

Precipitation Rate Equations

Rain Bird has calculated for you the precipitation rates for our comprehensive lines of impacts, sprays, and rotors. These rates are an indication of the approximate rate at which water is being applied. The equations used to calculate the precipitation rates are as follows:



Square Spacing

U.S.:	Metric:
$PR = \frac{96.3 \times \text{gpm}}{S \times S}$	$PR = \frac{1000 \times \text{m}^3/\text{h}}{S \times S}$



Triangular Spacing

U.S.:	Metric:
$PR = \frac{96.3 \times \text{gpm}}{S \times L}$	$PR = \frac{1000 \times \text{m}^3/\text{h}}{S \times L}$

96.3 = Constant (inches/square foot/hour)

1000 = Constant (millimeter/square meter/hour)

gpm = Gallons per minute (applied to area by sprinklers)

m³/h = Cubic meters per hour (applied to area by sprinklers)

S = Spacing between sprinklers

L = Spacing between rows (S x 0.866)

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