

“Enlightening Solutions”, LLC.



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Zero Organic Waste & Recycle Solar based
Alternate Integral Technology System Solution.

Featuring All Facilities:



BIOLOGICAL FILTER (BF)

Recycles gray and soapy waters (sinks, showers and tubs) for its reuse on garden and edible plants, for washing floors and even to operate WCs instead of using drinking water, if the building design makes it feasible or redesigns makes it possible.



Biological Filter

Manufacture "in situ" of masonry. Fiberglass reinforced polyester resin inner cone.

SIZES are calculated according to the amount of gray water to be recycled.

ZERO downloads to the environment.

Possible to combine rainwater with the gray water.



RECYCLE FACILITY RESIDUAL WATERS

TO recycle mixed sewage and gray water network from its origin in housing,
AVOID contamination of soil and sources of drinking water supply.



Recycle Facility

Manufacture "in situ" of masonry. Assembly accessories & parts.

SERVES for settlements already built with a single collecting network, up to 1000 frequent inhabitants per section/segment each.

CREATES a "habitat" for bacteria that digest sanitary sludge.

ZERO downloads to the environment. Its USE contributes to accomplish the 4 same benefits listed for the Wet Sanitary Toilet (WST).



BIOLOGICAL CHAMBER (BC)

TO recycle community, city/county solid organic waste, agricultural/trail waste. PROCESS up to 6M3/day and is good complement for a Recycle Facility. It operates by adding bacteria and polyazyme nutrient and transforms waste into high-impact and quality pathogen-free BioFertilizer.



Biological Chamber

Manufacture "in situ" of masonry. Assembly accessories & parts.

UNITS are built on-site with materials to retain heat to avoid maximum night cooling.

SIZES to receive 2m³, 4m³ and up to 6m³ of organic matter per day, to **PROCESS** them aerobically and transforming into BioFertilizer. Does not emit bad odors.



RECYCLE FACILITY COMPLETE (RFC)

TO recycle all liquid and solid waste, using the sanitary sludge from the sewage tank as an inoculum, to transform solid organic waste into biofertilizer, very rich in organic carbon and macro-nutrients.



Recycle Facility (Complete)

Manufacture "in situ" of masonry. Assembly accessories & parts to be shipped from Factory.

GIVES all same benefits than Recycle Facility for Mixed Residual Waters previously listed.

For 2 different and separated collector networks: Sewage and gray water.

The effluents generates water for irrigation thru evapotranspiration beds (sewage), i.e. underground irrigation, Recovering 70% from gray waters for its reuse



DIGESTOR, BIOLOGICAL FILTER & CHAMBER

FAT DIGESTOR (FD) serves to transform fat molecules into CO₂ and dissolved oxygen. Biological Filter (BF) serves to recover 70% of the gray sewage of the house. Biological Chamber serves to eliminate the pathogens contained in the sanitary sludge, since temperatures rise to more than 50 degrees, generating a pathogen-free BioFertilizer and a high agricultural impact.

