Water Usage

1. **PET-400**

PET-400 Water Statistics			
Cycle Type		**Water Consumed**	**Effluent Discharged**
FULL/HIGH LEVEL CYCLE	with automated rinse	345 gal *(1306 L)*	385 gal *(1457 L)*
	skipping automated rinse	220 gal *(800 L)*	260 gal *(984 L)*
HALF/LOW LEVEL CYCLE	with automated rinse	215 gal *(814 L)*	235 gal *(890 L)*
	skipping automated rinse	140 gal *(530 L)*	160 gal *(606 L)*

2. **Discussion**

   Sometimes people think 385 gallons sounds like a lot. The best thing to do is give them some reference points so they can relate it to daily practices they know and understand.

   a. The average person uses 80-100 gallons of water per day. My household of 4 uses more than a PET-400 in a single day of living – and this does not include any garden or lawn watering, car washes, leaky faucets or toilets, etc. (data source: http://water.usgs.gov/edu/qa-home-percapita.html).

   b. With the way the PET-400 operates (multiple pets in a single cycle), it takes about the same amount of water to give a pet a bath than it does for the Aquamation process.

3. **Special Numbers for Discharging into a Tank**

   a. Assuming tap water is 59F (15C)

   b. Assuming the automated rinse cycle is skipped

   c. Assuming manual rinsing waters from rinsing the remains are NOT put into the tank (~20gal for full cycle, 10gal for half cycle). If you are putting the manual bone rinse water into the tank as well, you'll need to add the 10-20 gallons to the totals below.

      i. Polyethylene tank – rated to 140F = 251 gal per high cycle, 161 gal per low cycle

      ii. Polypropylene tank – rated to 175F = 183 gal per high cycle, 120 gal per low cycle

      iii. Polypropylene tank – rated to 195F = 160 gal per high cycle, 106 gal per low cycle

      iv. Steel tank – able to discharge at 205F = 150 gal per high cycle, 100 gal per low cycle

   The less diluted the effluent is with water, the thicker it is. If you go the latter route (steel tank, discharge at 205 without co-flush), then you will need a robust trash pump to pump the effluent out because it might be more of a light motor oil consistency than 'water.' You may wish to discharge with extra co-flush to end up with a more desirable end product.

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