fibres, nitrogen is separated. Compressed air consists mainly of nitrogen, oxygen and other trace gases such as helium, together with water vapour. Water vapour, helium and oxygen diffuse quickly through the membrane wall, leaving nitrogen as the product.

NitroFlow®

Parker nitrogen generators are based on Parker hollow fibre membrane technology, which makes it possible to separate air into nitrogen and an oxygen-enriched stream.

NitroFlow® is available in both low pressure (LP) and high pressure (HP) ranges. Using NitroFlow® LP when no pressure is needed and opting for NitroFlow® HP when the application requires high pressure or when nitrogen storage is needed.

The NitroFlow® LP range has built-in compressors to produce nitrogen from ambient air simply by connecting to a mains voltage power source. A unique process and system design eliminates the need for condensed water removal and draining, ensuring the longest compressor and membrane life.

The NitroFlow® HP range requires compressed air either from a central system, or from a dedicated compressor. An optional additional storage vessel enables variable or peak consumption to be handled.

NitroFlow® will automatically switch on and off, depending on the nitrogen demand. With low running costs, NitroFlow® offers an unlimited, virtually maintenance-free and reliable source of nitrogen.

TyreSaver®

Specially designed for filling motorcycle, car and truck tyres.

Filling tyres with nitrogen can bring benefits of longer tyre life, better fuel consumption and increased safety.

NitroSource®

A modular design, which accommodates increased requirements through easy expansion.

Digital data management means intuitive commands with advanced features such as data logging and remote control.









Applications

All living things require oxygen but oxygen also speeds up degradation and oxidation of valuable products. Gas and dust mixtures are explosive when sufficient oxygen is present. Low oxygen environments prevent degradation and the risk of explosion. Reducing the oxygen concentration can be achieved by adding nitrogen, resulting in enhanced quality and safety. Because of this, nitrogen is the most widely used gas in the industry.

Oil and Gas

In the Oil and Gas industry, inert gas systems are used to generate oxygen depleted air, which is required for many processes such as gas-seal compression, purging of tubing, blanketing storage tanks or purging flare systems.

Food

Oxygen is the biggest enemy of food products. Oxygen reduced packaging, storage and transport increases the product shelf life benefiting both the producer and the consumer.

Blanketing

To prevent degradation of products or risk of explosion, storage facilities can be blanketed with nitrogen. Examples include the blanketing of chemicals, water, food or petrochemical products.

Oxygen enrichment

Parker membrane technology separates nitrogen from air, leaving an oxygen-enriched by product which is normally discarded. However, the oxygen-enriched air can be used for other applications. For some years oxygen enriched air has been used for nitrox diving instead of normal air.





Parker Quality Elements for other Manufacturers' Housings

High filtration efficiency, low operating costs, long life, high quality and the convenience of purchasing your products from a single supplier are the **Parker** advantages.

You can have all of the benefits inherent in a Parker filter element without the need to replace your existing filter housing.

