# SPECIFICATIONS



## 4500 Series, 60 HP-60 Hz Horsepower Rated

MODEL	4509	4510	4512	
Compressor Performance*				
Full Load Pressure - psig	125	150	175	
Capacity at Full Load Pressure - acfm	267	247	220	
Power at Full Load Pressure - bhp	67.2	675	65.2	
Package kW Air-cooled	54.9	551	53.3	
Package kW Water-cooled	53.6	53.8	51.9	
Gear Ratio	2.75	2.56	230	
Electrical Data (Typical)	200V	230V	460V	575V
Motor hp	60	60	60	60
Motor Nominal Efficiency	93.6%	93.6%	93.6%	93.6%
Nominal rpm	1770	1770	1770	1770
Frame Size (ODP)	364ISC	364TSC	364TSC	3641SC
Service Factor	1.2	1.2	1.2	1.2
Nameplate Amps	165.6	144	72	57.6
Locked Rotor Amps - Max	1001	870	435	348
Starter Size – NEMA/Amps	354	354	172	172
Electrical Enclosure	NEMA 4	NEMA 4	NEMA 4	NEMA 4
Cooling Data				
Fluid Flow – gpm	14.4	16.0	15.0	
Heat Rejection - Fluid Clr. BIU/min	2364	2414	2363	
Heat Rejection - Aft. Chr. BTU/min.	488	450	401	
Air/Fluid Receiver				
Fluid Fill Capacity - U.S. Gal.	3.5	3.5	3.5	
Volume - Cubic Feet Air (U.S. Gal)	10	10	10	
Rated Pressure - psig	210	210	210	
Dimensions & Weights w/Enclosure - Uncrated	(Crated)			
Length - inches	62 (68)	62 (68)	62 (68)	
Width - inches	34.5 (49.5)	34.5 (49.5)	34.5 (49.5)	
Height - inches	61.5 (76)	61.5 (76)	61.5 (76)	
Weight - Ibs	2190 (2520)	2190 (2520)	2190 (2520)	
Discharge Connection - in NPT	1 1/2	1 1/2	1 1/2	
Moisture Drain Connection - in NPT	1/4	1/4	1/4	



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### 4500 Series, 60 HP-60 Hz Horsepower Rated

MODEL	4509	4510	4512		
dBA Ratings at 1 Meter (Typical) Air-cooled w/enclosure	68	68	68		
Water-cooled w/enclosure	Consult Factory	00	00		
Water-cooled Series Flow (w/aftercooler)					
Flow at 80°F Water in - gpm	11.2	11.2	11.2		
Pipe connection NPT In/Out - inches	3/4 / 3/4	3/4 / 3/4	3/4 / 3/4		
Max./Min. Water Pressure - psig	75 / 25	75 / 25	75 / 25		
Water Outlet Temperature °F	110	110	110		
Cooling Air Flows					
Air Flow Water-cooled Fan w/encl - cfm	730	730	730		
Water-cooled Vent Fan - hp	1/30	1/30	1/30		
Air Flow Air-cooled Fan - cfm	5600	5600	5600		
Air-cooled Fan Motor - hp	1.5	15	1.5		
Filter Rating					
Inlet Air	99.99% Eff. Per	SAE J726C			
Main Lubricant Flow	Beta 15 = 75 Per ISO 4572				

<sup>\*</sup>Capacity per CAGI / PNEUROP PN2CPIC2 (Annex C to ISO 1217.)

NOTE: Data subject to change without notice.

