

(Effective until July 1, 2020)

WAC 51-11C-403233 Table C403.2.3(3)—Minimum efficiency requirements—Electrically operated PTAC, PTHP, SPVAC, SPVHP, room air conditioners.

Table C403.2.3(3)

Minimum Efficiency Requirements—Electrically Operated Packaged Terminal Air Conditioners, Packaged Terminal Heat Pumps, Single-Package Vertical Air Conditioners, Single-Package Vertical Heat Pumps, Room Air Conditioners and Room Air-Conditioner Heat Pumps

Equipment Type	Size Category (Input)	Subcategory or Rating Condition	Minimum Efficiency		Test Procedure <sup>a</sup>
PTAC (cooling mode) new construction	All Capacities	95°F db outdoor air		14.0 - (0.300 × Cap/1000) EER	AHRI 310/380
PTAC (cooling mode) replacements <sup>b</sup>	All Capacities	95°F db outdoor air		10.9 - (0.213 × Cap/1000) EER	
PTHP (cooling mode) new construction	All Capacities	95°F db outdoor air		14.0 - (0.300 × Cap/1000) EER	
PTHP (cooling mode) replacements <sup>b</sup>	All Capacities	95°F db outdoor air		10.8 - (0.213 × Cap/1000) EER	
PTHP (heating mode) new construction	All Capacities	—		3.7 - (0.052 × Cap/1000) COP	
PTHP (heating mode) replacements <sup>b</sup>	All Capacities	—		2.9 - (0.026 × Cap/1000) COP	
SPVAC (cooling mode)	< 65,000 Btu/h	95°F db/75°F wb outdoor air		10.0 EER	AHRI 390
	≥ 65,000 Btu/h and < 135,000 Btu/h	95°F db/75°F wb outdoor air		10.0 EER	
	≥ 135,000 Btu/h and < 240,000 Btu/h	95°F db/75°F wb outdoor air		10.0 EER	
SPVHP (cooling mode)	< 65,000 Btu/h	95°F db/75°F wb outdoor air		10.0 EER	
	≥ 65,000 Btu/h and < 135,000 Btu/h	95°F db/75°F wb outdoor air		10.0 EER	
	≥ 135,000 Btu/h and < 240,000 Btu/h	95°F db/75°F wb outdoor air		10.0 EER	
SPVHP (heating mode)	<65,000 Btu/h	47°F db/43°F wb outdoor air		3.0 COP	AHRI 390
	≥ 65,000 Btu/h and < 135,000 Btu/h	47°F db/43°F wb outdoor air		3.0 COP	
	≥ 135,000 Btu/h and < 240,000 Btu/h	47°F db/43°F wb outdoor air		3.0 COP	
Room air conditioners, with louvered sides	< 6,000 Btu/h	—		9.7 SEER	ANSI/AHA-MRAC-1
	≥ 6,000 Btu/h and < 8,000 Btu/h	—		9.7 SEER	
	≥ 8,000 Btu/h and < 14,000 Btu/h	—		9.8 EER	
	≥ 14,000 Btu/h and < 20,000 Btu/h	—		9.7 SEER	
	≥ 20,000 Btu/h	—		8.5 EER	
Room air conditioners, without louvered sides	< 8,000 Btu/h	—		9.0 EER	
	≥ 8,000 Btu/h and < 20,000 Btu/h	—		8.5 EER	
	≥ 20,000 Btu/h	—		8.5 EER	
Room air-conditioner heat pumps with louvered sides	< 20,000 Btu/h	—		9.0 EER	
	≥ 20,000 Btu/h	—		8.5 EER	
Room air-conditioner heat pumps without louvered sides	< 14,000 Btu/h	—		8.5 EER	

Equipment Type	Size Category (Input)	Subcategory or Rating Condition	Minimum Efficiency		Test Procedure <sup>a</sup>
	≥ 14,000 Btu/h	—		8.0 EER	
Room air conditioner casement only	All capacities	—		8.7 EER	
Room air conditioner casement-slider	All capacities	—		9.5 EER	

For SI: 1 British thermal unit per hour = 0.2931 W, °C = [(°F) - 32]/1.8.

