

Jet System Inspections

If you want to experience honest, dependable, responsive, service-oriented wastewater treatment specialists, you want Jet – a company founded on innovation and anchored by service.



- Ed Schloss
- eschloss@jetincorp.com
- 800-321-6960



Jet has been providing high quality and affordable advanced wastewater treatment products since 1955

Manufacturer of:

- 💧 500-1500 GPD Residential wastewater treatment plants
- 💧 500 – 300,000 GPD Commercial wastewater treatment plants
- 💧 BioJet 7 Environmentally friendly biological additives
- 💧 UV light & Chlorine disinfection & dechlorination devices
- 💧 Accutab chlorination and ChlorAway dechlorination chemicals

***Systems are installed in 40 states and
18 countries throughout the world***



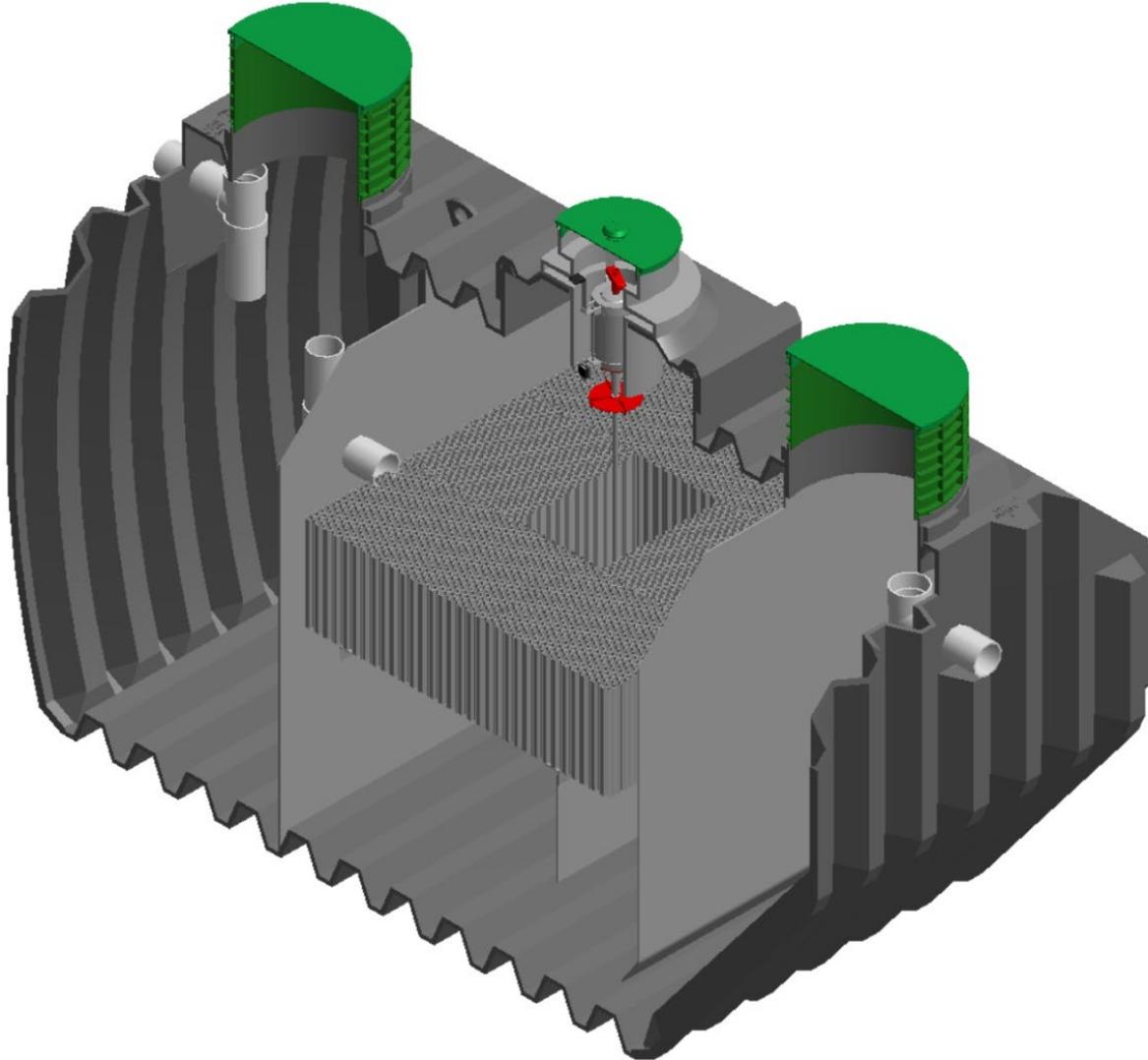
- Sludge judge/sampling devise
- Rubber/latex gloves
- 5/32 Allen/hex wrench
- Cleaning probe
- Gun brush
- Bio-degradable cleaner
- Multi-meter
- Clear sampling jars
- Water test kit – pH, hardness, Nitrate, Nitrite, ammonia
- Air Cleaning Wand and oil free compressor (max 50 CFM)
- Dielectric grease



