



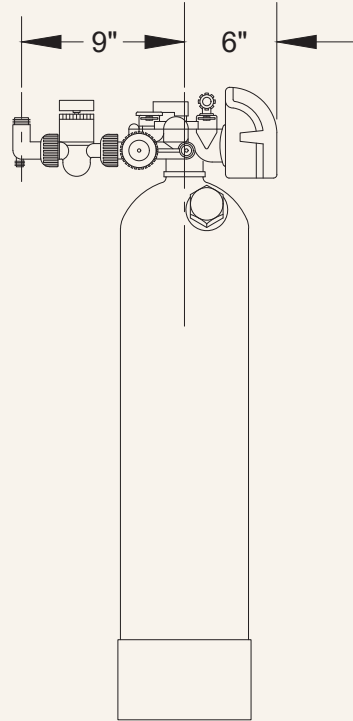
# LANCASTER

## WATER TREATMENT

DIAMOND LINE LXDAN - ACID NEUTRALIZERS

### X-FACTOR SERIES LXDAN ACID NEUTRALIZERS

OUTLET SIDE VIEW  
SHOWN WITH BYPASS,  
1.0 MNPT ELBOW ASSEMBLY  
AND TANK DOME PLUG



FRONT VIEW



LXDAN PROGRAM CYCLES*		ACID NEUTRALIZER (CALCITE) FILTER							
Model Number	7-LXDAN-1B		7-LXDAN-1.5B		7-LXDAN-2B		7-LXDAN-3B		
	Minutes	Gallons	Minutes	Gallons	Minutes	Gallons	Minutes	Gallons	
1st Cycle: Backwash	10	65	10	65	10	100	10	100	
2nd Cycle: Rinse	5	32.5	5	32.5	5	50	5	50	
3rd Cycle: End	-	-	-	-	-	-	-	-	
Total Gallons to Drain	97.5		97.5		150		150		
Total Minutes	15		15		15		15		
Days Between Backwash**	7		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 LXDAN ACID NEUTRALIZERS

LXDAN SPECIFICATIONS		ACID NEUTRALIZER (CALCITE) FILTER			
<b>Model Number</b>		<b>7-LXDAN-1B</b>	<b>7-LXDAN-1.5B</b>	<b>7-LXDAN-2B</b>	<b>7-LXDAN-3B</b>
<b>Inlet/Outlet Fitting Options (Inches)<sup>1</sup></b>		0.75 - 1.0' - 1.25 - 1.5	0.75 - 1.0' - 1.25 - 1.5	0.75 - 1.0' - 1.25 - 1.5	0.75 - 1.0' - 1.25 - 1.5
<b>Bypass Included</b>		Yes	Yes	Yes	Yes
<b>Drain Fitting Elbow NPT (Inches)</b>		3/4 NPT	3/4 NPT	3/4 NPT	3/4 NPT
<b>Water Pressure Range (PSI)</b>		20 - 100	20 - 100	20 - 100	20 - 100
<b>Water Operating Temperature Range (°F)</b>		35 - 100	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	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	15V DC - 0.5A
<b>Plug-In Power Adapter Cord Length (FT)</b>		15 FT	15 FT	15 FT	15 FT
<b>PC Board Relay Terminal Block DC Output (V)</b>		12V DC	12V DC	12V DC	12V DC
<b>3 Volt Lithium Coin Cell Battery (Type)</b>		2032	2032	2032	2032
<b>Amount of Calcite (Cubic Feet)<sup>2</sup></b>		1	1.5	2	3
<b>Service Flow Rates (GPM)<sup>3</sup></b>	<b>Continuous</b>	2.7	2.7	4.6	4.6
	<b>Intermittent (Peak)</b>	5.5	5.5	9.2	9.2
<b>Overall Height (Inches)</b>		54.2	61.4	55.3	72.1
<b>Mineral Tank Size: Diameter x Height (Inches)</b>		10 x 47	10 x 54	13 x 48	13 x 65
<b>Mineral Tank Dome Plug and O-Ring</b>		Yes	Yes	Yes	Yes
<b>Bottom Distributor Type</b>		Plate	Plate	Plate	Plate
<b>Top Basket Distributor</b>		No	No	No	No
<b>Underbed Layer</b>		No	No	No	No
<b>Drain Line Flow Control (GPM)</b>		6.5	6.5	10	10
<b>Water to Drain (Gallons)</b>		97.5	97.5	150	150

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

<sup>2</sup>Mineral used: Calcite (16 x 40 mesh size) is a crushed and screened grey-white marble media which can inexpensively be used to neutralize acidic or low pH waters to a neutral, less corrosive effluent. Calcite is a naturally occurring calcium carbonate media. One of the advantages of Calcite is its self-limiting property. When properly applied, it corrects pH only enough to reach a non-corrosive equilibrium. It does not overcorrect under normal conditions. Upon contact with Calcite, acidic waters slowly dissolve the calcium carbonate to raise the pH which reduces the potential leaching of copper, lead and other metals found in typical plumbing systems. Periodic backwashing will prevent packing, reclassify the bed and maintain high service rates. Depending on pH, water chemistry and service flow, the Calcite bed will have to be periodically replenished as the Calcite is depleted. As the Calcite's calcium carbonate neutralizes the water, it will increase hardness and a softener may become necessary after the neutralizing filter. Calcite can be effectively combined with Corosex to combine the high flow neutralization properties of Corosex, along with the slower reacting low flow properties of Calcite, increasing the ability to correct low pH (see LXDANSUM Super Mix models). Calcite does not require chemicals for regeneration, only periodic backwashing is required. The mineral bed should be backwashed periodically to eliminate accumulated suspended matter and re-grade the bed.

**Influent Limitations and Operating Parameters:**

Calcite will neutralize acidic water pH as low as 6.0.

For pH range of 5.5 to 5.9, Super Mix (80% Calcite & 20% Corosex) is recommended.

For pH below 5.5, consult factory.

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

Continuous - 5 GPM/SQ. FT.

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

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