



**INVITATION TO BID:**

**BID NUMBER: 20-21-10**

**PURCHASE OF TWO (2) COOLING TOWERS FOR SAN JUAN REGIONAL MEDICAL CENTER**

**County Executive Office**

Jaime Jones  
Contract Analyst  
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E-mail: [jjones@sjcounty.net](mailto:jjones@sjcounty.net)

**Bid Opening Date: February 9, 2021  
Time: 2:00 PM (Local Time)**

**NIGP Commodity/Services Code: 031-28  
Cooling Towers**

**PAYMENT TERMS:**  
Discounts will not be considered in computing lowest/best bid.

**REQUIRED DELIVERY: As Specified**

**FOB POINT: As Specified**

**RETURNED SEALED BIDS TO:**

SAN JUAN COUNTY  
Purchasing Department  
213 S. Oliver Drive  
Aztec, NM 87410

- 
- **Only Bidders that complete and return the enclosed Acknowledgement of Receipt Form will receive addendums, if issued.**
  - This bid is subject to the Terms and Conditions shown on the following pages and any/all additional instructions.
  - Do not return Invitation to Bid Form in case of "No Bid".
  - Bid must be received in the County Purchasing Department Office by the Bid Opening Date and Local Time as indicated above. **Bids that are received after that date and time will not be accepted, and will be returned to the sender unopened.**
  - Bid Offers shall be made on unaltered Bid Offer Forms furnished by San Juan County. **Faxed Bids are not acceptable. Bids shall be submitted sealed. The outside package should clearly identify the project name and bid number, bid opening date, and name of bidder. Submit Bid Offer in accordance with the Invitation to Bid. Bidders may submit a Primary Bid and Alternate Bid(s). Each Bid must be sealed separately and the outside package should be clearly marked indicating if the Bid is Primary or Alternate.**

Failure of bidders to complete bidding documents in accordance with all instructions provided is cause for this office to reject bids.

Brand names and numbers are for reference only, equivalents will be considered. If bidding equivalent, bidders must be prepared to furnish complete data to prove product meets or exceeds specifications of the bid item.

**THE PROCUREMENT CODE SECTIONS 13-1-28 THROUGH 13-1-99 NMSA 1978, IMPOSES CIVIL AND CRIMINAL PENALTIES FOR ITS VIOLATION. IN ADDITION, THE NEW MEXICO CRIMINAL STATUTES IMPOSE FELONY PENALTIES FOR BRIBES, GRATUITIES AND KICKBACKS.**

# ACKNOWLEDGEMENT OF RECEIPT FORM

**BID NO.: 20-21-10**

**TITLE: PURCHASE OF TWO (2) COOLING TOWERS FOR SAN JUAN REGIONAL MEDICAL CENTER**

**21 PAGES (INCLUDING ACKNOWLEDGEMENT FORM AND EXHIBIT A, B, C AND D)**

***NOTE: ONLY POTENTIAL BIDDERS WHO COMPLETE AND RETURN THIS FORM WILL RECEIVE COPIES OF ADDENDUMS, IF ISSUED.***

**BIDDER INFORMATION:**

In acknowledgement of receipt of the above referenced Bid Packet, the undersigned agrees that he/she has received a complete copy.

\_\_\_\_\_  
BIDDER NAME

\_\_\_\_\_  
SIGNATURE OF AUTHORIZED REPRESENTATIVE

\_\_\_\_\_  
PRINTED NAME OF AUTHORIZED REPRESENTATIVE

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

PHONE NO.: \_\_\_\_\_ FAX NO.: \_\_\_\_\_

E-MAIL: \_\_\_\_\_

**RETURN TO:**  
Jaime Jones  
Contract Analyst  
(505) 334-4548  
[jjones@sjcounty.net](mailto:jjones@sjcounty.net)

**Emailed copies of the Acknowledgement of Receipt form will be accepted.  
Emailed Bid responses will not be accepted.**

# TERMS AND CONDITIONS

(Unless otherwise specified)

