

Units of Measurement

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EPANET can use either US or metric units of measurement for all of its quantities, depending on the choice of flow units

(see [Setting Analysis Options](#) or [Setting Project Defaults](#)):

- [US Customary units](#) apply when flow is expressed in cubic feet, gallons, or acre-feet
- [SI Metric units](#) apply when flow is expressed in liters or cubic meters

US Customary Units

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Parameter	Units
Concentration	mg/L or ug/L
Demand	(same as Flow)
Diameter (Pipes)	inches
Diameter (Tanks)	feet
Efficiency	percent
Elevation	feet
Emitter Coeff.	flow units / $\sqrt{\text{psi}}$
Energy	kilowatt - hours
Flow	CFS (cubic feet / sec)(gallons / min) MGD (million gal / day) IMGD (Imperial MGD) AFD (acre-feet / day)
Friction Factor	unitless
Hydraulic Head	feet
Length	feet
Minor Loss Coeff.	unitless
Power	horsepower
Pressure	pounds per square inch
Reaction Coeff. (Bulk)	1/day (1st-order)
Reaction Coeff. (Wall)	mass/L/day (0-order) 1/day (1st-order)
Roughness Coeff.	millifeet (Darcy-Weisbach)
Source Mass Injection	mass/minute
Velocity	feet/second
Volume	cubic feet
Water Age	hours

NOTE: US Customary units apply when flow units are expressed in gallons, cubic feet, or acre-feet. [SI Metric units](#) apply when flow units are expressed in liters or cubic meters.

SI Metric Units

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Parameter	Units
Concentration	mg/L or ug/L
Demand	(same as Flow)
Diameter (Pipes)	millimeters
Diameter (Tanks)	meters
Efficiency	percent

Elevation	meters
Emitter Coeff.	flow units / $\sqrt{\text{meter}}$
Energy	kilowatt-hours
Flow	LPS (liters/sec)(liters/min) MLD (megaliters/day) CMH (cubic meters/hr) CMD (cubic meters/day)
Friction Factor	unitless
Hydraulic Head	meters
Length	meters
Minor Loss Coeff.	unitless
Power	kilowatts
Pressure	meters
Reaction Coeff. (Bulk)	1/days (1st-order)
Reaction Coeff. (Wall)	mass/L/day (0-order) 1/day (1st-order)
Roughness Coeff.	millimeters (Darcy-Weisbach)
Source Mass Injection	mass/minute
Velocity	meters/sec
Volume	cubic meters
Water Age	hours

NOTE: SI Metric units apply when flow units are expressed in liters or cubic meters. [US Customary units](#) apply when flow units are expressed in gallons, cubic feet, or acre-feet.