

# RainWise Sizing & Rebate Calculator



## Personal Information

**Contractor Name:**

Product Water LLC

**Client Name:**

[REDACTED]

**Additional Notes:****Project Address:**

[REDACTED]

## Project Information

**Project Type:**

Cistern

**Contributing Roof Area:**

1,505.00 ft<sup>2</sup>

### Cistern

**Volume for Max. Rebate:**

803 gals

**Type:**

RainDrop RTU 450 - 409 gal

**Num. of Connected Cisterns:**

1

**Total Live Storage Volume:**

409 gals

**Diameter:**

54.84 in

**Overflow Height:**

39.96 in

### Rain Garden

**Soil Infiltration Rate:**

N/A

**Bottom Area for Max. Performance:**

N/A

**Fits on Site:**

N/A

**Constructed/Planned Bottom Area:**

N/A

## RainWise Rebate Results

**Area Fully Managed:** 961 ft<sup>2</sup>

**Total Rebate:** \$5,842

**Volume Managed:** 8,000 gal/yr

**Required Orifice Size:** 0.25 in

**Notes:**

1. A RainWise project must manage runoff from at least 400 ft<sup>2</sup> of roof area (in total) to qualify for a RainWise rebate. Cisterns must collect runoff from a minimum of 300 ft<sup>2</sup> of roof area (per cistern); there is no minimum area for a rain garden. This calculator must be used to determine rebates for Contributing Roof Areas up to 5,000 ft<sup>2</sup>. For roof areas larger than 5,000 ft<sup>2</sup>, contact the RainWise Program Manager.
2. Qualifying cistern installations must have a minimum Cistern Overflow Height of 24 inches, and a minimum Live Storage Volume of 180 gallons (see RainWise Details Sheet 9). Multiple cisterns may be connected but may have only one flow control outlet at the outlet of the most downstream cistern (see RainWise Details Sheet 13).
3. Cistern Internal Diameter is the manufacturer-specified tank diameter minus 2x the wall thickness; 24-inch minimum (see RainWise Details Sheet 9).
4. Cistern Overflow Height is measured from the invert (bottom) of the flow control outlet to the invert (bottom) of the overflow outlet; 24-inch minimum (see RainWise Details Sheet 9). This does not include the 4-inch sump in the cistern.
5. Area Fully Managed is an estimate of the roof area fully managed to the program performance targets by the Cistern, Rain Garden, or Cistern to Rain Garden installation.
6. Maximum construction rebate for projects including Rain Gardens is \$7.90/ft<sup>2</sup> of Contributing Roof Area because of the vegetation and infiltration benefits Rain Gardens provide. Maximum construction rebate for Cistern projects is \$6.36/ft<sup>2</sup> of Contributing Roof Area, depending on Contributing Roof Area size.
7. Gallons Managed is an estimate of annual runoff volume managed, based on local rainfall modeling performed on behalf of King County and Seattle Public Utilities.
8. The Required Orifice Size refers to the orifice diameter of the cistern flow control outlet.