| applications. '3 has 20 times t | K Hunter use'3P' element on liquid BP' grade is 3 micron absolute and the surface area of the original | Domnick Part Number | Hunter Parker Part Number | Domnick Part Number | K Hunter Parker Part Number |
|---|--|---|--|---|---|
| Part Number | Parker Part Number | E013AA E025AA E040AA E085AA | 6IF10-032 x 1 6IF10-046 x 1 6IF20-063 x 1 6IF20-102 x 1 | Particulate EP1001PL PF 02/05 PF 03/05 | Filters 3PP19-098 x 2 12GJN08-024 x 1 12GJN08-030 x 1 |
| High Efficie A03/1 A03/1.5 A04/1.5 A04/2.5 A05/2.5 A05/3 A010/3 A015/3 A020/3 | Coalescing Filters 6CJ10-030 x 1 6CJ13-030 x 1 6CJ13-044 x 1 6IJ15-040 x 1 6IJN15-050 x 1 6IJ25-050 x 1 6IJ25-150 x 1 6IG25-150 x 1 6IG25-200 x 1 | E195AA E295AA E400AA E500AA E620AA EP1001AO EZ1030AA EZ1050AA EZ1070AA EZ1140AA EZ2010AA | 6IF25-134 x 1 6IF25-254 x 1 6CF35-165 x 1 6CF43-252 x 1 6CF35-251 x 1 6QP19-098 x 2 6CZ07-020 x 1 6CZ12-023 x 1 6CZ12-029 x 1 6CZ12-056 x 1 6CZ20-046 x 1 | PF 03/10 PF 04/10 PF 04/20 PF 05/20 PF 05/25 PF 07/25 PF 07/30 PF 10/30 PF 15/30 PF 20/30 | 3PJN10-030 x 1 3PJN10-040 x 1 3PJN13-040 x 1 3PJN13-050 x 1 3PJN15-050 x 1 3PJN15-070 x 1 3PJN25-070 x 1 3PJN25-100 x 1 3PGN25-150 x 1 3PGN25-200 x 1 |
| A030/3 A030/5 AA3/1 AA3/1.5 AA4/1.5 AA4/2.5 AA5/2.5 AA5/3 AA10/3 AA15/3 AA20/3 | 6IG25-300 x 1 6QG43-300 x 1 6CJ10-030 x 1 6CJ13-030 x 1 6CJ13-044 x 1 6IJ15-040 x 1 6IJN15-050 x 1 6IJ25-050 x 1 6IJ25-100 x 1 6IG25-150 x 1 6IG25-200 x 1 | EZ2020AA EZ2030AA EZ2050AA EZ3050AA EZ3075AA EZ5060AA EZ5075AA K145AA K220AA K330AA | 6CZ20-086 x 1 6CZ20-126 x 1 6CZ20-200 x 1 6CZ27-200 x 1 6CZ27-298 x 1 6CZ46-239 x 1 6CZ50-298 x 1 6IF20-102 x 1 6IF25-134 x 1 6IF25-254 x 1 6IF35-165 x 1 | PF 30/30 PF 30/50 Oil Vapour (AC3/1) AC3/1.5 AC4/1.5 AC4/2.5 AC5/2.5 AC5/3 AC10/3 AC15/3 | 3PGN25-300 x 1 3PGN43-300 x 1 & Odour Removal AJ10-030 x 1 AJ13-030 x 1 AJ13-044 x 1 AJ15-040 x 1 AJN15-050 x 1 AJ25-050 x 1 AJ25-100 x 1 AG25-150 x 1 |
| AA30/3 AA30/5 A002/05 A003/05 A003/10 A004/10 A004/20 A005/20 A005/25 A007/25 A007/25 A007/30 A015/30 A015/30 A030/30 A030/50 | 6IG25-300 x 1 6QG43-300 x 1 6HJN08-024 x 1 6HJN08-030 x 1 6CJN10-030 x 1 6CJN10-040 x 1 6CJN13-040 x 1 6CJN13-050 x 1 6IJN15-050 x 1 6IJN15-070 x 1 6IJN25-070 x 1 6IJN25-100 x 1 6IGN25-150 x 1 6IGN25-300 x 1 6IGN25-300 x 1 | General Pur E006A0 E013A0 E025A0 E040A0 E085A0 E195A0 E295A0 E400A0 E500A0 E620A0 EZ1030A0 EZ1050A0 EZ1070A0 | 10CF08-026 x 1 10IF10-032 x 1 10IF10-046 x 1 10IF20-063 x 1 10IF25-102 x 1 10IF25-134 x 1 10IF25-254 x 1 10CF35-165 x 1 10CF43-252 x 1 10CF35-251 x 1 10CZ07-020 x 1 10CZ12-023 x 1 10CZ12-029 x 1 | AC 13/3 AC 20/3 AC 30/5 AC 02/05 AC 03/05 AC 03/10 AC 04/10 AC 04/20 AC 05/20 AC 05/25 AC 07/25 AC 07/30 AC 10/30 AC 15/30 AC 20/30 | AG25-150 X 1 AG25-200 X 1 AG25-300 X 1 AG43-300 X 1 AJN08-024 X 1 AJN08-030 X 1 AJN10-030 X 1 AJN10-040 X 1 AJN13-040 X 1 AJN13-050 X 1 AJN15-050 X 1 AJN15-070 X 1 AJN25-070 X 1 AJN25-100 X 1 AGN25-150 X 1 AGN25-200 X 1 |
| A030/50 AA02/05 AA03/05 AA03/10 AA04/10 AA04/20 AA05/20 AA05/25 AA07/25 AA07/30 AA10/30 AA10/30 AA20/30 AA30/30 AA30/50 E006AA | 6QGN43-300 x 1 4HJN08-024 x 1 4HJN08-030 x 1 4CJN10-030 x 1 4CJN10-040 x 1 4CJN13-040 x 1 4CJN13-050 x 1 4IJN15-050 x 1 4IJN15-070 x 1 4IJN25-070 x 1 4IJN25-100 x 1 4IGN25-150 x 1 4IGN25-150 x 1 4IGN25-300 x 1 4QGN43-300 x 1 4CF08-026 x 1 | EZ1070A0 EZ1140A0 EZ2010A0 EZ2020A0 EZ2030A0 EZ3050A0 EZ3075A0 EZ5060A0 EZ5075A0 K145A0 K220A0 K330A0 | 10CZ12-027 X I 10CZ12-056 X 1 10CZ20-046 X 1 10CZ20-086 X 1 10CZ20-126 X 1 10CZ27-200 X 1 10CZ27-298 X 1 10CZ46-239 X 1 10CZ50-298 X 1 10IF20-102 X 1 10IF25-134 X 1 10IF25-254 X 1 10CF35-165 X 1 | AC 20/30 AC 30/30 AC 30/50 E006AC E013AC E025AC E040AC E195AC E295AC E400AC E500AC E620AC EZ1030AC EZ1050AC EZ1050AC | AGN25-200 x 1 AGN25-300 x 1 AGN43-300 x 1 AF08-026 x 1 AF10-032 x 1 AF10-046 x 1 AF20-063 x 1 AF20-102 x 1 AF25-134 x 1 AF25-254 x 1 AF35-165 x 1 AF35-251 x 1 AZ07-020 x 1 AZ12-023 x 1 AZ12-029 x 1 |

