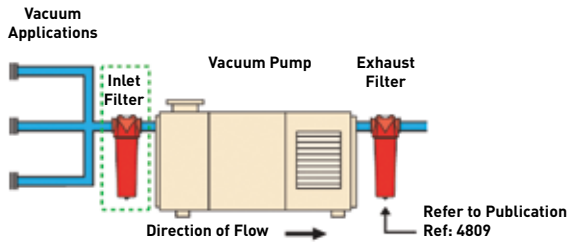
OIL-X EVOLUTION

High Efficiency
Vacuum Pump Protection Filters

OIL-X EVOLUTION Vacuum Pump Protection Filters are designed for the removal of liquid and solid contamination from the suction side of vacuum pump systems, preventing contamination and potential damage to the vacuum pump.

OIL-X EVOLUTION compressed air filters use very little energy as they have a low resistance to air flow. Pleated media construction and oleophobic coatings have led to a high performance filter element with low energy costs throughout its life.

Vacuum Pump - Typical Installation



Contact Information:

Parker Hannifin Manufacturing Limited
domnick hunter Filtration and Separation Division
Dukesway, Team Valley Trading Estate
Gateshead, Tyne and Wear
England NE11 0PZ

Tel: +44 (0)191 402 9000
Fax: +44 (0)191 482 6296
Email: dhindsales@parker.com
www.parker.com/dhfns

Benefits:

- **Protects vacuum pump**
- **Filtration performance independently verified by Lloyds Register**
- **Low cost of ownership**
- **Airflow management system and deep pleat element technology provides minimal pressure losses**
- **Deep pleat element technology also provides higher dirt holding capacity when compared to traditional filter elements**
- **Multiple port sizes for a given flow rate provides increased flexibility during installation**
- **Corrosion protected**
- **Externally epoxy coated**
- **Small, compact & lightweight**
- **Manual drain valve**
- **Quick, easy maintenance**
- **10 year housing guarantee**
- **Optional DP monitor**
- **Optional mounting bracket kits**

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Technical Data

Stated flows are for operation at 1 bar (abs) (750 Torr) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure.

Model	Pipe Size	Free Air capacity at Atmospheric				Replacement Element Kit	Max Operating Vacuum		Max Recommended Operating Temp.		Min Recommended Operating Temp.	
		L/s	L/min	m^3/hr	cfm		Torr	Ins Hg (abs)				
ARV010A ☐ MX	1/4”	1	60	3.6	2	010AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV010B ☐ MX	3/8”	1	60	3.6	2	010AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV010C ☐ MX	1/2”	1	60	3.6	2	010AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV015B ☐ MX	3/8”	3	160	9.6	6	015AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV015C ☐ MX	1/2”	3	160	9.6	6	015AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV020C ☐ MX	1/2”	4	250	15	9	020AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV020D ☐ MX	3/4”	4	250	15	9	020AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV020E ☐ MX	1”	4	250	15	9	020AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV025D ☐ MX	3/4”	8	450	27	16	025AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV025E ☐ MX	1”	8	450	27	16	025AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV030E ☐ MX	1”	15	900	54	32	030AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV030F ☐ MX	1 1/4”	15	900	54	32	030AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV030G ☐ MX	1 1/2”	15	900	54	32	030AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV035F ☐ MX	1 1/4”	25	1500	90	53	035AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV035G ☐ MX	1 1/2”	25	1500	90	53	035AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV040G ☐ MX	1 1/2”	33	2000	120	71	040AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV040H ☐ MX	2”	33	2000	120	71	045AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV045H ☐ MX	2”	2	2500	150	88	045AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV050I ☐ MX	2 1/2”	58	3500	210	124	050AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV050J ☐ MX	3”	58	3500	210	124	050AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV055I ☐ MX	2 1/2”	83	5000	300	176	055AR	1	0.04	100°C	212°F	1.5°C	35°F
ARV055J ☐ MX	3”	83	5000	300	176	055AR	1	0.04	100°C	212°F	1.5°C	35°F

Larger sizes availble on request. Filtration Efficiency: Particle removal down to 1 micron.