Sullair Corporation 3700 E. Michigan Blvd., Michigan City, IN 46360 Tel: 1-800-SULLAIR FAX: 219-874-1273 www.sullair.com



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MX103c

### **Brief Description**

Modular dual tower heatless deisccant dryer constructed from aluminium extrusion, for use in purification of compressed air Available with SMART SMART - DDS (Display) and ADVANCED monitoring and control

	Metric	Units	<del></del>	Imperial Units
Nominal Conditions				
Reference Conditions				
1 Compressed air inlet pressure	7	bar g		102 psi g
2 Compressed air inlet temperature	35	°C		95 95 °F
3 Compressed air RH	100	%		100
4 Pressure dew-point	-40	°C ° <i>C</i>		-40 °F -42 °F
Option	-20	°C		
Option	-70	C		- 194 - 194
Operating Limits				
1 Maximum compressed air inlet pressure"	13	bar q		[89 pis.g
Minimum compressed air inlet pressure	4	bar g		58 pis g
3 Maximum compressed air inlet temperature	50	°C		122 °F
4 Minimum compressed air inlet temperature	2	°C		35.6 °F
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Electrical supply options				
Voltages	85-264	Vac		
Phase	. 1	Ph		
Frequency	50/60	Hz		•
Maximum Power MXS <sup>"2</sup>	18	W		0.02 HP
Maximum Power MXA <sup>"2</sup>	35	W		0.05 HP
Ingress Protection 3	65	IΡ		12 NEMA
Dimensions				
Length	865	mm		34.0 inches
Depth	550	mm		21.7 Inches
Height	1647	mm		64.8 inches
Weight	316	kg		697 Ib
Process Connections				
inlet	2	inch	(BSP / NPT)	
Outlet	2	inch	(BSP / NPT)	
Exhaust	2	ínch	(BSP / NPT)	

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MX103c

### ISO8573 Classification

Particulate Class 3<sup>\*4</sup>
Option Class 2<sup>\*4</sup>
Option Class 1<sup>\*4</sup>

 Water
 Class 2
 -40
 °C

 Option
 Class 3
 -20
 ° C

 Option
 Class 1
 -70
 ° C

Oil Class 1<sup>14</sup> 0 01 μm

### Performance data

### Water Class 2

Inlet	Inlet F	Inlet Flowrate*5 (m³/h) at Temperature				
Pressure						
(Barg)	35	40	45	50		
4.0	382	370	336	279		
5.0	458	445	403	335		
6.0	535	519	470	390		
7.0	611	593	538	446		
8.0	687	667	605	502		
9.0	764	741	672	558		
10.0	840	815	739	613		
11.0	917	889	807	669		
12.0	993	963	874	725		
13.0	1069	1037	941	781		

Infet	inlet	-lowrate <sup>75</sup> (cfr	n) at Tempe	rature
Pressure				
(piaq)	95	104	113	122
58	225	218	198	164
73	270	262	237	197
87	315	305	277	230
102	360	349	316	263
116	405	392	356	295
131	450	436	396	328
145	494	480	435	361
160	539	523	475	394
174	584	-567	514	427
189	629	610	654	459

### Water Class 3

lniet	Inlet Flowrate*5 (m³/h) at Temperature				
Pressure					
(Barg)	35	40	45	50	
4.0	420	407	370	307	
5.0	504	489	444	368	
6.0	588	570	517	429	
7.0	672	652	591	491	
0.8	756	733	665	552	
9,0	840	815	739	613	
10.0	924	896	813	675	
11.0	1008	978	887	736	
12.0	1092	1059	961	797	
13.0	1176	1141	1035	858	

Inlet	Inlet 8	lowrate (cfr	n) at Temper	ature
Pressure				
(psig)	95	104	113	122
58	247	240	218	180
73	297	288	261	217
87	346	336	305	253
102	396	384	348	289
116	445	432	392	325
131	494	480	435	361
145	544	528	479	397
160	593	575	522	433
174	643	623	566	469
189	692	671	609	505

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MX103c

### Performance data (continued)

### Water Class 1

Inlet	Inlet Flowrate*5 (m3/h) at Temperature					
Pressure						
(Barg)	35	40	45	50		
4.0	268	259	235	195		
5.0	321	311	282	234		
6.0	375	363	330	273		
7.0	428	415	377	312		
8.0	482	467	424	351		
9.0	535	519	471	391		
10.0	589	571	518	430		
11.0	642	623	565	469		
12.0	696	675	612	508		
13.0	749	727	659	547		

