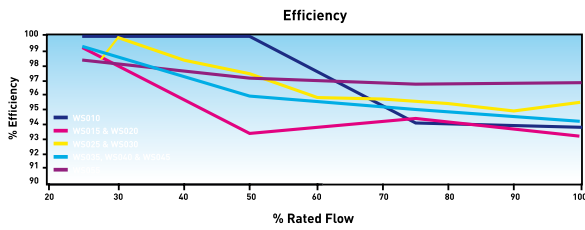


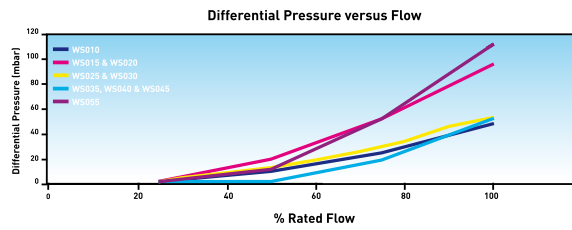
OIL-X EVOLUTION

Water Separators - Grade WS

Separation Performance (models WS010 - WS055)



Differential Pressure versus Flow (models WS010 - WS055)



Product Selection

Stated flows are for operation at 100 psi g (7 bar g) with reference to 68°F (20°C), 1 bar a, 0% relative water vapor pressure.

	Model	Pipe Size	cfm	L/S	m ³ /min	m ³ /hr
Cast Aluminum Range	WS010ANFX-US	1/4"	21	10	0.6	36
	WS010BNFX-US	3/8"	21	10	0.6	36
	WS010CNFX-US	1/2"	21	10	0.6	36
	WS015BNFX-US	3/8"	85	40	2.4	144
	WS020CNFX-US	1/2"	85	40	2.4	144
	WS020DNFX-US	3/4"	85	40	2.4	144
	WS020ENFX-US	1"	85	40	2.4	144
	WS025DNFX-US	3/4"	233	110	6.6	396
	WS030ENFX-US	1"	233	110	6.6	396
	WS030FNFX-US	1 1/4"	233	110	6.6	396
	WS030GNFX-US	1 1/2"	233	110	6.6	396
	WS035FNFX-US	1 1/4"	742	350	21	1260
	WS040GNFX-US	1 1/2"	742	350	21	1260
	WS045HNFX-US	2"	742	350	21	1260
	WS055INFX-US	2 1/2"	1695	800	48	2880
	WS055JNFX-US	3"	1695	800	48	2880
	WS1000	4"	2119	1000	60	3600
Carbon Steel Range	DH-WSA800-F	3" Flg	1700	802	48.1	2888
	DH-WSA1000-F	4" Flg	2100	991	59.5	3568
	DH-WSA1800-F	6" Flg	3780	1784	107	6422
	DH-WSA3000-F	8" Flg	6300	2973	178.4	10704
	DH-WSA4800-F	10" Flg	10080	4757	285.4	17126
	DH-WSA7200-F	12" Flg	15120	7136	428.2	25689

Correction Factors

Line Pressure		Correction Factor pressure (CFP)
psi g	bar g	
15	1	4.00
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
When ordering a WS filter for pressures above 232 psi g (16 bar g), use manual drain. Replace F with M in product code. e.g. 015BNFX becomes 015BNMX. Models 800F - 7200F not suitable for pressures above 232 psi g (16 bar g)		
248	17	0.67
263	18	0.65
277	19	0.63
292	20	0.62

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

1. Obtain the minimum operating pressure and maximum compressed air flow rate at the inlet of the filter.
2. Select the correction factor for minimum operating pressure from the CFP table (always round down e.g. for 75 psi, use 73 psi correction factor)
3. Calculate the minimum filtration capacity
Minimum Filtration Capacity = Compressed Air Flow Rate x CFP
4. Using the minimum filtration capacity, select a water separator model from the flow rate tables above (water separator selected must have a flow rate equal to or greater than the minimum filtration capacity)

