



Development and Verification of a Linear-Fit Mixed System Rating Method for Unitary Two-Speed and Variable-Speed Air Conditioners

By Nist

Createspace, United States, 2014. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.A linear-fit method of rating residential-type air conditioning systems was evaluated based on performance predictions and laboratory testing of one two-speed matched system and two mixed systems (matched two-speed condensing unit, matched indoor coil blower, and two mixed coil blowers). The individual evaporators and the condensing unit were separately tested using water heated/cooled condensing/evaporating units at standard air conditions over a range of evaporator refrigerant saturation temperatures, evaporator superheats, and liquid refrigerant temperatures. Capacity predictions were within 1.0 of the tested values for the mixed systems, and the EER predictions were within 1.5 of the measured EERs. The methods used for system rating on the two-speed system can also be applied to a variable-speed system.



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