1. **GENERAL.** When the County Chief Procurement Officer issues a purchase document in response to the Vendors bid, a binding contract is created.
2. **FORM OF SUBMISSION.** Bid Offers shall be made on unaltered Bid Offer Forms furnished by San Juan County. **Bidders are requested to provide one (1) original Bid. The outside package should identify the project name, bid number, bid opening date and name of bidder. Bidders may submit a Primary Bid and Alternate Bid(s). Each bid must be sealed separately, and the outside package should be clearly marked indicating if the Bid is Primary or Alternate.**
3. **DEBARRED OR SUSPENDED CONTRACTORS.** A business (contractor, subcontractor or supplier) that has either been debarred or suspended pursuant to the requirements of §13-1-177 through §13-1-180, and §13-4-11 through §13-4-17 NMSA 1978 as amended, shall not be permitted to do business with San Juan County and shall not be considered for award of the contract during the period for which it is debarred or suspended.
4. **VARIATION IN QUANTITY.** No variation in quantity of any item called for in this order will be accepted unless such variation has been caused by conditions of loading, shipping, packing or allowances in manufacturing process, and then only to the extent, if any, specified elsewhere in this order.
5. **ASSIGNMENT.**
  - A. Neither the order, nor any interest therein, nor claim thereunder, shall be assigned or transferred by the Vendor, except as expressly authorized in writing by the County Chief Procurement Officer. No such assignment or transfer shall relieve the Vendor from the obligations and liabilities under this order.
  - B. Vendor agrees that any and all claims for overcharge resulting from antitrust violations which are borne by the County as to goods, services, and materials purchased in connection with this bid are hereby assigned to the County.
6. **DISCOUNTS.** Prompt payment discounts will not be considered in computing the low bid. Discounts for payment will be considered after the award of the contract. Discounted time will be computed from the date of receipt of the merchandise or invoice, whichever is later.
7. **INSPECTION.** Final inspection and acceptance will be made at the destination. Supplies rejected at the destination for nonconformance with specifications shall be removed, at the Vendor's risk and expense, promptly after notice of rejection.
8. **INSPECTION OF PLANT.** The County Chief Procurement Officer may inspect, at any reasonable time, the part of the contractor's, or any subcontractor's plant or place of business, which is related to the performance of this contract.
9. **LIABILITY.** The Vendor agrees that San Juan County shall not be held liable for any costs incurred in preparation of this bid.
10. **COMMERCIAL WARRANTY.** The Vendor agrees that the supplies or services furnished under this order shall be covered by the most favorable commercial warranties the Vendor gives to any customer for such supplies or services, and that the rights and remedies provided herein shall extend to the County and are in addition to, and do not limit any rights afforded to the County by any other clause of this order. Vendor agrees not to disclaim warranties fitness for a particular purpose of merchantability.
11. **TAXES.** The unit price shall exclude all County/State taxes. Wherever requested in bid response, Vendor shall submit taxes on total bid as a separate unit. Bids shall be awarded on unit price without regard of tax.
12. **PACKING, SHIPPING and INVOICING.**
  - A. The County's purchase document number and the Vendor's name, user's name and location shall be shown on each packing and delivery ticket, package, bill of lading and other correspondence in connection with the shipment. The user's count will be accepted by the Vendor as final and conclusive on all shipments not accompanied by a packing ticket.
  - B. Upon delivery, the Vendor's invoice shall be submitted to Accounts Payable, 100 S. Oliver Drive, Aztec, NM 87410, duly certified and shall contain the following information: Purchase order

number, description of supplies or services, quantities, unit prices and extended totals. Separate invoices shall be rendered for each and every complete shipment.

C. In accordance with NMSA 1978, Section 13-1-158 (1997) of the New Mexico Procurement Code, the Vendor may assess late payment charges on past due accounts (thirty days past receipt and acceptance of the complete order of goods or services by the County) at the rate of one and one-half percent (1½ %) per month of the unpaid balance. Paragraph C of this section also states that if payment is made by mail, the payment shall be deemed tendered on the date it is postmarked.

13. **DEFAULT.** The County reserves the right to cancel all or any part of this order without cost to the County, if the Vendor fails to meet the provisions of this order and, except as otherwise provided herein, to hold the Vendor liable for any excess costs if failure to perform the order arises out of causes beyond the control and without the fault or negligence of the Vendor, such causes include but are not restricted to acts of God or the public enemy, acts of the State or Federal government, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather, and defaults of subcontractors due to any of the above, unless the County shall determine that the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the Vendor to meet the required delivery schedule. The rights and remedies of the County provided in this paragraph shall not be exclusive and are in addition to any other rights now being provided by law or under this order.
14. **NON-COLLUSION.** In, signing this bid, the Vendor certifies that he/she has not, either directly or indirectly, entered into any action in constraint of free competitive bidding in connection with this proposal submitted to the County Chief Procurement Officer.
15. **NON-DISCRIMINATION.** Vendors doing business with San Juan County must be in compliance with the Federal Civil Rights Act of 1964 and Title VII of the Act, (Rev., 1979), and the Americans Disabilities Act of 1990. (Public Law 101-336).
16. **IN-STATE RESIDENT PREFERENCE.** To be eligible for the 5% resident preference, the bidder shall include a copy of their certificate with their bid and in-state resident preference number on the Bid Offer Page, pursuant to Section 13-1-21 NMSA 1978. Each Bidder may obtain a New Mexico In-State Resident Preference Certificate Number through the State of New Mexico, Department of Taxation and Revenue, 505-827-0951.
17. **RESIDENT VETERANS PREFERENCE.** To be considered for the 10% resident veteran business preference, bidder shall include a copy of their certificate with their bid and resident veteran preference number on the Bid Offer Page, pursuant to Section 13-1-21 NMSA 1978. Each Bidder may obtain a Resident Veterans Preference Certificate Number through the State of New Mexico, Department of Taxation and Revenue, 505-827-0951. This preference is separate from the in-state preference and is not cumulative with that preference.
18. **ITEM/EQUIPMENT CONDITION.** All bid items are to be new and of most current production, unless otherwise specified.
19. **BEST PRICING CONDITION.** The bid award does not preclude price changes if deemed beneficial to the County. In recognition of market price fluctuation, Vendor agrees to provide bid items at best possible price to SJC including any available discounts or special pricing that applies. Bid prices reflect the upper limit that applies. Bid prices reflect the upper limit that may be charged for any particular item.
20. **SAMPLES.** Unless otherwise indicated in the bid specifications, samples of the items-when required- shall be furnished free of expense to the County prior to the time set for the opening of bids. Samples not destroyed or mutilated in testing will be returned upon request by mail-express or freight-COLLECT. Each sample must be labeled to clearly show the bid number, item number and bidders name-regardless of any attempt by bidder to condition the bid. Unsolicited bid samples or descriptive literature which are submitted at the bidder's risk, will not be examined or tested, and will not vary from any of the provisions of the Invitation to Bid.
21. **BID AWARD.** San Juan County is not obligated to award to lowest bidder but reserves the right to accept and/or reject any and all bids, in whole or in part, to waive technical irregularities, and to award to the bidder whose bid is deemed to be in the best interest of the County. The County reserves the right to waive minor irregularities and also reserves the right to waive mandatory requirement(s) so long as all responding vendors fail to meet the mandatory requirement(s) and the failure to do so does not otherwise materially effect the procurement.

