



NYC Buildings Department
280 Broadway, New York, NY 10007

Robert D. LiMandri, Commissioner



BUILDINGS BULLETIN 2010-031
Technical

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Issuer: James P. Colgate, R.A., Esq.
Assistant Commissioner for Technical Affairs and Code Development

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Purpose: This document clarifies conditions under which an addition, alteration, renovation or repair to HVAC and/or service water heating systems may not be required to comply with the New York City Energy Conservation Code (NYCECC), pursuant to section NYCECC 101.4.3.

Related Code/Zoning Section(s):	NYCECC 101.4.3	1 RCNY 5000-01	ASHRAE 90.1 Section 6
	NYCECC 403	ASHRAE 90.1 6.1.1.2	ASHRAE 90.1 Section 7
	NYCECC 503	ASHRAE 90.1 6.1.1.3	ASHRAE 90.1 Section 10
	NYCECC 504	ASHRAE 90.1 7.1.1.2	

Subject(s): Additions, mechanical system; Alterations, mechanical system; Renovations, mechanical system; Repairs, mechanical system; Replacement, mechanical system; Additions, service water heating system; Alterations, service water heating system; Renovations, service water heating system; Repairs, service water heating system; Replacement, service water heating system; Additions, HVAC; Alterations, HVAC; Renovations, HVAC; Repairs, HVAC; Replacement, HVAC; New York City Energy Conservation Code; Energy Code

In accordance with section NYCECC 101.4.3, 403, 503, 504, and ASHRAE 90.1 sections 6, 7 and 10, additions to mechanical and/or service water heating systems shall comply with such sections for new construction. Alterations, renovations and/or repairs to mechanical and/or service water heating systems shall be as follows, provided that energy use of the building is not increased:

- 1. Equipment.** Replacement of head-end or terminal equipment, ductwork and/or piping regulated by sections NYCECC 403, 503, 504 and/or ASHRAE 90.1 sections 6, 7 and/or 10 shall be required to comply with the NYCECC, except where there is insufficient space or access to meet ductwork and/or piping requirements. Replacement of equipment parts, such as boiler burners or tubes within a boiler, is not regulated by the NYCECC.

Exception for terminal unit:

Where replacement equipment is a terminal unit of a non-compliant system and there is no compliant equipment that would fulfill the function of the equipment, the replacement equipment need not comply, provided the energy use of the building is not increased.

2. **Systems, including but not limited to control systems and devices.** Alterations, renovations and/or repairs to systems, including heating systems, cooling systems, ventilation systems and/or service water heating systems, shall be required to comply with the NYCECC as follows:
 - a. **Whole system replacement.** Replacement of an entire building system, or of a whole system serving a portion of the building, shall comply with the provisions of the NYCECC.
 - b. **Partial system replacement.** For replacement of a partial building system, or of a partial system serving a portion of the building, the applicant shall make distribution runs or zones comply with the provisions of the NYCECC, but shall not be required to alter the system outside of the original scope of work.
3. **Sealing and insulation.** Sealing and insulation of ducts, piping and penetrations shall be provided wherever applicable to the scope of work as required by the NYCECC.
4. **Trade-offs.** Where mechanical and/or service water heating systems or equipment have previously been used in trade-offs to compensate for energy use exceeding NYCECC allowance in any system or unit outside of the scope of work, replacement of such equipment or alterations to such systems shall not increase the energy use of the system unless the building undergoes energy modeling to demonstrate whole-building compliance with the NYCECC.