- **Tanks**
 - **Precast**
 - **3 Yards**
 - **2 1/2" thick walls**
 - **Approximately 12,000 pounds**
 - **1225 gallon capacity**
 - **Plastic**
 - **1100 pound**
 - **1450 gallon capacity**
- **Divided into three compartments**
 - **Pretreatment**
 - **Treatment**
 - **Settling**



Plastic Tank



Pre-Treatment Compartment

- Approximately 500 gallon capacity for J-500 – J800PLT
- 1500 pretreatment gallon pretreatment for J-1000 through J-1500. Consult factory on application.
- Riser need to be above grade to prevent infiltration
- Inlet should have inlet sanitary tee



- Check for sludge and scum layers.
- If none, check for water leaks in the house or high use items such as tubs or bed count per bedroom.

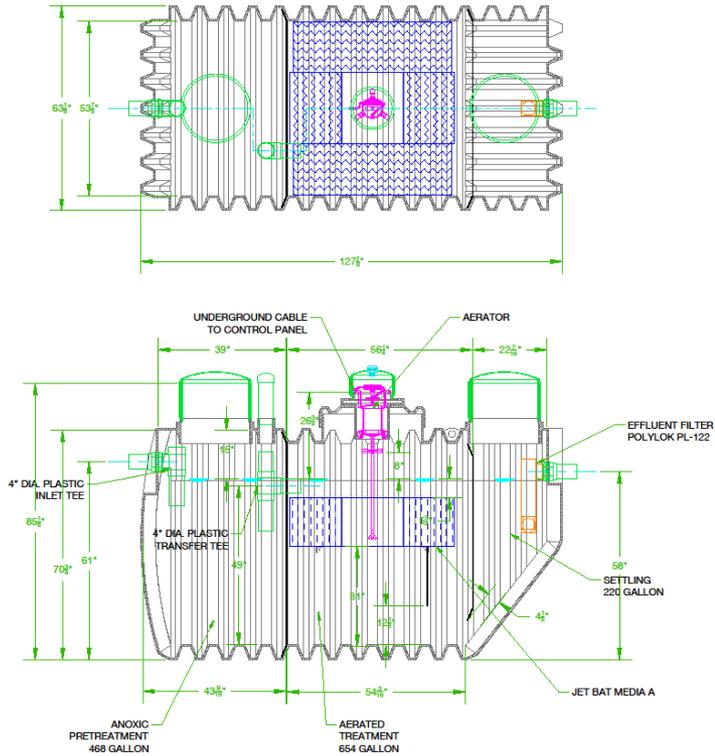


- Approximately 600 gallons for J-500 through J-800.
- J-1000 through J-1500 have media in the first compartment.
- Jet aerator provides two functions
 - Aeration
 - Mixing
 - High water alarm
- Uses fully submerged fixed film media for biologically accelerated treatment (IFAS)
- Riser above grade to prevent infiltration



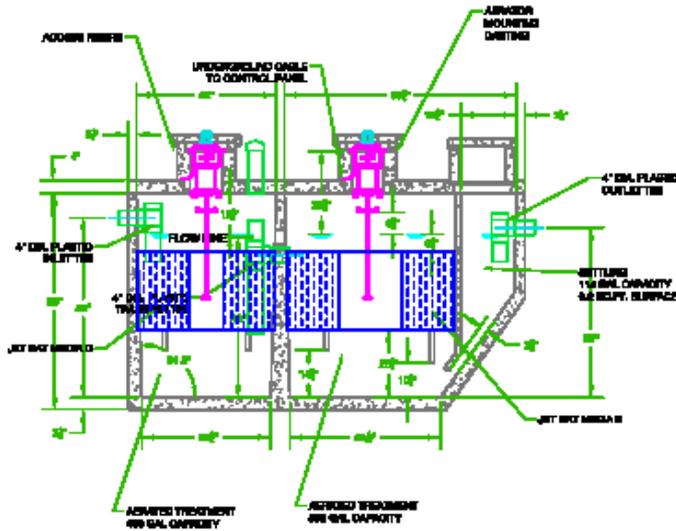
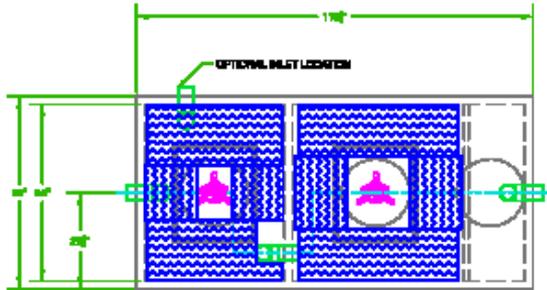


