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ATU DIRECTORY

Advanced Treatment Units and Other Onsite Treatment Systems

MANUFACTURER	BRAND	GPD	RELEASED	DESCRIPTION	DISTRIBUTORS
Bio-Microbics, Inc. 8450 Cole Parkway Shawnee, KS 66227 800-753-3278 (FAST) 913-422-0707 Fax: 913-422-0808 sales@biomicrobics.com www.biomicrobics.com See ad page 19	MicroFAST	500 to 160,000+	1996	NSF/ANSI Standard 40/245 certified, the MicroFAST Systems use simple, low-cost, and robust technology to solve a gamut of onsite wastewater treatment issues. Recommended for individual, small community, and commercial applications, the system is integrated into a standard septic tank and does not require additional space. With the SFR feature, alternate modes of operation include intermittent operation of the blower to reduce electricity usage up to 45%. Offering higher levels of Nitrogen removal to provide better onsite wastewater treatment for new construction or retrofits, the effluent meets secondary quality requirements and can be distributed to soil treatment system or water reuse applications.	Nationwide, Global
	BioBarrier	500 to 160,000+	2009	The advanced membrane technology offers the highest quality effluent possible on the market. The BioBarrier was the first system to be approved for water reuse (NSF/ANSI Std. 350, class R) by NSF International. BioBarrier's unique operation sequence and low-foul, durable, flat-sheet membranes require no complicated backwash functionality. The pre-engineered, completely automated, modular MBR ships installation-ready and fits easily into both new and existing tank configurations. The immersed membrane technology utilized in the BioBarrier MBR and HSMBR System allows for installation into a smaller footprint with both above or below ground tank options. Also available in a winery wastewater system.	
	Clarus Environmental Products 3649 Cane Run Rd. Louisville, KY 40211 800-928-7867 502-778-2731 www.clarusenvironmental.com	Z-Cell High Performance Wetland	450 to 36,000+	2001	The Z-Cell technology can be used in residential, commercial, or small community applications for treating residential strength septic tank effluent. The Z-Cell is a timed dose system and the wastewater has a 36" vertical path to an outlet pipe below the wetland's surface. By moving water vertically, the fluid must pass through the horizontally oriented plant root zone. This eliminates short circuiting, an issue common in conventional constructed wetlands. During the growing season, evapotranspiration through plant leaves reduces the hydraulic load to downstream components. Produces better than secondary quality effluent.
	Recirculating Media Filters	450 to 36,000+	2001	Designed for use in residential, commercial, or small community applications for treating residential strength wastewater from a septic tank. Treatment occurs below grade as the fluid trickles down through the pore spaces of the media where aerobic organisms feed on the nutrients. Effluent leaves the system through an outlet pipe in the bottom of the filter. Multiple RMFs can be used together when greater capacities are needed. Effluent can be discharged above or below grade. Above grade disposal must meet local health codes or guidelines. Produces better than secondary quality effluent.	Contact Manufacturer
	Fusion	450 to 800	2006	Drop-in wastewater treatment units that use anaerobic and aerobic zones to produce secondary quality effluent. The "drop-in" system is easy to install and maintain. Filter media are never removed or replaced. Key operating features include the constant recirculation of treated wastewater and a twice-daily automatic backwash cycle that returns residual sludge to the head of the system. A quiet, programmable compressor delivers oxygen to aerobic zones, while consuming as little energy as a 65-watt light bulb. The Fusion's unique design enables it to be installed without a pretreatment tank, making it ideal for use on sites where space is limited.	AL, AR, MI, NY, OH, VA
