



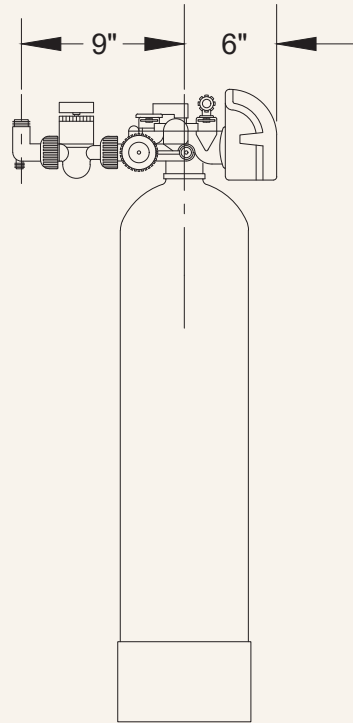
LANCASTER

WATER TREATMENT

DIAMOND LINE LXCAT - CATALYTIC CARBON FILTERS

X-FACTOR SERIES LXCAT CATALYTIC CARBON FILTERS

OUTLET SIDE VIEW
SHOWN WITH BYPASS
AND 1.0 MNPT ELBOW
ASSEMBLY



FRONT VIEW



LXCAT PROGRAM CYCLES*		CATALYTIC CARBON FILTER				
Model Number	7-LXCAT-1B		7-LXCAT-2B		7-LXCAT-3B	
	Minutes	Gallons	Minutes	Gallons	Minutes	Gallons
1st Cycle: Backwash	10	53	10	100	10	100
2nd Cycle: Rinse	5	26.5	5	50	5	50
3rd Cycle: End	-	-	-	-	-	-
Total Gallons to Drain	79.5		150		150	
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 LXCAT CATALYTIC CARBON FILTERS

LXCAT SPECIFICATIONS			CATALYTIC CARBON FILTER		
Model Number			7-LXCAT-1B	7-LXCAT-2B	7-LXCAT-3B
Inlet/Outlet Fitting Options (Inches)¹			0.75 - 1.0 ¹ - 1.25 - 1.5	0.75 - 1.0 ¹ - 1.25 - 1.5	0.75 - 1.0 ¹ - 1.25 - 1.5
Bypass Included			Yes	Yes	Yes
Drain Fitting Elbow NPT (Inches)			3/4 NPT	3/4 NPT	3/4 NPT
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 Catalytic Carbon (Cubic Feet)²			1	2	3
Service Flow Rates (GPM)³	Recommended	Organics	1	2	3
		Chloramine	1.87	3.74	5.6
	Typical	Continuous	2.7	4.6	5.4
		Intermittent (Peak)	5.5	9.2	10.7
Overall Height (Inches)			51.3	55.3	72.73
Mineral Tank Size: Diameter x Height (Inches)			10 x 44	13 x 48	14 x 65
Bottom Distributor Type			Plate	Plate	Plate
Top Basket Distributor			No	No	No
Underbed Layer			No	No	No
Drain Line Flow Control (GPM)			5.3	10	10
Water to Drain (Gallons)			79.5	150	150

¹1.0 MNPT Elbow Standard - Options Available

²Mineral 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.

³**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