

Rainwater Filters

PURAIN

- ▶ Catch the Most Rainwater
- ▶ Best Self Cleaning Filter
- ▶ Patented Hydraulic Jump Technology



Solving Water Problems One Building at a Time

Exclusive US Distributor

Ecovio
water management

PURAIN Rainwater Filters



We designed the PURAIN Rainwater filter, sometimes known as the jump filter, for roof areas ranging from 500 to greater than 100,000 square feet. This filter automatically cleans itself with an hydraulic jump. The design of PURAIN rainwater filters comes from nature. Almost anywhere in a fast moving stream, you can see an hydraulic jump in action. The water flows over stones and drop offs. At the bottom of a dip, the water flow changes to a backroller or in more technical terms an hydraulic jump. The resulting increase in water power is similar to a strong eddy and any impurities are then forced over the next level and washed downstream. The same effect happens in a PURAIN filter to keep it clean with almost zero maintenance required.

INNOVATION

Best water quality

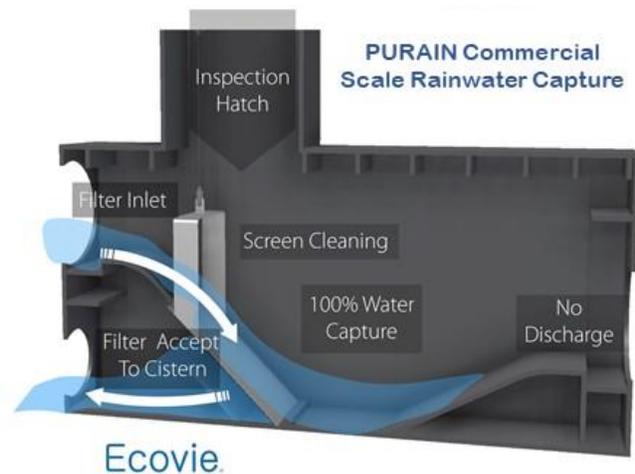
Good pre-filtration is critical to a well working rainwater collection system. PURAIN meets ASPE/ARCSA 63 requirements for rainwater pre-filtration and delivers clean water to the cistern.



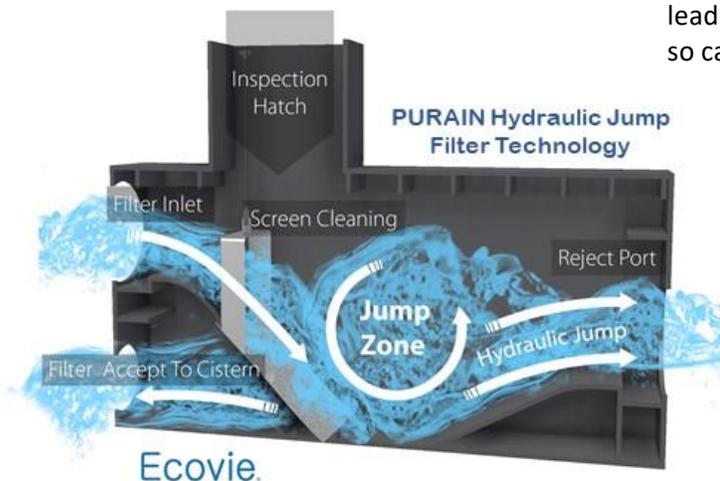
The sturdy wedge wire screen assures adequate water quality with no large debris being able to enter the cistern. The trapezoidal shape and diagonally set orientation prevents the dirt from settling and clogging it.

Self Cleans with Highest Capture Efficiency

Low rainfall events account for almost all annual rainfall regardless of location. Therefore, it is particularly important that the filter be designed to collect this light rainfall. PURAIN catches 100% of the rainfall at these low flow rates.



High rainfall events contribute little water yield and are used by the PURAIN rainwater filter for self-cleaning. These high rainfalls lead to the formation of an eddy in the PURAIN rainwater filter, the so called hydraulic jump.



Hydraulic Jump in Action!





4" PURAIN DN100

For small roof sizes and greywater systems up to 1000 gallons per day. Includes a non-return valve, skimmer overflow.



6" PURAIN DN150-S

For larger homes, small commercial roofs and larger greywater systems. Versatile injection molded design for direct bury, wall, mount, and in-tank mount.



8", 12", and 16" PURAIN DN200-400

For larger roof sizes in wall mount and inside cisterns.



8", 12", and 16" PURAIN HD DN200-400

Vehicle rated to 60 tons. Heavy duty construction can be buried to an invert of 9 feet.

TECHNICAL

Best Capture Efficiency

With 100% capture up to a high rainfall rate and vigorous cleaning in hydraulic jump, the most water is captured with the least maintenance.