**Determination of lowest bidder:**

Following determination of product acceptability, if any is required, bids will be evaluated to determine which bidder offers the lowest cost to the County in accordance with specifications, terms, & conditions set forth. The County reserves the right to award this Invitation to Bid in total; by groups of items; on the basis of individual items; or any combination of these; or as otherwise specified in bid terms. Alternate Bids may be considered so long as the Primary Bid submitted is the lowest bid meeting the specifications and requirements. Bidders may submit a Primary Bid and Alternate Bid(s). Each bid must be sealed separately, and the outside package should be clearly marked indicating if the Bid is Primary or Alternate.

**22. RIGHT TO DISCONTINUE PROCUREMENT.** The County reserves the right to cancel this INVITATION TO BID at any time, and to reject any or all bids, or otherwise to proceed in the best interests of the County. This in no manner obligates the County or any of its agencies to the eventual purchase of any product or service, whether explicitly described or implied herein, until confirmed by a written contract and/or Purchase Order.

**23. FOB DESTINATION.** Destination: Means goods are to be delivered to the destination identified in the Purchase Order by the user, which is the point at which the user accepts ownership or title to goods. Laws of New Mexico specifically prohibit acceptance of ownership of goods in transit. ANY exception to FOB Destination may cause a bid to be declared non-responsive.

**24. INSURANCE REQUIREMENTS.** Contractor shall carry and maintain insurance from an insurance company or companies with a Best Rating of A, or better, authorized to do business in the State of New Mexico in the following amounts:

**\*(Construction, Services, or Installation Only)**

**General Liability** - \$1,000,000 CSL

(Combined Single Limits)

**Auto Liability** - \$1,000,000 CSL

(Combined Single Limits)

**Workers Compensation** – Statutory limits pursuant to the New Mexico Workers Compensation Act.

The certificate shall specifically provide that the coverage afforded under the policy or policies will not be cancelled or be materially changed until prior written notice has been given to the County. The County shall be named as additional insured on the General Liability Insurance policy. **The Contractor shall supply a copy of the appropriate certificates of insurance to the County for each year in which the contract is in effect.**

**25. LATE BIDS.** Any bid received after the specified time and date will be declared a "Late Bid" and will NOT be considered.

**26. SPECIAL INSTRUCTIONS.**

- A. To preclude possible errors and/or misinterpretations, bid prices must be affixed LEGIBLY in ink, or typewritten. Corrections or changes must be signed or initialed by bidder prior to scheduled bid opening. Failure to do so will be just cause for rejection of bid. The Bid shall be stated in both numerals and written words. In case of discrepancies, the amount in written words shall govern.
- B. Clarifications and questions must be addressed to the County Chief Procurement Officer in sufficient time to provide a written response to all prospective bidders.
- C. Bids may be withdrawn upon receipt of written request, prior to scheduled bid opening for the purpose of making any corrections and or changes. Such corrections must be properly identified and signed or initialed by bidder. Resubmittal must also be prior to scheduled bid opening for consideration.
- D. After bid opening, no modifications on bid prices or other provisions shall be permitted. A low bidder alleging a material mistake of fact-after bids have been opened-may be permitted to withdraw the bid upon written request prior to award at the discretion of the County Chief Procurement Officer. Bidders shall hold their bid pricing for thirty (30) days after bid opening.
- E. Specifications on the bid are not meant to exclude any bidder or manufacturer. Where a brand name or equal is indicated, it is for the purpose of describing the standard of quality, performance, and characteristics desired and are NOT intended to restrict competition. "No Substitute" specifications may be authorized ONLY if required to match existing equipment.

# **SPECIFICATIONS AND REQUIREMENTS**

## **SCOPE.**

San Juan County is requesting sealed bids from vendors for the purchase of two (2) new Evapco cooling towers model #ATW 168-5M or equal and model #ATWB 9-7M12 or equal for San Juan Regional Medical Center (SJRMC) located at 801 West Maples Street, Farmington, NM 87401. The units will be direct replacements for the existing cooling towers at SJRMC. SJRMC will be responsible for the installation of the new units.

