WAC 51-11C-403323 Table C403.3.2(3)—Water chilling packages— Minimum efficiency requirements.

| Table | C403 | .3.2 | (3) |
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Water Chilling Packages-Minimum Efficiency Requirements^{a,b,e,f}

| | | 1 | | | | | |
|--|----------------------------------|-------------|--|--------------|-----------------|-----------------|------------------------|
| | | | Path A Path B | | | h B | Test |
| Equipment Type | Size Category | Units | FL | IPLV,IP | FL | IPLV,IP | Procedure ^c |
| Air-cooled chillers | < 150 tons | EER(Btu/Wh) | ≥ 10.100 | ≥13.700 | ≥ 9.700 | ≥15.800 | |
| | \geq 150 tons | EER(Btu/Wh) | ≥ 10.100 | ≥ 14.000 | ≥ 9.700 | ≥16.100 | |
| Air cooled without condenser, electrically operated | All capacities | EER(Btu/Wh) | Air-cooled be rated wi comply wi requiremen | | | | |
| | < 75 tons | kW/ton | ≤ 0.750 | ≤ 0.600 | ≤ 0.780 | ≤ 0.500 | |
| Water cooled, | \geq 75 tons and < 150 tons | kW/ton | ≤ 0.720 | ≤ 0.560 | ≤ 0.750 | ≤ 0.490 | AHRI 550/590 |
| electrically operated, positive displacement | \geq 150 tons and $<$ 300 tons | kW/ton | ≤ 0.660 | ≤ 0.540 | ≤ 0.680 | ≤ 0.440 | |
| angraeement | \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, | < 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 | ≤ 0.695 | ≤ 0.400 | |
| | \geq 300 tons and $<$ 400 tons | kW/ton | ≤ 0.560 | ≤ 0.520 | \leq 0.595 | ≤ 0.390 | |
| centrifugal | \geq 400 tons and $<$ 600 tons | kW/ton | \leq 0.560 | \leq 0.500 | \leq 0.585 | \leq 0.380 | |
| | \geq 600 tons | kW/ton | ≤ 0.560 | ≤ 0.500 | ≤ 0.585 | ≤ 0.380 | |
| Air cooled absorption, single effect | All capacities | COP(W/W) | ≥ 0.600 | NR | NA ^d | NA ^d | |
| Water cooled absorption, single effect | All capacities | COP(W/W) | ≥ 0.700 | NR | NA ^d | NA ^d | AHRI 560 |
| Absorption double effect, indirect fired | All capacities | COP(W/W) | ≥ 1.000 | ≥ 1.050 | NA ^d | NA ^d | ARKI 300 |
| Absorption double effect, direct fired | All capacities | COP(W/W) | ≥ 1.000 | ≥ 1.000 | NA ^d | NA ^d | |

For SI: 1 ton = 3517 W, 1 British thermal unit per hour = 0.2931 W, $^{\circ}C = [(^{\circ}F) - 32]/1.8$.

NR = No requirement.

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

b The requirements for centrifugal chiller shall be adjusted for nonstandard rating conditions per Section C403.3.2.4 and are applicable only for the range of conditions listed there. The requirements for air-cooled, water-cooled positive displacement and absorption chillers are at standard rating conditions defined in the referenced test procedure.

c Both the full load and IPLV.IP requirements must be met or exceeded to comply with this standard. When there is a Path B, compliance can be with either Path A or Path B for any application.

^d NA means the requirements are not applicable for Path B and only Path A can be used for compliance.

e FL is the full-load performance requirements, and IPLV.IP is for the part-load performance requirements.

f This table is a replica of ASHRAE 90.1 Table 6.8.1-3 Water-Chilling Packages-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, 23-12-101, and 23-20-021, § 51-11C-403323, filed 7/1/22, 6/7/23, and 9/25/23, effective 3/15/24.]