

(Effective July 1, 2023)

WAC 51-11C-403322 Table C403.3.2(2)—Electrically operated air-cooled unitary heat pumps—Minimum efficiency requirements.

Table C403.3.2(2)

Electrically Operated Air-Cooled Unitary Heat Pumps—Minimum Efficiency Requirements

Equipment Type	Size Category	Heating Section Type	Subcategory or Rating Condition	Minimum Efficiency	Test Procedure ^a
Air cooled (cooling mode)	< 65,000 Btu/h	All	Split System, three phase and applications outside U.S. single phase ^b	14.3 SEER2	AHRI 201/240-2023
			Single Package, three phase and applications outside U.S. single phase ^b	13.4 SEER2	
Space constrained, air cooled	≤ 30,000 Btu/h	All	Split System, three phase and applications outside U.S. single phase ^b	11.7 SEER2	
			Single Package, three phase and applications outside U.S. single phase ^b	11.7 SEER2	
Single duct high velocity, air cooled (cooling mode)	≤ 65,000 Btu/h	All	Split System, three phase and applications outside U.S. single phase ^b	12.0 SEER2	
Air cooled (cooling mode)	≥ 65,000 Btu/h and < 135,000 Btu/h	Electric Resistance (or None)	Split System and Single Package	11.0 EER 14.1 IEER	
		All other	Split System and Single Package	10.8 EER 13.9 IEER	
	≥ 135,000 Btu/h and < 240,000 Btu/h	Electric Resistance (or None)	Split System and Single Package	10.6 EER 13.5 IEER	
		All other	Split System and Single Package	10.4 EER 13.3 IEER	
	≥ 240,000 Btu/h	Electric Resistance (or None)	Split System and Single Package	9.5 EER 12.5 IEER	
		All other	Split System and Single Package	9.3 EER 12.3 IEER	

Equipment Type	Size Category	Heating Section Type	Subcategory or Rating Condition	Minimum Efficiency	Test Procedure ^a
Air cooled (heating mode)	< 65,000 Btu/h ^b	-	Split System, three phase and applications outside U.S. single phase ^b	7.5 HSPF	AHRI 201/240-2023
		-	Single Package, three phase and applications outside U.S. single phase ^b	6.7 HSPF	
Space constrained, air cooled (heating mode)	≤ 30,000 Btu/h	-	Split System, three phase and applications outside U.S. single phase ^b	6.3 HSPF	
		-	Single Package, three phase and applications outside U.S. single phase ^b	6.3 HSPF	
Small-duct high velocity air cooled (heating mode)	< 65,000 Btu/h	-	Split System, three phase and applications outside U.S. single phase ^b	6.1 HSPF	
Air cooled (heating mode)	≥ 65,000 Btu/h and < 135,000 Btu/h (cooling capacity)	-	47°F db/43°F wb Outdoor Air	3.40 COP _H	
			17°F db/15°F wb Outdoor Air	2.25 COP _H	
	≥ 135,000 Btu/h and < 240,000 Btu/h (cooling capacity)	-	47°F db/43°F wb Outdoor Air	3.30 COP _H	
			17°F db/15°F wb Outdoor Air	2.05 COP _H	
	≥ 240,000 Btu/h (cooling capacity)	-	47°F db/43°F wb Outdoor Air	3.20 COP _H	
			17°F db/15°F wb Outdoor Air	2.05 COP _H	

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

^a Chapter 6 contains a complete specification of the referenced standards, which include test procedures, including the reference year version of the test procedure.

^b Single-phase, U.S. air-cooled heat pumps less than 65,000 Btu/h are regulated as consumer products by the U.S. Department of Energy Code of Federal Regulations DOE 10 C.F.R. 430. SEER, SEER2, and HSPF values for single-phase products are set by the U.S. Department of Energy.

^c DOE 10 C.F.R. 430 Subpart B Appendix MI includes the test procedure updates effective 1/1/2023 that will be incorporated into AHRI 210/240-2023.

^d This table is a replica of ASHRAE 90.1 Table 6.8.1-2 Electrically Operated Air-Cooled Unitary Heat Pumps—Minimum Efficiency Requirements.

[Statutory Authority: RCW 19.27A.020, 19.27A.025, 19.27A.160 and chapters 19.27A and 19.27 RCW. WSR 22-14-091, § 51-11C-403322, filed 7/1/22, effective 7/1/23.]