Product Coding and Selection

GRADE	MODEL	PIPE SIZE	CONNECTION TYPE	DRAIN	INCIDENT MONITOR OPTION
AR	3 digit code shown above	Letter denotes pipe size	B = BSPT N = NPT	M = Manual	X = Non I = Differential Pressure monitor
AR	010	A	B	M	X

Models 015 - 055 only.

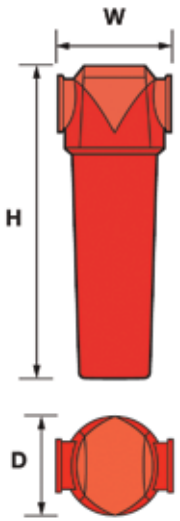
Filter Selection

(1) To find the capacity of an AR filter at a known vacuum condition, multiply the filter Free Air Capacity in the table shown by correction factor C1.

(2) To select a filter to match system flow conditions, multiply the system flow by the correction factor C2 that corresponds to vacuum in the pipe.

Vacuum Filter Conversion Factors					
Vacuum				C1	C2
mbar (abs)	Torr	mm Hg (abs)	ins Hg (abs)		
1000	750	750	29.5	1.0	1.0
900	675	675	26.6	0.9	1.1
800	600	600	23.6	0.8	1.3
700	525	525	20.7	0.7	1.4
600	450	450	17.7	0.6	1.7
500	375	375	14.8	0.5	2.0
400	300	300	11.8	0.4	2.5
300	225	225	8.9	0.3	3.3
200	150	150	5.9	0.2	5.0
100	75	75	3.0	0.1	10.0

Model	Pipe Size	Height (H)		Width (W)		Depth (D)		Weight	
		mm	ins	mm	ins	mm	ins	kg	lbs
ARV010A	1/4”	181	7.2	76	3.0	64	2.5	0.4	0.88
ARV010B	3/8”	181	7.2	76	3.0	64	2.5	0.4	0.88
ARV010C	1/2”	181	7.2	76	3.0	54	2.5	0.4	0.88
ARV015B	3/8”	235	9.3	97	3.8	84	3.3	1	2.2
ARV015C	1/2”	235	9.3	97	3.8	84	3.3	1	2.2
ARV020C	1/2”	235	9.3	97	3.8	84	3.3	1	2.2
ARV020D	3/4”	235	9.3	97	3.8	84	3.3	1	2.2
ARV020E	1”	235	9.3	97	3.8	84	3.3	1	2.2
ARV025D	3/4”	275	10.8	129	5.1	115	4.5	2.2	4.84
ARV025E	1”	275	10.8	129	5.1	115	4.5	2.2	4.84
ARV030E	1”	364	14.3	129	5.1	115	4.5	2.6	5.72
ARV030F	1 1/4”	364	14.3	129	5.1	115	4.5	2.6	5.72
ARV030G	1 1/2”	364	14.3	129	5.1	115	4.5	2.6	5.72
ARV035F	1 1/4”	432	17.0	170	6.7	156	6.1	4.5	9.9
ARV035G	1 1/2”	432	17.0	170	6.7	156	6.1	4.5	9.9
ARV040G	1 1/2”	524	20.6	170	6.7	156	6.1	5.25	11.55
ARV040H	2”	524	20.6	170	6.7	156	6.1	5.25	11.55
ARV045H	2”	524	20.6	170	6.7	156	6.1	5.25	11.55
ARV050I	2 1/2”	641	25.3	205	8.1	181	7.1	10	22
ARV050J	3”	641	25.3	205	8.1	181	7.1	10	22
ARV055I	2 1/2”	832	32.8	205	8.1	181	7.1	12	26.4
ARV055J	3”	832	32.8	205	8.1	181	7.1	12	26.4



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