Delta Environmental Products 8263 Florida Blvd. Denham Springs, LA 70726 800-219-9183 225-665-6162 Fax: 225-664-9467 www.deltaenvironmental.com  PENTAIR DELTA ENVIRONMENTAL	DF Series	500 to 1,500	1993	The process occurs entirely within the self-contained treatment unit which is comprised of outer mixing tank and a cone-shaped settling chamber. Raw, unsettled domestic wastewater enters directly into the mixing tank where mixing occurs through an air distribution system. The mixed liquid then enters the settling chamber from the bottom. The settling chamber maintains a quiet condition which allows solids to settle down and re-enter the mixing chamber for more processing. The liquid is hydraulically displaced upward and is discharged as a clear, odorless treated water which meets or exceeds state water quality standards.	AL, AK, AZ, BC, BWI, CA, CO, FL, GA, HI, ID, IL, IN, IA, KY, LA, ME, MI, MD, MN, MO, MS, MT, NC, NM, NV, NY, OH, OK, ON, OR, TN, TX, UT, VA, WA, WI, WV
	Ecopod-N Series	500 to 1,500	2006	Wastewater enters a pretreatment/settling tank similar to conventional septic tanks. In this tank, debris and settleable solids settle to the bottom and are decomposed by anaerobic bacteria. The effluent leaves the pretreatment tank and enters the Ecopod-N Fixed Film Wastewater Treatment System reactor tank, where it is introduced to an oxygen-rich environment. In this oxygen-rich environment, a colony of bacteria, called the biomass, develops and is capable of digesting biodegradable waste into carbon dioxide and water.	
	Enviro-Aire Series	500 to 1,500	2005	The plant achieves treatment by a flow through process. Raw sewage enters a primary chamber, which has a hydraulic capacity of 346 gallons, providing a retention time of 16.6 hours. This chamber provides for separation of heavy, easily settled solids as well as floatable materials such as grease. Settleable solids accumulate on the bottom and floatable solids accumulate on the surface. Effluent from the clear layer flows into an aeration/mixing chamber with a 28-hr retention time. An aeration system provides for oxygenation of the primary effluent with the wastewater in the aeration/mixing chamber. Air is introduced by passing from the air pump to the air drop-line located in the chamber. The mixed liquor enters the settling chamber at the bottom and travels upward toward the discharge pipe.	IL, LA, MS, TX
Ecological Tanks Inc. 2247 Hwy 151 N Downsview, LA 71234 800-277-8179 318-644-0397 Fax: 318-644-7257 aquasafe@bayou.com www.etiaquasafe.com See ad page 15	AS500L-C 4 + 75	500 to 1,500	2007	Ecological Tanks Inc. offers concrete and fiberglass systems. The Aqua Safe AS500L-C 4 + 75 is a concrete all-in-one unit, 500 gpd unit which includes a 400 gal pre-treatment tank along with a 750 gal pump tank. This unit is shorter than the original Aqua Safe with a 58" inlet height. Also, the AS500L-C 4 + 75 has multiple access openings for concrete or poly risers which allow for easy access into the system for maintenance and/or pumping. The AS500L-C 4 + 75 units far surpass state effluent standards which are approved in over 25 states.	AL, AR, BWI, CA, FL, GA, HI, IL, IA, KS, LA, MS, MO, NM, NY, OH, OK, PA, SC, SD, TX, VA, WV
	AA500-35 / AS600+4NR	500 to 1,500	2009	Other additions to the Ecological Tanks product line are the Aqua Safe AS600+4NR (fiberglass) and the Aqua Aire AA500-35 (concrete). Both of these plants have successfully completed testing for NSF Standard 245 which achieve 50% reduction in total nitrogen. A copy of the official listings for these plants can be obtained on the NSF website (www.nsf.org).	

