

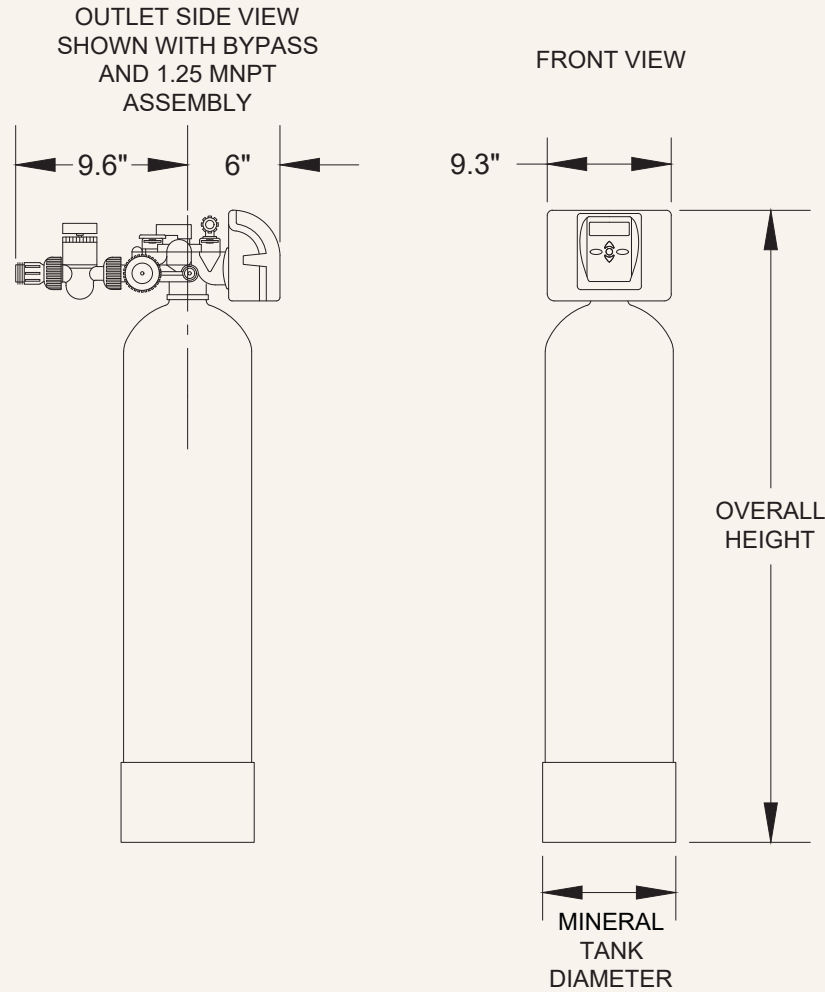


# LANCASTER

## WATER TREATMENT

DIAMOND LINE LX125F-CAT - ESTATE CATALYTIC CARBON FILTERS

### X-FACTOR SERIES LX125F-CAT ESTATE CARBON FILTERS



LX125F-CAT PROGRAM CYCLES*	ESTATE CATALYTIC CARBON FILTER					
	7-LX125F-CAT-2B		7-LX125F-CAT-3B		7-LX125F-CAT-4B	
Model Number						
Units:	Minutes	Gallons	Minutes	Gallons	Minutes	Gallons
1st Cycle: Backwash	10	100	10	100	10	150
2nd Cycle: Rinse	5	50	5	50	5	75
3rd Cycle: End	-	-	-	-	-	-
Total Gallons to Drain	150		150		225	
Total Minutes	15		15		15	
Days Between Backwash**	7		7		7	

\*Factory Program Settings. To adjust cycle programming, consult factory.

\*\*Factory Program Setting. Days between backwash can be field adjusted based on local conditions. Refer to manual.

