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SECTION: C3.030.120 CL0067 0522 Supersedes 0422

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Visit our web site: zoellerpumps.com

Z-Cell®

HIGH PERFORMANCE WETLAND

The Zoeller Pump Company Z-Cell® is a high performance constructed wetland wastewater treatment system capable of decreasing residential strength waste from a septic tank to better than secondary treatment levels (BOD<30mg/L and TSS<30mg/L). Even though conventional wetlands are often used for secondary treatment, they do not routinely meet secondary treatment effluent quality standards. The advanced design of the Z-Cell® has

solved the problems of conventional wetlands. The Z-Cell[®] operates on the simple principle of managing the influent in time and space. Flow is equalized using time dosing and is uniformly applied to the bottom of the treatment cell. The fluid has a short, vertical path (36") to an outlet header. By moving the fluid vertically, the fluid must pass through the horizontally-oriented, plant root zone. Thus the problem of preferential (short circuiting) flow in a conventional wetland has been solved.

- Residential Wastewater Treatment
- Proven Technology

- Attractive Design
- Environmentally Friendly

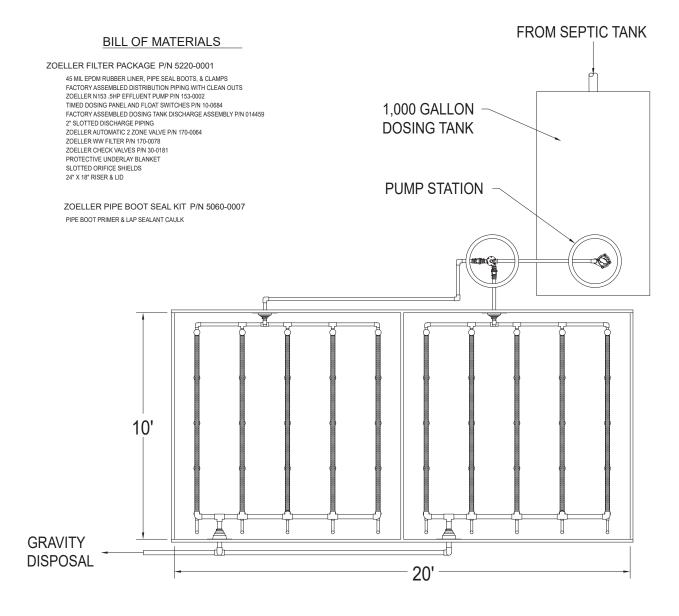
Z-Cell® Wetland Wastewater Treatment System - Letting Nature Work



The Z-Cell® is an attractive, robust, and ecologically sound treatment system.

ALL ZOELLER PUMP COMPANY ONSITE PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH PLUMBING AND HEALTH DEPARTMENT CODES.

10' X 20' Z-Cell® High Performance Wetland (450 GPD)



SUPPLIED BY OTHERS

SEPTIC TANK: MANUFACTURER MODEL (MUST BE WATER TIGHT) DOSING TANK: MANUFACTURER MODEL (MUST BE WATER TIGHT)

TREATED LUMBER FOR FRAME FORCE MAIN AND GRAVITY PIPE MISCELLANEOUS FITTINGS, GLUE, ETC ... DISPOSAL MATERIALS

ELECTRICAL SERVICE REQUIRED			
GRAVITY DISCHARGE	DOSING PUMP: (1) 115V , 20A		
	ALARM: (1) 115V , 15A		

*ELECTRICAL SERVICE WILL VARY FOR LARGER SYSTEMS AND LARGER PUMPS

VOLUME OF MEDIA REQUIRED		
WETLAND SIZE	3'-6" X 10' X 20'	
WETLAND MEDIA	26 CU. YARDS	

Z-CELL® WETLAND MEDIA RECOMMENDATIONS

	MINIMUM SIZE	MAXIMUM SIZE
SIEVE SIZE	% PASSING	% PASSING
2 inch	100	100
1 1/2 inch	90	100
1 inch	20	55
3/4 inch	0	15
3/8 inch	0	5