Bid is for the purchase of a cooling tower only. Installation will be performed by SJRMC.

## **METHOD OF AWARD.**

This Bid will be awarded to the lowest responsive and responsible bidder meeting the specifications and requirements taking into account the Resident/Veterans Preference set forth in this document. San Juan County reserves the right to waive irregularities, reject offers, in whole or in part, and award this Bid in the best interest of the County.

## **PRICING/DELIVERY.**

Pricing which is bid and accepted pursuant to this solicitation shall be inclusive of all materials and preparation/shipping costs. Price all products as delivered F.O.B.: Destination - include any shipping charges in unit price; ownership transfers at destination point.

Bidders shall also provide the option for stainless steel basins versus galvanized basin on the bid offer page.

The bidders will also be responsible for the crane time to unload the cooling towers in the SJRMC yard. Please include price for crane services on Bid Offer page.

Awarded vendor will be required to deliver the unit in late-march to match project timeline.

## **RESIDENT PREFERENCE.**

**IN-STATE RESIDENT CONTRACTOR PREFERENCE.** To be eligible for the 5% resident contractor's preference, the contractor shall include a copy of their certificate with their quote and in-state resident preference number on the Quote Form, pursuant to Section 13-4-2 NMSA 1978. Each Contractor may obtain a New Mexico In-State Resident Contractor Preference Certificate Number through the State of New Mexico, Department of Taxation and Revenue, 505-827-0951.

**RESIDENT VETERAN CONTRACTOR PREFERENCE.** To be considered for the 10% resident veteran contractor preference, the contractor shall include a copy of their certificate with their quote and include their resident veteran preference number on the Quote Form, pursuant to Section 13-4-2 NMSA 1978.

## **PURCHASE QUANTITIES.**

Quantities listed are for a one-time purchase only.

## **AMENDMENT.**

A Contractor may submit an amended bid, so long as the amended bid is submitted prior to the date and time when bids are opened. An amended bid must be complete, as it will be substituted for the earlier bid(s) and must be clearly identified as an amendment to the bid. No reference to the amount of the original bid(s) shall be made in any amended bid. Any such reference in an amended bid may disqualify that bid.

## **WITHDRAWAL.**

A Contractor may withdraw its bid at any time prior to the date and time when bids are opened. A Contractor requesting to withdraw a bid must submit a written request signed by the Contractor's duly authorized representative(s). A Contractor may request withdrawal of a bid by fax, but to be effective, written confirmation shall also be mailed and postmarked on or before the date of the bid opening. Withdrawal of a bid pursuant to this section shall not disqualify any Contractor from submitting a subsequent bid, so long as the subsequent bid complies fully with the requirements for submissions of bids herein.

**TERMINATION.**

In addition to the grounds for termination set forth elsewhere in the Quote Documents or in the Contract Documents, any contract awarded as a result of this Quote may be terminated if sufficient appropriations or authorizations do not exist. The County's decision concerning whether sufficient appropriations or authorizations exist will be final.

**INDEPENDENT CONTRACTOR.**

The vendor awarded an agreement under this solicitation is an independent contractor and shall perform its obligations under this agreement, as it deems necessary and appropriate. The County will not supervise or regulate the Contractor in the day-to-day performance of this Agreement. The successful Contractor and its officers, directors, agents and employees, are independent contractors performing services for the County and are not employees of the County. The successful Contractor, and its officers, directors, agents, and employees, shall not accrue leave, retirement, insurance, bonding, use of County vehicles or any other benefits afforded to employees of the County. The successful Contractor covenants that it presently has no interest, and shall not acquire any interest, direct or indirect, financial or otherwise, which would conflict in any manner or degree with the performance of the required services.

**INDEMNITY.**

The contractor awarded an agreement agrees, as material consideration for this Agreement, to defend, indemnify, and hold harmless the County, its Elected Officials, Agents, and employees from and against any and all claims arising out of any asserted negligent act, error or omission of the Contractor, its officers, directors, employees or agents or arising in any way from this agreement or the Contractor's activities hereunder. The indemnity agreed to in this paragraph shall not extend to liabilities, claims, damages, losses or expenses, including attorney fees arising out of: The preparation or approval of maps, drawings, opinions, reports, surveys, change orders, designs or specifications by the County, or the agents or employees of the County, or the giving of or the failure to give directions or instructions by the County, or the agents or employees of the County, where such giving or failure to give directions or instructions is the primary cause of bodily injury to persons or damage to property.

**GOVERNING LAW.**

Any price agreement awarded to a Contractor, as a result of this solicitation, shall be governed in accordance with the laws of the State of New Mexico.

**NOTICE.**

The New Mexico Procurement Code, N.M.S.A. 1978, §§13-1-28 through 13-1-199 (Repl. 1997)(as amended), imposes civil and criminal penalties for its violation. In addition, the New Mexico Criminal Code, N.M.S.A. 1978, §§ 30-1-1 et seq. (Repl. 1994)(as amended), imposes criminal penalties for illegal bribes, gratuities, and kickbacks. Contractors should carefully consider the consequences of their behavior during the pendency of this solicitation, and should seek the advice of legal counsel when in doubt.

