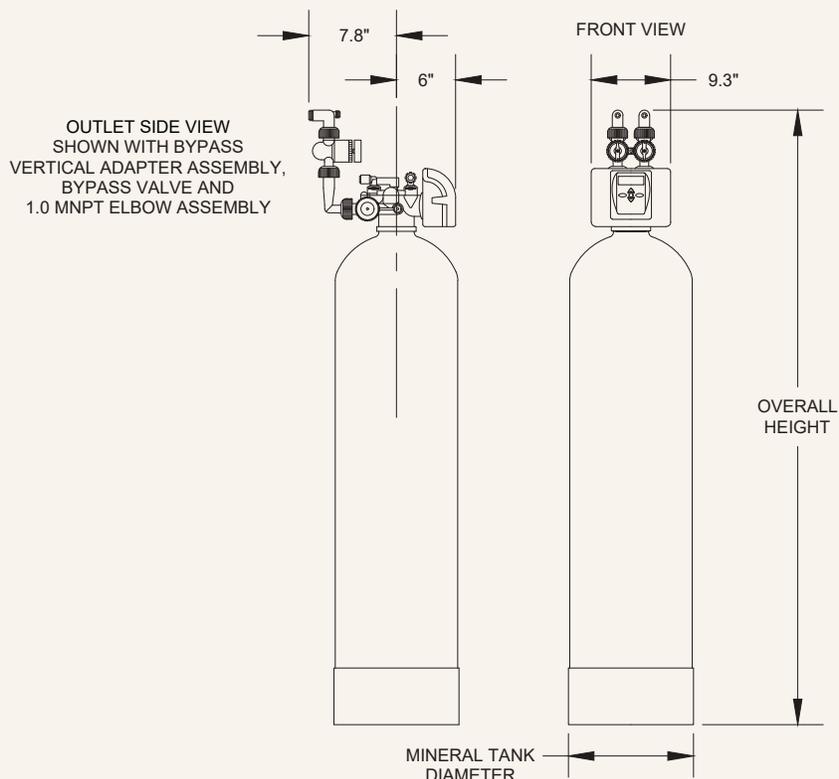




# LANCASTER

## WATER TREATMENT

### X-FACTOR SERIES L XKATAIR AQUANUE FILTERS



DIAMOND LINE L XKATAIR - AQUANUE ADVANCED AERATION FILTERS

L XKATAIR PROGRAM CYCLES*		AQUANUE (KATALOX LIGHT) ADVANCED AERATION FILTER					
Model Number	7-L XKATAIR-1B		7-L XKATAIR-2B		7-L XKATAIR-3B		
	Time	Gallons	Time	Gallons	Time	Gallons	
Units:							
1st Cycle: Air Release	1 sec	0	1 sec	0	1 sec	0	
2nd Cycle: Filtering	1 min	0	1 min	0	1 min	0	
3rd Cycle: Air Release	1 sec	0	1 sec	0	1 sec	0	
4th Cycle: Filtering	1 min	0	1 min	0	1 min	0	
5th Cycle: Air Release	1 sec	0	1 sec	0	1 sec	0	
6th Cycle: Filtering	1 min	0	1 min	0	1 min	0	
7th Cycle: Backwash	10 min	53	10 min	100	10 min	150	
8th Cycle: Regenerant Draw Down	13 min	23.4	18 min	32.4	30 min	54	
9th Cycle: End	-	-	-	-	-	-	
Total Gallons to Drain**	76.4		132.4		204		
Total Regeneration Time	≈ 26 min		≈ 31 min		≈ 43 min		
Days Between Backwash***	1		1		1		

\*Factory Program Settings for models with serial numbers ending with the number 1.

\*\*Based on 50 PSI Inlet Pressure

\*\*\*Factory Program Setting. Days between backwash can be field adjusted based on local conditions. Refer to manual. Backwashing every day is strongly recommended to replace the head of air. Less frequent backwashing should only be considered for application where iron is the only contaminant: 0.3 - 2.0 ppm iron, every 3rd day. 2.0 - 4.0 ppm iron, every other day.



