

## BAY RESTORATION FUND RANKING DOCUMENTATION July 1, 2019

VENDOR IN ASCENDING ORDER	COST OF PURCHASE, INSTALLATION AND 2 YEAR OPERATION MAINTENANCE	VERIFIED BY
Singulair TNT	\$11,337	Vendor
Singulair Green	\$11,337	Vendor
AquaKlear AK6S245	\$12,016	Vendor
BioMicrobics RetroFast**	\$12,688	Vendor
Fuji Clean CEN 5	\$13,516	Vendor
Hydro Action AN series	\$14,303	Vendor
Hoot BNR	\$14,518	Vendor
Fuji Clean CEN 7	\$15,010	Vendor
SeptiTech M400D	\$15,211	Vendor
AdvanTex AX20	\$16,083	Vendor
Advantex AX20RT	\$17,414	Vendor

All prices are Estimate Averages across Maryland and subject to change per county, contact Manufacturer.  
 The BRF Program no longer funds the non field verified systems for installation.  
 Price does not include electrical costs per year.  
 \*\* RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less. Price includes use of new tank. For use of existing tank, manufacturer must certify tank suitable and watertight.

VENDOR IN DESCENDING ORDER	MEAN % REDUCTION TN (Using 60mg/L influent)	MEAN EFFLUENT CONCENTRATION	VERIFIED BY
Fuji Clean CEN 5	77%	14.1 mg/L	MDE
Fuji Clean CEN 7	77%	14.1 mg/L	MDE
Advantex AX20RT	76%	14.5 mg/L	MDE
AdvanTex AX20	71%	17 mg/L	MDE
SeptiTech M400D	67%	20 mg/L	MDE
Hydro Action AN series	66%	20.3 mg/L	MDE
Hoot BNR	64%	21 mg/L	MDE
BioMicrobics RetroFast**	58%	25.4 mg/L	MDE
Singulair Green	55%	27 mg/L	MDE
Singulair TNT	55%	27 mg/L	MDE
AquaKlear AK6S245	54%	27.5 mg/L	MDE

As the data for non-field verified systems is incomplete, MDE has classified the % reduction of TN and the Price per Pound of N Reduced for non-field verified systems as Deliberative Data.  
 \*\* RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less.

VENDOR IN ASCENDING ORDER	PRICE PER POUND OF N REDUCED	VERIFIED BY
Fuji Clean CEN 5	\$75.52	MDE
Fuji Clean CEN 7	\$85.00	MDE
AquaKlear AK6S245	\$94.68	MDE
AdvanTex AX20	\$94.84	MDE
Singulair TNT	\$95.01	MDE
Singulair Green	\$95.01	MDE
Hydro Action AN series	\$95.51	MDE
Advantex AX20RT	\$95.81	MDE
Hoot BNR	\$100.16	MDE
BioMicrobics RetroFast**	\$103.86	MDE
SeptiTech M400D	\$108.31	MDE

Price per pound of N reduced equals [(Price of technology plus (increased electrical costs multiplied by Ten))divided by Ten] divided by (24.32 lbs of N per year multiplied by percent reduction of N by system)  
 As the data for non field verified systems is incomplete, MDE has classified the % reduction of TN and the Price per Pound of N Reduced for non field verified systems as Deliberative Data.  
 \*\* RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less.

VENDOR IN ASCENDING ORDER	OPERATION AND MAINTENANCE PER YEAR AFTER THE 2 YEAR CONTRACT	MINIMUM NUMBER OF SITE VISITS PER YEAR*	VERIFIED BY
AdvanTex AX20	\$175.00	1	Vendor
Advantex AX20RT	\$175.00	2	Vendor
Fuji Clean CEN 5	\$185.00	2	Vendor
Fuji Clean CEN 7	\$185.00	2	Vendor
AquaKlear AK6S245	\$250.00	1	Vendor
BioMicrobics RetroFast**	\$275.00	1	Vendor
SeptiTech M400D	\$275.00	1	Vendor
Hoot BNR	\$300.00	1	Vendor
Singulair TNT	\$300.00	2	Vendor
Singulair Green	\$300.00	2	Vendor
Hydro Action AN series	\$300.00	2	Vendor

All prices are estimates and based on the 2-yr O&M BAT bid submitted to the State. Some prices have been rounded.  
 Prices are subject to change and may vary based on location. Contact manufacturer for O&M price details.  
 \* Based off manufacturer-required service visits per year  
**Additional Charges may apply with certain manufacturers.** It is the responsibility of the homeowner to contact the manufacturer for precise details of contract.

VENDOR IN ASCENDING ORDER	1 YEAR ELECTRICAL CONSUMPTION (represented as kWh/year)	INCREASED ELECTRICAL COSTS PER YEAR ASSUMING \$0.14 PER kWh	VERIFIED BY
Advantex AX20RT	210.2 kWh/year	\$29.43	OSET NTP
AdvanTex AX20	210.2 kWh/year	\$29.43	OSET NTP
AquaKlear AK6S245	298.7 kWh/ year	\$41.82	Vendor
Fuji Clean CEN 5	446.7 kWh/year	\$62.54	Manufacturer
Fuji Clean CEN 7	648.2 kWh/year	\$90.75	Manufacturer
Hydro Action AN series	734.26 kWh/year	\$102.80	Pump Manufacturer
Hoot BNR	765.77 kWh/ year	\$107.21	NSF International
Singulair TNT	979.66 kWh/ year	\$137.15	NAT Testing Lab
Singulair Green	979.66 kWh/year	\$137.15	NAT Testing Lab
BioMicrobics RetroFast**	1401.6 kWh/year	\$196.22	Pump Manufacturer
SeptiTech M400D	1741.05 kWh/year	\$243.75	Vendor

\$0.14 is an assumed average kW/h rate for Maryland 2019.  
 \*\* RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less.  
 HydroAction utilizes a mixer pump during start up. Pump use is discontinued after start up. Usage data will vary after start-up period.

For a list of vendors visit:  
[https://mde.maryland.gov/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Documents/BAT\\_CLASS\\_1.pdf](https://mde.maryland.gov/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Documents/BAT_CLASS_1.pdf)  
 Before selecting a technology for use on the property in question, please contact each vendor to verify the information is current and accurate. MDE is only a facilitator in presenting this information in accordance with HB347. MDE strongly advises that the applicant contact the vendor directly for more information.  
 Please contact the county Environmental Health Division for specific process on submitting an application  
[For a list of county contact information, 410-537-3599](tel:410-537-3599)  
 Please contact the Maryland Department of the Environment for specific questions regarding becoming a Best Available Technology in Maryland.  
[For MDE contact information, 410-537-3599](tel:410-537-3599)  
**RED Font = Technologies that have successfully completed Maryland's Bay Restoration Fund Field Verification process.**