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Eliminite, Inc. PO Box 359 Begrade, MT 59714 888-406-2289 406-581-1613 info@eliminite.com www.eliminite.com See ad page 39 	Eliminite Grizzly	1,500 to 50,000	2008	The Eliminite Grizzly system is designed for large-scale, high-volume, high-strength commercial and industrial applications in locations where daily operation and maintenance may not be available. The Grizzly system was invented in Montana where winters are long, temperatures routinely drop below 0F for extended periods, and seasonal use patterns/dramatic fluctuations in flow and wastewater strength are the norm rather than the exception. The Grizzly is designed to operate independently and achieves advanced Nitrogen reduction with little outside support; its resilience against upsets and clogging and its aggressive treatment approach can be used in challenging commercial applications.	US
Eljen Corporation 125 McKee St. East Hartford, CT 06108 800-444-1359 860-610-0426 Fax: 860-610-0427 info@eljen.com www.eljen.com See ad page 31 	GSF (Geotextile Sand Filter)	Scalable to site conditions	1982	The Eljen GSF is a passive advanced treatment system, without mechanical parts or replacement media requirements, which treats wastewater at the disposal site with a two-stage Bio-Matt. The GSF is constructed of recycled materials forming a lightweight, easy to handle modules that are installed in series with other modules on a layer of specified sand either in trench, bed, or mound configuration. GSF modules apply a better-than-secondary aerobic effluent to the soil, increasing the soil's ability to accept effluent. The result is a treatment in a smaller absorption area.	US and Canada
Fuji Clean USA 41-2 Greenwood Rd. Brunswick, ME 04011 207-406-2927 Fax: 207-406-2929 info@fujicleanusa.com www.fujicleanusa.com See ad page 7 	CE5	450		Fuji Clean's CE technology averages 50,000 systems being installed annually. The popularity is driven by a small footprint (about 7' x 4'), low power draw (1.27kWh/day), easy plug & play installation and simple, efficient O&M and consistent, treatment (95% BOD and TS removal, NSF 40 certified, no preceding septic tank). There are no moving parts in the "contact filtration" treatment process. One 80 L/min external air blower (MAC "R") introduces oxygen aerobic chambers and powers internal air lift pumps, which manage sludge return and discharge of clean effluent.	Most States
	CEN5	450		Fuji Clean's CEN technology provides enhanced denitrification into its standard contact filtration treatment process and produces a consistent high quality effluent (NSF 40/245 certified: 5 BOD, 6 TSS and 10 TN) from straight septic wastewater – no preceding septic tank necessary. There are no moving parts in the treatment process. The CEN5 is compact (about 8' x 4'), lightweight (about 475 lbs), highly maneuverable and features a low power draw (one 80 L/min blower drawing 1.27 kWh/day), plug & play installation and optional wireless telecommunication package that offers both dial and text capabilities. A proprietary electrolysis phosphorus reduction option is also available with this system.	
	CE6000G	up to 6,000		Fuji Clean's largest CE commercial system, the CE6000G, is now available to supplement its existing CE21 (1,900 gpd) and CE30 (2,700 gpd) models. The CE6000G, which can treat up to 6,000 gpd, uses the same treatment technology, process flow and one-tank structure as the smaller CE systems and can be squeezed into the tightest of sites. The footprint size is only 36' x 6.5' (including built-in septic tank).	
Hoot Systems, LLC 2885 Highway 14 E Lake Charles, LA 70607 888-878-4668 337-474-2804 Fax: 337-477-7904 questions@hootsystems.com www.hootsystems.com See ad page 13 	LA-Hoot	500 to 1,000	1986	LA-Hoot is an improved version from the original Hoot Treatment System introduced in 1984. Results are better than 10/10 mg/L on CBOD and TSS, with more than a 95% reduction of the wastewater influent. Two-year warranty/NSF Standard 40 certified.	AL, AZ, CA, CO, FL, KS, LA, MA, MD, MN, NJ, OH, OK, PA, TX, VA, WI
	H-Series	500 to 1,200	1995	Five-stage, one piece system with a pretreatment tank, aeration chamber, final clarifier, optional disinfection device and a pump tank. Results are better than 5/5 mg/L on CBOD/TSS. A 99 percent reduction on CBOD and TSS. Marketed as BNR in MD and FL with Biological Nitrogen Reduction of >50%. Three-year warranty/NSF Standard 40 certified.	
