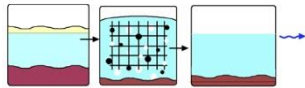


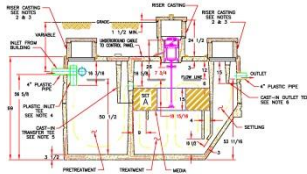
**PECONIC
GREEN
GROWTH
TECH INFO SHEET**

Firm: Jet, Inc.
System: Model J-1500CF Series

Category:



**AERATED and ANOXIC
FIXED FILM and ACTIVATED
SLUDGE**



Process: Wastewater first enters a chamber for primary treatment and sedimentation. The effluent then travels by hydraulic displacement to the treatment chamber, where both submerged plastic fixed film and activated sludge processes occur. The aeration and mixing needed to support the aerobic bacteria is executed with a central air feed. The aerator is intermittently on, then off (switches automatically every 30 minutes) to provide both the needed aerobic environment for nitrification and the anoxic environment needed for denitrification. Treated effluent enters an upflow clarification chamber with a filter before exiting to the dispersal component.

System: The J-500CF and J-750CF incorporate a primary treatment chamber in a three-chamber design, eliminating the need for a separate septic tank. The J-1000 through J-1500CF requires a minimum of a 1000 gallon pretreatment tank. The unit does not replace the discharge components.

Flow Range: 500 - 1500 GPD

Tests: NSF/ANSI 245 for denitrification

Cost: \$7,500 estimate (separate septic tank not needed),
Cost does not include the dispersal system or installation.

Energy: Energy use is limited to a blower running intermittently for aeration. The estimated energy usage is roughly kWh/month, for a cost of roughly \$25-\$30 per month. All other movements are passive.

Tanks: Concrete and plastic

Venting: Utilize existing house venting where possible.

Footprint: 50 SF

Jet, Inc.
750 Alpha Dr. STE. A
Highland Heights
Ohio, 44143

Telephone:
440 461 2000

Depth: Tank is 5'W X 10'L X 7'H feet incorporating a 1-foot riser.

Life Cycle: Blower: 6 - 8 years (Cost: \$700)

Warranty: 30 month, life-time exchange (core charge)

Maintenance: Twice per year; pump-outs as needed (estimated every 2-3 years).

Notes: System can be installed using gravity dispersal or pressure distribution.

Installations: 1000+

Treatment:

	<i>TN</i> <i>/aver 50%</i>	<i>cBOD</i> <i>25 mg/L</i> <i>aver/mon</i>	<i>TSS 30</i> <i>mg/L</i> <i>aver/mon</i>	<i>pH</i> <small>(6-9)</small>
<i>Performance</i> <i>mg/L</i>	6.4-19 13.24 aver	11	10	7.57
<i>%</i>	72.6%	95%	94%	

Advantages:

- During a power outage, the unit can function as a simple septic tank
- Small footprint
- Septic tank not needed
- No submerged moving parts

Disadvantages:

- Due to size of the primary treatment chamber, pump-outs are needed fairly frequently (2-3 years)
- Not recommended for seasonal use
- Energy use is moderately high