



OIL-X_{PLUS}

Filters for pure compressed air



Contamination costs money

Compressed air contamination

Compressed air is an essential power source that is widely used throughout industry. This safe, powerful and reliable utility can be the most important part of your production process. However, your compressed air will contain water, dirt, wear particles, bacteria and even degraded lubricating oil which all mix together to form an unwanted abrasive sludge.

This sludge, often acidic, rapidly wears pneumatic machinery, blocks valves and orifices causing high maintenance and costly air leaks. It also corrodes piping systems and can bring your production process to an extremely expensive standstill!

All of these costly problems can be simply avoided by installing **domnick hunter OIL-X_{PLUS}** high efficiency compressed air filters.

OIL-X_{PLUS} will remove the oil, water and dirt particles to eliminate the abrasive sludge in your compressed air.



Unwanted abrasive sludge







Corrosion

Don't forget - cleaner compressed air means cheaper and more reliable production!



The price you pay

domnick hunter OIL-X_{PLUS} compressed air filters provide the highest standard ISO 8573.1 quality compressed air with the lowest running costs available. Save more than 50% in energy costs with OIL-X_{PLUS}. When compared to typical filters, OIL-X_{PLUS} has the highest performance and quality - better than 99.9999% efficiency and particle retention down to 0.01 micron.





OIL-X_{PLUS} - the guaranteed solution



Benefits

- LIFETIME GUARANTEE
- MANUFACTURED IN ACCORDANCE WITH ISO 9001
- GUARANTEED PERFORMANCE
- LONG LIFE FILTER ELEMENTS
- WORLDWIDE SUPPORT
- SUITABLE FOR ALL TYPES OF COMPRESSOR
- COMPATIBLE WITH ALL COMPRESSOR OILS

Guaranteed for life

All **domnick hunter OIL-X_{PLUS}** high efficiency compressed air filters carry a free lifetime guarantee based on the design life of the product.

Die-cast filter housings

Guaranteed for 10 years life under normal recommended use. The high quality traceable pressurised components ensure peace of mind and trouble free use.

Fabricated filter housings

Guaranteed for 10 years life under normal recommended use. These carbon steel housings are epoxy powder coated for maximum corrosion protection and manufactured to CE and other National and International Standards.

Coalescing filter elements

Guaranteed for one year under normal recommended use.

Further details are available on request.



OIL-X_{PLUS} - designed for performance



The new direct mounting differential pressure gauge with replacement element warning light (DPGL). Fitted as standard on filters %" and larger (Except AC/ACS/AX filters). Highlighting the most economical time to change the filter element.



Differential pressure indicator (DPI) is fitted as standard on filters up to ½" port size (Except AC/ACS/AX filters).



Automatic drain valve is standard so collected condensate is always removed (manual drain only on models AR, AAR, ACS).



Bleed valve for rapid depressurisation and autodrain function check

A special feature of all

Alocrom aluminium treatment -



Calibrated for accurate running cost measurement.



Pressure relief hole gives an audible warning if any attempt is made to remove filter bowl whilst under pressure.



A patented fixing kit connects two filters in series saving space.



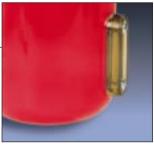
Rapid maintenance.



Rapid corrosion of



No corrosion with Alocrom



Slight glass gives a visual check of liquid collection and drain function.

Corrosion protected inside and out with Alocrom treatment then a tough epoxy paint

domnick hunter die-cast filter

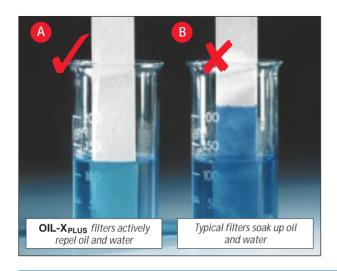
finish is baked on to give extra long life. Note the convincing results of a 150 hour salt

spray test.

