**Cut-and-Paste Acquisition Language for Water-Cooled Electric Chiller [Product Solicitation]**

**Statement of Work [*Include in solicitation AND contract language*]**

According to [*your organization’s*] goals to optimize energy performance at [*your site*], the Vendor shall ensure that all water-cooled electric chillers supplied meet or exceed [FEMP-designated](https://www.energy.gov/eere/femp/search-energy-efficient-products) guidelines.

**Technical Specifications [*Include in solicitation AND contract language*]**

The Vendor shall supply water-cooled chillers that meet or exceed efficiency requirements for the most current FEMP-designated standards. View FEMP-designated standards for water-cooled chillers (as of June 2021) below or visit <https://www.energy.gov/eere/femp/purchasing-energy-efficient-water-cooled-electric-chillers> to see the most current standards.

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| TABLE 1. EFFICIENCY REQUIREMENTS FOR WATER-COOLED ELECTRIC CHILLERS (KW/TON) | | | | | |
| **Chiller Type** | **Capacity (tons)** | **Full-Load Optimized Applications**  **(products must meet both levels)** | | **Part-Load Optimized Applications**  **(products must meet both levels)** | |
| **Full Load Efficiency** | **Integrated Part-Load Value (IPLV)** | **Full Load Efficiency** | **Integrated Part-Load Value (IPLV)** |
| **Positive Displacement** | < 75 | 0.728 | 0.600 | 0.780 | 0.500 |
| 75 to 149 | 0.714 | 0.560 | 0.750 | 0.490 |
| 150 to 299 | 0.629 | 0.540 | 0.680 | 0.440 |
| 300 to 599 | 0.610 | 0.520 | 0.625 | 0.410 |
| ≥ 600 | 0.560 | 0.500 | 0.585 | 0.380 |
| **Centrifugal** | < 150 | 0.610 | 0.550 | 0.695 | 0.440 |
| 150 to 299 | 0.544 | 0.550 | 0.635 | 0.400 |
| 300 to 399 | 0.544 | 0.520 | 0.595 | 0.390 |
| 400 to 599 | 0.541 | 0.500 | 0.585 | 0.380 |
| ≥ 600 | 0.550 | 0.500 | 0.585 | 0.380 |

Water-cooled electric chillers that do not meet the FEMP-designated standards **will not** be considered for the bid.

**Document Requirements [*Include in solicitation AND contract language*]**

The Vendor shall submit manufacturer cut sheets for each model of water-cooled electric chillers supplied indicating an energy efficiency rating that meets or exceeds FEMP-designated standards.

**Evaluation Criteria**

[*Option 1*] The Vendor will be evaluated based on the Vendor’s ability to verify that all air-cooled electric chillers supplied under this contract meet or exceed FEMP-designated standards.

[*Option 2*] The Vendor will be evaluated based on Best Value as assessed through life cycle cost analysis. Vendors are required to provide the cost for each water-cooled electric chiller using the life cycle cost formula below:

LCC = I + Repl − Res + E + W + OMR + X

where:

LCC = Total LCC in present-value dollars of a given alternative

I = Present-value investment costs

Repl = Present-value capital replacement costs

Res = Present-value residual value (resale value, scrap value, salvage value) less disposal costs

E = Present-value energy costs

W = Present-value water costs

OMR = Present-value non-fuel operating, maintenance, and repair costs

X = Present-value other costs (benefits treated as negative costs)

For more information on how to calculate life cycle cost, refer to <https://nvlpubs.nist.gov/nistpubs/hb/2020/NIST.HB.135-2020.pdf>

Reference: SF Tool Green Procurement Compilation - <https://sftool.gov/greenprocurement>