



Description

Aqualoop G series commercial scale systems treat up to 18,000 gallons of greywater per day to superior water quality. With NSF 350 (C) certification, Aqualoop allows use of water for indoor non-potable uses (e.g. toilet flushing and laundry) and outdoor (spray irrigation, drip irrigation, and cooling tower make up). Aqualoop's patented MBR technology is unique with extremely low maintenance and high reliability which are also required to meet the NSF stringent low maintenance requirement. With the technology scalable to any throughput needs, the G series is developed for commercial operation. All models include remote monitoring. Treatment equipment is located inside the catchment tank which saves on required footprint.

Specification

Specifications	
Certification	NSF-350
Design Flow Per Membrane Cartridge (Avg. Flow)	80 GPD
Peak Flow Design Per Membrane Cartridge	160 GPD
Max. Flow Per Membrane Cartridge	240 GPD
Power Consumption	<2 KWH/1,000 Gallons
Power Requirement	220 V Single Phase, 10 AMPS per Station
Bioreactor and Holding Tank Sizing	Match Peak Flow (Starting Point)
Tank Type	Above or Below Ground
Tank Material	Fiberglass, HDPE, Steel, or Concrete
Aeration Blower Sizing	30 LPM per Membrane Cartridge
Booster Pump	Supplied Separately by Ecovie Sales Rep
Target CIP Frequency	>9 Months

See Separate Specifications

Components



Pre-Filter



Station & Controller



Blower



Growth Media



Membrane Cartridge

- *Source greywater from showers, baths, laundry, bathroom sinks*
- *Treated water for toilets, cooling tower, laundry, irrigation*
- *NSF 350 certification reached with biological treatment and ultrafiltration (Moving Bed MBR)*
 - *Pre-screening with PURAIN Pre-Filter*
 - *Biological treatment using aeration and growth bodies*
 - *Hollow fiber membrane ultra-filtration to 0.02 microns*
 - *NSF 350 certified systems allow extended storage after treatment, spray irrigation OK*
- *Automated aeration, transfer, backwash, and CIP sequences*
- *Remote monitoring and data acquisition capable*
- *Flexible Tank Design – Treatment equipment fits in any style tank – Saves Space, No Skid!*
- *Additional disinfection can be added if desired or if local regulations require.*
- *Booster pump repressurization supplied by local Ecovie sales rep.*



Certified to
NSF/ANSI 350

Models and Sizing

Specifications		NSF Recommended Design Point (Ave. Daily Flow)	Peak Flow Design Point	Approximate Full Time Inhabitants GPD/Person*	Recommended Min. Bioreactor and Holding Tank Size**	Maximum Recommended Flow (GPD)
Models	G500	480 GPD	<1000 GPD	<20	750 gal.	<1500
	G1000	960 GPD	<2000 GPD	<35	1000 gal.	<3000
	G2000	1920 GPD	<4000 GPD	<65	2000 gal.	<6000
	G3000	3000 GPD	<6000 GPD	<100	3000 gal.	<9000
	G4000	3840 GPD	<8000 GPD	<135	4000 gal.	<12,000
	G5000	4800 GPD	<10,000 GPD	<165	5000 gal.	<15,000
	G6000	5760 GPD	<12,000 GPD	<200	6000 gal.	<18,000
	G7000	6720 GPD	<14,000 GPD	<235	7000 gal.	<21,000
	G9000	7680 GPD	<18,000 GPD	<300	9000 gal.	<27,000

* Specific project must have an analysis of expected average and peak greywater flows as actual estimates will vary by project!

** Tank size depends on depth and working capacity. Consult sales representative for details.