**QUESTIONS/SUGGESTIONS.**

All questions pertaining to this Quote shall be submitted in writing no later than 7 days prior to quote deadline and shall be directed to:

Jaime Jones, Contract Analyst  
Phone: (505) 334-4548 Fax: (505) 334-4561  
[jjones@sjcounty.net](mailto:jjones@sjcounty.net)

## TECHNICAL SPECIFICATIONS

The specifications listed are minimum. These specifications are not meant to exclude any bidder or manufacturer and have only been used for the purpose of describing the standard of quality, performance, and characteristics desired and are not meant to restrict competition. These specifications are acceptable at this time.

### ITEM 1:

The dimensions and measurements needed are to be the same as shown on Exhibit A. Exhibit B includes a photo of the current unit that will be replaced.

Unit: Evapco Induced Draft Closed Circuit Cooler or Equal

Model: ATW 168-5M or equal

Capacity: Unit 930 GPM of 30% Propylene Glycol  
88°F IN 78.1°F OUT 63.2°F E.W.B.

Fan Motor: Unit (1) 30 HP Elec. Spec: 460/3/60

Pump Motor: (1) 5 HP Elec. Spec.: 460/3/60

Coil Pressure Drop: 6.8 PSIG Drives Sized for 0" ESP.

Unit Type: Factory assembled, induced draft, counterflow

Construction: Heavy gauge mill hot-dip galvanized steel casing and pan. Hot-dip galvanized steel channel and angle supports. All galvanized steel coated with a minimum of 2.35 ounces of zinc per square foot of area (G-235 designation). During fabrication, all panel edges are coated with a 95% pure zinc-rich compound.

Make up Float valve assembly: Brass float valve with adjustable plastic float.

Pan Strainer: All type 304 stainless steel construction with large area removable perforated screens.

Access: Sliding door in the upper casing for fan drive and water distribution system access. Removable louver panels on all four sides of the unit for pan and sump access.

Bleed-Off: Waste water bleed line with adjustable valve provided.

Pump: Close-Coupled centrifugal pump with mechanical seal. The pump is installed in a vertical position so that water will drain from the pump when the cold-water basin is emptied. Pump motor is totally enclosed with protective canopy for outdoor operation.

Fan Shaft: Solid shaft of ground and polished steel. Exposed surface coated with rust preventative.

Fan shaft bearings: Heavy-duty self-aligning ball type bearings with extended lubrication lines to grease fittings on the access door frame. Bearings are designed for a minimum L-10 life of 75,000 hours.

Fans: Fans are axial propeller type constructed of aluminum alloy and statically balanced. The fan is installed in a closely fitted galvanized steel cowl with venturi air inlet. Fan screens are galvanized steel mesh and have galvanized steel frames bolted to the fan cowl.

Fan Motor: Totally enclosed, ball bearing type electric motor(s) are 1.15 service factor design. Motors are mounted on an adjustable base allowing the motor to swing to the outside of the unit for servicing.

Fan Drive: The fan drive is a multi-groove, solid back, reinforced neoprene V-belt type with taper lock shelves designed for 150% of the motor nameplate horsepower. Fan and motor sheaves are constructed of aluminum alloy. The fans and fan sheaves shall be mounted on the shaft with a special coated bushing for maximum corrosion protection.

Coil: Thermal-Pak coil design of all prime surface steel, encased in steel framework with entire assembly hot-



dip galvanized after fabrication. Designed with sloping tubes for liquid drainage and tested to 400 psig air under water. (patent no. 4755331)

**Water Distribution System:** Heavy-duty molded nylon ZM spray nozzles with large 1-5/16" diameter opening and internal sludge ring to eliminate clogging. ZM nozzles are threaded into Schedule-40 Polyvinyl Chloride headers equipped with removable end plugs for ease of cleaning.

**Eliminators:** The eliminators are constructed entirely of Polyvinyl Chloride (PVC) in easily handled sections. Design incorporates three changes in air direction and limits the water carryover to a maximum of 0.001% of the circulating water rate.

**Air Inlet Louvers:** The air inlet louvers are constructed from UV inhibited polyvinyl chloride (PVC) and incorporate a framed interlocking design that allows for easy removal of louvers for access to the entire basin area for maintenance. The louvers have a minimum of two changes in air direction and are of a non-planar design to prevent splash-out, block direct sunlight and debris from entering the basin.

Unit to be supplied with Inverter Duty Fan motor.

(1) Vibration Cutout Switch(es), mounted (wiring and sensitivity adjustment by other).

(1) Sloped Ladder.

Unit Arranged with High Flow Coils.

## **ITEM 2:**

The dimensions and measurements needed are to be the same as shown on Exhibit C. Exhibit D includes a photo of the current unit that will be replaced.

**Unit:** Evapco Induced Draft Closed Circuit Cooler or Equal

**Model:** ATWB 9-7M12 or equal

**Flow:** 440.1 GPM

**Fluid:** Water

**Entering Fluid Temp:** 95.0 F

**Leaving Fluid Temp:** 85.0 F

**Entering Wet Bulb:** 78.0 F

**Required Capacity:** 2,200.50 MBH and 146.70 Tons

Certified for water, propylene glycol or ethylene glycol as process fluid.

