

APPENDIX T-2

STATE ENERGY EFFICIENCY REQUIREMENTS FOR RESIDENTIAL HEATING EQUIPMENT

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	
OHIO	Calculate loads per 1977 ASHRAE Fundamentals Handbook	$E_c > 75\%$	$E_c > 75\%$	$E_c > 75\%$	SBL < 4w/ft ² per ANSI C72.1-72	$E_r > 75\%$ and SBL < 2.3+67/V per ANSI Z21.10.3-74	
PENNSYLVANIA (P)	Heating system capacity for fossil fuel boilers and furnaces < 1.6xU _o xATD	$E_{ss} > 74\%1$	$E_{ss} > 74\%1$	$E_{ss} > 74\%1$	SBL < 4w/ft ² or insulated to >R-5	SBL < (2.3+67)/V ¹ or insulated to >R-5	Provisions apply to 1 and 2 family, townhouse, rowhouse and garden apartments < 3 stories when each dwelling unit has its own HVAC system. Heating capacity based on overall envelope (A) and winter design temperature difference (TD). Supply ducts R>5.0 and return ducts R>3.5 with exceptions from ASHRAE 90-75 (5.11.1) hot water and steam piping R>4.0 with exceptions from ASHRAE 90-75 (5.10.1)
RHODE ISLAND (P)	Calculate loads per 1977 ASHRAE Fundamentals Handbook	$E_c > 75\%$	$E_c > 75\%$	$E_c > 75\%$	SBL < 4w/ft ² per ANSI C72.1-72	$E_r > 75\%$ and SBL < 2.3+67/V per ANSI Z21.10.3-74	
VERMONT	Calculate loads per 1977 ASHRAE Fundamentals Handbook	$E_c > 75\%$	$E_c > 75\%$	$E_c > 75\%$	SBL < 4w/ft ² per ANSI C72.1-72	$E_r > 75\%$ and SBL < 2.3+67/V per ANSI Z21.10.3-74	Code does not apply to residential buildings < 3 stories. Values are provided for commercial construction not addressed in Part B of Section III.

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1. Rating conditions are shown in ASHRAE standard 90A-1980