

Title: Method of Test for Direct Expansion-Dedicated Outdoor Air System (DX-DOAS) Units

Purpose: This standard provides methods of testing and calculations for moisture removal and heating by Direct Expansion-Dedicated Outdoor Air System (*DX-DOAS*) Units.

Scope:

2.1 This method of test applies to factory-assembled *DX-DOAS* that condition 100% *outdoor air* and can include factory assembled preconditioning device(s). This includes the following:

- a. air-cooled, evaporatively-cooled, and water-cooled *DX-DOAS* units
- b. air-source or water-source *DX-DOAS* heat pump units.

2.2 This standard does not cover:

- a. Units containing water coils requiring a supply of water supplied by a liquid chiller located outside of the unit are not covered by this standard.
- b. This standard is not to be used for the testing of stand-alone pre-conditioning or energy recovery devices.
- c. Units that incorporate heat sources other than electricity for regeneration of desiccant heat exchangers are not in the scope of this standard.