**Overall Dimensions:** 8'-5 1/2" x 11'-11 3/4" x 14' 0"

**Operating Weight:** 24,620 lbs

**IBC Standard Structural Design**

1.0 Importance Factor specified

2.0 Seismic(Sos): up to 1.6 g, z/h = 0

3.0 Wind Load (P): up to 288 psf

**Fan Motor:** Unit (1) 30 HP, 36 Amps

**Pump Motor:** (1) 3 HP, 3.91 Amps

**Air Flow:** 61,670 CFM

**Coil Volume:** 484.3 gal per unit

**Coil Design Pressure:** 250 psi

**Riser Pipe Diameter:** 6"

**Hydraulic Data: Spray Water Flow:**

550 GPM

**Pressure Drop Through Coil:** 4.8 psi

Evaporated Water Rate: 3.52 GPM

Layout Criteria:

From FACE B/D to wall: 3.00 ft

From FACE A/C to wall: 3.00 ft

Between FACE B/D ends: 6.00 ft

Between FACE A/C sides: 6.00 ft

Sound Data(dB(A) @ 5'/50'):

Face A (Opp Mtr. Side): 82/68

Face C (Motor Side): 83/69

Face B (End): 82/67

Face D (Opp End): 82/67

Top: 86/73

Accessories:

- |   |   |  |
|---|---|--|
| (1) IBC Standard Structural Design                  | (1) 1.0 Importance Factor Specified                           | (1) CrossCool Coil                                 |
| (1) 3-Probe Electronic Water Level Control Package  | (1) Vibration Switch  | (1) Aluminum Ladder                                |
| (1) El. Heaters (0F/-18C ambient) (2) 4kW; 460/3/60 | (1) Contactor w/Transformer and Disconnect for Heater Package | (1) Fan Motor: Inverter Capable, Premium Efficient |
| (1) Fan Motor: Space Heaters                        | (1) Fam Motor: Shaft Grounding Rings                          |  |

Thermal Performance: Unit shall be capable to cool 440.1 GPM of water entering at 95.0 F leaving at 85.0 F at a design entering wet bulb of 78.0 F with a pressure drop across the coil not to exceed 4.76 psi.

IBC Compliance: The unit structure shall be designed, analyzed, and constructed in accordance with the latest edition of International Building Code (IBC) for :  $I_P = 1.0$ ,  $S_{DS} = 1.6$ ;  $z/h = 0$ ,  $P = 288$  psf.

Factory assembled and tested, induced draft counter flow closed circuit cooler complete with fan, coil, louvers, accessories and rigging supports.

All cold-water basin components including vertical supports, air inlet louver frames and panels up to rigging seam shall be constructed of heavy gauge mill hot-dip galvanized steel.

Upper Casing, channels and angle supports shall be constructed of heavy gauge mill hot-dip galvanized steel. Fan cowl and guard shall be constructed of galvanized steel. All galvanized steel shall be coated with a minimum of 2.35 ounces of zinc per square foot area (G-235 Hot-Dip Galvanized Steel designation). During fabrication, all galvanized steel panel edges shall be coated with a 95% pure zinc-rich compound.

Fan (s) shall be high efficiency axial propeller type with aluminum wide chord blade construction. Each fan shall be dynamically balanced and installed in a closely fitted cowl with venturi air inlet for maximum fan efficiency.

Drift Eliminators shall be constructed entirely of Polyvinyl Chloride (PVC) in easily handled sections. Design shall incorporate three changes in air direction and limit the water carryover to a maximum of 0.001% of the recirculating water rate. Drift eliminators shall be self-extinguishing, have a flame spread of less than 25 under ASTM E84, and shall be resistant to rot, decay and biological attack.

Water Distribution System: Spray nozzles shall be zero-maintenance precision molded ABS with large 1-1/4" diameter orifice threaded into branch piping with internal sludge ring to eliminate clogging. Spray header, branches, and riser shall be Schedule 40 Polyvinyl Chloride (PVC) for corrosion resistance.

Heat transfer coil shall be elliptical tubes of prime surface steel, encased in steel framework with entire assembly hot-dip galvanized after fabrication. The coil assembly shall be designed with sloping tubes for liquid drainage and air pressure tested to 390 psig air under water. Coil shall be in compliance with ASME/ANSI B31.5.

Unit shall have EISA close-coupled centrifugal pump with mechanical seal. The pump shall be installed in a vertical position so that water will drain from the pump when the cold-water basin is emptied. Pump motor shall be totally enclosed with protective canopy for outdoor operation.

Unit shall have a wastewater bleed line with a manual adjustable valve provided.

The air inlet louvers shall be constructed from UV inhibited Polyvinyl Chloride (PVC) and incorporate a frame interlocking design that allows for easy removal of air inlet louvers for access to the entire basin area for maintenance. The air inlet louvers shall have a minimum of two changes in air direction and shall be of a non-

planar design to prevent splash-out and block direct sunlight & debris from entering the basin. Air inlet louvers shall be self-extinguishing, have a flame spread of less than 25 under ASTM E84, and shall be resistant to rot, decay and biological attack.