- NOTES:
1. AERATOR MODEL 700LL MUST BE USED IN CONTINUOUS OPERATION
 2. MAXIMUM BURIAL DEPTH 24" FROM TOP OF TANK
 3. J-500 IS CAPABLE OF TREATING UPTO 500 GALLONS OF WASTEWATER WITH AN APPLIED LOADING OF UPTO 0.71 LBS. BOD PER DAY



B	1509	9/15	CORRECT OUTLET PIPE HEIGHT	N J K
A	1508	8/15	ADD FLOWRATE TO NOTES	N J K
--	1407	8/15	NEW DRAWING	N J K
REV	ECN	DATE	DESCRIPTION	DRFT
		DRAWN BY: N J K DATE: 9/17/15	DATE: 	DATE:
TITLE: J-500 RESIDENTIAL WWTP PLASTIC TANK WITH EFFLUENT FILTER		MATERIAL: 		
USED ON: 		SCALE: 1:20 UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES DECIMAL: ± .010 FRACTIONAL: ± 1/64 DECIMAL: ± .1"	DRAWING NUMBER: J-500-PLT-F REV: B	
PROPRIETARY PROPERTY: THIS DRAWING IS THE PROPERTY OF JET INC. AND MAY NOT BE REPRODUCED, COPIED OR USED WITHOUT WRITTEN PERMISSION.				





- NOTES**
1. ADJUSTER MODEL SHALL MUST BE USED IN CONTINUOUS OPERATION IN EACH TREATMENT CHAMBER.
 2. J-1000 MUST BE PRECEDED BY 8000 GALLON SEPTIC TANK OR PARTITIONED TANK.
 3. LEVEL OF FIBERS TO SPREAD ON WITHIN 1" BELOW GRADE.
 4. PLASTIC INSURING CANT INTO THE TANK LID MAY BE USED IN PLACE OF CONCRETE FIBERS.

 Wastewater Treatment Solutions Founded on Innovation. Anchored by Service.		PROJECT NO: 00-1474 DATE: 08/14/14 DRAWN BY: JDC CHECKED BY: JDC
TITLE J-1000 PERCENTIAL UNIT ONE PIECE TANK CHAMBER		SCALE 1" = 1'-0" (ALL DIMENSIONS UNLESS OTHERWISE NOTED) ALL DIMENSIONS ARE IN FEET AND INCHES DECIMALS: 1/8" = .125" FRACTIONS: 1/4" = .25" CONCRETE: #1" FINISH: 1/4"
REVISIONS 1. 08/14/14 2. 08/14/14 3. 08/14/14 4. 08/14/14		APPROVED BY: J-1600 JDC