	ANR	450 to 900	2007	Adds Advanced Nutrient Reduction to the Hoot System. Results of 5.8 mg/L on TN, better than 10/10/10 mg/L on CBOD/TSS and Total Nitrogen. Areas where 10 mg/L is the discharge limit for Total Nitrogen, the federal level for drinking water. Three-year warranty/NSF Standard 40 and 245 certified.	
Hydro-Action PO Box 640 Plymouth, IN 46563 574-276-9681 pete@hydro-action.com www.hydro-action.com See ad page 9 	AP Series and LP Series	500, 600, 750, 1,000, 1,500	1989	The Hydro-Action technology utilizes an activated sludge treatment process, which constantly infuses oxygen to wastewater where aerobic bacteria metabolize the waste. Then it separates in a clarification chamber without the use of media filters, carbon additives, or expensive, high maintenance technologies. We offer our products in a three tank combination as a single unit: pretreatment, aerobic treatment, and pump tank design as the "Set-N-Go" unit. Tanks can be sold as individual treatment plants. 72" tall standard and 52" tall Low Profile systems available. NSF Standard 40 & 245 Nitrogen Reduction approved with testing results of an average CBOD5 of 4mg/L (98.5% reduction), TSS 9mg/L (95.25% reduction), and 5.1 mg/L dissolved oxygen. Nitrogen Reduction averaged less than 10mg/L TN and 79% reduction in Total Nitrogen removal.	US and International
	AN Nitrogen Reduction	AN400, AN500	2013		
Jet, Inc. 750 Alpha Dr. Cleveland, OH 44143 800-321-6960 440-461-2000 Fax: 440-442-9008 email@jetincorp.com www.jetincorp.com See ad page 33 	J 1500 BAT Media Plant; J 500-800 PLT	500 to 1,500		Jet's residential wastewater treatment plants employ the Jet BAT Process Media which provides the ideal environment for nature's own bacteria to thrive and grow. Great numbers of these living microorganisms attach themselves to this submerged structure to create a "biomass" that rapidly treats wastewater. The Jet 700++ Aerator provides the mixing and fresh oxygen the microorganisms require to live while the Jet BAT Process Media provides the environment to support the microorganisms that allow natural filtration and biological reduction to take place. Available in concrete and plastic.	US and International

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MST Manufacturing, LLC 23362 Medero, Ste. C Mission Viejo, CA 92691 877-473-7842 949-297-4590 Fax: 949-916-2093 microseptec@microseptec.com www.microseptec.com 	EnviroServer	600, 1,200 and 2,500	1998	The EnviroServer ES is a combination of primary treatment, flow equalization, and secondary treatment by both fixed-growth and suspended-growth aerobic processes. The system consists of five chambers in one compact pre-engineered unit. The first chamber is a primary clarifier, the second chamber is the first aeration zone, the third chamber is the second aeration zone, the fourth chamber is the final clarifier, and the fifth chamber is the effluent chamber where an optional pump(s) and disinfection device may be installed.	AZ, CA, DC, DE, MD, NJ, NV, PA, VA
Norweco, Inc. 220 Republic St. Norwalk, OH 44857 800-667-9326 (NORWECO) 419-668-4471 Fax: 419-663-5440 email@norweco.com www.norweco.com See ad page 25 	Hydro-Kinetic	500 to 1,500		The Hydro-Kinetic wastewater treatment system employs innovative Hydro-Kinetic filtration technology to produce the cleanest, most consistent effluent quality available. They Hydro-Kinetic system uses the extended aeration and attached growth processes to treat wastewater, and features innovative nitrification-denitrification technology. The Hydro-Kinetic FEU system is the only NSF/ANSI Standard 40 and 245 certified residential wastewater treatment system to pass two consecutive back-to-back tests without performing routine maintenance for a full 12 months. It quietly, efficiently and automatically pretreats, aerates, flow equalizes and filters all wastewater returning only the purest effluent back to the environment.	North America, Central America, South America, Europe, Africa and Middle East
	Singulair	500 to 1,500		The Singulair system is the state-of-the-art alternative to a troublesome septic tank for domestic wastewater treatment. Employing the extended aeration process, the Singulair plant provides flow equalization, pretreatment, aeration, clarification, tertiary filtration and optional chemical addition within a single precast concrete tank. Designed for domestic wastewater flows ranging from 500 to 1,500 gpd, performance of the Singulair system is certified by NSF International (Standards 40 and 245) and the Canadian Standards Association.	