Inlet	Inlet	-lowrate's (cl	m) at Tempe	rature
Pressure				
(psig)	95	104	113	122
58	157	153	139	115
73	189	183	166	128
87	220	214	194	161
102	252	244	222	184
116	283	275	249	207
131	315	305	277	230
145	346	336	305	253
160	378	367	333	276
174	409	397	360	299
189	441	428	388	322

### Noise Levels"8

	Standard	Leq Peak	<80 <120	dB(A) dB(C)
Option	Super (2-stage)	Leq	<75	dB(A)

### **Purification Stages**

 1st Stage
 Water Separator
 WS-250

 2nd Stage
 1 0µm coalescing filter
 AO-040H\_FX

 3rd Stage
 0 01µm coalescing filter
 AA-040H\_FX

4th Stage Desiccant Bed Configured to meet required water class

5th Stage Particulate Class 3 dust filter AR-040H\_MX
6th Stage Particulate Class 2 dust filter AAR-040H\_MX

7th Stage Particulate Class 1 dust filter VBA-142\_\_\_\_Point of use

### **Desiccant Bed**

 Desiccant type
 Water Class 2
 90% Dryfil AA + 10% Dryfil 13X

 Option
 Water Class 3
 100% Dryfil AA

 Option
 Water Class 1
 20% Dryfil WS + 80% Dryfil 13X

Desiccant Volume (per side) 65.8 litres 2.3 Cubic Feet

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### Monitoring

	Minimum	Maximum	
Inlet Pressure Transmitter	0	16	barg
inlet Temperature Sensor	0	141	°C
Outlet Dewpoint Transmitter	-100	20	°C
Column Pressure Gauges	0	20	barg

Minimum Maximum	
0 232 osio .	
0 232 psiq	
97 286 07	
32 286 °F	
-148 68 °F	
0 290 psig	

### MXA optional

Remote communication capability to PC with additional hardware and bespoke software

### MXS Standard

in to bear and			
	Minimum	Maximum	
Column Pressure Gauges	0	20	barg

	HEROTOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO	
Minimum Maximu	(C)	
THE STREET STREET	0.10	
0 2	100	
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### MXS optional

	Minimum	Maximum	
Outlet Dewpoint Transmitter	-100	20	°C

### **Approvals**

Refer to Declaration Of Conformity

### **Warranty Period**

12-month from installation or 18-months from delivery whichever is sooner

### <u>Notes</u>

<sup>\*1</sup> A quick repressurisation valve (QRV) is required when operating at pressures greater than 9 0barg (130psig)

<sup>&</sup>lt;sup>2</sup> Worse case power requirement power requirement will be lower with some valve configurations

<sup>&</sup>lt;sup>3</sup> This product is not suitable for installation outdoors

<sup>&</sup>lt;sup>4</sup> Dependent on filtration selection

 $<sup>^{5}</sup>$  Flow rate is referenced to 20 °C (68 °F) and at 1 bar A (14 5 psi A)

<sup>&</sup>lt;sup>16</sup> At nominal conditions

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# **OIL-X EVOLUTION**

## **Technical Data - Grade AA**

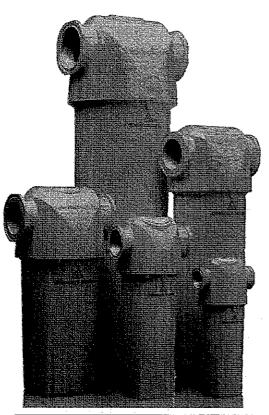
The all new range of domnick hunter OIL-X EVOLUTION aerosol and particulate removal filters redefine the standards in compressed air filter performance. All aspects of cartridge filter design have been considered with the sole purpose of providing compressed air to international quality standards whilst reducing the cost of ownership and the space envelope required for installation.