Electronic water level control package shall have three (3) stainless steel water level sensors (one high level, one low level and one ground) with a NEMA 4x enclosure mounted in a cleanable Schedule 40 PVC external standpipe with slow closing solenoid valve(s) and "y" strainer(s). Wiring is not included, and components must be field mounted. Valves shall be sized for 25 psi minimum to 125 psi maximum pressure. Standpipe may require heat tracing by others in cold weather applications.

Pan strainer(s) shall be all Type 304 Stainless Steel construction with large area removable perforated screens.

Pipe Connection Type: Any connections provided with a Groove (GVD) or Beveled for Welding/Grooved (BFW/GVD) shall conform to standard groove specification (SGS).

Fan motor(s) shall be totally enclosed, ball bearing type electric motor(s) suitable for moist air service. Motor(s) are Premium Efficient, Class F insulated, 1.15 service factor design. Inverter rate per NEMA MG1 Part 31.4.4.2 and suitable for variable torque applications and constant torque speed range with properly sized and adjusted variable frequency drives.

Fan motor(s) shall include strip-type space heaters with separate leads brought to the motor conduit box.

The fan drive shall be multigroove, solid back V-belt type with QD tapered bushings designed for 150% of the motor nameplate power. The belt material shall be neoprene reinforced with polyester cord and specifically designed for evaporative equipment service. Fan sheave shall be aluminum alloy construction. Belt adjustment shall be accomplished from the exterior of the unit.

Fan shaft shall be solid, ground and polished steel. Exposed surface shall be coated with rust preventative.

Fan shaft bearings shall be heavy-duty, self-aligning ball type bearings with extended lubrication lines to grease fittings located on access door frame. Bearings shall be designed for a minimum L-10 life of 100,000 hours.

Vibration Switch: Unit shall be provided with a Vibration Cutout Switch, operating on 120 VAC feed, to protect the fan and drive assembly from damage in the event of excess vibration. Vibration switch shall be DPDT.

Maintenance Access:

Fan Section: Access door shall be hinged and located in the fan section for fan drive and water distribution system access. Swing away motor cover shall be hinged for motor access.

Basin Section: Framed removable louver panels shall be on all four (4) sides of the unit for pan and sump access.

Internal working Platform shall provide easy access to the fans, belts, motors, sheaves, bearings, all mechanical equipment and complete water distribution system. The coil surface shall be an acceptable means of accessing these components.

Ladder: An aluminum sloped ladder shall be provided for access to the motor access door.

Accessories:

Basin Heater Package:

Cold water basin shall be fitted with copper element, electric immersion heaters(s) with a separate thermostat and low water protection device. Heaters shall be selected to maintain +40 F pan water at 0 F ambient temperature.

Electric immersion heater package shall include a factory-supplied NEMA 4x enclosure containing a magnetic contactor with 120 VAC control circuit, transformer, and main power disconnect. Control package wired by others.

**Bid Offer Page (Page 12)**  
**Bid 20-21-10**

**Purchase of Two (2) Cooling Tower for San Juan Regional Medical Center**

**IF BIDDING "OR EQUAL" PRODUCT, PRODUCT SPECIFICATION LITERATURE (BROCHURES) ENCLOSED**

**YES \_\_\_ NO \_\_\_**

<b>Item:</b>	<b>Unit Price:</b>
<b>1. Evapco ATW 168-5M Cooling Tower or Equal</b> per specifications	\$ _____
<b>Make/Model:</b> _____	
<b>Warranty on Unit:</b> _____	
<b>Option 1:</b> Stainless steel basin versus galvanized basin for the Evapco ATW 168-5M Cooling tower or Equal.	\$ _____
<b>2. Evapco ATWB 9-7M12 Cooling Tower or Equal</b> per specifications	\$ _____
<b>Make/Model:</b> _____	
<b>Warranty on Unit:</b> _____	
<b>Option 2:</b> Stainless steel basin versus galvanized basin For the Evapco ATWB 9-7M12 Cooling Tower of Equal.	\$ _____
<b>3. Cost for crane delivery services to SJRMC yard</b>	\$ _____

AVAILABILITY/DELIVERY ARO: \_\_\_\_\_

EXCEPTIONS: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

TOTAL BID AMOUNT \$ \_\_\_\_\_  
(NUMERALS)

TOTAL BID AMOUNT \$ \_\_\_\_\_  
(WRITTEN)

