

**INTERPRETATION IC 90.1-1989-2 OF  
ASHRAE/IES STANDARD 90.1-1989  
ENERGY EFFICIENT DESIGN OF NEW BUILDINGS  
EXCEPT NEW 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 requested interpretation of HVAC equipment requirements in ASHRAE/IES Standard 90.1-1989 "Energy Efficient Design of New Buildings Except Low-Rise Residential Buildings."

In Table 10-4a, the term "(EER Above)" is used in the expression for the minimum performance requirement in the heating mode for packaged terminal heat pumps (PTAC H.P.s).

**Question:** What is the meaning of the term "EER Above"?

**Answer:****EER Above:** the minimum allowable EER when tested with an outdoor temperature of 95°F determined from the formula:

$$\text{EER Above} = 10.0 - (0.19 \times \text{Cap.}/1000)$$

**Cap.:** the rated cooling capacity of the product in Btu/h in accordance with the cited ARI Standard.