

FOCUSED ONCOMPRESSED AIR TREATMENT

Parker Compressed Air Filters | Oil-X Series



FOCUSED ON EFFICIENCY

Parker domnick hunter OIL-X a new series of compressed air filters, taking efficiency to a different level.

Built on Parker's worldwide expertise in filtration, the OIL-X range has been developed to ensure consistent outstanding air quality, guaranteed for 12 months, and third-party validated to meet ISO 8573-1.

The Parker domnick hunter OIL-X range of die-cast compressed air filters has been designed from the outset to meet the air quality requirements of all editions of ISO8573-1, when validated in accordance with the stringent requirements of ISO12500-1.

An efficient and cost effective manufacturing process is a major factor in maintaining the profitability and growth of your business. All Parker domnick hunter products are designed to not only minimize the use of compressed air and electrical energy in their operation, but also to significantly reduce the operational costs of the compressor by minimizing pressure losses.

OIL-X filters incorporate a number of unique and patented design features to minimize differential pressure and provide a filter and element combination where the differential pressure starts low and stays low to maximize energy savings and provide the lowest lifetime costs without compromising air quality.

The Parker domnick hunter OIL-X has been developed with a design philosophy of simplicity, compatibility and usability, but above all validated air quality. OIL-X is available in four different variants: water separation, coalescing, dry particulate and oil vapor removal.





FOCUSED ON FILTRATION & SEPARATION

Combining the unique filter element with a specially designed advanced air flow management system, the Parker domnick hunter OIL-X range is engineered to not only deliver air quality in accordance with ISO 8573-1 classifications, but it does so with the lowest differential pressure on the market-ensuring maximum efficiency and productivity.

Benefits

- Highest air quality
- Lowest power consumption
- 1.8 psig operational differential pressure
- Lowest CO₂ emissions
- Lowest total cost of ownership
- Validated performance you can rely on
 Built on Parker's worldwide expertise in filtration, the
 Parker domnick hunter OIL-X range has been developed to
 ensure consistent outstanding air quality, guaranteed for
 12 months and third-party validated to meet ISO 8573-1
 (the international standard of compressed air quality).

Lowest differential pressure

Combining the unique filter element with a specially designed advanced air flow management system, the Parker domnick hunter OIL-X range is engineered to not only deliver air quality in accordance with ISO 8573-1 classifications, but it does so with an extremely low differential pressure – ensuring maximum efficiency and productivity.

Cost savings

Extended equipment lifespan, reduced maintenance, enhanced energy efficiency, proven reliability and minimal downtime all contribute towards lowest total cost of ownership – and a significant positive impact on compressed air running costs.



One Year Air Quality Guarantee

Your air quality has been guaranteed for 1 year and will be renewed at every annual filter element change.

Annual filter element changes ensure:

- Optimal performance is maintained
- Air quality continues to meet international standards
- Protection of downstream equipment, personnel and processes
- Low operational costs
- Increased productivity and profitability
- Peace of mind

Product Selection

Grade	Element Type	Model Size / Port Connection	G	Thread Connection	Drain Type	Differential Pressure Indicator*
WS AO AAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	I P I	010 A ('/a') 010 B (3/a') 010 C (1/2') 015 C (3/a') 020 D (3/a') 025 D (3/a')	030 G (1 ½") 035 G (1 ½") 040 H (2") 045 I (2 ½") 050 I (2 ½") 055 I (2 ½") 050 J (3") 060 K (4")	*AO/AA on	F (Float) M (Manual) N (Manual) I with	X (None)

OIL-X Water Separators

Technical Data

Filtration Grade	Filton Tono	Dunin Tuna	Min Operating	Pressure	Max Opera	ting Pressure	Min Operating	Temperature	Max Operating	Temperature
	Filter Type	Drain Type	psi g	bar g	psi g	bar g	°F	°C	°F	°C
WSP010-WSP050	Water Separator	Float	15	1	232	16	35	2	176	80
WSP060	Water Separator	Float	15	1	232	16	35	2	150	66

Product Selection

Stated flows are for operation at 102 psi g (7 bar g) with reference to 68°F (20°C), 14.5 psi (1 bar), 0% relative water vapor pressure.

