

Craft Scientific Ltd.

ACID NEUTRALIZERS AND DILUTION TANKS

As Government and Municipal bylaws become more stringent regarding PH levels of effluent discharged from buildings, acid neutralizers are becoming a necessity.

Allanco dilution/neutralization tanks are designed to dilute and neutralize chemical waste discharged from sinks, fume hoods, photo labs, or any other industrial process pollution source.

BENEFITS

ALLANCO dilution tanks work to reduce the concentration of chemical waste by diluting with water. By adding a neutralization media, such as limestone or marble chips, the tank becomes an acid neutralizer. As effluent flows through the chamber of media, the acids react to become neutral salts, water and Carbon Dioxide with PH levels now acceptable to be discharged.

FEATURES

- ❑ Constructed from high temperature acid resistant polypropylene or polypropylene/FRP reinforced
- ❑ Flanged removable lid and stainless steel fasteners provide easy access for cleaning or servicing.
- ❑ Optional sampling ports for inspection purposes.

SELECTION

Availability ranges from compact, under sink designs to larger free standing or in-ground models, to electronically monitored PH control systems complete with automatic reagent injection pumps.

Please see the following pages for list of stock sizes.

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GENERAL ENGINEERING FOR SIZING THE DILUTION/NEUTRALIZATION TANK

When selecting a neutralizer, the size is related to the flow rate or volume of effluent being discharged.

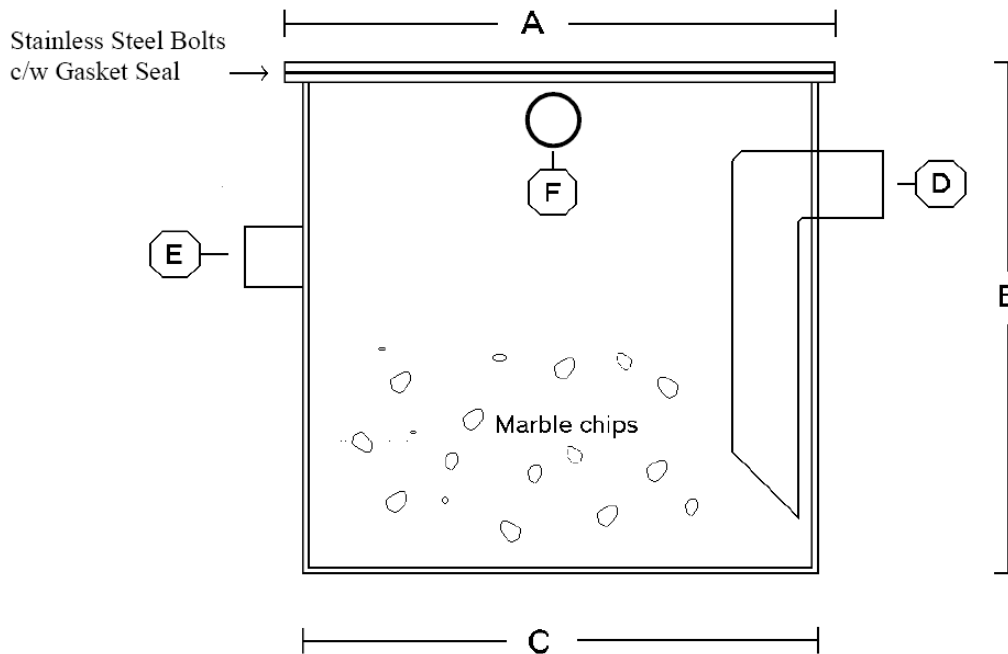
Allanco neutralizers are available in various sizes. The following table can be used as a guide to choose the appropriate tank to ensure that the neutralizer will provide adequate retention time for dilution and/or acid neutralization.

Number of Lab Sink Stations	Containment Volume Required (Gallons)	Limestone (Lbs)
2	5	50
3	10	113
4	15	150
6	20	200
7	25	225
8	30	250
10	35	300
12	40	350
14	50	360
16	55	600
22	80	720
25	100	800
38	140	1354
58	185	2000
70	250	2400
105	350	3500
150	500	5000
225	800	9000

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RN Series

(Round Dilution Tanks)



