Discrete rain collector

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VIEW IN BROWSER

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Summary

A discrete rain collector for 90 mm downpipe with a gardena hose connector

Household > Outdoor & Garden

Tags: rainwater raingutter rain rainbarrel downpipe

A discrete rain collector for 90 mm downpipe with a gardena hose connector.

The main design goal of this rain water collector is to be discrete. The visible part is only 42 mm tall. Most of the collector is hidden inside of the downpipe.

It is designed to print without supports and prints in two parts.

If you want it water tight two o-rings are required, one standard gardena hose connector o-ring and one 3.1x26OD. It works well without o-rings but it will drip a bit.

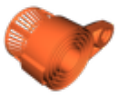
By placing the collector at the maximum wanted water level it will automatically overflow inside the down pipe. In my own mounting example I have it a bit higher since I have a vent-line from a sealed barrel which is higher up achieving the same effect.

Print advice:
Extrusion multiplier: print with a slight overextrusion to avoid “sweating” of the print, I used 1.05
Print material: PETG (PLA will work as well)
No supports needed

Parts of the print may become a bit stringy, especially if using PETG. Going over it with a lighter flame will remove the strings effectively. Altough this will not be seen when mounted.

Model files

rain_collector_hose_connector.stl



rain_collector_mk2.stl

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