	Port Connection	Flow Rates								
Model	Connection	scfm	L/s		m³/hr					
WSP010ANFX-US	1/4"	21	10	0.6	36					
WSP010BNFX-US	3/8"	21	10	0.6	36					
WSP010CNFX-US	1/2"	21	10	0.6	36					
WSP015CNFX-US	1/2"	85	40	2.4	144					
WSP020DNFX-US	3/4"	85	40	2.4	144					
WSP025DNFX-US	3/4"	233	110	6.6	396					
WSP025ENFX-US	1"	233	110	6.6	396					
WSP030GNFX-US	1-1/2"	233	110	6.6	396					
WSP035GNFX-US	1-1/2"	742	350	21.0	1260					
WSP040HNFX-US	2"	742	350	21.0	1260					
WSP045INFX-US	2-1/2"	742	350	21.0	1260					
WSP050INFX-US	2-1/2"	1695	800	48.0	2880					
WSP055JNFX-US	3"	1695	800	48.0	2880					
WSP060KNFX-US	4"	2119	1000	60.0	3600					

Applying Correction Factors

To correctly select a filter model, the flow rate of the filter must be adjusted for the minimum operating pressure of the system.

- To correctly select a filter model, the flow rate of the filter must be adjusted for the minimum operating
 pressure of the system.
- Obtain the minimum operating pressure and maximum compressed air flow rate at the inlet of the filter.
- Select the correction factor for minimum operating pressure from the CFP table (always round down e.g. for 73.2 psi, use 73 psi correction factor).
- Calculate the minimum filtration capacity: Minimum Filtration Capacity = Compressed Air Flow Rate x CFP.
- Using the minimum filtration capacity, select a filter model from the flow rate tables above (filter selected must have a flow rate equal to or greater than the minimum filtration capacity.

Correction Factors

Please apply these correction factors to flows other than 102 psi g (7 bar g).

Line Pre	ssure	Correction Factor
psi g	bar g	Pressure (CFP)
15	1	4
29	2	2.63
44	3	2.00
58	4	1.59
73	5	1.33
87	6	1.14
100	7	1.00
116	8	0.94
131	9	0.89
145	10	0.85
160	11	0.82
174	12	0.79
189	13	0.76
203	14	0.73
218	15	0.71
232	16	0.68



OIL-X Filters

Technical Data

Filtration Filter 1 Grade	Filter Type	Drain Type		erating sure		erating ssure		erating rature		erating erature
			psi g	bar g	psi g	bar g	°F	°C	°F	°C
A0/AA	Coalescing	Float	15	1	232	16	35	2	176	80
A0/AA	Dry Particulate	Manual	15	1	290	20	35	2	212	100
ACS	Oil Vapor Removal	Manual	15	1	290	20	35	2	122	50

Product Selection

Stated flows are for operation at 102 psi g (7 bar g) with reference to 68° F (20°C), 14.5 psi (1 bar), 0% relative water vapor pressure.

Model	Port		Replacement				
модес	Conn.	scfm	L/s	m³/min	m³/hr	Elements	
GRADE P010AN(*)	1/4"	21	10	0.6	36	P010 GRADE	
GRADE P010BN(*)	3/8"	21	10	0.6	36	P010 GRADE	
GRADE P010CN(*)	1/2"	21	10	0.6	36	P010 GRADE	
GRADE P015CN(*)	1/2"	42	20	1.2	72	P015 GRADE	
GRADE P020CN(*)	1/2"	64	30	1.8	108	P020 GRADE	
GRADE P020DN(*)	3/4"	64	30	1.8	108	P020 GRADE	
GRADE P025DN(*)	3/4"	127	60	3.6	216	P025 GRADE	
GRADE P025EN(*)	1"	127	60	3.6	216	P025 GRADE	
GRADE P030GN(*)	1-1/2"	233	110	6.6	396	P030 GRADE	
grade P035GN(*)	1-1/2"	339	160	9.6	576	P035 GRADE	
GRADE P040HN(*)	2"	466	220	13.2	792	P040 GRADE	
GRADE P045IN(*)	2-1/2"	699	330	19.1	1188	P045 GRADE	
GRADE P050IN(*)	2-1/2"	911	430	25.9	1548	P050 GRADE	
grade P055IN(*)	2-1/2"	1314	620	37.3	2232	P055 GRADE	
GRADE P055JN(*)	3"	1314	620	37.3	2232	P055 GRADE	
grade P060KN(*)	4"	2119	1000	60.0	3600	060 ^{GRADE}	

^{(*) =} Replace with (F) when ordering AO/AA coalescing filters, (M) when ordering AO/AA dry particulate filters or (M) when ordering ACS oil vapor removal filters.