OIL-X EVOLUTION has been designed from the ground up with the key design focus concentrated in critical areas such as air flow management, filtration media selection & construction and the efficient removal of coalesced liquid. OIL-X EVOLUTION has also been designed to be fully compliant with the forthcoming changes to the international standard detailing the method for filter testing.

Flow capacities at 7bar g (102 psi g) ANR conditions. For flows at other pressures, correction factors must be applied.

Model	Pipe Size	L/S	Flow Nm³/min	rates Nm³/hr	scfm	Replacement Element Kit	No.
AA O10A	1/4"	10.	0.6	36	21	10 AA	'1
AA 010B	3/8"	10	0.6	36	21	10 AA	1
AA 010C	1/2"	10	0.6	36	21	10 AA	1.0
100 (E. 9.161E)	0.68	20 1	100000	72	42		
76.0190	14/2"	20	11.2	72	102	10 215 AAG (5	
AA 020C	1/2"	30	1.8	108	64	20 AA	1
AA 020D	3/4"	30	1.8	108	64	20 AA	11
AA 020E	1"	30	1.8	108	64	20 AA	1
10 Jan 0850 111	864	60.5	3/6	216	224	h = 25 4/17 = 1	å de G
#A 0265	18		11156	2101	727	25 6 4 1 1	1
AA 030E	1"	110	6.6	396	233	30 AA	111
AA 030F	1 1/4"	, 110	6.6	396	233	30 AA	1
AA 030G	1.1/2"	110	6.6	396	233	30 AA	1.75
- 0 - AV 6:50 GUS	d al	160	3.6	576	137.9	25 (44 (44 (44 (44 (44 (44 (44 (44 (44 (4	1 1
20 8/A 005(V	SHEVE	0.000	3002	57G	1 - 309;	Para Gradus	1.5
AA 940G	1 1/2"	220	13.2	792	466	40 AA	1
AA 040H	2"	220	\13.2	792	466	40 AA	1
- 1-600 8451 - EU	1-2	3305	19.8	94169	549	456 (19)	
AA 050i	2 1/2"	430	25.8	1548	911	50 AA	- 1
AA 050J	3"	430	25.8	1548	9.11	50 AA	1
AA 056	pripa	022		2202	1314	JE155 AA. 13	1.
9 E 39 64 0065 F 111	105	62019	10.00	12202	13/4	# ,65 A*T	910







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### **OIL-X EVOLUTION Technical Data - Grade AA**

### Filtration Grade AA - High Efficiency General Purpose Protection

(Precede Grade AA with Grade AO Filter)

Particle removal :

Down to 0.01 micron, including water and oil aerosols.

Maximum remaining oil

aerosol content:

Initial Dry Differential Pressure: Saturated Differential Pressure:

Change Element Every:

0.01 mg/m<sup>3</sup> at 21°C

0.01 ppm(w) at 70°F. 100 mbar (1.5 psi)

200 mbar (3 psi)

12 Months

Max Operating Pressure:

16 bar g (232 psi g) with float drain

20 bar g (290 psi g) with manual drain

Max Operating Temperature:

80°C (176°F) with float drain

100°C (212°F) with manual drain

**Min Operating Temperature:** 

1.5°C (35°F)

Inlet / Outlet Connections:

BSPT or NPT (specified at time of ordering)

**Drain Bowl Connection:** 

1/2" Female

Float Drain Connection:

1/4" Male via 8mm push in fitting

**Manual Drain Connection:** 

1/2" Female

**Materials of Construction** 

Housing:

Pressure Housing - Diecast aluminium

Sealing - High Nitrile

Sensor - Glass Filled Nylon

Optional Incident Monitor - ABS

Element:

Glass Filled Nylon

Stainless Steel

Borosilicate Nanofibre

Polyester Epoxy

High Nitrile

**Corrosion Protection:** 

Alochrom Treatment & Dry Powder Epoxy

Design Code:

Generally to ASME VIII Div 1 / AS1210

**PED Fluid Group:** 

Group 2 Compressed Air

**Quality Standards:** 

Manufactured in accordance with

ISO9001: 2000 and ISO 14001

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# **OIL-X EVOLUTION**

### **Technical Data - Grade AR**

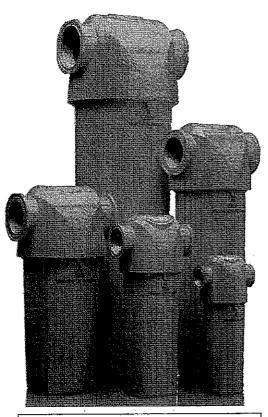
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OIL-X EVOLUTION has been designed from the ground up with the key design focus concentrated in critical areas such as air flow management, filtration media selection & construction and the efficient removal of coalesced liquid. OIL-X EVOLUTION has also been designed to be fully compliant with the forthcoming changes to the international standard detailing the method for filter testing.

Flow capacities at 7bar g (102 psi g) ANR conditions. For flows at other pressures, correction factors must be applied.

Model	Pipe	Mar		rates	11.11.11	Replacement	
	Size	L/S	Nm³/min	Nm³/hr	scfm	Element Kit	No.
AR 010A	1/4"	10	0.6	36	21	10 AR	1 ×
AR 0108	3/8"	10	0,6	- 36	, 21	10 AR	1.
AR 010€	1/2"	10	0.6	36	21	10 AR	. 1
AF 0106 Es	3.6	20		. 7	46	10.69	
AR C166	172	20	1.7	72 -	46	8.67	
AR 020G	1/2"	30	1.8	108	64	20 AR	1
AR 020D	3/4"	30	1.8	108	54	20 AR	- 1
AR 020E	1 1 1	30	1.8	108	64	20 AR	1
AR 0280 J	3 3 4 3	- 65	1.00	275	197	1.564.54	
AR USES		60		218	100	26.63	
AR 030E	1"	110	6.6	398	233	30 AR	1
AR 030F	1 1/4"	110	6.6	396	233	30 AR	1
AR 030G	1 1/2"	110	6,6	396	233	30 AR	.1
AR USBERS	3,02	160	100	14/6	33.0		
4. 37.B (866.E)	1.52	160	4.0	3576	939.	14.64	
AR 040G	1 1/2"	220	13.2	792	466	40 AR	1
AR 040H	2"	220	13.2	792	466	40 AR	1
AR OMB	4 - 2 -	130	10.2	186	(27,650)	<b>加速的格特等</b> 生	S-8-8
AR 0501	2 1/2"	430	25.8	1548	911	50 AR	1 1
AR 050J	3"	430	25.8	1548	911	50 AR	1
40.0845	2 2 100	620	27072	2237	100	1255 ART	16769-16
911 PR 050 4	10.00	620	17.7	22323	1314	THE ARTH	

# domnick hunter





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### **OIL-X EVOLUTION Technical Data - Grade AR**

### Filtration Grade AR - General Purpose Dust Filtration

**Dry Particle removal :** Down to 1 micron

Initial Dry Differential Pressure: 70 mbar (1 psi)

Change Element Every: 12 Months

Max Operating Pressure: 20 bar g (290 psi g) with manual drain

Max Operating Temperature: 100°C (212°F) with manual drain

Min Operating Temperature: 1.5°C (35°F)

Inlet / Outlet Connections: BSPT or NPT (specified at time of ordering)

