

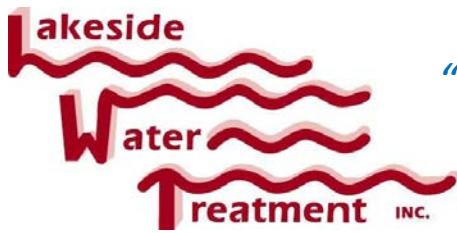
INDUSTRIAL FILTRATION EQUIPMENT

LWS Filter Series



Water Solutions * Custom Engineering * Industrial Performance

Single, Twin, Triple, Quadruple, and More Multiple Systems Available



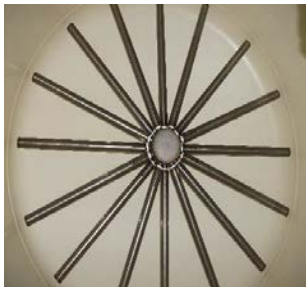
*“Designed, Tested, and Approved for Shipment
by LWT Engineering Staff”*

Industrial Performance and Proven Reliability

LWS Series filtration equipment can be engineered to solve water treatment problems. Our filtration equipment comes standard with a 2001 electronic cycle controller. Multiple tank systems often utilize the pressure differential package to initiate a regeneration.

Carbon Steel Pressure Vessels (NON-Code & ASME Code) - Standard working pressure is 100 PSI. Higher pressures are available with custom engineered systems. A standard epoxy lining is applied internally and safety blue finish coating is applied over the exterior of the vessel. The vessels are fabricated in NON-code for standard products, and ASME Code is optional. Alternative vessel material, such as stainless steel and fiberglass are available.

Lakeside Provides Media-Activated Carbon, Multi-Layer (Anthracite, Sand, Garnet), Anthracite and Manganese Greensand, Clinoptilolite (Filter-Ag Plus® and other brands), and other medias, based on filtering requirements.



Underdrain - The radial hub underdrain construction uses high quality schedule 80 PVC pipe and fittings, delivering high performance standards. The .010" PVC slotted laterals provide high flow rates and reliable service.

Optional Stainless Steel internals are available.



Cast Iron diaphragm or EPDM lined butterfly valve nest design allows each valve to be exactly designed and sized for the required functions, providing the most cost effective, efficient and serviceable system in the market. Numerous piping and valve configurations such as Copper, PVC, or Stainless steel are also available. Galvanized steel piping material is standard for 4" and smaller.



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The Standard Lakeside 2001 Programmable Microprocessor automatically controls the regeneration cycles by utilizing a pilot valve to operate the diaphragm process valves. These valves can be hydraulically or pneumatically operated for your operational requirements.



The Optional AQMatic Programmable Microprocessor provides single, twin, triple or up to eight multiple tank system capabilities. The controller features parallel operation with sequential regeneration for filters. Only one filter is in regeneration at a time, with the remaining filters always in service *(One auxiliary output is provided to start a chemical feeder, pump or motor application).*

Optional Rockwell Allen-Bradley® PLC control packages come standard with a color touch screen HMI which has user friendly programming. **Lakeside PLC solenoid system features a hold, advance, resume, terminate, or close of all valves function, for fast, easy, field service.** The main screen can be designed to display a variety of parameters, such as current online tank status. Custom programming available.



Pressure Differential Switch Systems are an option most commonly used on ML Filter Systems, removing turbidity and suspended particles down to nominal 10 microns. The switch has two pressure connections, one on the filter inlet and one on the filter outlet. When differential pressure rises above switch set-point, a signal to the controller will initiate regeneration, to clean the media bed. The correct backwash duration is critical to prevent premature bed failure. This can be accomplished by observing the backwash water at the end of the cycle and verifying the water is clear, ensuring a clean media bed for peak performance.

LWS-ML Multi-Layer Filter Model Specifications

LWS Model	Service Pipe Size Inch	Flow Cont. GPM	PSID	Flow Peak GPM	PSID	Media Tank Size DxOAH (Inches)	Backwash Pipe Size Inch	Backwash Flow GPM	Media Quantity Cu. Ft.*
ML-20	1	20	14	30	31	20 X 54	1	30	7
ML-24	1 1/4	30	8	45	18	24 X 54	1 1/4	40	10
ML-30	1 1/2	50	12	65	19	30 X 60	1 1/2	70	16
ML-36	2	70	7	105	16	36 X 60	2	105	22
ML-42	2 1/2	95	6	140	12	42 X 60	2 1/2	140	30
ML-48	2 1/2	120	9	170	17	48 X 60	2 1/2	180	40
ML-54	3	160	6	230	12	54 X 60	3	240	52
ML-60	3	200	9	260	14	60 X 60	3	300	63
ML-66	4	235	4	350	8	66 X 60	4	350	77
ML-72	4	275	5	415	10	72 X 60	4	415	91
ML-84	6	375	2	560	4	84 X 60	6	540	123
ML-96	6	495	3	740	6	96 X 60	6	740	162

