

HOT WATER DISTRIBUTION SYSTEMS

FYI

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Standard

(Trunk and Branch or Mini-manifold) May include one or more trunks that subdivide into smaller branches to serve specific rooms. These in turn may divide into “twigs” to serve individual fixtures. Does NOT have recirculation. Design should avoid serving first floor fixtures from second floor attic.

Central Parallel Piping

An insulated main trunk less than 15' long serves a manifold that feeds individual fixtures with 1/2" or smaller plastic pipes. Can have multiple manifolds as long as the total distance of the main trunks is less than 15'. All branch lines must be 1/2" or less.

Point of Use

Good architectural design will locate water heater(s) very close to all hot water fixtures. The distance from the water heater to any single fixture should not exceed 5' of 3/4", 10' of 1/2", and 15' of 3/8" pipe. Eligible for a compliance credit if HERS verified.

Compact Design

Similar to Point of Use, but less stringent. Maximum distance from water heater to any fixture is based on the square footage of the home. See Table RCM 5-5. Eligible for a compliance credit if HERS verified.

Recirculating (Demand and Non-demand)

Recirculating systems incorporate a hot water loop from which branches serve individual rooms or fixtures. Demand systems only run when manually activated. Non-demand systems are controlled by timers or temperature sensors and generally result in an energy penalty.

Plumbing

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Notes: _____