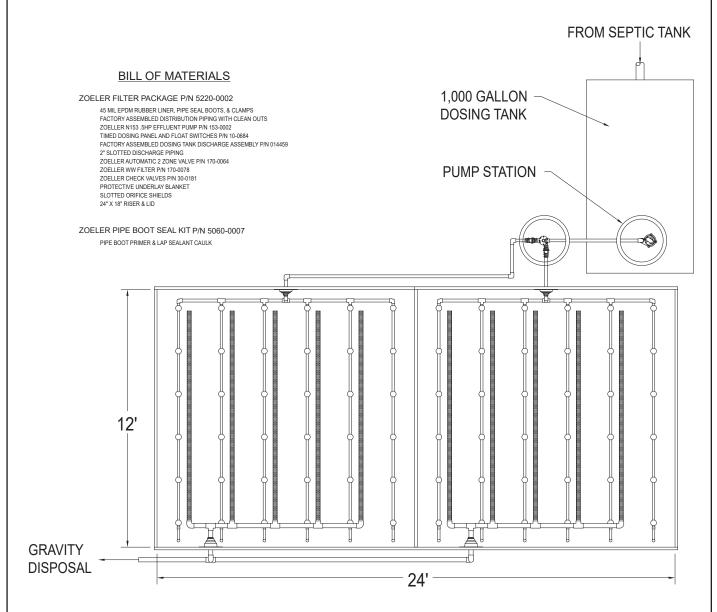
ALL MEDIA USED INSIDE OF Z-CELL® MUST BE WELL WASHED, FINES SHOULD BE KEPT TO AN ABSOLUTE MINIMUM. OTHER MEDIA MAY BE CHOSEN AT THE SPECIFYING ENGINEER'S DISCRETION, CONSULT ZOELLER PUMP COMPANY AND THE STATE/LOCAL HEALTH DEPARTMENT FOR MEDIA APPROVALS.

SYSTEM DESIGN INFO:

WETLAND SIZE: 10' X 20' (200 SQ.FT.) LOADING RATE: 2.25 GAL./SQ.FT./DAY MAX. DAILY FLOW: 450 GPD NUMBER OF ZONES: 2
ORIFICES PER ZONE: 25
DISTAL PRESSURE: 5' (0.41 GPM/ORIFICE)
PUMP OPERATING CONDITION: 10.3 GPM @__

SK2543

12' X 24' Z-Cell[®] High Performance Wetland (600 GPD)



SUPPLIED BY OTHERS

SEPTIC TANK: MANUFACTURER _______ MODEL ______

(MUST BE WATER TIGHT)

DOSING TANK: MANUFACTURER ______ MODEL _____

(MUST BE WATER TIGHT)

MEDIA: _____

PLANTS

TREATED LUMBER FOR FRAME
FORCE MAIN AND GRAVITY PIPE
MISCELLANEOUS FITTINGS, GLUE, ETC...
DISPOSAI MATERIALS

*ELECTRICAL SERVICE WILL VARY FOR LARGER SYSTEMS AND LARGER PUMPS

VOLUME OF MEDIA REQUIRED		
WETLAND SIZE	3'-6" X 12' X 24'	
WETLAND MEDIA	38 CU. YARDS	

Z-CELL® WETLAND MEDIA RECOMMENDATIONS

	MINIMUM SIZE	MAXIMUM SIZE
SIEVE SIZE	% PASSING	% PASSING
2 inch	100	100
1 1/2 inch	90	100
1 inch	20	55
3/4 inch	0	15
3/8 inch	0	5

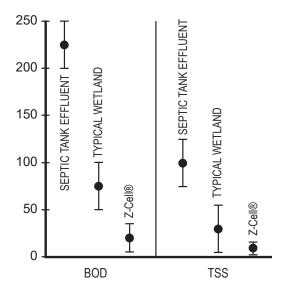
ALL MEDIA USED INSIDE OF Z-CELL® MUST BE WELL WASHED, FINES SHOULD BE KEPT TO AN ABSOLUTE MINIMUM. OTHER MEDIA MAY BE CHOSEN AT THE SPECIFYING ENGINEER'S DISCRETION. CONSULT CLARUS ENVIRONMENTAL AND THE STATE/LOCAL HEALTH DEPARTMENT FOR MEDIA APPROVALS.

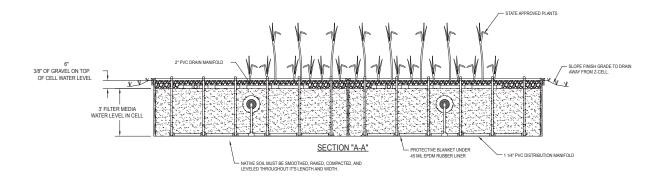
SYSTEM DESIGN INFO:

WETLAND SIZE: 12' X 24' (288 SQ.FT.)
LOADING RATE: 2.10 GAL./SQ.FT./DAY
MAX. DAILY FLOW: 600 GPD
NUMBER OF ZONES: 2
ORIFICES PER ZONE: 36
DISTAL PRESSURE: 5' (0.41 GPM/ORIFICE)
PUMP OPERATING CONDITION: 14.8 GPM @_____, *TDH

SK2544

Typical System Performance Comparison





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Online Support: zoellerpumps.com