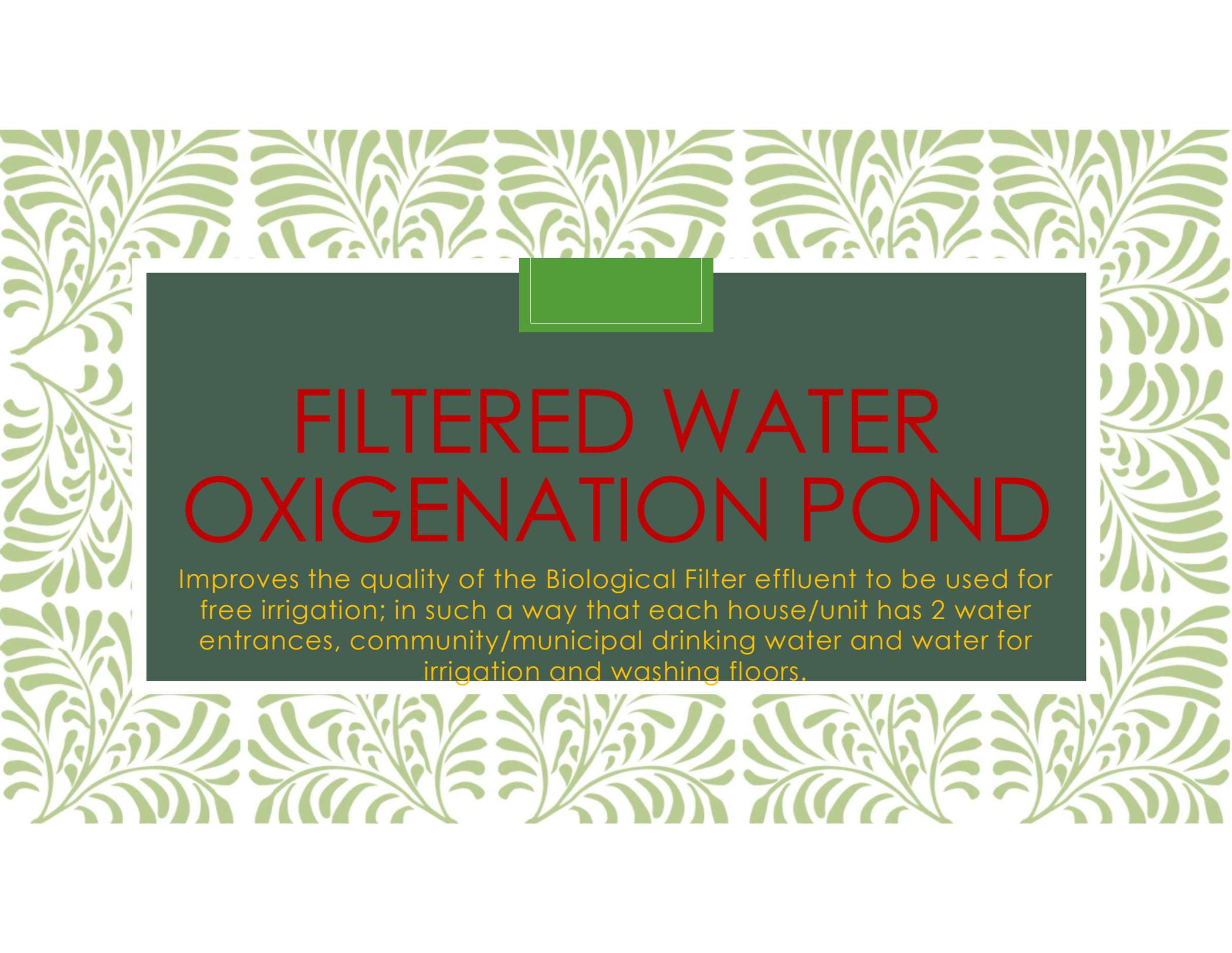


Digester, Biological Filter & Chamber

Manufacture "in situ" of masonry. Assembly accessories & parts to be shipped from Factory.

FAT DIGESTOR,
BIOLOGICAL FILTER and
BIOLOGICAL CHAMBERS
are all complements of
RECYCLE FACILITIES, but
they also can be installed
and operated separately.

All them CREATES an
specific special "habitat"
for bacteria that are ZERO
downloads to the
environment.



FILTERED WATER OXIGENATION POND

Improves the quality of the Biological Filter effluent to be used for free irrigation; in such a way that each house/unit has 2 water entrances, community/municipal drinking water and water for irrigation and washing floors.



Filtered Water Oxygenation Pond

Manufacture "in
situ" of masonry.

It is the Fourth perfect
complement for the
**COMPLETE RECYCLE
FACILITY** for Non-Mixed
Residual Waters.

The effluent of the
BIOLOGICAL FILTER is
oxygenated in a Pond
and through a
hydropneumatic, returns
to each home or unit for
irrigation of all green
areas and/or other
allowed purposes.

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