

**INTERPRETATION IC 90-1-1989-1 OF
ASHRAE/IES STANDARD 90.1-1989
ENERGY EFFICIENT DESIGN OF NEW BUILDINGS
EXCEPT LOW-RISE RESIDENTIAL BUILDINGS**

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Request from: Elena Schmid, Manager, Building and Appliance Efficiency Office, California Energy Commission, 1516 Ninth Street, Sacramento, CA 95814-5512

Reference: This request refers to ASHRAE/IES 90.1-1989, Table 10-4a.

Background: The California Energy Commission received a request for interpretation of the California Appliance Efficiency Regulations which are patterned after the equipment efficiency requirements in ASHRAE/IES Standard 90.1-1989.

The caption of Table 10-4a "Standard Rating Conditions and Minimum Performance; Packaged Terminal Air Conditioners and Heat Pumps, Air-Cooled, Electrically Operated" references footnote "a" which reads:

"^a For multi-capacity equipment the minimum performance shall apply to each capacity step provided and allowed by the controls."

Question 1: How is the term "multi-capacity equipment" defined?

Answer: Multi-capacity refers to manufacturer published ratings for more than one capacity mode allowed by the product's controls.

Comment: If the capacity mode variations allowed by the product controls are not large enough to be included in manufacturer published capacity ratings, then the low temperature test is required only for the published single capacity rating.

Question 2: Does the minimum EER requirement at the 82°F db low temperature rating apply only to multi-capacity equipment or to all packaged terminal air conditioners (PTACs) and packaged terminal heat pumps (PTAC H.P.s)?

Answer 2: The low temperature rating applies to all PTACs and PTAC H.P.s, single and multi-capacity.