



# BioCoir<sup>®</sup>

Coconut Fiber Biofilter

## Residential Design Guide

Virginia TL-3 with  
Nitrogen Reduction



## Residential Strength Waste Table

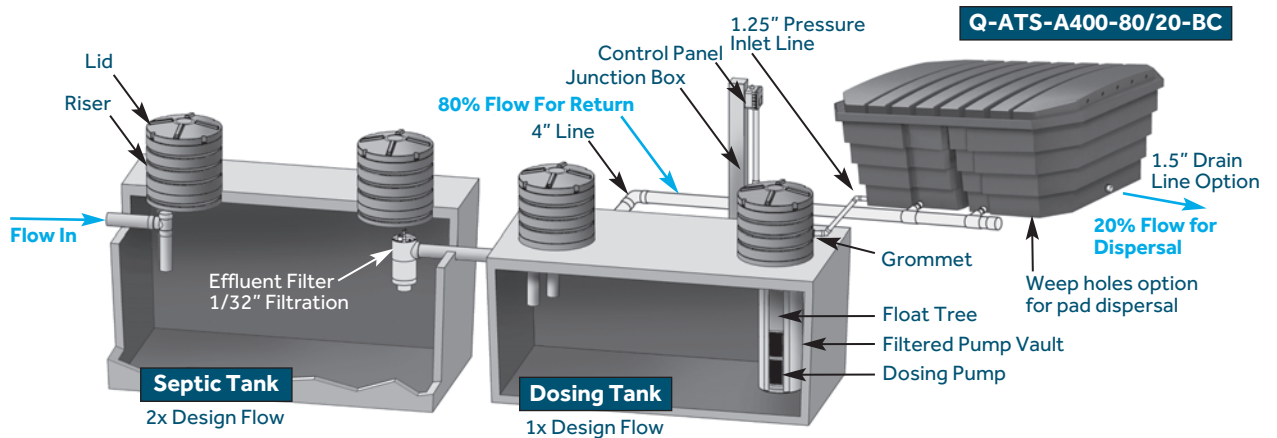
Constituents	Pretreated <sup>1</sup> Max	Primary Treated <sup>2</sup>		
		30-day Avg	7-day Max	30-day Max
CBOD <sub>5</sub> mg/L	≤ 300	150	200	300
TSS mg/L	≤ 350	75	100	150
TN mg/L	≤ 60	60	75	120
FOG mg/L	≤ 30	20	25	25
pH	6.0 to 9.0	6.0 to 9.0		

<sup>1</sup> Pretreated: Raw wastewater prior to entering the septic tank.

<sup>2</sup> Primary treated: Effluent at the discharge of the septic tank.

**Note:** This is Anua's definition of pretreated/primary treated residential wastewater. If the wastewater exceeds these parameters, treatment goals may not be achieved and may require additional treatment.

## Typical Layout



## Step 1 Information Gathering

Design Flow (GPD)	Number of Bedrooms	Number of Occupants

Note: Average flow (GPD) is defined as 60% of design flow for 150 GPD per bedroom and 75% of design flow for 120 GPD per bedroom.

## Step 2 Size the Septic Tank and Dosing Tank

Model Number	Bedrooms	Flow Rating (GPD)	Septic Tank Minimum Size (Gal)	Dosing Tank Minimum Size (Gal)
ATS-NS500-BC-N-TL3	4	600	1000	500
ATS-NS750-BC-N-TL3	5	750	1250	625
ATS-NS1000-BC-N-TL3	6	900	1500	750
ATS-NS500-80/20-BC-N-TL3	4	600	1000	500
ATS-NS750-80/20-BC-N-TL3	5	750	1250	625
ATS-NS1000-80/20-BC-N-TL3	6	900	1500	750
Q-ATS-A400-80/20-BC	3	450	800	375
Q-ATS-A400-80/20-2-BC	6	900	1600	750

## Step 3 Select an Effluent Filter

NSF 46 approved models with 1/32" filtration

- Zabel A300
- Polylok PL-625
- BEST GF10-32

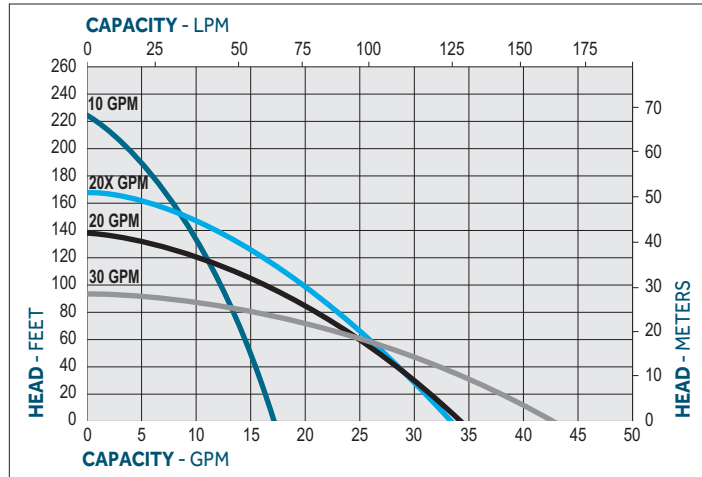
## Step 4 Select a Filtered Pump Vault

Available models with heights

Model Number	Height
FPV-H44-4	44"
FPV-H50-4	50"
FPV-H56-4	56"
FPV-H68-4	68"
FPV-H80-4	80"

## Step 5 Verify Dosing Pump Based on TDH

Model Number	Total Spray Nozzles
ATS-NS500-BC-N-TL3	3
ATS-NS750-BC-N-TL3	4
ATS-NS1000-BC-N-TL3	4
ATS-NS500-80/20-BC-N-TL3	3
ATS-NS750-80/20-BC-N-TL3	4
ATS-NS1000-80/20-BC-N-TL3	4
Q-ATS-A400-80/20-BC	4
Q-ATS-A400-80/20-2-BC	8



Note 1: TF14 spray nozzles = ~2.9 GPM @ 5 PSI and ~3.4 GPM @ 8 PSI

Note 2: The standard model pump is 30gpm, 115V model. (see pump curve above)

## Step 6 Select Treatment Pod per the Engineering and Technical Specifications Sheet for Virginia TL-3

## Step 7 Verify Other Components Included in Standard Package

- 1.25" discharge assembly
- Junction box
- Control panel
- Float switches

## Step 8 Select Any Optional Components

- Access risers
- Access lids
- Tank adapters with mounting hardware
- Tank/riser sealant or adhesive
- Rubber grommets



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