Applying Corrective Factors

- To correctly select a filter model, the flow rate of the filter must be adjusted for the minimum operating
 pressure of the system.
- Obtain the minimum operating pressure and maximum compressed air flow rate at the inlet of the filter.
- Select the correction factor for minimum operating pressure from the CFP table (always round down e.g. for 73.2 psi, use 73 psi correction factor).
- Calculate the minimum filtration capacity: Minimum Filtration Capacity = Compressed Air Flow Rate x CFP.
- Using the minimum filtration capacity, select a filter model from the flow rate tables above (filter selected must have a flow rate equal to or greater than the minimum filtration capacity.

Filtration Performance

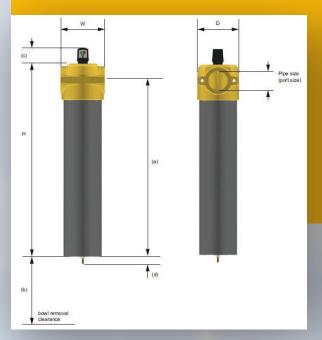
Filtration Grade	WS	Α0	AA	ACS
Filter Type	Bulk Liquid Removal	Coalescing &Dry Particulate	Coalescing & Dry Particulate	Oil Vapor Removal
Particle Removal (inc water & oil aerosols)	N/A	Down to 1 micron	Down to 0.01 micron	N/A
Max Remaining Oil Content at 21°C (70°F)	N/A	0.5mg/m³ 0.5 ppm(w)	0.01mg/m³ 0.01 ppm(w)	0.003 mg/m³ 0.003 ppm(w)
Filtration Efficiency	>92%	99.925%	99.9999%	N/A
Test Methods Used	IS08573.9	IS08573.2 IS08573.4 IS012500-1	IS08573.2 IS08573.4 IS012500-1	IS08573.5
ISO12500-1 Inlet Challenge Concentration	N/A	40mg/m³	10mg/m³	N/A
Initial Dry Differential Pressure	N/A	<1.0psi (70 mbar)	<1.0psi (70 mbar)	<2.0psi (140 mbar)
Initial Saturated Differential Pressure	N/A	<1.8psi (125 mbar)	<1.8psi (125 mbar)	N/A
Change Element Every	N/A	12 months	12 months	When Oil Vapor is Detected
Precede with Filtration Grade	N/A	WS (for bulk liquid)	AO	AA

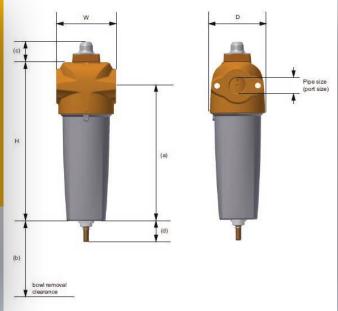
Line Pr	essure	Correction Factor Pressure (CFP)
psi g	bar g	Pressure (CFP)
15	1	2.65
29	2	1.87
44	3	1.53
58	4	1.32
73	5	1.18
87	6	1.08
100	7	1.00
116	8	0.94
131	9	0.88
145	10	0.84
160	11	0.80
174	12	0.76
189	13	0.73
203	14	0.71
218	15	0.68
232	16	0.66
Ma	nual drain	filters only
248	17	0.64
263	18	0.62
277	19	0.61
290	20	0.59

^{□=} Replace with (I) for differential Pressure Indicator. Replace with (X) for no differential pressure indicator.

^{*}AO/AA only available with differential pressure indicator (I). WS/ACS only available without differential pressure indicator (X).