"Cap" = The rated cooling capacity of the product in Btu/h. If the unit's capacity is less than 7000 Btu/h, use 7000 Btu/h in the calculation. If the unit's capacity is greater than 15,000 Btu/h, use 15,000 Btu/h in the calculations.

- a Chapter 6 of the referenced standard contains a complete specification of the referenced test procedure, including the referenced year version of the test procedure.
- b Replacement unit shall be factory labeled as follows: "MANUFACTURED FOR NONSTANDARD SIZE APPLICATIONS ONLY; NOT TO BE INSTALLED IN NEW STANDARD PROJECTS" or "MANUFACTURED FOR REPLACEMENT APPLICATIONS ONLY; NOT TO BE INSTALLED IN NEW CONSTRUCTION PROJECTS." Replacement efficiencies apply only to units with existing sleeves less than 16 inches (406 mm) in height and less than 42 inches (1067 mm) in width.

[Statutory Authority: RCW 19.27A.025, 19.27A.160, and 19.27.074. WSR 16-03-072, § 51-11C-403233, filed 1/19/16, effective 7/1/16. Statutory Authority: RCW 19.27A.020, 19.27A.025 and chapters 19.27 and 34.05 RCW. WSR 13-04-056, § 51-11C-403233, filed 2/1/13, effective 7/1/13.]

**Reviser's note:** The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

**(Effective July 1, 2020)**

**WAC 51-11C-403233 Table C403.3.2(3)—Minimum efficiency requirements—Electrically operated PTAC, PTHP, SPVAC, SPVHP, room air conditioners.**

**Table C403.3.2(3)**

**Minimum Efficiency Requirements—Electrically Operated Packaged Terminal Air Conditioners, Packaged Terminal Heat Pumps, Single-Package Vertical Air Conditioners, Single-Package Vertical Heat Pumps, Room Air Conditioners and Room Air-Conditioner Heat Pumps**

Equipment Type	Size Category (Input)	Subcategory or Rating Condition	Minimum Efficiency		Test Procedure <sup>a</sup>
PTAC (cooling mode) new construction	All Capacities	95°F db outdoor air		14.0 - (0.300 × Cap/1000) EER	AHRI 310/380
PTAC (cooling mode) replacements <sup>b</sup>	All Capacities	95°F db outdoor air		10.9 - (0.213 × Cap/1000) EER	
PTHP (cooling mode) new construction	All Capacities	95°F db outdoor air		14.0 - (0.300 × Cap/1000) EER	AHRI 390
PTHP (cooling mode) replacements <sup>b</sup>	All Capacities	95°F db outdoor air		10.8 - (0.213 × Cap/1000) EER	
PTHP (heating mode) new construction	All Capacities	—		3.7 - (0.052 × Cap/1000) COP	AHRI 390
PTHP (heating mode) replacements <sup>b</sup>	All Capacities	—		2.9 - (0.026 × Cap/1000) COP	
SPVAC (cooling mode)	< 65,000 Btu/h	95°F db/75°F wb outdoor air		11.0 EER	AHRI 390
	≥ 65,000 Btu/h and < 135,000 Btu/h	95°F db/75°F wb outdoor air		11.0 EER	
	≥ 135,000 Btu/h and < 240,000 Btu/h	95°F db/75°F wb outdoor air		11.0 EER	
SPVHP (cooling mode)	< 65,000 Btu/h	95°F db/75°F wb outdoor air		11.0 EER	AHRI 390
	≥ 65,000 Btu/h and < 135,000 Btu/h	95°F db/75°F wb outdoor air		11.0 EER	