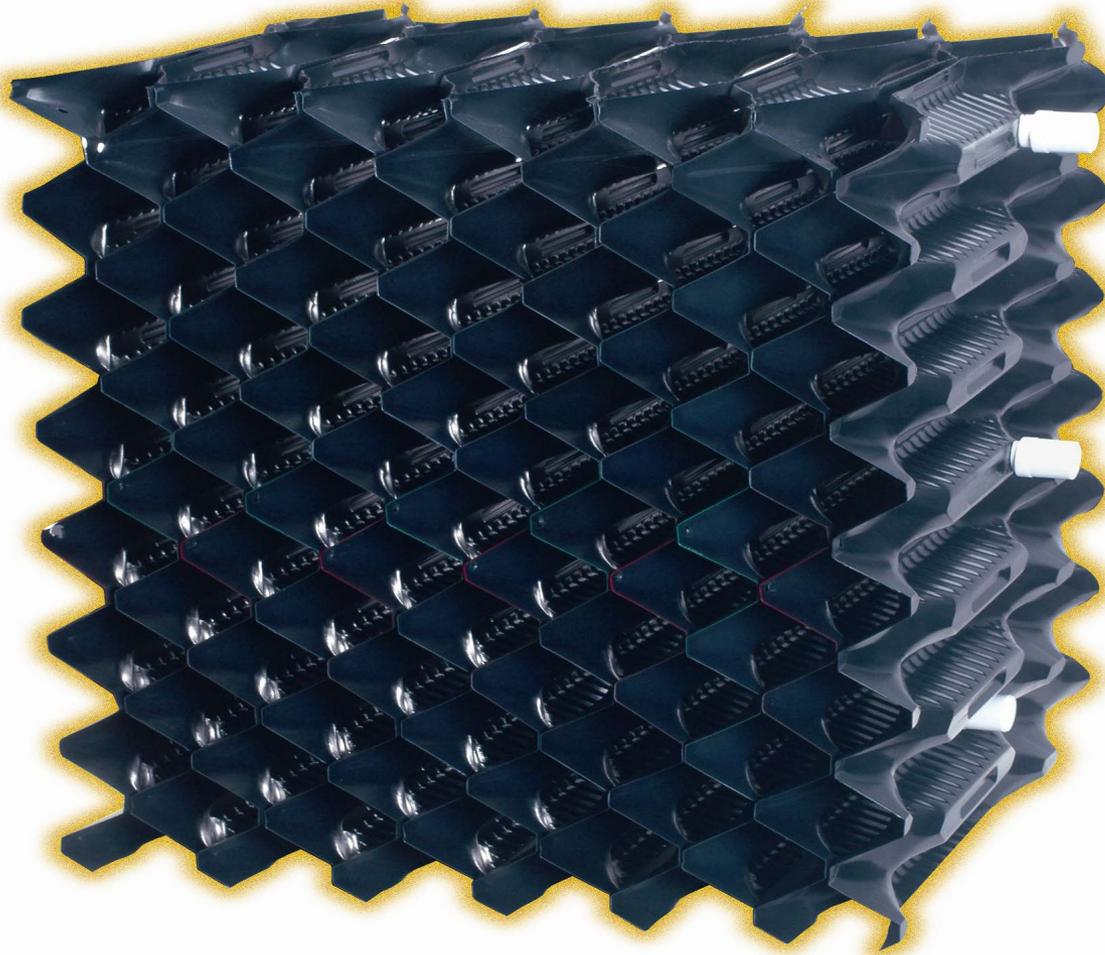


Model 700 ++ Aerator

- Flood proof motor
- Efficient 1/3 Hp motor
- Oil free sealed motor
- Fresh air tube up to vent cap