EZ1140AC

AZ12-056 x 1

Parker Quality Elements for other Manufacturers' Housings

| Domnick I Part Number | Hunter Parker Part Number | Ultrafilter Part Number | Parker Part Number | Ultrafilter Part Number | Parker Part Number |
|-----------------------------|---------------------------------|-------------------------------|----------------------------------|-------------------------------|------------------------------------|
| EZ2010AC | AZ20-046 x 1 | V-PE 4/2,5 | 3PJ15-040 x 1 | PE 05/25 | 3PJN15-050 x 1 |
| EZ2020AC | AZ20-086 x 1 | V-PE 5/2,5 | 3PJN15-050 x 1 | PE 07/25 | 3PJN15-070 x 1 |
| EZ2030AC | AZ20-126 x 1 | V-PE 5/3 | 3PJ25-050 x 1 | PE 07/30 | 3PJN25-070 x 1 |
| EZ2050AC | AZ20-200 x 1 | V-PE 10/3 | 3PJ25-100 x 1 | PE 10/30 | 3PJN25-100 x 1 |
| EZ3050AC | AZ27-200 x 1 | V-PE 15/3 | 3PG25-150 x 1 | PE 15/30 | 3PGN25-150 x 1 |
| EZ3075AC | AZ27-298 x 1 | V-PE 20/3 V-PE 30/3 | 3PG25-200 x 1 3PG25-300 x 1 | PE 20/30 | 3PGN25-200 x 1 |
| EZ5060AC EZ5075AC | AZ46-239 x 1 AZ50-298 x 1 | V-PE 30/5 V-PE 30/5 | 3PG43-300 x 1 | PE 30/30 | 3PGN25-300 x 1 |
| K145ACS | AF20-102 x 1 | Fine Filters | 3F 043-300 X T | PE 30/50 | 3PGN43-300 x 1 |
| K220ACS | AF25-134 x 1 | FF 3/1 | 10CJ10-030 x 1 | Fine Filters FF 02/05 | 10HJN08-024 x 1 |
| K330ACS | AF25-254 x 1 | FF 3/1,5 | 10CJ13-030 x 1 | FF 03/05 | 10HJN08-030 x 1 |
| K430ACS | AF35-165 x 1 | FF 4/1,5 | 10CJ13-044 x 1 | FF 03/10 | 10CJN10-030 x 1 |
| | | FF 4/2,5 | 10IJ15-040 x 1 | FF 04/10 | 10CJN10-040 x 1 |
| Headline | | FF 5/2,5 | 10IJN15-050 x 1 | FF 04/20 | 10CJN13-040 x 1 |
| Part | Parker | FF 5/3 | 10IJ25-050 x 1 | FF 05/20 | 10CJN13-050 x 1 |
| Number | Part Number | FF 10/3 FF 15/3 | 10IJ25-100 x 1 10IG25-150 x 1 | FF 05/25 | 10IJN15-050 x 1 |
| | - untitumber | FF 20/3 | 10IG25-130 x 1 | FF 07/25 FF 07/30 | 10IJN15-070 x 1 10IJN25-070 x 1 |
| 12-16-70C | 10H04-006 x 10 | FF 30/3 | 10IG25-300 x 1 | FF 10/30 | 10IJN25-070 x 1 |
| 12-16-50C | 6H04-006 x 10 | FF 30/5 | 10QG43-300 x 1 | FF 15/30 | 10IGN25-150 x 1 |
| 12-16-70K | 10S04-006 x 10 | Micro Filters | | FF 20/30 | 10IGN25-200 x 1 |
| 12-16-50C | 6S04-006 x 10 | MF 3/1 | 6CJ10-030 x 1 | FF 30/30 | 10IGN25-300 x 1 |
| 12-32-70C | 10H04-013 x 10 | MF 3/1,5 | 6CJ13-030 x 1 | FF 30/50 | 10QGN43-300 x 1 |
| 12-57-70C 25-64-70C | 10H04-023 x 10 10H10-025 x 8 | MF 4/1,5 | 6CJ13-044 x 1 | Micro Filters | |
| 25-64-70C 25-127-70C | 10H10-025 x 8 | MF 4/2,5 | 6IJ15-040 x 1 | MF 02/05 | 6HJN08-024 x 1 |
| 25-178-70C | 10H10-070 x 4 | MF 5/2,5 MF 5/3 | 6IJN15-050 x 1 6IJ25-050 x 1 | MF 03/05 | 6HJN08-030 x 1 |
| 38-152-70C | 10H15-060 x 4 | MF 10/3 | 6IJ25-100 x 1 | MF 03/10 MF 04/10 | 6CJN10-030 x 1 6CJN10-040 x 1 |
| 51-89-70C | 10H20-035 x 4 | MF 15/3 | 6IG25-150 x 1 | MF 04/10 | 6CJN13-040 x 1 |
