

It's Only Natural: The Evolution of Effluent Filters

Theo B. Terry, III, RS



**Original Disc Dam Filter
Patent Applied for July 1956
Patent Issued August 1959**

BOB ZABEL





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Original Filter Alarm
Patent Applied for September 1963
Patent Issued July 1967

BOB ZABEL



Original Filtered Pump Vault
Patent Applied for 1982
Patent Issued 1984

ORENCO SYSTEMS



Zabel Environmental Technology
NOWRA
Regulatory Focus

HARRY NURSE



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Biotube Filter
Patent Applied for July 1994
Patent Issued August 1996

ORENCO SYSTEMS



Inside out flow patented
Patent Applied for May 1996
Patent Issued November 1997

ZABEL ENVIRONMENTAL TECHNOLOGY



1997 Work Began on a Filter Std.
1999 Filter Certification inserted into Std 46
2007 Filter Certification Revised
Task Group working on “Witches Brew”

NSF



**Shut off Ball Patented
Patent Applied for March 1997
Patent Issued February 1999**

POLYLOK



Florida 1997
Georgia 1998
North Carolina 1999

FILTER REQUIREMENTS



Pressure Filter
Patent Applied for May 1997
Patent Issued March 1999

GAG SIM TECH



Smart Filter Alarm
Patent Applied for November 1998
Patent Issued October 2000

ZABEL ENVIRONMENTAL TECHNOLOGY





Filter in a Filter
Patent Applied for June 1999
Patent Issued October 2000

ZOELLER PUMP COMPANY



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Original Disc Dam Filter Redesigned
Patent Applied for April 2001
Patent Issued January 2005

ZABEL ENVIRONMENTAL TECHNOLOGY



Inclined Conical Filter
Patent Applied for March 2001
Patent Issued September 2005

PREMIER TECH



Conical Filter Plate
Patent Applied for October 2005
Patent Issued June 2010

BEST TECHNOLOGY



February 2006 Purchases Zabel
March 2007 Purchases Best Tech

POLYLOK



Multi Level Filter
Patent Applied for April 2007
Patent Issued March 2010

RING INDUSTRIAL GROUP



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Founded November 2008
Acquired Rights to Multi Level Filter
January 2010 ML3 Filter Enters the Market

BEAR ONSITE™



Higher Performance Products
More NSF Certifications
More Regulatory Change

THE FUTURE



Average 5 Year Cost to Homeowner

	800 - 1000 GPD	1200 - 1500 GPD	1800 - 2400 GPD	2500 + GPD
	Filter Models	Filter Models	Filter Models	Filter Models
Filter & Installation	\$35 to \$50	\$50 to \$60	\$70 to \$80	\$100 to \$120
Service Call(s) to Clean Filter	3 to 9 at \$75 to \$100 ea	2 to 4 at \$75 to \$100 ea	1 to 2 at \$75 to \$100 ea	0 at \$75 to \$100 ea
Service Call to Clean Filter & Pump Septic Tank	1 at \$250	1 at \$250	1 at \$250	1 at \$250
Average Annual Cost	\$510 to \$1200	\$450 to \$710	\$395 to \$530	\$350 to \$370
First Five Years	\$102 to \$240	\$90 to \$142	\$79 to \$106	\$70 to \$74



The Future

New Designs

Increased Value





Better Performance



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