

UPDATE TO 298 – 5/23/25

This is language that Lisa proposed and we agreed upon. Note: Lisa had a suggestion combining Humidification controls and it makes total sense. Note: One item to discuss today is the percentage of humidification. I have highlighted this. I feel like we can come to compromise between 30 and 50% and this can be a discussion point.

C403.4.13 Humidification and dehumidification controls systems. Humidification and dehumidification ~~controls shall be in accordance with this section~~ systems shall comply with Sections C403.4.13.1 through C403.4.13.5, as applicable.

C403.3.2.7 C403.4.13.1 Humidification equipment type. Humidification shall be of the adiabatic type (direct evaporative media or fog atomization type) unless enthalpy recovery is provided, in which case steam humidification is also allowed. ~~If an air economizer is required on a cooling system for which humidification equipment is to be provided to maintain minimum indoor humidity levels, then the humidifier shall be of the adiabatic type (direct evaporative media or fog atomization type) or electric to steam type.~~

Exceptions:

Health care facilities licensed by the state, ~~where Chapter 246-320 or 246-330 WAC requires steam injection humidifiers in duct work downstream of final filters~~
Laboratories where humidification is required

Systems with water economizer.

100% outside air systems with no provisions for air recirculation to the central supply fan.

Nonadiabatic humidifiers cumulatively serving no more than 10% of a building's air economizer capacity as measured in cfm. This refers to the system cfm serving rooms with stand-alone or duct mounted humidifiers.

C403.4.13.2 Humidification controls. *Humidistatic controls* shall not use fossil fuels or electricity to produce relative humidity above 30 percent in the warmest zone served by the system.

Exceptions:

Where *approved*, systems serving zones where specific humidity levels are required, such as museums and hospitals, and where *humidistatic controls* are capable of and configured to maintain a deadband of at least 10 percent relative humidity where no active humidification or dehumidification takes place.

Systems serving zones where humidity levels are required to be maintained with precision of not more than ± 5 percent relative humidity to comply with applicable codes or accreditation standards or as *approved* by the authority having jurisdiction.

C403.4.13.4 3 Dehumidification controls. *Humidistatic controls* shall not use mechanical cooling...

C403.4.13. 3 4 Humidification and dehumidification controls interlock. Where a zone is served by a system or systems with both humidification and dehumidification capability...

C403.4.13.4 5 Dehumidification equipment type in spaces for plant growth and maintenance. Equipment that dehumidifies building spaces used for plant growth and maintenance shall be one of the following: ...