| 51-230-70C | 10H20-090 x 2 | MF 20/3 | 6IG25-200 x 1 | MF 05/20 | 6CJN13-050 x 1 |
| 51-476-70C | 10H20-187 x 1 | MF 30/3 | 6IG25-300 x 1 | MF 05/25 | 6IJN15-050 x 1 |
| 12-32-50C 12-57-50C | 6H04-013 x 10 6H04-023 x 10 | MF 30/5 | 6QG43-300 x 1 | MF 07/25 | 6IJN15-070 x 1 |
| 25-64-50C | 6H10-025 x 8 | Sub Micro Filte | | MF 07/30 | 6IJN25-070 x 1 |
| 25-127-50C | 6H10-050 x 4 | SMF 3/1 | 4CJ10-030 x 1 | MF 10/30 | 6IJN25-100 x 1 |
| 25-178-50C | 6H10-070 x 4 | SMF 3/1,5 | 4CJ13-030 x 1 | MF 15/30 MF 20/30 | 6IGN25-150 x 1 6IGN25-200 x 1 |
| 38-152-50C | 6H15-060 x 4 | SMF 4/1,5 SMF 4/2,5 | 4CJ13-044 x 1 4IJ15-040 x 1 | MF 30/30 | 6IGN25-300 x 1 |
| 51-89-50C | 6H20-035 x 4 | SMF 5/2,5 | 4IJN15-050 x 1 | MF 30/50 | 6QGN43-300 x 1 |
| 51-230-50C | 6H20-090 x 2 | SMF 5/3 | 4IJ25-050 x 1 | Sub Micro Filto | |
| 51-476-50C 12-32-70K | 6H20-187 x 1 10T04-013 x 10 | SMF 10/3 | 4IJ25-100 x 1 | SMF 02/05 | 4HJN08-024 x 1 |
| 12-52-70K 12-57-70K | 10T04-023 x 10 | SMF 15/3 | 4IG25-150 x 1 | SMF 03/05 | 4HJN08-030 x 1 |
| 25-64-70K | 10T10-025 x 10 | SMF 20/3 | 4IG25-200 x 1 | SMF 03/10 | 4CJN10-030 x 1 |
| 25-178-70K | 10T10-070 x 10 | SMF 30/3 SMF 30/5 | 4IG25-300 x 1 4QG43-300 x 1 | SMF 04/10 | 4CJN10-040 x 1 |
| 38-152-70K | 10T15-060 x 10 | Active Carbon | | SMF 04/20 SMF 05/20 | 4CJN13-040 x 1 4CJN13-050 x 1 |
| 51-230-70K | 10T20-090 x 10 | AK 3/1 | AJ10-030 x 1 | SMF 05/25 | 4IJN15-050 x 1 |
| 51-476-70K 12-32-50K | 10T20-187 x 10 | AK 3/1,5 | AJ13-030 x 1 | SMF 07/25 | 4IJN15-070 x 1 |
| 12-32-50K 12-57-50K | 6T04-013 x 10 6T04-023 x 10 | AK 4/1,5 | AJ13-044 x 1 | SMF 07/30 | 4IJN25-070 x 1 |
| 25-64-50K | 6T10-025 x 10 | AK 4/2,5 | AJ15-040 x 1 | SMF 10/30 | 4IJN25-100 x 1 |
| 25-178-50K | 6T10-070 x 10 | AK 5/2,5 | AJN15-050 x 1 | SMF 15/30 | 4IGN25-150 x 1 |
| 38-152-50K | 6T15-060 x 10 | AK 5/3 | AJ25-050 x 1 | SMF 20/30 | 4IGN25-200 x 1 |
| 51-230-50K | 6T20-090 x 10 | AK 10/3 AK 15/3 | AJ25-100 x 1 AG25-150 x 1 | SMF 30/30 | 4IGN25-300 x 1 |
| 51-476-50K | 6T20-187 x 10 | AK 20/3 | AG25-100 x 1 | SMF 30/50 | 4QGN43-300 x 1 |
| | | AK 30/3 | AG25-200 x 1 | Active Carbon AK 02/05 | AJN08-024 x 1 |
| Ultrafilter | • | AK 30/5 | AG43-300 x 1 | AK 02/05 AK 03/05 | AJN08-024 x 1 AJN08-030 x 1 |
| Part | Parker | 90 Series Prefi | lters | AK 03/03 AK 03/10 | AJN10-030 x 1 |
| Number | Part Number | PE 02/05 | 12GJN08-024 x 1 | AK 04/10 | AJN10-040 x 1 |
| | | PE 03/05 | 12GJN08-030 x 1 | AK 04/20 | AJN13-040 x 1 |
| 80 Series Pre | | PE 03/10 | 3PJN10-030 x 1 | AK 05/20 | AJN13-050 x 1 |
| V-PE 3/1 | 3PJ10-030 x 1 | PE 04/10 PE 04/20 | 3PJN10-040 x 1 3PJN13-040 x 1 | AK 05/25 | AJN15-050 x 1 |
| V-PE 3/1,5 | 3PJ13-030 x 1 | PE 05/20 | 3PJN13-050 x 1 | AK 07/25 AK 07/30 | AJN15-070 x 1 AJN25-070 x 1 |
| V-PE 4/1,5 | 3PJ13-044 x 1 | 1 2 30/20 | 2. 3. 1. 3 000 A 1 | AN 07/30 | MJINZU U/U X I |

