Public Review Draft

Proposed Addendum r to


First Public Review (November 2020)
(Draft Shows Proposed Changes to Current Standard)

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FOREWORD

This addendum adds an exception to the requirement in Section 6.4.3.3.3. that requires optimum start controls for systems that employ DDC controls. A public commenter to a different draft addendum suggested that this is inappropriate for residential spaces because they do not have scheduled occupancy times. The commenter noted that the requirement does not apply to residential spaces is sometimes misunderstood by authorities having jurisdiction. The committee agrees with this and proposes an exception to that section.

The definition of optimum start controls and residential from Section 3.2:

**optimum start controls**: controls that are designed to automatically adjust the start time of an HVAC system each day with the intention of bringing the space to desired occupied temperature levels immediately before scheduled occupancy.

**residential**: spaces in buildings used primarily for living and sleeping. Residential spaces include, but are not limited to, dwelling units, hotel/motel guest rooms, dormitories, nursing homes, patient rooms in hospitals, lodging houses, fraternity/sorority houses, hostels, prisons, and fire stations.

COST EFFECTIVENESS – This addendum has no effect on cost, as it only clarifies the intention that residential spaces are not required to have optimal start controls.
Addendum r to 90.1-2019

Modify the standard as follows (I-P and SI Units)

6.4.3.3.3 Optimum Start Controls

Individual heating and cooling systems with setback controls and DDC shall have optimum start controls. The control algorithm shall, as a minimum, be a function of the difference between space temperature and occupied set point, the outdoor temperature, and the amount of time prior to scheduled occupancy. Mass radiant floor slab systems shall incorporate floor temperature into the optimum start algorithm.

Exception to 6.4.3.3.3: Residential spaces are not required to have optimum start controls.