	Singulair Green	500 to 1,500		The Singulair Green aerobic treatment system incorporates Norweco's advanced aerobic treatment process into a durable, watertight polyethylene tank. It is ideal for new or retrofit applications and can be installed easily in the most difficult jobsite with just a backhoe. Incorporating support ribs and inherently strong arch shape, the durable Singulair Green tank will provide decades of reliable performance. Designed for domestic wastewater flows up to 600 gpd, with treatment performance meeting or exceeding the strictest state and county requirements, Singulair Green is certified by NSF International.	
Premier Tech Aqua 1 Avenue Premier Riviere-du-Loup, QC G5R 6C1 Canada 800-632-6356 418-867-8883 Fax: 418-862-6642 pta@premiertech.com www.premiertechaqua.com See ad page 23 	Ecoflo	1 to Unlimited (cluster)	1995	Ecoflo is a wastewater treatment system that can be installed in different site conditions. It features a concrete or polyethylene tank, high-resistance plastic distribution system and integrated pump vault (when the treated effluent has to be pumped out to a surface disposal). It uses a quality-controlled filtering media to treat wastewater coming from the septic tank. No electric power is required to achieve treatment which exceeds standards. Filtering media and mechanical components are accessible for routine maintenance and verifications. Compact and modular, Ecoflo can be used for residential, commercial and small community projects.	US and Canada
Presby Environmental 143 Airport Rd. Whitefield, NH 03598 800-473-5298 603-837-3826 Fax: 603-837-9864 info@presbyeco.com www.presbyenvironmental.com See ad page 5 	Advanced Enviro-Septic	Varies	2005	Advanced Enviro-Septic (AES) is a passive treatment and dispersal system. This effective and non-mechanical onsite system is designed for residential, commercial, and community use. AES has been proven to remove up to 99% of wastewater contaminants without the use of electricity or replacement media. AES does this quickly and naturally establishing multiple bacterial treatment environments throughout the system that break down and digest wastewater contaminants leaving the septic tank. This passive process allows the system to discharge highly purified wastewater, preventing soil clogging and groundwater contamination. AES has third party certifications from NSF, Cebedeau, BNQ, and SAI Global.	30 States and 14 Countries
SeptiTech - a subsidiary of Bio-Microbics, Inc. 69 Holland St. Lewiston, ME 04240 800-318-7967 207-333-6940 Fax: 207-333-3944 info@septitech.com www.septitech.com	SeptiTech STARR	500 to 27,000+	1996	SeptiTech STAAR (Smart Trickling Anaerobic/Aerobic Recirculation) Filter Systems utilize an enhanced, biological, unsaturated media filter process to treat high organic loads that integrate with other technologies and accessories. ETV-EPA verified and NSF/ANSI Standard 40/245 certified, the simple, automatic and reliable equalization and clarification process of the STARR biological trickling filter technology also maintains low levels of Nitrate-N with all below-grade components that fit in readily available concrete, plastic or fiberglass tanks. With a disinfection system and a low-impact technology for irrigating plants (or other non-potable use), the STARR trickling filter systems are designed for direct discharge or water reuse.	Nationwide, Global

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At Onsite Installer, we're looking for wastewater treatment companies with an interesting story to tell. If you'd like to share your story, send us a note at editor@onsiteinstaller.com.