*Anthracite, Filter Sand, Garnet 30-40 Mesh, Garnet 8-12 Mesh

Rev. 08/2020

LWS-MG Manganese Greensand Filter Model Specifications

LWS Model	Service Pipe Size Inch	Flow Cont. GPM	PSID	Flow Peak GPM	PSID	Media Tank Size DxOAH (Inches)	Backwash Pipe Size Inch	Backwash Flow GPM	Media Quantity Cu. Ft.**
MG-20	1	15	13	25	29	20 X 54	1	26	6
MG-24	1 1/4	20	7	35	16	24 X 54	1 1/4	37	9
MG-30	1 1/2	30	9	50	16	30 X 60	1 1/2	60	14
MG-36	2	45	6	75	13	36 X 60	2	85	22
MG-42	2 1/2	60	5	100	10	42 X 60	2	110	31
MG-48	2 1/2	80	7	125	14	48 X 60	2 1/2	140	43
MG-54	3	110	5	160	10	54 X 60	3	185	51
MG-60	3	140	7	200	12	60 X 60	3	230	64
MG-66	4	175	4	250	7	66 X 60	4	285	75
MG-72	4	200	4	280	8	72 X 60	4	340	90
MG-84	6	300	3	400	4	84 X 60	4	450	125
MG-96	6	390	3	500	5	96 X 60	6	600	165

**Anthracite, Manganese Greensand Plus®

LWS-AC Activated Carbon Filter Model Specifications

LWS Model	Service Pipe Size Inch	Flow Cont. GPM	PSID	Flow Peak GPM	PSID	Media Tank Size DxOAH (Inches)	Backwash Pipe Size Inch	Backwash Flow GPM	Media Quantity Cu. Ft.
AC-20	1	7	3	20	15	20 X 54	1	20	5
AC-24	1	10	5	30	31	24 X 54	1	30	8
AC-30	1 1/2	15	2	50	12	30 X 60	1 1/4	45	12
AC-36	2	20	2	65	7	36 X 60	1 1/2	70	18
AC-42	2	30	2	95	13	42 X 60	2	90	24
AC-48	2	40	3	120	20	48 X 60	2	110	32
AC-54	2 1/2	55	3	160	15	54 X 60	2 1/2	150	40
AC-60	2 1/2	70	4	175	18	60 X 60	3	190	50
AC-66	3	90	3	210	10	66 X 60	3	245	60
AC-72	3	100	3	250	14	72 X 60	3	270	75
AC-84	4	150	2	375	9	84 X 60	4	375	95
AC-96	4	195	3	490	132	96 X 60	4	475	125

LWS-Ag Plus® (Clinoptilolite) Filter Model Specifications

LWS Model	Service Pipe Size Inch	Flow Cont. GPM	PSID	Flow Peak GPM	PSID	Media Tank Size DxOAH (Inches)	Backwash Pipe Size Inch	Backwash Flow GPM	Media Quantity Cu. Ft.
Ag-20	1 (1 1/2)	20	14 (3)	30	30 (5)	20 X 54	1	32	5
Ag-24	1 1/4	30	8	45	17	24 X 54	1 1/4	45	8
Ag-30	1 1/2	50	11	65	18	30 X 60	1 1/2	70	12
Ag-36	2	70	7	105	15	36 X 60	2	105	18
Ag-42	2 1/2	95	6	140	12	42 X 60	2 1/2	140	24
Ag-48	2 1/2	120	9	170	16	48 X 60	2 1/2	180	32
Ag-54	3	160	6	230	11	54 X 60	3	240	40
Ag-60	3	200	9	260	14	60 X 60	3	300	50
Ag-66	4	235	4	350	7	66 X 60	4	350	60
Ag-72	4	275	5	415	9	72 X 60	4	415	75
Ag-84	6	375	5	560	4	84 X 60	6	540	95
Ag-96	6	495	3	740	5	96 X 60	6	740	125

LWS Series Water Filter Dimensions

MODEL NO.	MEDIA TANK	OAH	Width	Length-Inches			
				Single	Twin	Triple	Quad
LWS-XX-20	20" X 54"	69	32	25	57	89	121
LWS-XX-24	24" X 54"	70	36	27	63	99	135
LWS-XX-30	30" X 60"	81	42	34	76	118	160
LWS-XX-36	36" X 60"	89	50	40	88	136	184
LWS-XX-42	42" X 60"	103	68	44	98	152	206
LWS-XX-48	48" X 60"	100	74	52	116	180	244
LWS-XX-54	54" X 60"	102	79	58	128	198	268
LWS-XX-60	60" X 60"	104	85	64	140	216	292
LWS-XX-66	66" X 60"	106	64	70	152	234	316
LWS-XX-72	72" X 60"	106	100	76	164	252	340
LWS-XX-84	84" X 60"	106	106	88	184	280	376
LWS-XX-96	96" X 60"	106	118	100	208	316	424

- Dims. are approximate. • Add 6" to OAH for skid mounted. • ASME tanks add additional height.
- OAL includes 12" clearance between tanks. • Clearance above tanks required to load media

