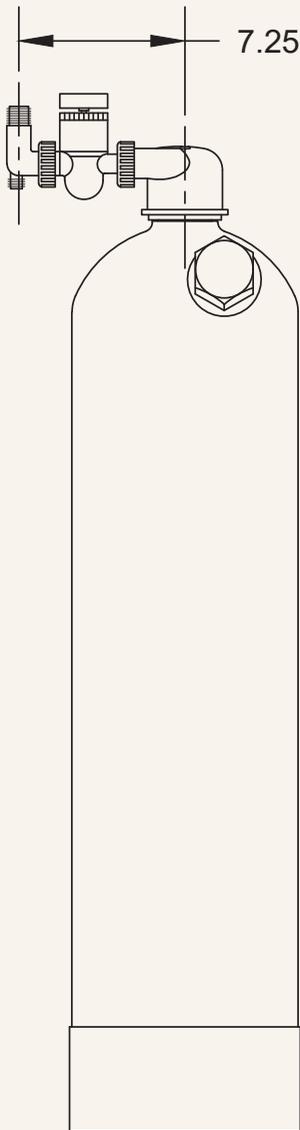




# LANCASTER WATER TREATMENT

## UP-FLOW SERIES UFDAN ACID NEUTRALIZERS

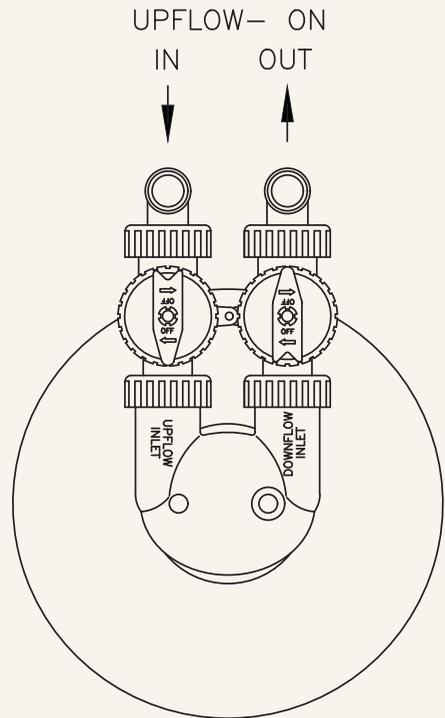
INLET SIDE VIEW  
SHOWN WITH BYPASS AND  
1.0 MNPT ELBOW ASSEMBLY  
AND TANK DOME PLUG



FRONT  
VIEW



ENLARGED  
TOP VIEW



## UP-FLOW SERIES UFDAN ACID NEUTRALIZERS

UFDAN SPECIFICATIONS		ACID NEUTRALIZER (CALCITE) FILTER			
Model Number		7-UFDAN-1B	7-UFDAN-1.5B	7-UFDAN-2B	7-UFDAN-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	0.75 - 1.0 <sup>1</sup> - 1.25 - 1.5
In / Out Head I191 (Part Number)		D1400	D1400	D1400	D1400
Bypass Included		Yes	Yes	Yes	Yes
Water Pressure Range (PSI)		20 - 100	20 - 100	20 - 100	20 - 100
Water Operating Temperature Range (°F)		35 - 100	35 - 100	35 - 100	35 - 100
Amount of Calcite (Cubic Feet) <sup>2</sup>		1	1.5	2	3
Service Flow Rates (GPM) <sup>3</sup>	Continuous	2.7	2.7	4.6	4.6
	Intermittent (Peak)	5.5	5.5	9.2	9.2
Overall Height (Inches)		52.2	59.4	60	70.1
Mineral Tank Size: Diameter x Height (Inches)		10 x 47	10 x 54	13 x 54	13 x 65
Mineral Tank Dome Plug and O-Ring		Yes	Yes	Yes	Yes
Bottom Distributor Type		Stack - II Segment			
Top Basket Distributor		No	No	No	No
Support Bedding		Yes	Yes	Yes	Yes

<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. 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 UFDANSM Super Mix models).

**Influent Limitations and Operating Parameters:**

Filtration before an Up-Flow Acid Neutralizer is highly recommended to prevent plugging of the bottom distributor.

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.