Sizing

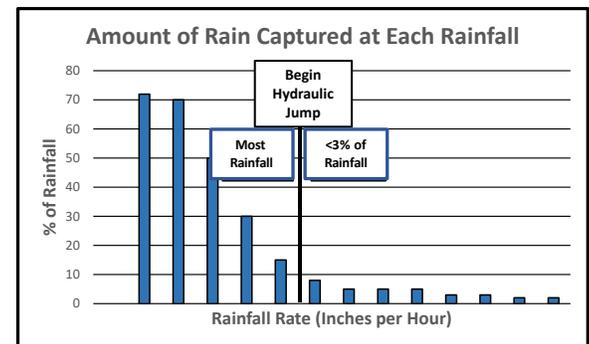
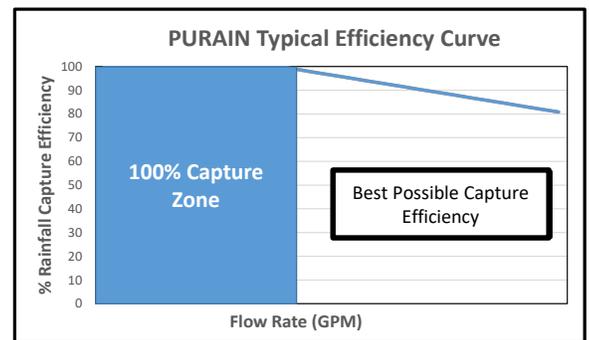
PURAIN comes in a wide range of inlet sizes from 4" to 16". The correct size is based on local rainfall intensity and roof square footage. See the color coded sizing chart at www.ecovierain.com.

Easy to Assemble, Install and Maintain

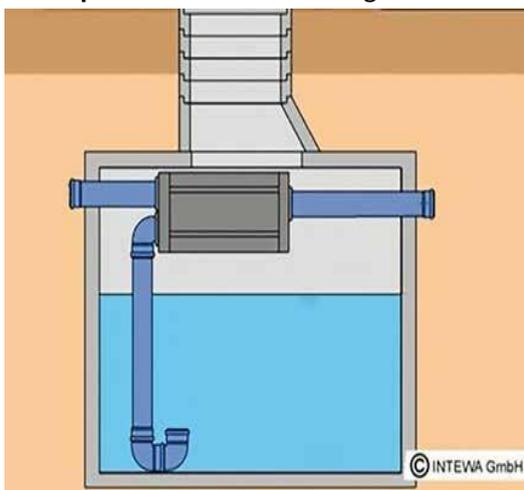
This filter typically requires lower maintenance compared to other self-cleaning rainwater filters due to the hydraulic jump design as well as the sturdy construction of the wedge wire sieve. Unlike other filters, no cleaning shower is required for rainwater applications.

Installation

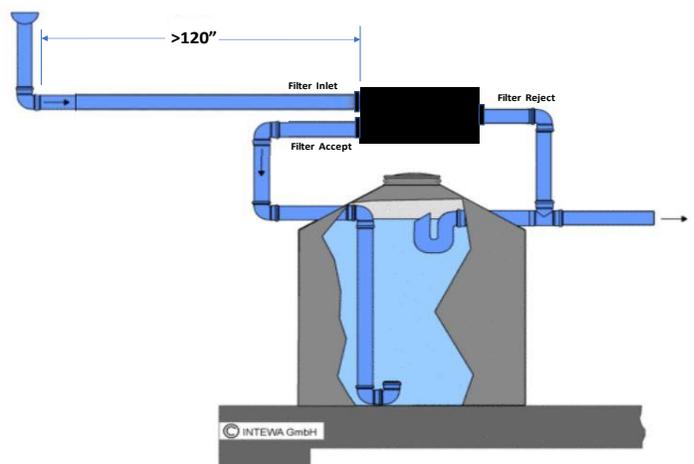
The best place to install a rainwater filter is in the tank. With low elevation loss, large PURAIN filters are suitable for installation in a tank, on a wall or directly buried in the ground with no vault required.



Example: PURAIN in an underground tank

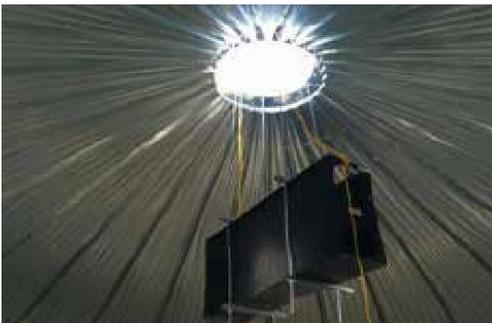


Example: PURAIN externally mounted



REFERENCES

More than 30,000 PURAIN filters are installed worldwide



Ecovie is the US distributor for
INTEWA GmbH, Aachen,
Germany
Manufacturer of AQUALOOP,
PURAIN, RAINMASTER, and
DRAINMAX.