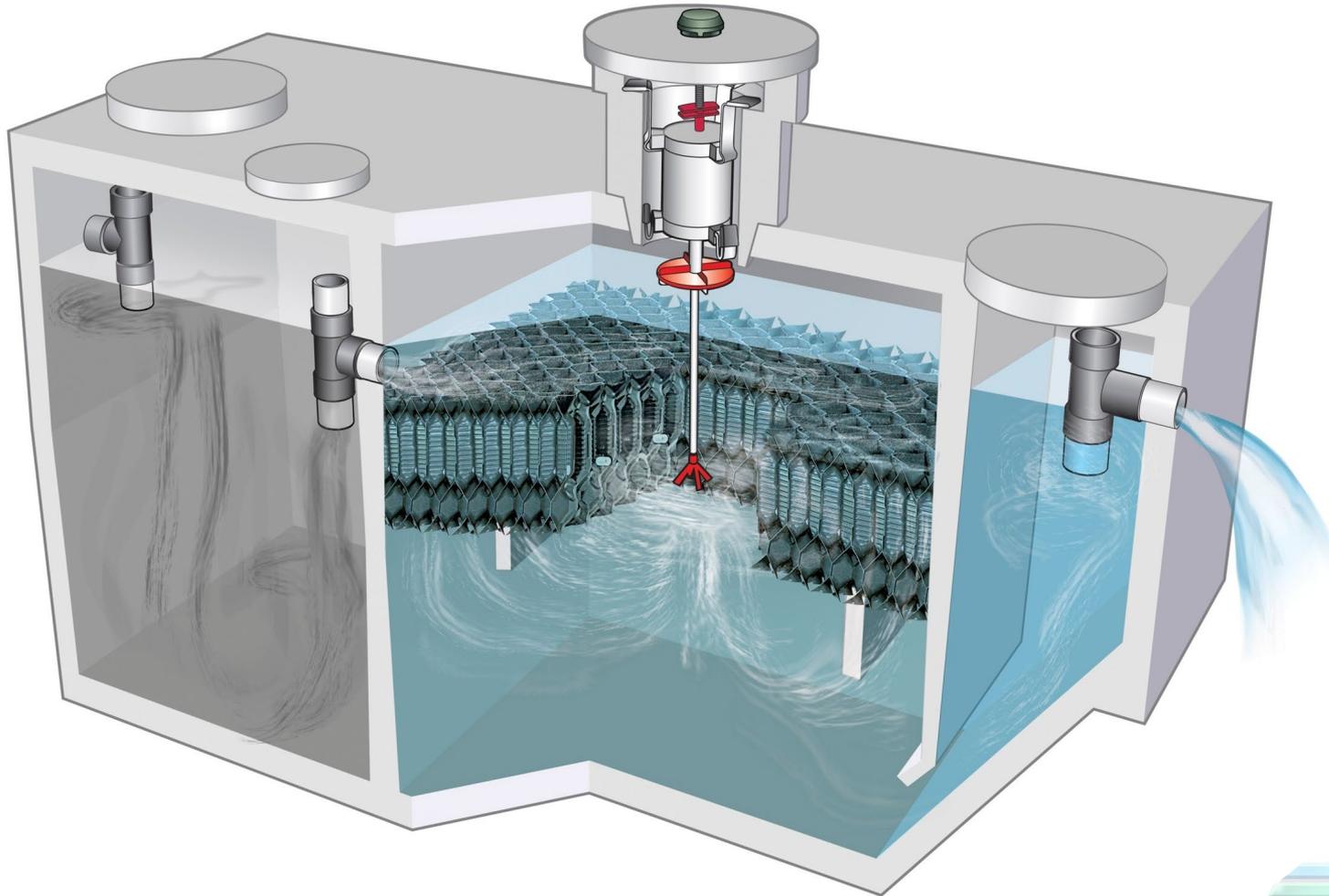
BAT Media



- Jet Systems use technology called BAT[®] (biologically accelerated treatment)
- Fixed film biomass consists of aerobic bacteria and other higher organisms
- Provides filtration and biological degradation
- Mixing and circulation by the aerator provide maximum passage of liquids through the media



Clarifier



Settling Compartment

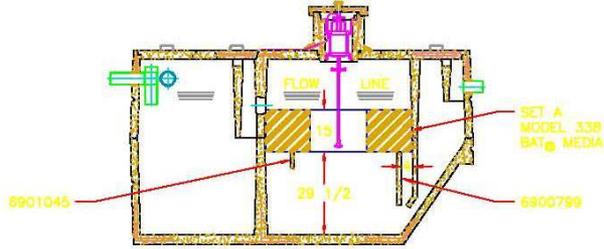
- 125 Gallons in the concrete and 210 in the PLT
- Wastewater is transferred from treatment compartment below hanging baffle and sloping wall to the clarifier
- Wastewater is held in quiescent state - enhancing settling
- Check for floating scum or staining on the outlet



- 💧 Additional media means more treatment
- 💧 Single mold can cast tanks from 500 to 1500 GPD of treatment
- 💧 Additional media and aerator installed in the pretreatment compartment for systems from 1000 GPD and up
- 💧 1000 Gallon pretreatment tank required for larger systems

