



EMERGING OPPORTUNITIES
FOR SUSTAINABILITY
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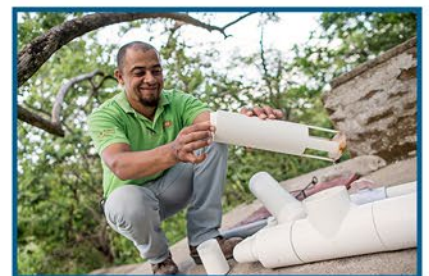
WATER CHLORINATOR ADEC

SAFE DRINKING WATER SOLUTIONS FOR CENTRAL AMERICA

The Chlorinator ADEC (Agua de Calidad) is an in-line chlorination unit designed to treat contaminated drinking water in rural communities in Central America. The chlorinator does not require electricity and uses EOS Chlorine Tablets to properly dose chlorine into the water supply, treating harmful microbial contaminants such as cholera, dysentery, and E. coli. The Chlorinator ADEC is easy to install in existing water systems and affordable, making it an ideal solution for providing safe drinking water for rural communities.

ADVANTAGES OF THE CHLORINATOR ADEC

- Simple and rugged design for dependable operation
- No electricity required to operate
- Dissolves tablets from the bottom, keeping unused tablets dry for predictable, uniform feed rate
- Easy to install and adaptable in existing drinking water systems
- Affordable operation, costs an average of \$0.15/household per month
- Chlorine tablets are stored within the tablet feeder, making it safe and easy for operators
- Chlorine tablets are made of Calcium Hypochlorite, certified by the government for human consumption
- Precise chlorine control with dosing valve to allow easy and accurate water chlorination
- Provides safe drinking water for communities as large as 1,000 people
- Can be installed in parallel for communities larger than 1,000 people



EOS INTERNATIONAL

Honduras - Nicaragua - USA

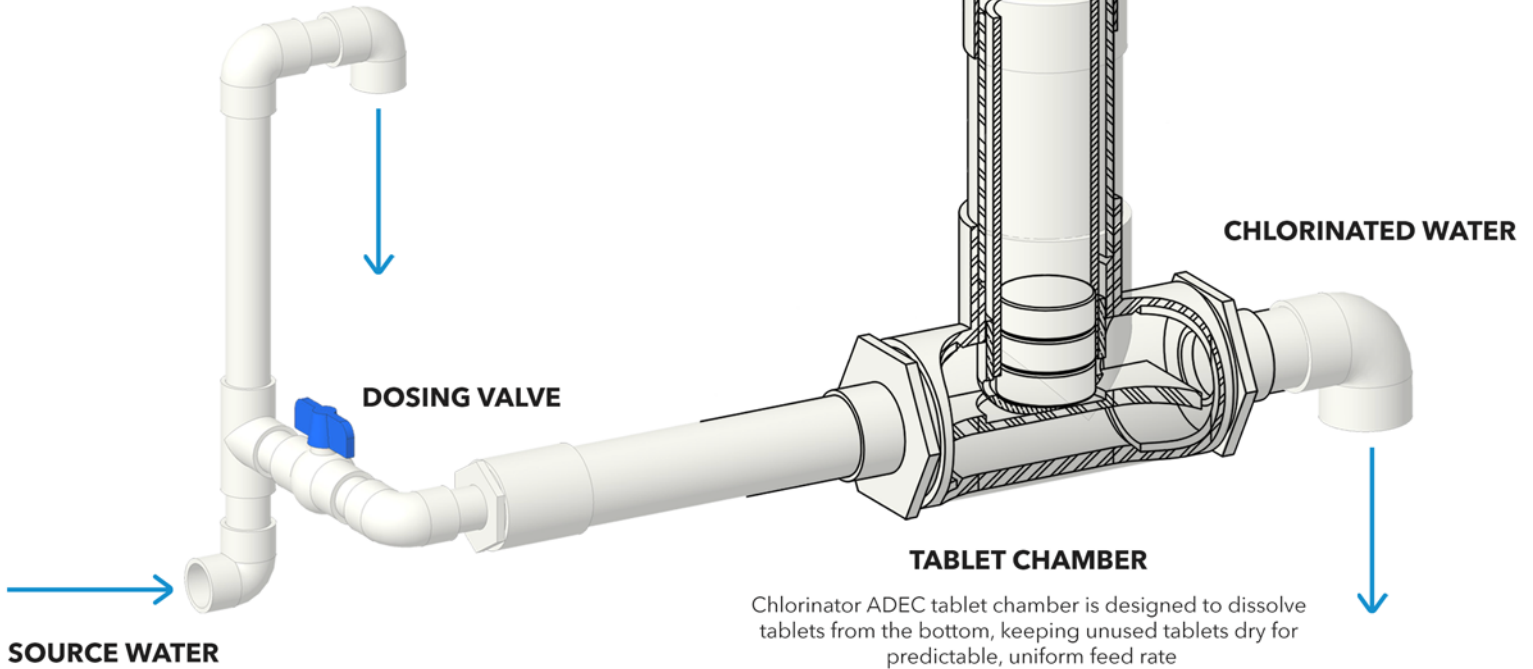
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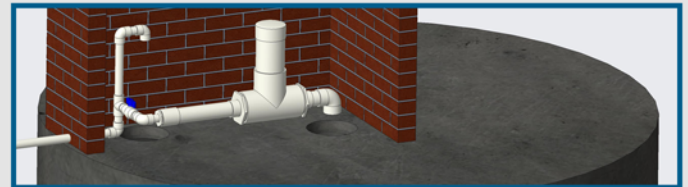
WATER CHLORINATOR ADEC