# X-FACTOR SERIES L XKATAIR AQUANUE FILTERS

L XKATAIR SPECIFICATIONS*		AQUANUE (KATALOX LIGHT) ADVANCED AERATION FILTER		
Model Number		7-L XKATAIR-1B	7-L XKATAIR-2B	7-L XKATAIR-3B
Inlet/Outlet Fitting Options (Inches) <sup>1</sup>		0.75 - 1.0 <sup>1</sup> - 1.25 - 1.5	0.75 - 1.0 <sup>1</sup> - 1.25 - 1.5	0.75 - 1.0 <sup>1</sup> - 1.25 - 1.5
Bypass Included		Yes	Yes	Yes
Drain Fitting Elbow NPT (Inches)		3/4 NPT	1" NPT Straight Fitting	1" NPT Straight Fitting
Water Pressure Range (PSI)		20 - 100	20 - 100	20 - 100
Water Operating Temperature Range (°F)		35 - 100	35 - 100	35 - 100
Plug-In Power Adapter Input (VAC - Hz - A)		120V AC - 60Hz - 0.35A	120V AC - 60Hz - 0.35A	120V AC - 60Hz - 0.35A
Plug-In Power Adapter Output (VDC - A)		15V DC - 0.5A	15V DC - 0.5A	15V DC - 0.5A
Plug-In Power Adapter Cord Length (FT)		15 FT	15 FT	15 FT
PC Board Relay Terminal Block DC Output (V)		12V DC	12V DC	12V DC
3 Volt Lithium Coin Cell Battery (Type)		2032	2032	2032
Amount of Katalox Light (Cubic Feet) <sup>2</sup>		1	2	3
Service Flow Rates (GPM) <sup>3</sup>	Continuous	1.9 to 2.7	3.7 to 5.4	4.9 to 7.0
	Intermittent (Peak)	3.5 to 4.6	7.0 to 9.1	9.1 to 11.9
Overall Height (Inches)		66.4	77.73	77.33
Mineral Tank Size: Diameter x Height (Inches)		10 x 54	14 x 65	16 x 65
Bottom Distributor Type		Plate	Plate	Plate
Top Basket Distributor		No	No	No
Air Blocker		Yes	Yes	Yes
Underbed Layer		No	No	No
Drain Line Flow Control (GPM)		5.3	10	15
Injector (Color)		IK - Light Green	IK - Light Green	IK - Light Green
Water to Drain (Gallons)		76	132	204

\*Specifications for models with serial numbers ending with the number 1.

<sup>1</sup>1.0 MNPT Elbow Standard - Options Available

<sup>2</sup>Mineral used: Katalox Light. Lightweight mineral bed provides savings on required daily backwash water. Aeration ensures sufficient oxygen for this highly concentrated catalytic coated granular filter media to effectively filter high levels of iron, up to 1 ppm of manganese and stronger hydrogen sulfide "rotten egg" odor. The mineral bed should be backwashed frequently to eliminate accumulated suspended matter and re-grade the bed.

**Influent Limitations and Operating Parameters:**

Influent water pH can be as low as 5.8 but for best results recommend pH 7.5 or higher but below pH 8.5 for removing iron.

Hydrogen Sulfide up to 5 ppm.

Iron up to 6 ppm.

Manganese up to 1 ppm. For manganese, recommend pH 8.5 but below 8.5 if iron is present. Manganese over 1.0 ppm may gradually prevent iron removal.

**Instruction for first time installation (start up only) to prevent pH increment:**

Do NOT soak the Katalox Light media bed. Backwash the media bed at least 60 minutes. Refer to installation manual.

**<sup>3</sup>Basis for Service Flow Rates:**

Continuous - 3.5 to 5.0 GPM/SQ. FT.

Intermittent (Peak) - 6.5 to 8.5 GPM/SQ. FT.

Higher flow rates are possible, however lower flow rates produce higher quality water.