**Drain Bowl Connection :** 1/2" Female

Manual Drain Connection: 1/2" Female

**Materials of Construction** 

**Housing :** Pressure Housing - Diecast aluminium

Sealing - High Nitrile

Sensor - Glass Filled Nylon

Optional Incident Monitor - ABS

**Element :** Glass Filled Nylon

Stainless Steel

Borosilicate Nanofibre

Polyester Epoxy

High Nitrile

**Corrosion Protection:** Alochrom Treatment & Dry Powder Epoxy

**Design Code:** Generally to ASME VIII Div 1 / AS1210

PED Fluid Group: Group 2 Compressed Air

Quality Standards: Manufactured in accordance with

ISO9001: 2000 and ISO 14001

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# **OIL-X EVOLUTION**

## **Technical Data - Grade AO**

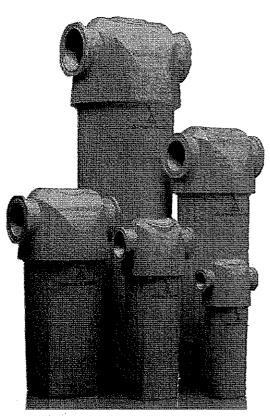
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# Flow capacities at 7bar g (102 psi g) ANR conditions. For flows at other pressures, correction factors must be applied

Model	Pipe Size	L/S		rates Nm³/hr	scfm	Replacement Element Kit	No.
AO 010A	1/4"	10	0.6	36	21	10 AO	1
AØ 010B	3/8"	10	0.6	36	21	10 AO	1
AO 010C	1/2"	10	0.6	36	. 21	10 AO	1
AG 6 16	6/81	201	112	272	142	1000	
ACO FU	1/2	100	4.12	74	42	15 AO E	
AO 020C	1/2"	30	1.8	108	64	20 AO	1
AO 026D	3/4"	30	1.8	108	64	20 AO	1
AO 020E	- 1"	30	1.8	108	64	20 AO	1
3.000	514			0.616		20 AC-1	
4.2.0.5				4 4	10.6	40.0	
AO 030E	. 1"	110	6.6	396	233	30 AO	1.0
AO 030F	1 1/4" :	110	6.6	396	233	30 AO	1
AO 030G	1 1/2"	, 110	5.6	396	233	30 AO	1
68.49AG-465F	1 4	100	10.0	576	- 639	35/10	
240.08%	13,12	1604	5.3		340	4940 6	
AO 040G	1 1/2"	220	13.2	792	466	40 AO	: 1
AO 040H	2'.	220	13,2	792	466	40 AO	1.
ENG 045E)	2	1000	1000	1000	1000	3 45 EQ 10 E	
AO 050l	2 1/2"	430	25.8	1548	911	50 AO	1
AQ 050J	3"	430	25.8	1548	911	50 AO	1
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21477	620	17.7	2922	2014	56AO 11	
1 140 065	31	620	572	2292		66 AG 01 1	







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### OIL-X EVOLUTION Technical Data - Grade AO

### Filtration Grade AO - High Efficiency General Purpose Protection

Particle removal:
Maximum remaining oil

aerosol content:

Initial Dry Differential Pressure: Saturated Differential Pressure:

Change Element Every:

Down to 1 micron, including water and oil aerosols.

0.6 mg/m3 at 21°C 0.5 ppm(w) at 70°F. 70 mbar (1 psi)

140 mbar (2 psi)

12 Months

Max Operating Pressure: 16 bar g (232 psi g) with float drain

20 bar g (290 psi g) with manual drain

**Max Operating Temperature :** 80°C (176°F) with float drain

100°C (212°F) with manual drain

Min Operating Temperature: 1.5°C (35°F)

Inlet / Outlet Connections:

BSPT or NPT (specified at time of ordering)

**Drain Bowl Connection:** 

1/2" Female

Float Drain Connection:

1/4" Male via 8mm push in fitting

Manual Drain Connection:

1/2" Female

Materials of Construction

Housing:

Pressure Housing - Diecast aluminium

Sealing - High Nitrile

Sensor - Glass Filled Nylon

Optional Incident Monitor - ABS

Element:

Glass Filled Nylon

Stainless Steel

Borosilicate Nanofibre

Polyester Epoxy

High Nitrile

**Corrosion Protection:** 

Alochrom Treatment & Dry Powder Epoxy

Design Code:

Generally to ASME VIII Div 1 / AS1210

PED Fluid Group:

Group 2 Compressed Air

**Quality Standards:** 

Manufactured in accordance with

ISO9001: 2000 and ISO 14001

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