(Effective until July 1, 2023)

WAC 51-11C-403237 Table C403.3.2(7)—Minimum efficiency requirements—Water chilling packages.

Table C403.3.2(7)

Minimum Efficiency Requirements-Water Chilling Packages^{a,b}

			Path A		Path B		
Equipment Type	Size Category	Units	Full Load	IPLV	Full Load	IPLV	Test Procedure ^c
Air-cooled chillers	< 150 tons	EER	≥ 10.100	≥13.700	≥ 9.700	≥15.800	
	\geq 150 tons	EER	≥ 10.100	≥ 14.000	≥ 9.700	≥16.100	
Air cooled without condenser, electrically operated	All capacities	EER	Air-cooled chillers without condensers shall be rated with matching condensers and comply with the air-cooled chiller efficiency requirements				
Water cooled, electrically operated, positive displacement	< 75 tons	kW/ton	≤ 0.750	≤ 0.600	≤ 0.780	≤ 0.500	
	\geq 75 tons and < 150 tons	kW/ton	≤ 0.720	≤ 0.560	≤ 0.750	≤ 0.490	AHRI 550/590
	\geq 150 tons and $<$ 300 tons	kW/ton	≤ 0.660	≤ 0.540	≤ 0.680	≤ 0.440	
	\geq 300 tons and $<$ 600 tons	kW/ton	≤ 0.610	≤ 0.520	≤ 0.625	≤ 0.410	
	\geq 600 tons	kW/ton	≤ 0.560	≤ 0.500	≤ 0.585	≤ 0.380	
Water cooled, electrically operated, centrifugal	< 150 tons	kW/ton	≤ 0.610	≤ 0.550	≤ 0.695	≤ 0.440	
	\geq 150 tons and $<$ 300 tons	kW/ton	≤ 0.610	\leq 0.550	\leq 0.695	\leq 0.400	
	\geq 300 tons and $<$ 400 tons	kW/ton	≤ 0.560	≤ 0.520	\leq 0.595	≤ 0.390	
	\geq 400 tons	kW/ton	≤ 0.560	≤ 0.500	≤ 0.585	\leq 0.380	
Air cooled, absorption single effect	All capacities	СОР	≥ 0.600	NR	NA	NA	
Water cooled, absorption single effect	All capacities	СОР	≥ 0.700	NR	NA	NA	AHRI 560
Absorption double effect, indirect fired	All capacities	СОР	≥ 1.000	≥ 1.050	NA	NA	
Absorption double effect, direct fired	All capacities	СОР	≥ 1.000	≥ 1.000	NA	NA	

For SI: 1 ton = 3517 W, 1 British thermal unit per hour = 0.2931 W, °C = [(°F) - 32]/1.8.

NA = Not applicable, not to be used for compliance;

NR = No requirement.

^a The centrifugal chiller equipment requirements, after adjustment in accordance with Section C403.3.2.2 or Section C403.3.2.3, do not apply to chillers used in low-temperature applications where the design leaving fluid temperature is less than 36°F. The requirements do not apply to positive displacement chillers with leaving fluid temperatures less than or equal to 32°F. The requirements do not apply to absorption chillers with design leaving fluid temperatures less than 40°F.

^b Compliance with this standard can be obtained by meeting the minimum requirements of Path A or B. However, both the full load and IPLV shall be met to fulfill the requirements of Path A or B.

 Chapter 12 of the referenced standard contains a complete specification of the referenced test procedure, including the referenced year version of the test procedure.

[Statutory Authority: RCW 19.27A.025, 19.27A.045 and chapter 19.27 RCW. WSR 20-21-080, § 51-11C-403237, filed 10/19/20, effective 2/1/21. Statutory Authority: RCW 19.27A.020, 19.27A.025, 19.27A.160 and chapter 19.27 RCW. WSR 19-24-040, § 51-11C-403237, 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-403237, 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-403237, 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.