Diagram of filter dimensions





M. 1.1	Pipe	Heig	ht (H)	Widt	h (W)	Dept	h (D)	(a)	(k	b)	(0	:)	(0	d)	Wei	ght
Model	Size	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	kg	lbs
WS / P010A	1/4"	180	7.09	76	2.99	66	2.60	154	6.1	50	1.97	32	1.3	38	1.5	0.61	1.34
WS / P010B	3/8"	180	7.09	76	2.99	66	2.60	154	6.1	50	1.97	32	1.3	38	1.5	0.61	1.34
WS / P010C	1/2"	180	7.09	76	2.99	66	2.60	154	6.1	50	1.97	32	1.3	38	1.5	0.61	1.34
WS / P015C	1/2"	238.5	9.36	89	3.5	83.5	3.29	202	8.0	50	1.97	32	1.3	38	1.5	1.16	2.55
P020C	1/2"	238.5	9.36	89	3.5	83.5	3.29	202	8.0	50	1.97	32	1.3	38	1.5	1.12	2.58
WS / P020D	3/4"	238.5	9.36	89	3.5	83.5	3.29	202	8.0	50	1.97	32	1.3	38	1.5	1.12	2.58
WS / P020D	3/4"	227	10.9	120	4.72	114.5	4.5	232	9.1	70	2.76	32	1.3	38	1.5	2.21	4.86
WS / P025E	1"	227	10.9	120	4.72	114.5	4.5	232	9.1	70	2.76	32	1.3	38	1.5	2.21	4.86
WS / P030G	1-1/2"	367	14.45	120	4.72	114.5	4.5	323	12.7	70	2.76	32	1.3	38	1.5	2.68	5.91
WS / P035G	1-1/2"	531	20.9	164	6.46	156	6.10	384	15.1	100	3.94	68	2.68	38	1.5	6.90	15.20
WS / P040G	2"	623	24.5	164	6.46	156	6.10	476	18.7	100	3.94	68	2.68	38	1.5	7.30	16.10
WS / P045H	2-1/2"	623	24.5	164	6.46	156	6.10	476	18.7	100	3.94	68	2.68	38	1.5	7.10	15.65
WS / P050I	2-1/2"	745	29.3	192	7.56	183	7.20	587	23.1	120	4.72	68	2.68	38	1.5	10.30	22.71
P055I	2-1/2"	935	36.8	192	7.56	183	7.20	772	30.4	120	4.72	68	2.68	38	1.5	15.30	33.73
WS / P055J	3"	935	36.8	192	7.56	183	7.20	772	30.4	120	4.72	68	2.68	38	1.5	15.30	33.73

Worldwide Filtration Manufacturing Locations

North America

Compressed Air Treatment

Industrial Gas Filtration and Generation Division

Lancaster, NY 716 686 6400 www.parker.com/igfg

Haverhill, MA 978 858 0505 www.parker.com/igfg

Engine Filtration

Racor

Modesto, CA 209 521 7860 www.parker.com/racor

Holly Springs, MS 662 252 2656 www.parker.com/racor

Hydraulic Filtration

Hydraulic & Fuel Filtration

Metamora, OH 419 644 4311 www.parker.com/hydraulicfilter

Laval, QC Canada 450 629 9594 www.parkerfarr.com

Velcon Colorado Springs, CO 719 531 5855 www.velcon.com

Process Filtration

domnick hunter Process Filtration SciLog

Oxnard, CA 805 604 3400 www.parker.com/processfiltration

Water Purification

Village Marine, Sea Recovery, Horizon Reverse Osmosis

Carson, CA 310 637 3400 www.parker.com/watermakers

Europe

Compressed Air Treatment

domnick hunter Filtration & Separation

Gateshead, England +44 (0) 191 402 9000 www.parker.com/dhfns

Parker Gas Separations

Etten-Leur, Netherlands +31 76 508 5300 www.parker.com/dhfns

Hiross Airtek

Essen, Germany +49 2054 9340 www.parker.com/hzfd

Padova, Italy +39 049 9712 111 www.parker.com/hzfd

Engine Filtration & Water Purification

Racor

Dewsbury, England +44 (0) 1924 487 000 www.parker.com/rfde

Racor Research & Development

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Hydraulic Filtration

Hydraulic Filter

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Condition Monitoring Parker Kittiwake

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Process Filtration

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