

## Isolate noise and vibration

Heat pump water heaters, and all water heaters, make some noise. If you plan for the sound when choosing a location and take steps to isolate noise and vibration, the water heater can add to the comfort of your home without noticeable disruption.

### > Best-case scenario

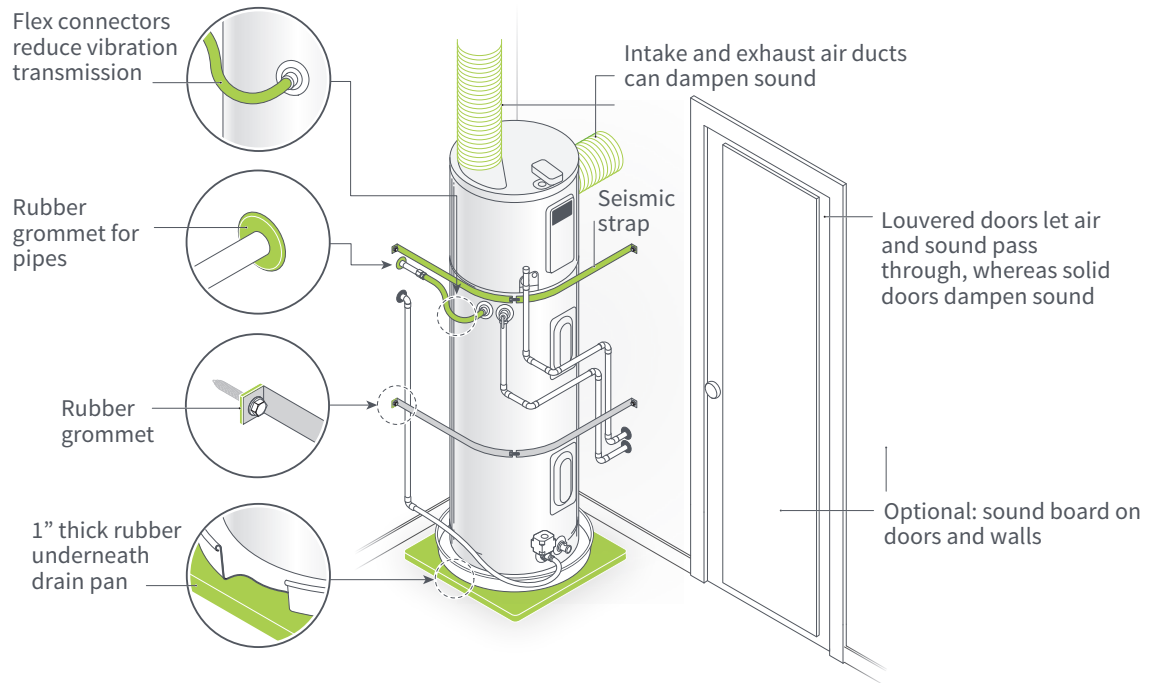
Place the water heater at a distance from your bedrooms, the living room, and other gathering places. The easiest installation projects make use of sufficient space in a basement, a garage, or a laundry room.

### > Similar noise level to a microwave

Many heat pump water heaters give off about 49-52 decibels of noise while running. Total runtime depends on usage. A good rough approximation is that the water heater will operate for about three hours per day.

Expect the device to make more noise than a refrigerator but less noise than a dishwasher.

### Noise and vibration control



**Reduce the vibration.** If the floor is concrete or other hard surface, a rubber mat or an off-the-shelf isolation kit made of neoprene or rubber will dampen vibration. Use flexible fittings such as PEX connectors where permissible and flexible ducts for ventilation. For seismic strapping, use rubber grommets or other noise control accessories.

**Lower the noise.** A solid door, wall insulation, and other materials will reduce noise. Ventilating air ducts also help contain sound. Many water heaters can be set to run at convenient times.