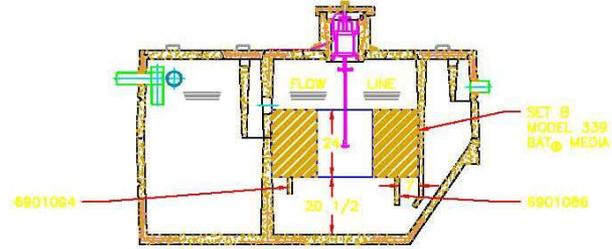


MODEL J-500



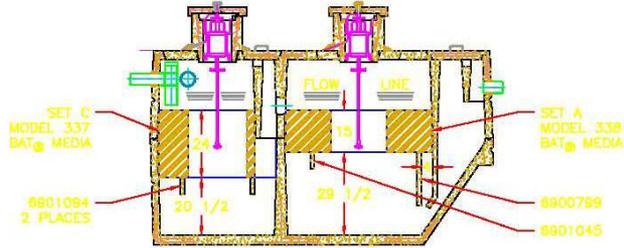
500 GALLON PER DAY

MODEL J-750



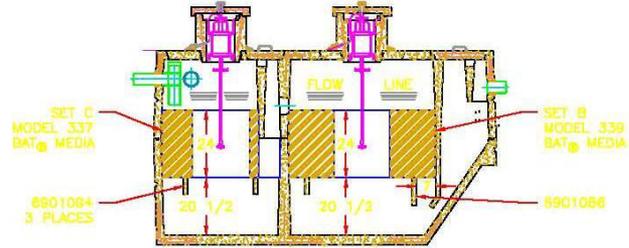
750 GALLON PER DAY

MODEL J-1000



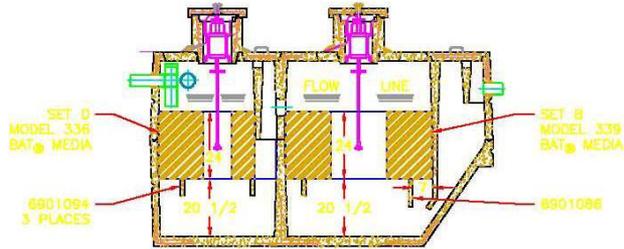
1000 GALLON PER DAY

MODEL J-1250



1250 GALLON PER DAY

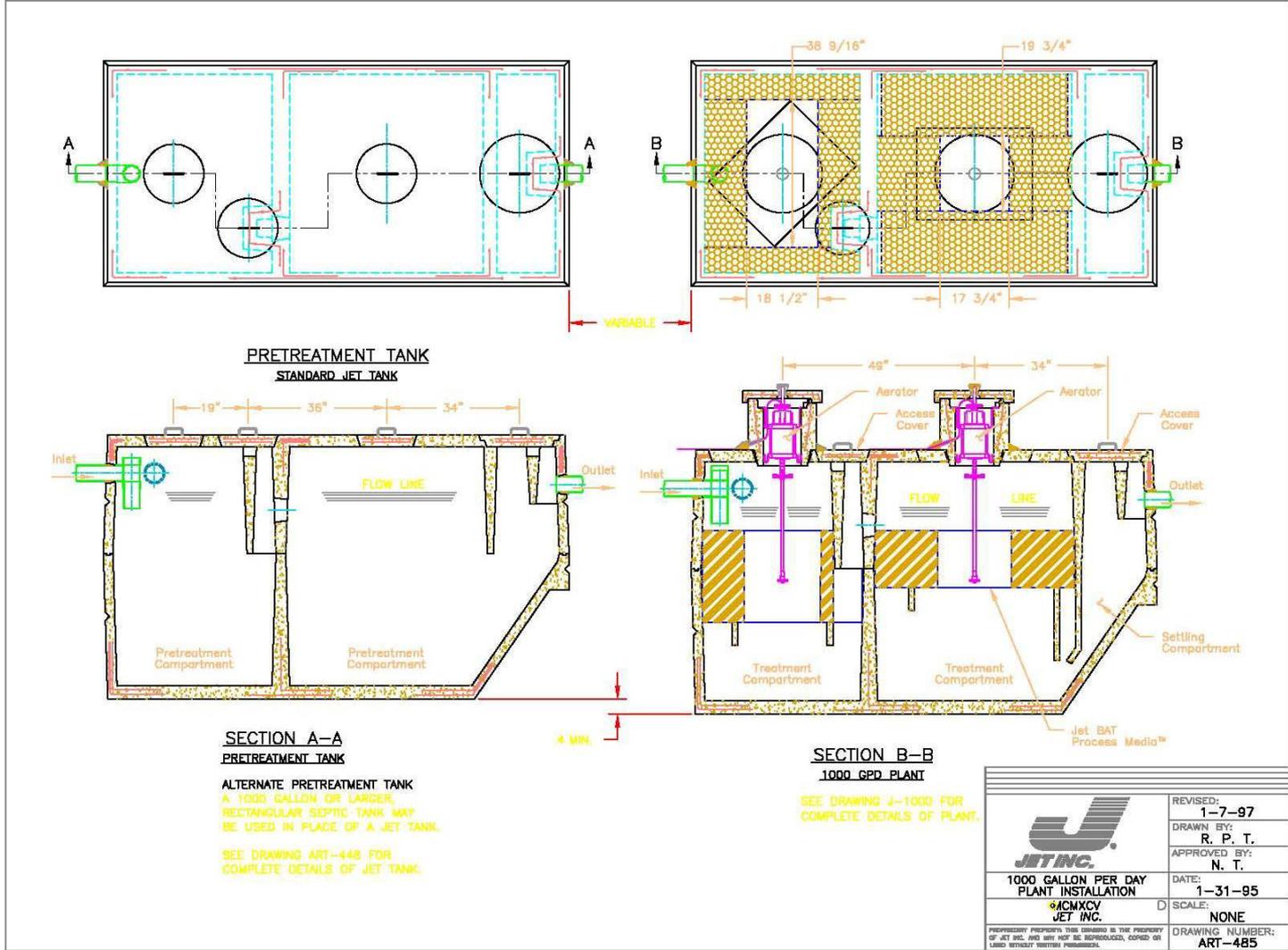
MODEL J-1500



1500 GALLON PER DAY

 BAT MEDIA INSTALLATION IN PLANT TANK C/M/X/O/V JET INC.	REVISED:	8-13-97
	DRAWN BY:	R. P. T.
	APPROVED BY:	N. T.
	DATE:	10-11-94
	SCALE:	NONE
<small>PROPRIETARY PROPERTY: THIS DESIGN IS THE PROPERTY OF JET INC. AND MAY NOT BE REPRODUCED, COPIED OR USED WITHOUT WRITTEN PERMISSION.</small>	DRAWING NUMBER:	ART-470





- 115/1/60
- Mount panel outside in view of system
- Apply system decal to panel
- Power for:
 - Aerator – 15 amp, approximate 3.5 amps running
 - Pump, if necessary. Power requirements vary with pump specified



191 Control Panel







- Seal opening where wire comes through motor riser



Plug installation

- Strip wire back ½”
- Insert into female plug locations (ground is green, silver is white/neutral, gold is black/hot)
- Coat connections with dielectric grease