Parker Quality Elements for other Manufacturers' Housings

| AK 10/30 | Ultrafilter Part Number | Parker Part Number | Flair Part Number | Parker Part Number | Flair Part Number | Parker Part Number |
|--|-------------------------------|-----------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| AK 30/30 | | | | | | |
| AK 30/30 | | | | | | |
| AK 30/50 | | | | | | |
| Process Gas Elements DH295AC AF25-254 x 1 UFPE2030 3PGN25-200 x 1 P-PE 07/30 3PGN25-100 x 1 DH295AC 10IF25-254 x 1 UFPE3030 3PGN25-300 x 1 P-PE 10/30 3PGN25-100 x 1 DH400AA 6CF35-165 x 1 UFPE3050 3PGN25-300 x 1 P-MF 07/30 6IGN25-070 x 1 DH400AC AF35-165 x 1 UFSMF0205 4HJN08-024 x 1 P-SMF 10/30 4IGN25-100 x 1 DH400AC AF35-165 x 1 UFSMF0305 4HJN08-030 x 1 P-SMF 10/30 4IGN25-100 x 1 DH500AA AF43-252 x 1 UFSMF0310 4CJN10-030 x 1 P-FF 10/30 10LN25-070 x 1 DH500AC AF43-252 x 1 UFSMF0310 4CJN10-040 x 1 P-FF 10/30 10LN25-100 x 1 DH500AO 10CF43-252 x 1 UFSMF0410 4CJN13-040 x 1 P-FF 10/30 10LN25-100 x 1 HK71311C 6CH25-260 x 1 UFSMF0520 4CJN13-040 x 1 P-AK 07/30 AGN25-070 x 1 HK731PP 10CH25-260 x 1 UFSMF0520 4UJN15-050 x 1 P-AK 10/30 AGN25-100 x 1 UFAK0335 AJN08-024 x 1 | | | | | | |
| P-PE 07/30 | | | | | | |
| P-PE 10/30 3PGN25-100 x 1 DH400AA 6CF35-165 x 1 UFPE3050 3PGNA3-300 x 1 DH400AC AF35-165 x 1 UFSMF0205 4HJN08-024 x 1 UFSMF0205 6HJN08-030 x 1 DH400AC AF35-165 x 1 UFSMF0205 4HJN08-030 x 1 UFSMF0305 4HJN08-030 x 1 UFSMF0310 4CJN10-030 x 1 UFSMF0310 4CJN10-030 x 1 UFSMF0310 4CJN10-040 x 1 UFSMF0310 4CJN13-050 x 1 UFSMF0320 4CJN13-070 x 1 UFSMF0330 4CJN125-070 x 1 UFSMF0330 4CJN125-070 x 1 UFSMF0330 4CJN125-070 x 1 UFSMF0330 4CJN125-070 x 1 UFSMF0330 4CJN125-100 x 1 UFSMF0330 4CJN125-10 | | | DH295A0 | 10IF25-254 x 1 | UFPE3030 | 3PGN25-300 x 1 |
| P-MF 10/30 | P-PE 10/30 | | l | | | |
| P-SMF 10/30 4IGN25-070 x 1 DH500AA 6CF43-252 x 1 UFSMF0310 4CJN10-030 x 1 P-SMF 10/30 4IGN25-100 x 1 DH500AC AF43-252 x 1 UFSMF0410 4CJN10-040 x 1 DH500AC AF43-252 x 1 UFSMF0410 4CJN10-040 x 1 DH500AC AF43-252 x 1 UFSMF0410 4CJN10-040 x 1 UFSMF0730 AGN25-070 x 1 DH500AC DH500AC DH500AC TOF43-252 x 1 UFSMF0420 4CJN13-040 x 1 UFSMF0520 4CJN13-040 x 1 UFSMF0520 4CJN13-040 x 1 UFSMF0520 4CJN13-050 x 1 UFSMF0730 AGN25-070 x 1 UFSMF0520 4CJN13-050 x 1 UFSMF0520 4CJN13-050 x 1 UFSMF0730 4CJN13-040 x 1 UFSMF0520 4CJN13-050 x 1 UFSMF0520 4CJN13-040 x 1 UFSMF0520 4CJN13-040 x 1 UFSMF0520 4CJN13-040 x 1 UFSMF0520 4CJN13-040 x 1 UFSMF0730 4CJN15-070 x 1 UFSMF0730 4CJN15-070 x 1 UFSMF1030 | | 6IGN25-070 x 1 | | | | |
| P-SMF 10/30 4/GN25-100 x 1 P-FF 07/30 10/JN25-070 x 1 P-FF 07/30 10/JN25-070 x 1 P-FF 10/30 10/JN25-070 x 1 P-FF 10/30 10/JN25-070 x 1 P-FF 10/30 10/JN25-100 x 1 P-FF 10/30 10/JN25-100 x 1 P-FF 10/30 10/JN25-100 x 1 P-AK 07/30 AGN25-070 x 1 P-AK 10/30 AGN25-070 x 1 P-AK 10/30 AGN25-070 x 1 P-AK 10/30 AGN25-100 x 1 P-AK | | | | | | |
| P-FF 07/30 | | | l | | | |
| P-FF 10/30 | | | | | | |