housings



OIL-X_{PLUS} - the inside story



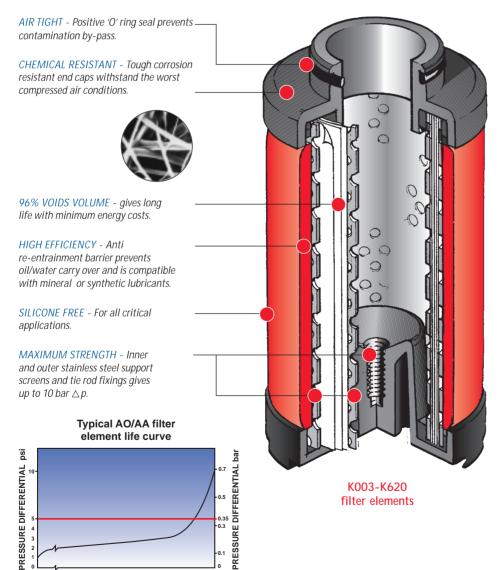
OIL-X PLUS filters

Use specially treated borosilicate glass microfibres which actively repel oil and water to reduce pressure drop and running costs to an absolute minimum.

B Typical filters

Use regular glass microfibres which soak up oil and water increasing pressure drop, reducing efficiency and giving higher running costs.

OIL-X_{PLUS} high-efficiency filter elements

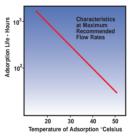


NORMAL OPERATION OVER 1 YEAR

High carbon content for long service life.

Oil soluble dye will indicate red if bulk oil is present

Typical activated carbon life





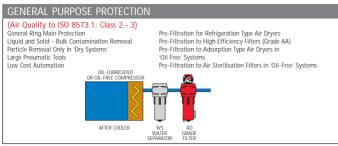
Filter element changes are essential

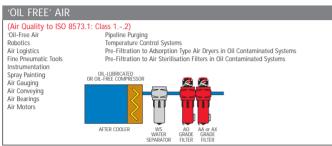
All **OIL-X**_{PLUS} coalescing filters are supplied with a maintenance sticker. It is essential to change the filter elements every year or earlier if the indicator/gauge changes to red.

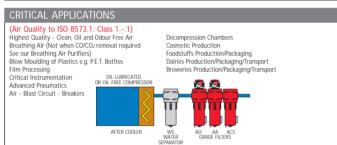
Activated carbon filter elements (grades ACS and AC) should be changed every 1000 hours or earlier if odour is detected.

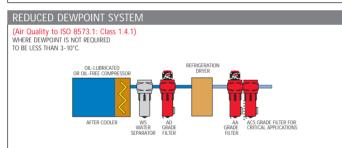


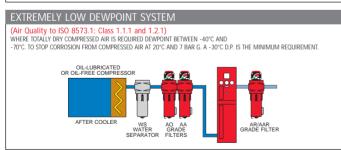
Installation advice

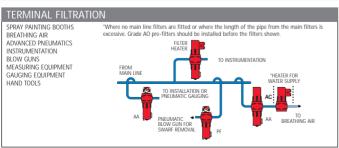












ISO 8573.1 QUALITY CLASSES

QUALITY CLASS	DIRT Particle size in Micron	WATER Pressure Dewpoint °C (ppm. vol.) at 7 bar g	OIL (Including vapour) mg/m ³			
1	0.1	-70 (0.3)	0.01			
2	1	-40 (16)	0.1			
3	5	-20 (128)	1.0			
4	15	+3 (940)	5			
5	40	+7 (1240)	25			
6	-	+10 (1500)	-			

GRADE PF

Coarse Pre-Filtration

Particle removal down to 25 microns.

GRADE AO

High Efficiency General Purpose Protection

For the removal of particles down to 1 micron including coalesced liquid water and oil, providing a maximum remaining oil aerosol content of 0.5 mg/m³ @ 21°C.

GRADE AA

High Efficiency Oil Removal Filtration

For the removal of particles down to 0.01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0.01 mg/m³ @ 21°C. (Precede with Grade AO filter).

