

STATE ENERGY EFFICIENCY REQUIREMENTS FOR RESIDENTIAL HEATING EQUIPMENT IN NEW RESIDENTIAL BUILDINGS

STATE	HVAC EQUIPMENT SIZING	HVAC EQUIPMENT EFFICIENCIES			WATER HEATER EFFICIENCIES		ADDITIONAL HVAC & DHW PROVISIONS/COMMENTS
		Gas/Oil Forced Air Furnaces <400,000 Btu/h input	Gas/Oil Gravity Furnaces & Other Vented Equipment <225,000 Btu/h input	Gas/Oil Boilers <400,000 Btu/h input	Electric <120 gals capacity & <12kW input	Gas/Oil <75,000 Btu/h input	
CONNECTICUT	Calculate loads per 1977 ASHRAE Fundamentals Handbook	$E_{c} > 75\%$	$F_{c} > 75\%$	$F_{c} > 75\%$	SBL < 4w/ft <sup>2</sup> per ANSI C72.1-72	$E_{r} > 75\%$ and SBL < 2.3+67/V per ANSI 221.10.3-74	
MAINE	Rated capacity of heating unit <25% more than design heating load (R)	$F_{ss} > 74\%$ (R)	$F_{ss} > 74\%$ (R)	$F_{ss} > 74\%$ (R)	SBL < 4w/ft <sup>2</sup> per ANSI C72.1-72	$E_{r} > 75\%$ and SBL < 2.3+67/V per ANSI 221.10.3-74	Code provides equipment performance criteria by building type o Residential (R) from 1 to 10 families < 3 stories in height o Nonresidential (NR) > 10 families and < 3 stories in height. The differences are shown where the code provisions are different between (R) and (NR) buildings
		$E_{c} > 75\%$ (NR)	$F_{c} > 75\%$ (NR)	$F_{c} > 75\%$ (NR)			
NEW HAMPSHIRE (P)	Calculate loads per appropriate ASHRAE publications	$E_{c} > 75\%$	$F_{c} > 75\%$	$F_{c} > 75\%$	SBL < 4w/ft <sup>2</sup> per ANSI C72.1-72	$E_{r} > 75\%$ and SBL < 2.3+67/V per ANSI 221.10.3-74	
NEW JERSEY (P)	Calculate loads per 1977 ASHRAE Fundamentals Handbook	$F_{ss} > 74\%$ <sup>1</sup> (<225,000 Btu/h) $E_{c} > 75\%$ (>225,000 Btu/h)	$F_{ss} > 69\%$ <sup>1</sup>	$F_{ss} > 74\%$ <sup>1</sup> (<300,000 Btu/h) $E_{c} > 75\%$ (>300,000 Btu/h)	SBL < 4w/ft <sup>2</sup> per ANSI C72.1-72	$E_{r} > 75\%$ and SBL < 2.3+67/V per ANSI 221.10.3-74	
NEW YORK (P)	Calculate loads per 1981 ASHRAE Fundamentals Handbook	$E_{c} > 75\%$	$F_{c} > 75\%$	$F_{c} > 75\%$	SBL < 4w/ft <sup>2</sup> per ANSI C72.1-72	Gas $E_{r} > 75\%$ and SBL < 2.3+67/V per ANSI 221.10.3-74  Oil $F_{r} > 80\%$ and SBL < 2.3+67/V per ANSI 221.10.3-74	Residential fireplace units <20cfm with damper closed and provided with outside combustion air.

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