| P-AK 07/30 | | | | 6CH25-260 x 1 | UFSMF0520 | 4CJN13-050 x 1 |
| UFAK0305 | | | l | | | |
| Zander UFAK0310 UFAK0410 AJN10-030 x 1 UFAK0410 AJN10-040 x 1 UFSMF1530 4IGN25-150 x 1 UFAK0420 AJN13-040 x 1 UFSMF1530 4IGN25-150 x 1 UFSMF2030 4IGN25-200 x 1 UFAK0520 AJN13-050 x 1 UFSMF3030 4IGN25-300 x 1 UFSMF3050 4QGN43-300 x 1 UFSMF3050 4GN25-200 x 1 UFSMF3050 4GN25-200 x 1 UFSMF3050 4GN25-300 x 1 UFSMF3050 4G | P-AK 10/30 | AGN25-100 x 1 | l | | | |
| Part Parker UFAK0410 AJN10-040 x 1 UFSMF1530 4IGN25-150 x 1 Number Part Number UFAK0520 AJN13-040 x 1 UFSMF2030 4IGN25-200 x 1 1030 * *Z07-020 x 1 UFAK0525 AJN15-050 x 1 UFSMF3030 4IGN25-300 x 1 1050 * *Z12-023 x 1 UFAK0725 AJN15-070 x 1 VCE15 6CC15-150 x 2 1070 * *Z12-029 x 1 UFAK1030 AJN25-070 x 1 VCE22 6ICC25-220 x 1 1140 * *Z12-056 x 1 UFAK1030 AJN25-100 x 1 VCE8100 6CC15-080 x 2 2010 * *Z20-046 x 1 UFAK2030 AGN25-150 x 1 VCE860 6CC15-060 x 2 2020 * *Z20-086 x 1 UFAK2030 AGN25-300 x 1 VCXE15 2CC15-150 x 2 2030 * *Z20-126 x 1 UFAK3050 AGN43-300 x 1 VCXE22 2ICC25-220 x 1 2050 * *Z20-200 x 1 UFFF0205 10HJN08-024 x 1 Z2010Y 8CZ20-046 x 1 3050 * *Z27-200 x 1 UFFF0310 10CJN10-030 x 1 Z2010Z 10CZ20-046 x 1 | | | | | | |
| Part Parker UFAK0420 AJN13-040 x 1 UFSMF2030 4IGN25-200 x 1 Number Part Number UFAK0520 AJN13-050 x 1 UFSMF3030 4IGN25-300 x 1 1030 * *207-020 x 1 UFAK0525 AJN15-050 x 1 UFSMF3050 4QGN43-300 x 1 1050 * *212-023 x 1 UFAK0725 AJN15-070 x 1 VCE15 6CC15-150 x 2 1070 * *212-029 x 1 UFAK1030 AJN25-070 x 1 VCE8100 6CC15-080 x 2 1140 * *212-056 x 1 UFAK1030 AJN25-100 x 1 VCE8100 6CC15-080 x 2 2010 * *220-046 x 1 UFAK2030 AGN25-150 x 1 VCXE15 2CC15-150 x 2 2020 * *220-086 x 1 UFAK3030 AGN25-200 x 1 VCXE15 2CC15-150 x 2 2030 * *220-126 x 1 UFAK3030 AGN25-300 x 1 VCXE22 2ICC25-220 x 1 2050 * *220-200 x 1 UFAK3050 AGN43-300 x 1 VCXE8100 2CC15-080 x 2 2050 * *220-200 x 1 UFAK3050 AGN43-300 x 1 YCXE3100 2CC15-080 x 2 | Zander | | | | | |
| UFAK0525 AJN15-050 x 1 UFSMF3050 4QGN43-300 x 1 1030 * *Z07-020 x 1 UFAK0725 AJN15-070 x 1 VCE15 6CC15-150 x 2 1050 * *Z12-023 x 1 UFAK0730 AJN25-070 x 1 VCE22 6ICC25-220 x 1 1070 * *Z12-029 x 1 UFAK1030 AJN25-100 x 1 VCE8100 6CC15-080 x 2 1140 * *Z12-056 x 1 UFAK1530 AGN25-150 x 1 VCE860 6CC15-060 x 2 2010 * *Z20-046 x 1 UFAK2030 AGN25-200 x 1 VCXE15 2CC15-150 x 2 2020 * *Z20-086 x 1 UFAK3030 AGN25-300 x 1 VCXE22 2ICC25-220 x 1 2030 * *Z20-126 x 1 UFAK3050 AGN43-300 x 1 VCXE8100 2CC15-080 x 2 2050 * *Z20-200 x 1 UFFF0205 10HJN08-024 x 1 Z2010Y 8CZ20-046 x 1 3050 * *Z27-200 x 1 UFFF0305 10HJN08-030 x 1 Z2010Z 10CZ20-046 x 1 3075 * *Z27-298 x 1 UFFF0310 10CJN10-030 x 1 Z2020A AZ20-086 x 1 5060 * *Z46-239 x 1 UFFF0410 10CJN10-040 x 1 Z2020V 3PZ20-086 x 1 5075 * *Z50-298 x 1 UFFF0420 10CJN13-040 x 1 Z2020X 6CZ20-086 x 1 | Part | Parker | | AJN13-040 x 1 | UFSMF2030 | 4IGN25-200 x 1 |
| 1030 * *Z07-020 x 1 | Number | Part Number | l | | | |
| 1050 * * *Z12-023 x 1 | 1000 # | #707.000 4 | 1 | | | |