GRADE AX

Ultra High Efficiency Filtration

For the removal of particles down to 0.01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0.001 mg/m³ @ 21°C. (Precede with Grade AO filter).

GRADE AC & ACS

Activated Carbon Filtration

For the removal of oil vapour and hydrocarbon odours giving a maximum remaining oil content of <0.003 mg/m³ (<0.003 ppm) (excluding methane) @21°C. (Precede with Grade ACS with Grade AA filter). (AC filter combines AA and AC Grades)

GRADE AR

General Purpose Dust Filtration

For the removal of dust particles down to 1 micron.

GRADE AAR

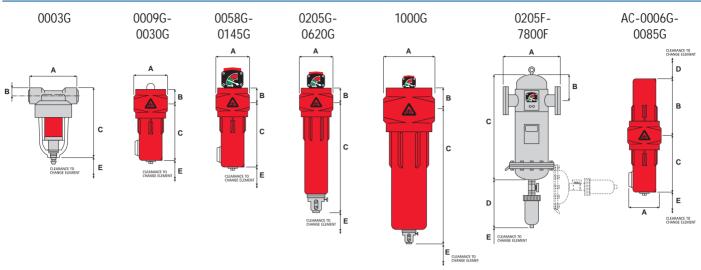
High Efficiency Dust Filtration

For the removal of dust particles down to 0.01 micron.

INSTALLATION HINTS

- 1. Generally install filters downstream of aftercoolers and air receivers at the lowest installation temperature and as close to the point of application as possible This ensures that in wet systems as much water and oil vapour has condensed out as possible which can be removed by the coalescing filters. Installing close to the application reduces the risk of pipe scale downstream or the filters contaminating the filtered air. Please refer to above installation hints.
- Filters should not be installed downstream of quick opening valves and should be protected from possible reverse flow or other shock conditions.
- It may he necessary to install a combination of main line filtration near the compressor installation before entry to the ring main and install terminal filtration at the critical points. Remember especially in existing installations the contamination already in the pipe system downstream of the filters will take a long time to disappear and probably never will completely.
- Purge all lines leading to the filters before installation and connection to the final application to be protected.
- Install filters in a vertical position ensuring that there is sufficient room below the filters to facilitate element change.
- Avoid by-pass lines whenever possible as contamination may leak through valves and by-pass the filters
- Provide a facility to drain away collected liquids where applicable from the filter drains via suitable tubing taking care that no restrictions are caused.
- Install domnick hunter differential pressure gauges and kits to indicate the pressure drop across
 the filters. This will give an idea of the filter element condition (except Grade AC or ACS).
- domnick hunter mounting kits are available for filter sizes up to 0620G. Care should be taken with larger filters to see that they are properly supported in the pipe line.
- 10. If you have a problem on filter selection or installation please contact the domnick hunter Technical Sales Department or our representatives We will be pleased to help you in selecting the installation for your requirements.