Visit us at us.intewa.net



See examples of AQUALOOP
applications at:
<http://us.intewa.net/en/products/purain/references/projects/>

Your Local Dealer or Sales Representative:

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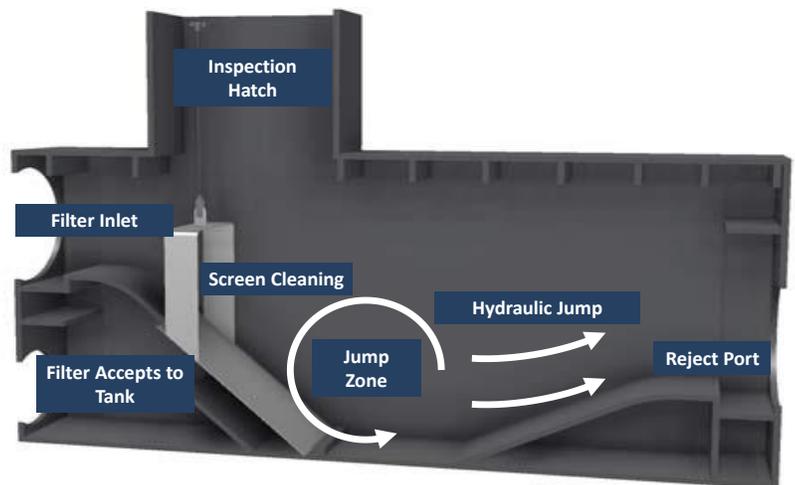
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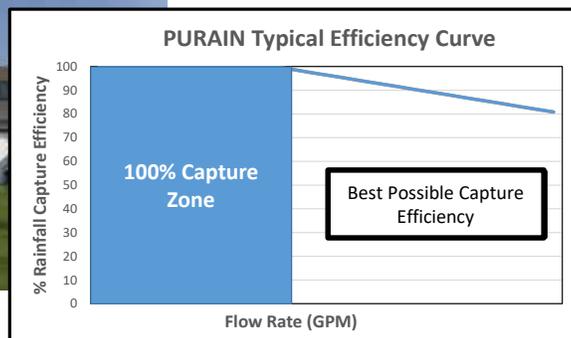
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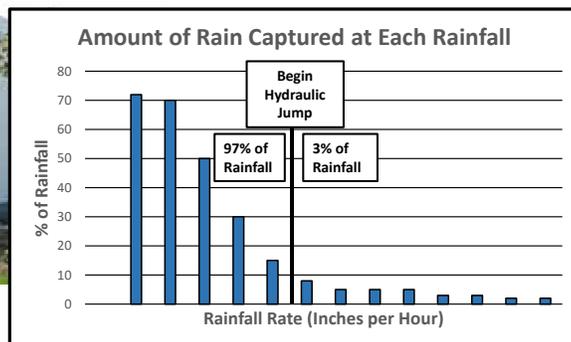
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PURAIN Model	Pipe Diameter (in.)	Max Flow Rate at 1.5% Fall (GPM)
DN100	4	90
DN150	6	268
DN200	8	576
DN300	12	1684
DN400	16	3632



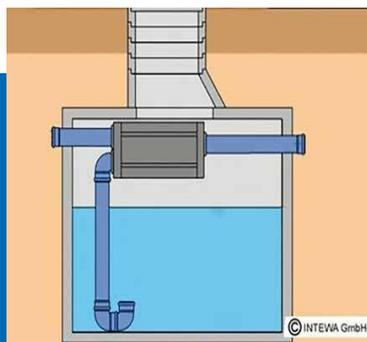
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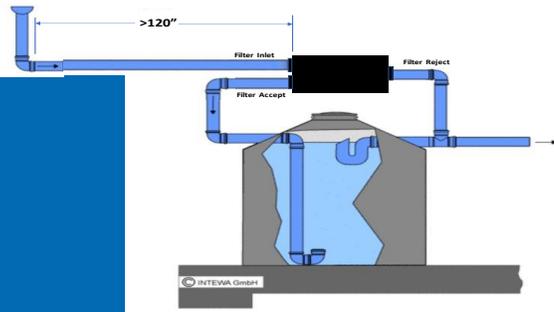
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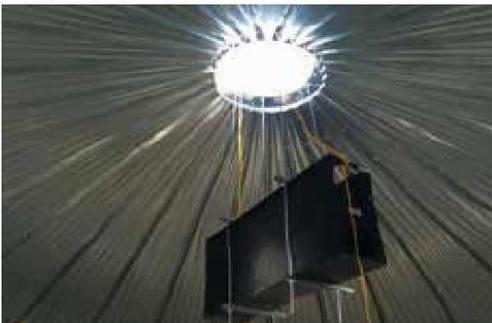


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