START-UP CHECKLIST Date ____ / ____ / ____

Address _____ **Phone ()** _____
 _____ **Permit#** _____

Tank	YES	NO	Aerator	YES	NO
Size/GPD			Model# _____		
• Tank location as designed	<input type="checkbox"/>	<input type="checkbox"/>	S/N#	<input type="checkbox"/>	<input type="checkbox"/>
• Solid earthen pad	<input type="checkbox"/>	<input type="checkbox"/>	• Power off	<input type="checkbox"/>	<input type="checkbox"/>
• Tank sealed properly	<input type="checkbox"/>	<input type="checkbox"/>	• Watertight connector installed properly	<input type="checkbox"/>	<input type="checkbox"/>
• Tank level	<input type="checkbox"/>	<input type="checkbox"/>	• Shaft and foam resticior installed	<input type="checkbox"/>	<input type="checkbox"/>
• Inlet and outlet sealed	<input type="checkbox"/>	<input type="checkbox"/>	• Brackets fitted	<input type="checkbox"/>	<input type="checkbox"/>
• Tank backfilled	<input type="checkbox"/>	<input type="checkbox"/>	• Vent hose installed	<input type="checkbox"/>	<input type="checkbox"/>
• Has BAT® media shifted	<input type="checkbox"/>	<input type="checkbox"/>	• Vent hose seated in vent cap	<input type="checkbox"/>	<input type="checkbox"/>
• Is media secured properly	<input type="checkbox"/>	<input type="checkbox"/>	• Perform control panel electrical test	<input type="checkbox"/>	<input type="checkbox"/>
• Inlet tee installed	<input type="checkbox"/>	<input type="checkbox"/>	• Aerator vibration acceptable	<input type="checkbox"/>	<input type="checkbox"/>
• Outlet tee installed	<input type="checkbox"/>	<input type="checkbox"/>	• Air volume acceptable	<input type="checkbox"/>	<input type="checkbox"/>
• Transfer tee installed	<input type="checkbox"/>	<input type="checkbox"/>	• Owners manual to homeowner	<input type="checkbox"/>	<input type="checkbox"/>
• Flow line correct	<input type="checkbox"/>	<input type="checkbox"/>	Chlorinator (If Applicable)	<input type="checkbox"/>	<input type="checkbox"/>
• Vent cap in place	<input type="checkbox"/>	<input type="checkbox"/>	•	<input type="checkbox"/>	<input type="checkbox"/>
• Sample ports installed	<input type="checkbox"/>	<input type="checkbox"/>	•	<input type="checkbox"/>	<input type="checkbox"/>
• Flow through tank	<input type="checkbox"/>	<input type="checkbox"/>	•	<input type="checkbox"/>	<input type="checkbox"/>
Control Panel			De-Chlorinator (If Applicable)	<input type="checkbox"/>	<input type="checkbox"/>
Model# _____			•	<input type="checkbox"/>	<input type="checkbox"/>
S/N# _____			•	<input type="checkbox"/>	<input type="checkbox"/>
• Dedicated circuit	<input type="checkbox"/>	<input type="checkbox"/>	•	<input type="checkbox"/>	<input type="checkbox"/>
• Wired according to NEC	<input type="checkbox"/>	<input type="checkbox"/>			
• Telemetry functional	<input type="checkbox"/>	<input type="checkbox"/>			
• Alarms functional	<input type="checkbox"/>	<input type="checkbox"/>			
• Switch functional	<input type="checkbox"/>	<input type="checkbox"/>			
• Panel breaker functional	<input type="checkbox"/>	<input type="checkbox"/>			
• Proper labels attached	<input type="checkbox"/>	<input type="checkbox"/>			
UV Disinfection (If Applicable)					
S/N# _____	<input type="checkbox"/>	<input type="checkbox"/>			
•	<input type="checkbox"/>	<input type="checkbox"/>			
•	<input type="checkbox"/>	<input type="checkbox"/>			
•	<input type="checkbox"/>	<input type="checkbox"/>			
Bump Tank (If Applicable)					
S/N# _____	<input type="checkbox"/>	<input type="checkbox"/>			
• Pump interlock functional	<input type="checkbox"/>	<input type="checkbox"/>	Designer/Engineer _____		
• High water alarm functional	<input type="checkbox"/>	<input type="checkbox"/>	Installer _____		
• Proper flow to tank	<input type="checkbox"/>	<input type="checkbox"/>	Service Provider _____		
			Distributor _____		