Technical specifications



Filter Type	PIPE	PIPE FLOW RATES SIZE @ 7 bar g (100 psi g)				DIMENSIONS	(mm)	WEIGHT	REPLACEMENT ELEMENT KIT			
	SIZE	L/S	cfm	m³/hr	А	В	С	D	E	(kg)	Туре	No.
(grade) 0003G	8mm Push Fit**	3	6	11	58	9.75	89	-	45	0.1	K003 (grade)	1
(grade) 0009G	G¼	9	19	32	76	34.5	133	-	70	0.5	K009 (grade)	1
(grade) 0017G	G¾	17	36	61	89	42	158	-	95	1.0	K017 (grade)	1
(grade) 0030G	G½	30	64	108	89	42	194	-	130	1.1	K030 (grade)	1
(grade) 0058G	G3/4	60	127	216	120	58	251	-	172	2.4	K058 (grade)-B*	1
(grade) 0080G	G1	80	170	288	120	58	351	-	272	2.9	K145 (grade)-B*	1
(grade) 0125G	G11/4	120	254	432	120	58	351	-	272	2.9	K145 (grade)-B*	1
(grade) 0145G	G1½	145	307	522	120	58	351	-	272	2.9	K145 (grade)-B*	1
(grade) 0205G	G1½	200	424	720	160	66.5	511	-	320	9.1	K220 (grade)-B*	1
(grade) 0220G	G2	220	466	792	160	66.5	511	-	320	9.1	K220 (grade)-B*	1
(grade) 0330G	G2	330	699	1188	160	66.5	816	-	625	12.9	K330 (grade)-B*	1
(grade) 0405G	G21/2	400	848	1440	202	79	602	-	400	12.1	K430 (grade)-B*	1
(grade) 0430G	G3	430	911	1548	202	79	602	-	400	11.9	K430 (grade)-B*	1
(grade) 0620G	G3	620	1314	2232	202	79	844	-	625	20.9	K620 (grade)-B*	1
(grade) 1000G	G4	1000	2119	3600	420	82	1095	-	570	44.5	K330 (grade)-B*	3
(grade) 0205F	DN40	200	424	720	304	115	624	335	350	29	K220 (grade)	1
(grade) 0330F	DN50	330	669	1188	304	120	934	335	650	37	K330 (grade)	1
(grade) 0620F	DN80	620	1314	2232	390	177	1077	335	650	64	K620 (grade)	1
(grade) 1000F	DN100	1000	2119	3600	450	201	1140	335	650	95	K330 (grade)	3
(grade) 1300F	DN100	1300	2755	4680	500	230	1220	335	650	135	K330 (grade)	4
(grade) 1950F	DN150	1950	4132	7020	580	273	1294	335	650	177	K330 (grade)	6
(grade) 3250F	DN200	3250	6886	11700	750	361	1519	335	650	368	K330 (grade)	10
(grade) 5200F	DN250	5200	11018	18720	740	410	1684	335	800	515	K330 (grade)	16
(grade) 7800F	DN300	7800	16527	28080	1000	485	1777	335	850	684	K330 (grade)	24
AC-0006G†	G¼	6	13	22	76	133	133	70	70	1.0	K009AA & K006AC	1**
AC-0013G†	G¾	13	27	47	89	158	158	95	95	1.2	K017AA & K013AC	1**
AC-0025G†	G½	25	53	90	89	194	194	95	130	1.4	K030AA & K025AC	1**
AC-0040G†	G³⁄4	40	84	144	120	251	251	125	172	3.2	K058AA & K040AC	1**
AC-0065G†	G1	65	136	234	120	251	351	125	272	3.7	K145AA & K065AC	1**
AC-0085G†	G1¼	85	178	306	120	351	351	225	272	3.8	K145AA & K085AC	1**

^{*}Filter element codes for Oll-X_{RUS} Grades PF, AO and AA only, e.g. K145AA-B. For Grades ACS or AX use code without -B, e.g. K145ACS. (-B denotes a filter element kit complete with a spare battery for the DPGL)

TECHNICAL DATA

Maximum operating pressure (0003G only)	10.5 bar g	(150 psi g)	Maximum recommended operating temperature (Grade PF/AO/AA/AX/AR/AAR)***	66°C	' '	Initial 'dry' differe Grade PF Grade AO/AR	ential pressure ~70 m bar ~70 m bar	(1.0 psi)	Initial 'wet' differ Grade PF Grade AO	rential pressure ~100 m bar ~140 m bar	(1.5 psi)
Maximum operating pressure (0009G to 7800F) with Autodrain	16 bar g	(232 psi g)	Maximum recommended operating temperature (Grade AC/ACS)	30°C	(86°F)	Grade AA/AAR Grade AX	~100 m bar ~200 m bar	(1.5 psi)	Grade AA Grade AX Grade AC	~200 m bar ~400 m bar ~300 m bar	(3.0 psi) (6.0 psi)
Maximum operating pressure (0009G to 1000G) with manual drain	20 bar g	(290 psi g)	Minimum recommended operating temperature	1.5°C	(35°F)	Grade AC Grade ACS	~200 m bar ~70 m bar	' ' '	Grade ACS Grade AR/AAR	N/A N/A	(/
***Special TS Grade filter elements are available for higher filtration temperatures						Maximum recommended pressure differential for element change: (PF, AO, AA, AR and AAR filters only) - 340 m bar (AX filter only) - 700 m bar (10 psi)					