MODEL	CONTAINMENT		DIMENSIONS			PIPE SIZE		VENT *	DRAIN PLUG	TANK WEIGHT
	IMP. GAL	LITRES	FLANGE O.D.	HEIGHT	BODY	INLET	OUTLET			
			A	B	C	D	E			
RN5	5	20	15	16	12	1.5	1.5	1	0.5	9
RN10	10	45	21	16	18	2	2	1	0.5	13
RN20	20	90	26	16	22	2	2	1.5	0.5	16
RN25	25	112.5	30	16	26	2	2	1.5	0.5	19
RN30	30	135	32	16	28	2	2	1.5	0.5	23
RN40	40	180	35	16	31	3	3	1.5	0.5	26

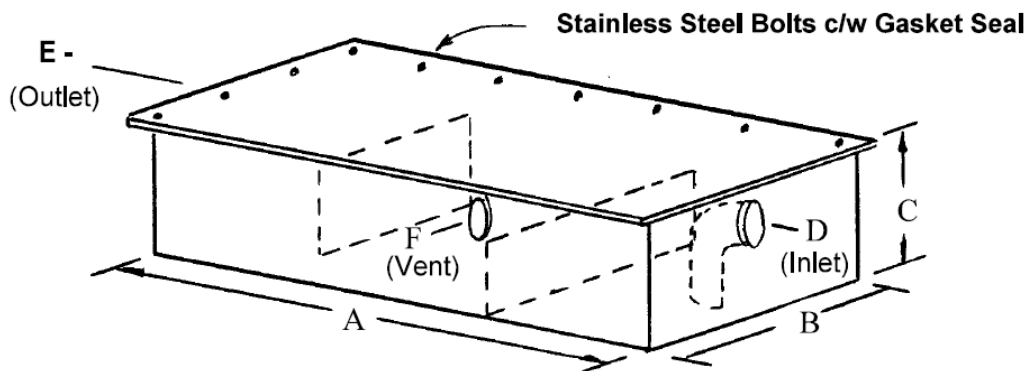
All dimensions are in inches.

* Optional.

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ALLANCO SN SERIES

(Square Dilution Tanks)



MODEL	CONTAINMENT		DIMENSIONS			PIPE SIZE		VENT	DRAIN PLUG	TANK WEIGHT
	IMP. GAL	LITRES	LENGTH	WIDTH	HEIGHT	INLET	OUTLET			
			A	B	C	D	E	F	G	LBS.
SN5	5	22.5	14	10	16	2	2	1.5	1	20
SN15	15	67.5	20	16	18	2	2	1.5	1	25
SN25	25	112.5	18	18	24	2	2	2	1	28
SN30	30	135	30	18	22	3	3	2	1	30
SN35	35	157.5	24	24	24	2	2	2	1	32
SN50	50	225	30	24	24	2	2	2	1	70
SN80	80	360	36	34	24	3	3	2	1	115
SN100	100	450	48	24	24	4	4	3	1	120
SN140	140	630	36	36	36	3	3	3	1	140
SN185	185	832	36	48	36	3	3	3	1	175
SN250	250	1,125	48	48	36	4	4	3	1	210
SN350	350	1,575	60	48	36	6	6	3	1	250

All dimensions are in inches.

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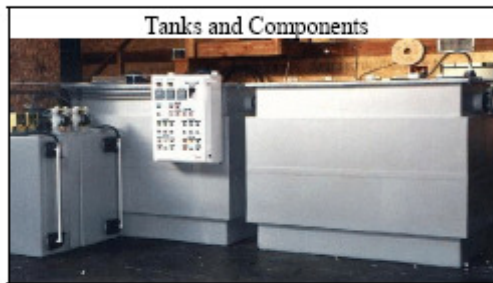


Monitors

As municipal regulations become stricter regarding effluent discharge, the need to monitor or record PH level may be required. Allanco monitors are designed for use in any acid waste system and come with adjustable alarm settings to suit levels required.

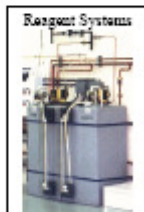


Control Panel



Tanks and Components

Allanco automated systems are designed for variable PH levels. The system utilizes two metered liquid reagents to control the PH of effluent. The Allanco design of acid neutralizers are a flow thru system so PH adjustments are made even as flows fluctuate. This style of neutralizer is suited for universities, colleges, laboratories, and food processing requirements.



Reagent Systems

Allanco reagent systems are generally required to assist other process systems which require PH adjustment. E.g. Food Processing, Air Scrubbing, Mining Process, and Lumber treatment.



Limestone

Limestone, or marble chips, is most commonly used throughout North America as a media for neutralizing acid wastes. Allanco stocks stone with a size of 1-1/2" to 2" with a 98% Calcium Carbonate content.