

STATE BUILDING CODE INTERPRETATION NO. 02-11

CODE: 2001 Washington State Energy Code

SECTION: 1413.4 Humidification

QUESTION:

1. Is the intent of this section to humidify the air being taken from the rooms, which is subsequently exhausted to the outside when the unit is in “economizer cycle”?
2. Since there is little or no room air being returned to the air-handling unit when the system is in economizer, can the humidifier be placed in the air stream entering the unit (mixed air)?
3. Does this requirement apply to systems that provide both heating and cooling, but that normally only require humidification during the heating?

ANSWER:

- 1. No. The intent is not to exhaust air that has just been humidified. This section does not require humidification of relief or exhaust air that is directed outside the building.**
- 2. Yes. The humidifier may be placed in the supply air, mixed air, return air, or within the space itself. The intent is to use the heat in the warm room air to vaporize the water that is necessary to humidify the dry outside economizer air.**
- 3. Yes, if an air economizer is required.**

SUPERSEDES: None

REQUESTED BY: City of Seattle