

## BAY RESTORATION FUND RANKING DOCUMENTATION July 1, 2017

	VENDOR IN ASCENDING ORDER	COST OF PURCHASE, INSTALLATION AND 2 YEAR OPERATION MAINTENANCE	VERIFIED BY
1	BioMicrobics RetroFast**	\$12,430.00	Vendor
2	AquaKlear AK6S245	\$11,772.00	Vendor
3	Singulair TNT	\$11,107.00	Vendor
4	Singulair Green	\$11,107.00	Vendor
5	Hoot BNR	\$14,224.00	Vendor
6	Hydro Action AN series	\$14,013.00	Vendor
7	AdvanTex AX20	\$15,757.00	Vendor
8	SeptiTech M400D	\$14,903.00	Vendor
9	Advantex AX20RT	\$17,060.00	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 ASCENDING ORDER	MEAN % REDUCTION TN (Using 60mg/L influent)	MEAN EFFLUENT CONCENTRATION	VERIFIED BY
1	Advantex AX20RT	76%	14 mg/L	MDE
2	AdvanTex AX20	71%	17 mg/L	MDE
3	SeptiTech M400D	67%	20 mg/L	MDE
4	Hydro Action AN series	66%	20 mg/L	MDE
5	Hoot BNR	64%	21 mg/L	MDE
6	BioMicrobics RetroFast**	57%	25 mg/L	MDE
7	Singulair Green	55%	27 mg/L	MDE
8	Singulair TNT	55%	27 mg/L	MDE
9	AquaKlear AK6S245	54%	27 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
1	AquaKlear AK6S245	\$92.59	MDE
2	AdvanTex AX20	\$93.78	MDE
3	Advantex AX20RT	\$94.66	MDE
4	BioMicrobics RetroFast**	\$102.81	MDE
5	Hoot BNR	\$97.78	MDE
6	Singulair TNT	\$92.56	MDE
7	Singulair Green	\$92.56	MDE
8	Hydro Action AN series	\$99.97	MDE
9	SeptiTech M400D	\$105.35	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.

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	VENDOR IN ASCENDING ORDER	OPERATION AND MAINTENANCE PER YEAR AFTER THE 2 YEAR CONTRACT	MINIMUM NUMBER OF SITE VISITS PER CONTRACT	VERIFIED BY
1	AquaKlear AK6S245	\$100.00	1	Vendor
2	BioMicrobics RetroFast**	\$175.00	1	Vendor
3	Singulair TNT	\$300.00	2	Vendor
4	Singulair Green	\$300.00	2	Vendor
5	Hoot BNR	\$175.00	1	Vendor
6	AdvanTex AX20	\$200.00	1	Vendor
7	SeptiTech M400D	\$300.00	2	Vendor
8	Advantex AX20RT	\$300.00	2	Vendor
9	Hydro Action AN series	\$300.00	2	Vendor

Analysis based on price to homeowner per year.

All prices are Estimates and based on basic service level. Prices are subject to change, contact manufacturer.

**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 \$0.13 PER kWh	VERIFIED BY
1	AquaKlear AK6S245	298.7 kWh/ year	\$38.83	Vendor
2	Advantex AX20RT	335.8 kWh/ year	\$43.65	OSET NTP
3	AdvanTex AX20	335.8 kWh/year	\$43.65	OSET NTP
4	Hoot BNR	765.77 kWh/ year	\$99.55	NSF International
5	Singulair TNT	979.66 kWh/ year	\$127.36	NAT Testing Lab
6	Singulair Green	979.66 kWh/year	\$127.36	NAT Testing Lab
7	BioMicrobics RetroFast**	1401.6 kWh/year	\$182.21	Pump Manufacturer
8	Hydro Action AN series	1564.55 kWh/year	\$203.39	Pump Manufacturer
9	SeptiTech M400D	1741.05 kWh/year	\$226.34	Vendor

\$0.13 is an assumed average kW/h rate for Maryland 2017.

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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: <http://bit.ly/MDESepticUpgradeProgram> 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](http://www.mde.state.md.us/countyinfo)

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](http://www.mde.state.md.us/countyinfo)

**RED Font = Technologies that have successfully completed Maryland's Bay Restoration Fund Field Verification process.**