Water separator coding example

WS010 - WS055

Grade	Model	Pipe Size	Connection Type	Drain Option	Incident Monitor Option
WS	3 digit code denotes filter housing size	Letter denotes pipe size	N = NPT G = BSPP	F = Float M = Manual	X = None
Example code					
WS	010	A	N	F	X

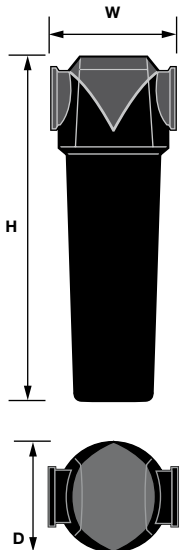
Technical Data

Grade	Water Separator Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temp		Max Operating Temp	
		psi g	bar g	psi g	bar g	°F	°C	°F	°C
WS	010ANFX-US - 055JNFX-US	15	1	232	16	35	2	176	80
WS	1000	15	1	232	16	35	2	150	66
DH-WSA	800-F - 1800-F	15	1	232	16	35	2	140	60
DH-WSA	3000-F - 7200-F	15	1	150	10.4	35	2	140	60

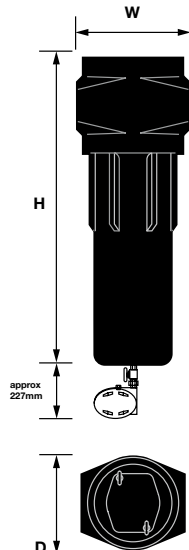
Weights and Dimensions

Model	Pipe Size	Height (H)		Width (W)		Depth (D)		Weight	
		ins	mm	ins	mm	ins	mm	lbs	kg
WS010ANFX-US	1/4"	7.2	181	3.0	76	2.5	64	1.3	0.6
WS010BNFX-US	3/8"	7.2	181	3.0	76	2.5	64	1.3	0.6
WS010CNFX-US	1/2"	7.2	181	3.0	76	2.5	64	1.3	0.6
WS015BNFX-US	3/8"	9.3	235	3.8	97	3.3	84	2.4	1.1
WS020CNFX-US	1/2"	9.3	235	3.8	97	3.3	84	2.4	1.1
WS020DNFX-US	3/4"	9.3	235	3.8	97	3.3	84	2.4	1.1
WS020ENFX-US	1"	9.3	235	3.8	97	3.3	84	2.4	1.1
WS025DNFX-US	3/4"	10.8	275	5.1	129	4.5	115	4.8	2.2
WS030ENFX-US	1"	10.8	275	5.1	129	4.5	115	4.8	2.2
WS030FNFX-US	1 1/4"	10.8	275	5.1	129	4.5	115	4.8	2.2
WS030GNFX-US	1 1/2"	10.8	275	5.1	129	4.5	115	4.8	2.2
WS035FNFX-US	1 1/4"	17	432	6.7	170	6.1	156	11.2	5.1
WS040GNFX-US	1 1/2"	17	432	6.7	170	6.1	156	11.2	5.1
WS045HNFX-US	2"	17	432	6.7	170	6.1	156	11.2	5.1
WS055INFX-US	2 1/2"	19.9	504	8.1	205	7.1	181	22.0	10.0
WS055JNFX-US	3"	19.9	504	8.1	205	7.1	181	22.0	10.0
WS1000	4"	33.3	847	16.5	420	11.1	282	92.0	42.0
DH-WSA800-F	3" Flg	41.5	1123	15	381	7.5	191	112.0	50.8
DH-WSA1000-F	4" Flg	48.6	1234	18	457	9.0	229	180.0	81.6
DH-WSA1800-F	6" Flg	54.8	1392	24	610	11.0	279	257.0	116.6
DH-WSA3000-F	8" Flg	CF	CF	CF	CF	CF	CF	CF	CF
DH-WSA4800-F	10" Flg	CF	CF	CF	CF	CF	CF	CF	CF
DH-WSA7200-F	12" Flg	CF	CF	CF	CF	CF	CF	CF	CF

WS010 - 055



WS1000



DH-WSA800-F - 7200-F