For flowrates at other pressures, apply the factor shown:

Line	bar g	1	2	3	5	7	9	11	13	15	17	20
Pressure	psi g	15	29	44	73	100	131	160	189	218	247	290
Correction Fac	tor	0.38	0.53	0.65	0.85	1.0	1.13	1.25	1.36	1.46	1.56	1.7

Ordering Example:

To order a 0.01 micron filter flowing 60 L/s at 7 bar g specify type AA-0058G. Replacement element is K058AA-B.

⁺ Refers to OIL-X Grade AC double-stage filters only. **Grade AA and Grade AC required for double stage filter. (The grade AC and ACS filters WILL NOT remove CO/CO2 or other toxic gases or fumes).

Why domnick hunter?

- A complete product range offering compressed air and gas purification for every application - all your filtration needs from one reliable supplier.
- Competitively priced solutions to your compressed air and gas problems.
- Technically trained worldwide support and service network.
- Worldwide stock availability.
- On-site testing and service.

Manufacturing to the highest standards









INTERNATIONAL PRESSURE VESSEL APPROVAL















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domnick hunter limited Dukesway, Team Valley Trading Estate, Gateshead, Tyne and Wear, England NE11 0PZ Tel: +44 (0)191 402 9000 Telefax: +44 (0)191 482 6296 http://www.domnickh.co.uk



domnick hunter PGI Pty Ltd Boronia, Australia Tel: +61 (0)3 9762 9922 Telefax: +61 (0)3 9762 9911



hb-domnick hunter equipamentos Itda Sao Paulo Brazil Tel: +55 (0)11 3766-3977 Telefax: +55 (0)11 268-1421



domnick hunter Canada inc Mississauga, Canada Tel: +1 (905) 820 7146 Telefax: +1 (905) 820 5463 Toll Free: 1-888-342-2623



domnick hunter China Beijing, China Tel: +86 10 646 33523 Telefax: +86 10 646 33521



domnick hunter Scandinavia Stenløse Denmark Tel: +45 (0)47 107775 Telefax: +45 (0)47 173332



domnick hunter France S.A. Villefranche sur Saône, France Tel: +33 4 74 62 34 51 Telefax: +33 4 74 62 35 44



domnick hunter gmbh Krefeld, Germany Tel: +49 (0) 2151 8366-0 Telefax: +49 (0) 2151 395779



P.T. domnick hunter Indonesia Ltd Jakarta Indonesia Tel: +62 21 458 40488 Telefax: +62 21 452 4323



domnick hunter Nihon Kobe, Japan Tel: +81 (0)78 391 8055 Telefax: +81 (0)78 391 8056



domnick hunter - RI (Malaysia) SDN BHD Petaling Jaya, Malaysia Tel: +60 3 733 3415 Telefax: +60 3 735 1699



domnick hunter - RL (Singapore) Pte Ltd Singapore Tel: +65 250 4088 Telefax: +65 250 4223



domnick hunter Iberica Barcelona, Spain Tel: +34 (0)3 351 4807 Telefax: +34 (0)3 351 7102



domnick hunter SweTec AB Gothenburg, Sweden Tel: +46 (0)31 748 0610 Telefax: +46 (0)31 748 0621



domnick hunter - RL (Thailand) Co. Ltd Bangkok, Thailand Tel: +66 2 267 9760 Telefax: +66 2 267 9764



domnick hunter inc Charlotte, USA Tel: +1 (704) 921 9303 Telefax: +1 (704) 921 1960 Toll Free: 1-800-345-8462

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