6/12 Month Service Checklist

Address _____ Date ____ / ____ / ____

 Phone () - _____

Control Panel

S/N# _____	YES	NO
Model# _____		
• Switch Operation	<input type="checkbox"/>	<input type="checkbox"/>
• Continuous Run	<input type="checkbox"/>	<input type="checkbox"/>
• Off Position	<input type="checkbox"/>	<input type="checkbox"/>
• Alarm Function		
• Light Glowing	<input type="checkbox"/>	<input type="checkbox"/>
• Buzzer Alert	<input type="checkbox"/>	<input type="checkbox"/>
• Voltage to Aerator	<input type="checkbox"/>	V <input type="checkbox"/>
• Current Draw to Aerator	<input type="checkbox"/>	A <input type="checkbox"/>
• Line Voltage to Panel	<input type="checkbox"/>	V <input type="checkbox"/>
• Dedicated 15 amp circuit	<input type="checkbox"/>	<input type="checkbox"/>
• Access cover secure	<input type="checkbox"/>	<input type="checkbox"/>
• Risers Condition OK	<input type="checkbox"/>	<input type="checkbox"/>
• Inlet open	<input type="checkbox"/>	<input type="checkbox"/>
• Outlet open	<input type="checkbox"/>	<input type="checkbox"/>
• Effluent turbid	<input type="checkbox"/>	<input type="checkbox"/>
• Effluent foamy	<input type="checkbox"/>	<input type="checkbox"/>
• Effluent sample color	<input type="checkbox"/>	<input type="checkbox"/>
• Media in position	<input type="checkbox"/>	<input type="checkbox"/>
• Good growth on media (bio-mat)	<input type="checkbox"/>	<input type="checkbox"/>
• Sludge level pretreatment	<input type="checkbox"/>	inches <input type="checkbox"/>
• Sludge level treatment	<input type="checkbox"/>	inches <input type="checkbox"/>
• Sludge in Clarifier	<input type="checkbox"/>	<input type="checkbox"/>
• Effluent sample odor	<input type="checkbox"/>	<input type="checkbox"/>
• If yes, describe odor or issue:	_____	

Aerator & Casting S/N# _____	YES	NO
• Vent cap cleaned	<input type="checkbox"/>	<input type="checkbox"/>
• Hose seated in cap	<input type="checkbox"/>	<input type="checkbox"/>
• Hose kinked	<input type="checkbox"/>	<input type="checkbox"/>
• Excessive vibration	<input type="checkbox"/>	<input type="checkbox"/>
• Bumpers Worn	<input type="checkbox"/>	<input type="checkbox"/>
• Brackets Bent	<input type="checkbox"/>	<input type="checkbox"/>
• Plug / Connector watertight	<input type="checkbox"/>	<input type="checkbox"/>
• Foam restrictor clean	<input type="checkbox"/>	<input type="checkbox"/>
• Shaft clean	<input type="checkbox"/>	<input type="checkbox"/>
• Aspirator tip clean	<input type="checkbox"/>	<input type="checkbox"/>
• Motor shaft clean	<input type="checkbox"/>	<input type="checkbox"/>
• Voltage at tank	<input type="checkbox"/>	V <input type="checkbox"/>
• Current draw at tank	<input type="checkbox"/>	A <input type="checkbox"/>
• Air flow reading	<input type="checkbox"/>	cfm <input type="checkbox"/>
• Air Cleaning Media (12M)	<input type="checkbox"/>	<input type="checkbox"/>
Chlorinator	YES	NO
• Tablets added	<input type="checkbox"/>	<input type="checkbox"/>
• Number of tablets added	<input type="checkbox"/>	<input type="checkbox"/>
• Clean feed tube	<input type="checkbox"/>	<input type="checkbox"/>
De-Chlorinator		
• Tablets added	<input type="checkbox"/>	<input type="checkbox"/>
• Number of tablets added	<input type="checkbox"/>	<input type="checkbox"/>
• Clean feed tube	<input type="checkbox"/>	<input type="checkbox"/>
General: Repairs Needed	_____	

UV Disinfection (If Applicable)

S/N# _____	YES	NO
• Light operational	<input type="checkbox"/>	<input type="checkbox"/>
• Flow OK	<input type="checkbox"/>	<input type="checkbox"/>
• Alarms OK	<input type="checkbox"/>	<input type="checkbox"/>
• Change bulb (2 years)	<input type="checkbox"/>	<input type="checkbox"/>

Pump (If Applicable)

S/N# _____	YES	NO
• Removed & Cleaned	<input type="checkbox"/>	<input type="checkbox"/>
• Wiring Checked	<input type="checkbox"/>	<input type="checkbox"/>
• Floats functional	<input type="checkbox"/>	<input type="checkbox"/>

General: Repairs Made

Servicing Company _____

Service Provider _____

Phone# _____

REV 05/18/2014

QA-SAL-203









No maintenance









Questions?

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