| 1070 * * *Z12-029 x 1 | | | | | | |
| 1140 * *Z12-056 x 1 UFAK1530 AGN25-150 x 1 VCE860 6CC15-060 x 2 2010 * *Z20-046 x 1 UFAK2030 AGN25-200 x1 VCXE15 2CC15-150 x 2 2020 * *Z20-086 x 1 UFAK3030 AGN25-300 x 1 VCXE22 2ICC25-220 x 1 2030 * *Z20-126 x 1 UFAK3050 AGN43-300 x 1 VCXE8100 2CC15-080 x 2 2050 * *Z20-200 x 1 UFFF0205 10HJN08-024 x 1 Z2010Y 8CZ20-046 x 1 3050 * *Z27-200 x 1 UFFF0305 10HJN08-030 x 1 Z2010Z 10CZ20-046 x 1 3075 * *Z27-298 x 1 UFFF0310 10CJN10-030 x 1 Z2020A AZ20-086 x 1 5060 * *Z46-239 x 1 UFFF0410 10CJN10-040 x 1 Z2020V 3PZ20-086 x 1 5075 * *750-298 x 1 UFFF0420 10CJN13-040 x 1 Z2020X 6CZ20-086 x 1 | | | l | | | |
| 2020 * *Z20-086 x 1 | | | l | | | |
| 2030 * *Z20-126 x 1 | | *Z20-046 x 1 | l | | | |
| 2050 * *Z20-200 x 1 | | | | | | |
| 3050 * *Z27-200 x 1 | | | | | | |
| 3075 * *Z27-298 x 1 | | | | | | |
| 5000 240-237 X T 5075 * *750-298 x 1 UFFF0420 10CJN13-040 x 1 Z2020X 6CZ20-086 x 1 | | | l | | | |
| | | | | | | |
| I DEEEDS/D DUBLISHEDS D I //D/DY 81 //D-D86 V I | 5075 * | *Z50-298 x 1 | UFFF0420 UFFF0520 | 10CJN13-040 X 1 | Z2020X Z2020Y | 8CZ20-086 x 1 |
| *Zander Media *Parker Element UFFF0525 10IJN15-050 x 1 Z2020Z 10CZ20-086 x 1 | *Zander Media | *Parker Flement | | | | |
| Designation Grade UFFF0725 10IJN15-070 x 1 Z2030A AZ20-126 x 1 | | Grade | UFFF0725 | | | |
| A A = Adsorber | | | l | | | |
| V 3P = Particulate UFFF1030 10IJN25-100 x 1 Z2030X 6CZ20-126 x 1 X 6C = Grade 6 Coalescer UFFF1530 10IGN25-150 x 1 Z2030Y 8CZ20-126 x 1 | | | l | | | |
| Y 8C = Grade 8 Coalescer | | | | | | |
| Z 10C = Grade 10 Coalescer UFFF3030 10IGN25-300 x 1 Z2050A AZ20-200 x 1 | | | | | | |
| converts to Finite 6CZ20-126 x 1 UFFF3050 10QGN43-300 x 1 Z2050V 3PZ20-200 x 1 | | | l | | | |
| UFMF0205 6HJN08-024 x 1 Z2050X 6CZ20-200 x 1 Flair UFMF0305 6HJN08-030 x 1 Z2050Y 8CZ20-200 x 1 | | | | | | |
| LIEME0310 AC IN10-030 v 1 720507 10C720-200 v 1 | | | | | | |
| Part Parker UEME0410 6CJN10-040 x 1 73050A A727-200 x 1 | | | | | | |
| Number Part Number UFMF0420 6CJN13-040 x 1 | Number | Part Number | UFMF0420 | 6CJN13-040 x 1 | | |
| UFMF0520 6CJN13-050 x 1 | D1100/AA | /CE00 02/ v.1 | l | | | |
| DH006AA 6CF08-026 x 1 | | | | | | |
| DH006AO 10CF08-026 x 1 UFMF0730 6IJN25-070 x 1 | | | l | | | |
| DH013AA 6IF10-032 x 1 UFMF1030 6IJN25-100 x 1 | | | l | | | |
| DH013AC AF10-032 x 1 UFMF1530 6IGN25-150 x 1 | | | l | | | |
| DH013A0 10IF10-032 x 1 | | | | | | |
| DH025AA 6IF10-046 x 1 | | | l | | | |
| DH025AO 10IF10-046 x 1 UFPE0205 12GJN08-024 x 1 | | | l | | | |
| DH040AA 6IF20-063 x 1 UFPE0305 12GJN08-030 x 1 | | | l | | | |
| DH040AC AF20-063 x 1 UFPE0310 3PJN10-030 x 1 | | | l | | | |
| DH040A0 10IF20-063 x 1 UFPE0410 3PJN10-040 x 1 DH085AA 6IF20-102 x 1 UFPE0420 3PJN13-040 x 1 | | | l | | | |
| DH085AA 6IF20-102 x 1 UFPE0420 3PJN13-040 x 1 DH085AC AF20-102 x 1 UFPE0520 3PJN13-050 x 1 | | | l | | | |
| | | | | | | |

