

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2025-028
Item to be Scouted	Circulator Pumps - 2 types
Days to be scouted	30
Response Due By	02/28/2025
Description	<ul style="list-style-type: none">o Provide pumps that operate at specified system fluid temperatures (80F - 200F) without vapor binding and cavitation, are non-overloading in parallel or individual operation, and operate within 25 percent of midpoint of published maximum efficiency curve.o Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated.o Horizontal shaft, single-stage pump with direct connected, resilient-mount, oil lubricated motor
Notify Requester Immediately	
State item to be used in	Vermont

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Electronic / Electrical / Mechanical Assembly

<p>Provide dimensions / size / tolerances / performance specifications for the item</p>	<p>Casing: Cast iron, with flanged pump connections. Impeller: Non-ferrous. Bearings: Carbon sleeve type. Shaft: Stainless steel Cataphoresis anti-corrosion surface treatment on all cast iron surfaces. Insulation Shell: Tailor made, clip on.</p> <p>See specs for type A and type B, below. o discharge pressures of up to 125 psi.</p> <p>o Motor: 4-poly synchronous, permanent-magnet with integrated frequency converter.</p> <p>Similar in form and function to: https://www.tacocomfort.com/product/00e-vr-series-ecm-high-efficiency-circulators/</p> <p>PUMP A MAX SHUT-OFF HEAD 61 feet MAX. FLOW 284 USGPM MAX. OPERATING PRESSURE 175 PSI (12 bar) WATER TEMPERATURE RANGE 14 to 230°F (-10 to 110°C) AMBIENT TEMPERATURE RANGE 32 to 104°F (0 to 40°C) AMBIENT HUMIDITY Less than 95% RH continuous duty VOLTAGE (ALL SINGLE PHASE) 200-240 POWER CONSUMPTION (HP) 2.1 HP POWER CONSUMPTION (W) 25 - 1550 W CURRENT LIMIT 8 MAX AMPS 6.6</p> <p>PUMP B MAX SHUT-OFF HEAD 39 feet MAX. FLOW 108 USGPM MAX. OPERATING PRESSURE 175 PSI (12 bar) WATER TEMPERATURE RANGE 14 to 230°F (-10 to 110°C) AMBIENT TEMPERATURE RANGE 32 to 104°F (0 to 40°C) AMBIENT HUMIDITY Less than 95% RH VOLTAGE (ALL SINGLE PHASE) 110-240 POWER CONSUMPTION (HP) 0.6 HP POWER CONSUMPTION (W) 25 - 480 W CURRENT LIMIT 6 MAX AMPS 110V - 4.2, 240V - 2.1</p>
<p>List required materials needed to make the product, including materials of product components</p>	<p>Casing: Cast iron Impeller: Non-ferrous. Bearings: Carbon sleeve type. Shaft: Stainless steel Cataphoresis anti-corrosion surface treatment on all cast iron surface. Insulation Shell: Tailor made, clip on.</p>
<p>Are there applicable certification requirements?</p>	<p>Yes</p>
<p>Certification(s) required</p>	<p>UL</p>
<p>Are there applicable regulations?</p>	<p>Yes</p>
<p>Details</p>	<p>Must be BABA compliant</p>
<p>Are there any other standards, requirements, etc.?</p>	<p>Yes</p>
<p>Details</p>	<p>American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) standards</p>
<p>NAICS 1</p>	<p>333996 Fluid power pump and motor manufacturing</p>

NAICS 2	
Additional Technical Comments	<p>Controls</p> <ol style="list-style-type: none"> 1. Integral differential pressure and temperature sensor. 2. Optional modes which allow stepless adaption of performance to varying load requirements: <ol style="list-style-type: none"> a. Self-adapt for systems where duty point is unknown. b. Self-adapt combined with flow monitoring and electronic flow limitation. c. Constant differential pressure based on signal from integral or external sensor. d. Flow dependent variable pressure based on signal from internal sensor. e. Constant temperature based on signal from internal or external sensor. f. Constant differential temperature based on signal from internal or external sensor, or two separate external sensors. 3. Capability to handle signals from external sensors and controllers measuring flow, temperature, and/or pressure. Signal input configurable to either 4-20mA or 0-10V. 4. Electronic flow monitoring and limitation functionality which ensures that, by adapting pump performance, a given flow rate is not exceeded. 5. Wireless communication without the use of external controllers between two single pups or between double pumps. Controlled in alternating, backup, or cascade modes. 6. Relay outputs configurable as alarm, ready, operation. 7. Digital inputs for external start/stop, min/max curve. 8. Capacity for optional Building Management System modules for communication with BACnet MS/TP, IP, Modbus RTU, TCP, LonWorks as well as cellular data transmission. 9. Control panel with color display for pump setup and control with full access to all functions. 10. Visual indication of pump status with options: pump running, ready, warning or alarm.

Section 4: Business Information

Estimated potential business volume	Type A - Minimum 4, up to 10 Type B - Minimum 6, up to 12
Estimated target price / unit cost information (if unavailable explain)	Type A - \$2500 each Type B - \$2500 each
When is it needed by?	summer 2025
Describe packaging requirements	as needed to arrive at the site in operational condition
Where will this item be shipped?	Minimum of 2 locations in Vermont, up to 4 locations in Vermont

Additional Comments

Is there other information you would like to include?	<p>Warranty: Minimum non-prorated 18 months from date of installation, not to exceed 30 months from date of manufacturer. Cover against defective material and/or faulty workmanship.</p> <p>For information related to BABA requirements please contact: Project: Allison Ross aross@veic.org</p> <p>Department of Energy Michael Veihl michael.veihl@ee.doe.gov</p>
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