# X-FACTOR SERIES LX125F-CAT ESTATE CARBON FILTERS

LX125F-CAT SPECIFICATIONS			ESTATE CATALYTIC CARBON FILTER		
<b>Model Number</b>			<b>7-LX125F-CAT-2B</b>	<b>7-LX125F-CAT-3B</b>	<b>7-LX125F-CAT-4B</b>
<b>Inlet/Outlet Fitting Options (Inches)<sup>1</sup></b>			0.75 - 1.0 - 1.25 <sup>1</sup> - 1.5	0.75 - 1.0 - 1.25 <sup>1</sup> - 1.5	0.75 - 1.0 - 1.25 <sup>1</sup> - 1.5
<b>Bypass Included</b>			Yes	Yes	Yes
<b>Drain Fitting Elbow NPT (Inches)</b>			3/4 NPT	3/4 NPT	1" NPT Straight Fitting
<b>Water Pressure Range (PSI)</b>			20 - 100	20 - 100	20 - 100
<b>Water Operating Temperature Range (°F)</b>			35 - 100	35 - 100	35 - 100
<b>Plug-In Power Adapter Input (VAC - Hz - A)</b>			120V AC - 60Hz - 0.35A	120V AC - 60Hz - 0.35A	120V AC - 60Hz - 0.35A
<b>Plug-In Power Adapter Output (VDC - A)</b>			15V DC - 0.5A	15V DC - 0.5A	15V DC - 0.5A
<b>Plug-In Power Adapter Cord Length (FT)</b>			15 FT	15 FT	15 FT
<b>PC Board Relay Terminal Block DC Output (V)</b>			12V DC	12V DC	12V DC
<b>3 Volt Lithium Coin Cell Battery (Type)</b>			2032	2032	2032
<b>Amount of Catalytic Carbon (Cubic Feet)<sup>2</sup></b>			2	3	4
<b>Service Flow Rates (GPM)<sup>3</sup></b>	<b>Recommended</b>	<b>Organics</b>	2	3	4
		<b>Chloramine</b>	3.74	5.6	7.48
	<b>Typical</b>	<b>Continuous</b>	4.6	5.4	7.0
		<b>Intermittent (Peak)</b>	9.2	10.7	14.0
<b>Overall Height (Inches)</b>			55.3	72.73	72.33
<b>Mineral Tank Size: Diameter x Height (Inches)</b>			13 x 48	14 x 65	16 x 65
<b>Bottom Distributor Type</b>			Plate	Plate	Plate
<b>Top Basket Distributor</b>			No	No	No
<b>Underbed Layer</b>			No	No	No
<b>Drain Line Flow Control (GPM)</b>			10	10	15
<b>Water to Drain (Gallons)</b>			150	150	225

<sup>1</sup>1.25 MNPT Standard - Options Available

<sup>2</sup>Mineral used: Catalytic-High Activated Carbon (CAT-HAC). Used for removal of chlorine, chloramine, color, taste, odor and low levels of sulfur, etc. The catalytic activity of Catalytic Carbon makes it highly effective for the reduction of chloramines and hydrogen sulfide from potable water. To insure effective removal of hydrogen sulfide and iron, 4 ppm (mg/L) dissolved oxygen content is required (see AquaNue models). Catalytic Carbon's large micropore volume is well suited for removal of low molecular weight organic compounds and their chlorinated by-products such as chloroform and other trihalomethanes (THMs). Upon installation allow bed to soak overnight before backwashing. The mineral bed should be backwashed periodically to eliminate accumulated suspended matter and re-grade the bed. Catalytic Carbon has an extremely high capacity but must be replaced when the filter bed loses the capacity for reduction of chloramines and hydrogen sulfide.

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

Continuous - 5 GPM/SQ. FT.

Intermittent (Peak) - 10 GPM/SQ. FT.

Organics: 1 GPM/CU. FT.

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

Empty Bed Contact Time for Chloramine Removal using Catalytic Carbon ... at least 4 minutes.

Service Flow Rate (GPM) =  $\frac{\text{Bed Volume (CU. FT.)} \times 7.481 \text{ Gallons/CU. FT.}}{\text{Empty Bed Contact Time in Minutes}}$

Empty Bed Contact Time in Minutes