BYPASS (UNCHLORINATED WATER)



COMMUNITY WATER SYSTEM REQUIREMENTS

- Requires a clean water source with minimal organic material
 - A closed water system from source to end user
 - With an open water system, must have functioning filtration and/or sedimentation reduction
- Organized community water board with established water user fee
- Trained plumber to maintain chlorinator
- Chlorine dose should be measured weekly



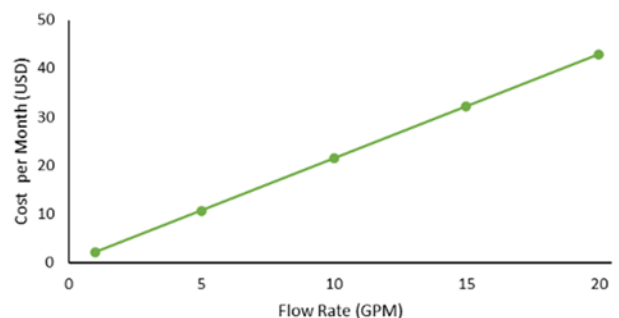
The Water Chlorinator ADEC is typically installed on top of the community's existing water storage tank

Operational Requirements

Flow Rate*	2-20 gpm	7-75 lpm
Inlet Pressure	0-1 psi	0-0.07 bar
Inlet Pipe Size	1/2" - 4"	1.3-10 cm
Operating Temperature	40-90 °F	4-30 °C
Feed Rate	Available	
Chlorine/Day	.1 to 2 lbs	.017 to 0.9 kg
Output Rate**	4 lbs/day without refilling	1.8 kg/day without refilling
Inlet Turbidity Level	< 5 NTU	
Approx. Population	100-1,000 people	

* Systems can be installed in parallel for flows >20gpm
 ** Output rate can be doubled with extended chamber

Chlorine Tablet Cost Per Month



EOS' Chlorinator ADEC and Chlorine Tablets are available locally in Honduras and Nicaragua. If you are interested in this chlorinator, please contact us by email: info@eosintl.org, or visit our website at: www.eosintlernational.org

EOS International is a nonprofit that provides water quality solutions to rural communities in Honduras and Nicaragua. EOS' comprehensive model provides safe drinking water to over 530,000 people in over 1,300 rural communities.