Parker Quality Elements for other Manufacturers' Housings

| Hankis Part Number | on Parker Part Number | Kit Required | Hankis Part Number | on Parker Part Number | Kit Required | Parker Quality Filter Elements are also available to fit in other manufacturers' housings. Please call for details. |
|--|--|---|--|--|---|--|
| 0731-3 0731-4 0731-5 0731-6 0731-7 0731-8 0731-9* E7-12 E7-16 E7-20 E7-24 E7-28 E7-32 E7-36 E7-40 E7-44 E7-48 E7-PV Ultra High Oil Remov E3-12 E3-16 E3-20 E3-24 E3-28 E3-32 E3-36 E3-40 E3-44 E3-48 E3-PV | 2CH10-020 x 1 2CH10-036 x 1 2CH10-060 x 1 2CH16-066 x 1 2CH16-108 x 1 2CH19-131 x 1 2CH19-176 x 1 2CH25-204 x 1 2CH25-265 x 1 2CH25-323 x 1 2CH25-260 x 1 In (High Efficiency | KX-21 KX-22 KX-23 KX-24 KX-25 KX-2 | 0715-2 0715-3 0715-4 0715-5 0715-6 0715-7 0715-8 0715-9 0715-11* E1-12 E1-16 E1-20 E1-24 E1-28 E1-32 E1-36 E1-40 E1-44 E1-48 E1-PV Accumax 0740-4 Centriflex E9-12 E9-16 E9-20 E9-24 E9-28 E9-32 E9-36 E9-40 E9-44 E9-48 E9-PV | O (Oil Vapour Rem AM10-025 x 8 AM10-025 x 8 AM10-050 x 4 AM15-060 x 4 AM15-060 x 4 AM15-075 x 2 AM15-185 x 2 AU25-187 x 1 AU25-187 x 1 AH25-260 x 1 AH10-020 x 1 AH10-036 x 1 AH10-060 x 1 AH10-060 x 1 AHC16-108 x 1 AHC19-131 x 1 AHC19-176 x 1 AHC25-204 x 1 AHC25-204 x 1 AHC25-205 x 1 AC25-205 x 1 AC25-206 x 1 (Separator/Filter 100WS10-020 x 1 100WS10-036 x 1 100WS10-036 x 1 100WS10-066 x 1 100WS10-066 x 1 100WS19-131 x 1 100WS19-176 x 1 100WS25-204 x 1 100WS25-205 x 1 100WS25-265 x 1 100WS25-265 x 1 100WS25-260 x 1 100WS2 | KX-21 KX-22 KX-23 KX-24 KX-25 KX-2 KX-2 | Flair is a registered trademark of Flair Corporation; Hankison is a registered trademark of Flair Corporation; Headline is a registered trademark of Headline Filters Limited. |



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2000-series clamp kit

C02-2091; 2002, 2003, 2004, 2104 C02-2121; 2206, 2208, C02-2122, 2312

Connects two or more 2000-series filter housings for multi-stage filtration



KV-2A, KV-5A, KV-6A Element Frame Kits

(Internally mounted in all ASME housings) KV-2A XX51-280 elements KV-5A XX85-250 elements KV-6A XX85-360 elements



MS-50 Metal Sump Drain (External)

Temp: 79°C
Pressure: 17 barg
1/8" NPT Drain Connection
1/2" NPT Inlet Connection



ADT-50 Float Actuated Drain Trap

Temp: 232°C
Pressure: 10 barg
1/2" NPT Inlet Connection
1/4" NPT Drain Connection
Larger H-series or coded

housings



KBDPI-25 Differential Pressure Gauge

Temp: 88°C
Pressure: 17 barg
(Kit includes 1/8" and 1/4" NPT
brass fittings, flexible
nylon tubing and mounting
bracket) For wall mount or
coded housings



KBDPG-15 Differential Pressure Gauge Kit

Temp: 93°C Pressure: 17 barg

(Kit includes 1/8" and 1/4" NPT brass fittings, flexible nylon tubing and

mounting bracket)

Wall mount or coded housings

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Parker Filtration & Separation

Process Air and Gas Division Hermitage Court Hermitage Lane Maidstone Kent ME16 9NT United Kingdom

Tel: +44 (0)1622 723 300 Fax: +44 (0)1622 728 703

E-mail: pagservicesupport@parker.com

Parker Hannifin Bv

Filtration and Separation Division P.O. Box 258 4870 AG Etten-Leur The Netherlands Tel: +31 (0)76 508 5300

Fax: +31 (0)76 508 5333 Email: pfsinfo@parker.com

Parker Hannifin Corporation

Filtration and Separation Division 242 Neck Road P.O. Box 8223 Haverhill, MA 01835-0723 USA

Tel: +1 800-343-4048 Fax: +1 978-858-0625

Parker European Sales Offices

Austria +43 2622 235010 Belgium +32 67 280900 Czech Republic +420 284 083 11 Denmark +45 43 560400 Finland +358 20 753 2500 France +33 (0)450 258025 Germany +49 (0)2131 40160 Hungary +36 (0)12204155 Italy +39 02 452424 Netherlands +31 541 585000 Norway +47 64911000 Poland +48 (0)22 5732400 Spain + 34 91 6757300 Sweden + 46 8 59795000 Switzerland +41 22 3077111



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