Equipment Type	Size Category (Input)	Subcategory or Rating Condition	Minimum Efficiency		Test Procedure <sup>a</sup>
	≥ 135,000 Btu/h and < 240,000 Btu/h	95°F db/75°F wb outdoor air		11.0 EER	
SPVHP (heating mode)	< 65,000 Btu/h	47°F db/43°F wb outdoor air		3.3 COP	AHRI 390
	≥ 65,000 Btu/h and < 135,000 Btu/h	47°F db/43°F wb outdoor air		3.3 COP	
	≥ 135,000 Btu/h and < 240,000 Btu/h	47°F db/43°F wb outdoor air		3.3 COP	
Room air conditioners, with louvered sides	< 6,000 Btu/h	—		11.0 CEER	ANSI/AHA-MRAC-1
	≥ 6,000 Btu/h and < 8,000 Btu/h	—		11.0 CEER	
	≥ 8,000 Btu/h and < 14,000 Btu/h	—		10.9 CEER	
	≥ 14,000 Btu/h and < 20,000 Btu/h	—		10.7 CEER	
	≥ 20,000 Btu/h and < 25,000 Btu/h	—		9.4 CEER	
	≥ 25,000 Btu/h	—		9.0 CEER	
Room air conditioners, without louvered sides	< 6,000 Btu/h	—		10.0 CEER	
	≥ 6,000 Btu/h and < 8,000 Btu/h	—		10.0 CEER	
	≥ 8,000 Btu/h and < 11,000 Btu/h	—		9.6 CEER	
	≥ 11,000 Btu/h and < 14,000 Btu/h	—		9.5 CEER	
	≥ 14,000 Btu/h and < 20,000 Btu/h	—		9.3 CEER	
	≥ 20,000 Btu/h	—		9.4 CEER	
Room air-conditioner heat pumps with louvered sides	< 20,000 Btu/h	—		9.8 CEER	
	≥ 20,000 Btu/h	—		9.3 CEER	
Room air-conditioner heat pumps without louvered sides	< 14,000 Btu/h	—		9.3 CEER	
	≥ 14,000 Btu/h	—		8.7 CEER	
Room air conditioner casement only	All capacities	—		9.5 CEER	
Room air conditioner casement-slider	All capacities	—		10.4 CEER	

For SI: 1 British thermal unit per hour = 0.2931 W, °C = [(°F) - 32]/1.8.

"Cap" = The rated cooling capacity of the product in Btu/h. If the unit's capacity is less than 7000 Btu/h, use 7000 Btu/h in the calculation. If the unit's capacity is greater than 15,000 Btu/h, use 15,000 Btu/h in the calculations.

- a Chapter 12 of the referenced standard contains a complete specification of the referenced test procedure, including the referenced year version of the test procedure.
- b Replacement unit shall be factory labeled as follows: "MANUFACTURED FOR NONSTANDARD SIZE APPLICATIONS ONLY; NOT TO BE INSTALLED IN NEW STANDARD PROJECTS" or "MANUFACTURED FOR REPLACEMENT APPLICATIONS ONLY; NOT TO BE INSTALLED IN NEW CONSTRUCTION PROJECTS." Replacement efficiencies apply only to units with existing sleeves less than 16 inches (406 mm) in height and less than 42 inches (1067 mm) in width.

[Statutory Authority: RCW 19.27A.020, 19.27A.025, 19.27A.160 and chapter 19.27 RCW. WSR 19-24-040, § 51-11C-403233, filed 11/26/19, effective 7/1/20. Statutory Authority: RCW 19.27A.025, 19.27A.160, and 19.27.074. WSR 16-03-072, § 51-11C-403233, filed 1/19/16, effective 7/1/16. Statutory Authority: RCW 19.27A.020, 19.27A.025 and chapters 19.27 and 34.05 RCW. WSR 13-04-056, § 51-11C-403233, filed 2/1/13, effective 7/1/13.]

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