



LANCASTER

WATER TREATMENT

X-FACTOR SERIES LX - AQUANUE™ AERATION FILTERS

AN ECONOMICAL, SIMPLIFIED WAY TO ELIMINATE HYDROGEN SULFIDE GAS, IRON AND MANGANESE WITHOUT THE USE OF CHEMICALS.

FEATURES

- Treats water to protect pipes, faucets, water heaters, boilers and all appliances requiring the use of water
- Flow rates that won't disrupt household water pressure
- Simple and easy to run with high-efficiency operation
- Simplified single-tank installation
- Lancaster designed state-of-the-art control valve



HYDROGEN SULFIDE & IRON (CATALYTIC CARBON)

The Lancaster AquaNue LXCTAIR is a greener, environmentally friendly, chemical-free way to eliminate lower levels of two of the most troublesome water quality challenges: hydrogen sulfide (rotten egg odor) and iron.

Oxidation of iron and hydrogen sulfide gas is initiated as the water passes through a compressed pocket of air. Dissolved oxygen-enriched water now continues through a catalytic media, enhancing the oxidation reaction and producing precipitates that are easily filtered. Accumulated sediment is backwashed out daily and a new air pocket is formed.

IRON (BIRM)

Lancaster's AquaNue LXIMAIR removes iron, also filtering other suspended matter, preventing rust stains on clothing, appliances and removes taste and color of iron.

HYDROGEN SULFIDE, IRON, MANGANESE & MORE (KATALOX LIGHT)

For stronger sulfur odors, higher levels of Iron (up to 15 ppm) and Manganese (up to 5 ppm), the Lancaster AquaNue LXXATAIR systems are recommended.

This unique light weight, high surface area filtration media utilizes a high concentration MnO2 catalytic coating technique, providing higher filtration rates, longer service life and reliable performance. Its high level filtration includes color & odor, Iron, Manganese, and Hydrogen Sulfide removal without producing a disinfection by-product.



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LXCTAIR: Engineered to utilize aeration and adsorption technology to oxidize and remove hydrogen sulfide and iron, without the use of salt or chemicals.

LXIMAIR: Engineered to utilize aeration, oxidation, and mechanical filtration to remove high levels of iron without the use of salt or chemicals.

LXKATAIR: Engineered to utilize aeration, oxidation, and mechanical filtration to remove extreme levels of hydrogen sulfide, iron, manganese, and sediment without the use of salt and chemicals.

Model No.	Mineral (Cu. Ft.)	Service Flow GPM ^{1,2}	Backwash GPM ³	Mineral Tank (Dia. x Ht.)	Influent Limitations
For Hydrogen Sulfide & Iron Removal					
7-LXCTAIR-1B	Catalytic Carbon (1.0)	5.0 to 8.0	5.3	10" x 54"	<ul style="list-style-type: none"> Hydrogen sulfide up to 5 ppm Iron up to 5 ppm Effective with pH as low as 5.8. For best results for removing Iron - recommend pH 7.0 or higher but below 8.5
7-LXCTAIR-2B	Catalytic Carbon (2.0)	7.0 to 9.0	10.0	14" x 65"	
7-LXCTAIR-3B	Catalytic Carbon (3.0)	10.0 to 12.0	15.0	16" x 65"	
For Iron Removal Only					
7-LXIMAIR-1B	Birm (1.0)	5.0 to 8.0	5.3	10" x 54"	<ul style="list-style-type: none"> No hydrogen sulfide present! pH must be 6.8 or higher but below 8.5 for iron removal Chlorinated water NOT recommended (free chlorine concentration less than 0.5 ppm)
7-LXIMAIR-2B	Birm (2.0)	7.0 to 9.0	10.0	14" x 65"	
7-LXIMAIR-3B	Birm (3.0)	10.0 to 12.0	15.0	16" x 65"	
For Hydrogen Sulfide, Iron & Manganese Removal					
7-LXKATAIR-1B	Katalox Light (1.0)	3.0 to 5.0	5.3	10" x 54"	<ul style="list-style-type: none"> Hydrogen Sulfide up to 10 ppm Iron up to 15 ppm Manganese up to 5 ppm Effective with pH as low as 5.8. For best results for removing Iron - recommend pH 7.5 or higher but below 8.5, Manganese - recommend pH 8.5 but below 8.5 if Iron is present
7-LXKATAIR-2B	Katalox Light (2.0)	6.5 to 9.0	10.0	14" x 65"	
7-LXKATAIR-3B	Katalox Light (3.0)	8.5 to 12.0	15.0	16" x 65"	

1. MINIMUM SERVICE FLOW RATES ARE RECOMMENDED TO ALLOW FOR INCREASED CONTACT TIME; AT HIGHER FLOW RATES FILTRATION QUALITY MIGHT BE COMPROMISED.

2. WHEN SELECTING BIRM MODELS, SERVICE FLOW RATES ARE CONSIDERED MAXIMUM FOR INTERMITTENT USE AS RECOMMENDED FOR EFFECTIVE IRON REMOVAL.

3. WELL PUMP CAPACITY MUST BE EQUAL TO OR GREATER THAN THE REQUIRED BACKWASH FLOW RATE TO ASSURE PROPER BACKWASH.

NOTE: WHEN USING BIRM FOR IRON REMOVAL, IT IS NECESSARY THAT THE WATER CONTAIN NO OIL OR HYDROGEN SULFIDE, ORGANIC MATTER NOT TO EXCEED 4-5PPM, THE D.O. CONTENT EQUAL AT LEAST 15% OF IRON CONTENT WITH A pH OF 6.8 OR MORE. IF THE INFLUENT WATER HAS A pH OF LESS THAN 6.8, NEUTRALIZING ADDITIVES SUCH AS CALCITE, COROSEX OR SODA ASH MAY BE USED PRIOR TO THE BIRM FILTER TO RAISE THE pH. A WATER HAVING A LOW D.O. LEVEL MAY BE PRETREATED BY AERATION. CHLORINATION GREATLY REDUCES BIRM'S ACTIVITY. HIGH CONCENTRATIONS OF THE CHLORINE COMPOUNDS MAY DEplete THE CATALYTIC COATING.