BUSINESS \_\_\_\_\_

ADDRESS \_\_\_\_\_  
\_\_\_\_\_

DATE \_\_\_\_\_ PHONE # \_\_\_\_\_ FAX # \_\_\_\_\_

EMAIL: \_\_\_\_\_

N.M. BIDDER CERTIFICATE/PREFERENCE NUMBER: \_\_\_\_\_

N.M. BIDDER RESIDENT VETERAN PREFERENCE NUMBER: \_\_\_\_\_

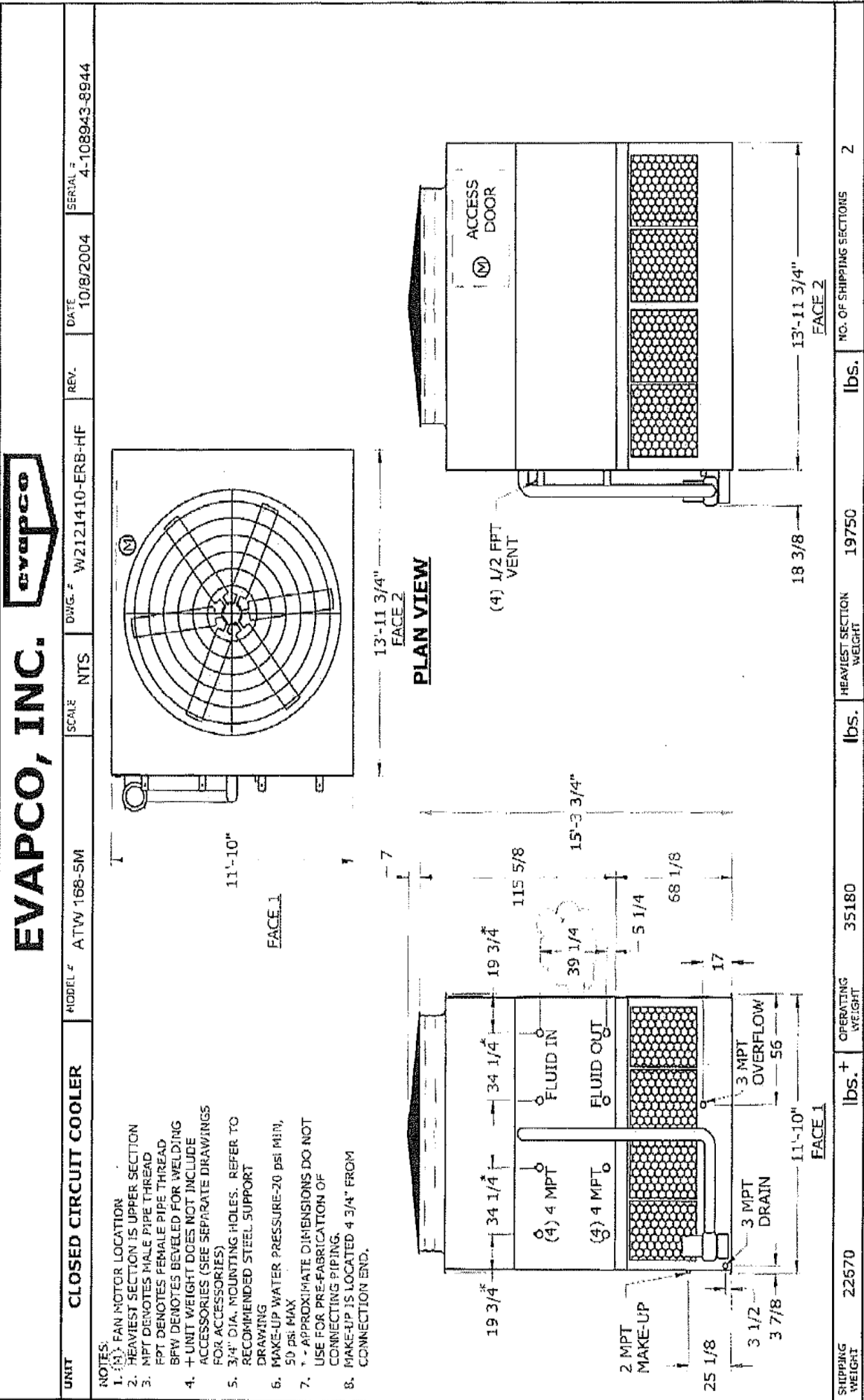
BIDDER ACKNOWLEDGES RECEIPT OF ADDENDA (IF ANY), \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

By signing, I affirm I am authorized to represent my firm and to provide the products and/or services required according to this bid response.

AUTHORIZED REPRESENTATIVE (PRINT) \_\_\_\_\_

AUTHORIZED REPRESENTATIVE (SIGNATURE) \_\_\_\_\_

# EVAPCO, INC.




- NOTES:**
1. (N) FAN MOTOR LOCATION
  2. HEAVIEST SECTION IS UPPER SECTION
  3. MPT DENOTES MALE PIPE THREAD  
FPT DENOTES FEMALE PIPE THREAD  
BRW DENOTES BEVEL FOR WELDING
  4. + UNIT WEIGHT DOES NOT INCLUDE ACCESSORIES (SEE SEPARATE DRAWINGS FOR ACCESSORIES)
  5. 3/4" DIA. MOUNTING HOLES. REFER TO RECOMMENDED STEEL SUPPORT DRAWING
  6. MAKE-UP WATER PRESSURE-20 PSI MIN, 50 PSI MAX
  7. \* - APPROXIMATE DIMENSIONS DO NOT USE FOR PRE-FABRICATION OF CONNECTING PIPING.
  8. MAKE-UP IS LOCATED 4 3/4" FROM CONNECTION END.

UNIT	MODEL #	DWG. #	SERIAL #
CLOSED CIRCUIT COOLER	ATV 168-5M	W2121410-ERB-HF	4-108943-8944
SCALE	NTS	REV.	DATE
			10/8/2004

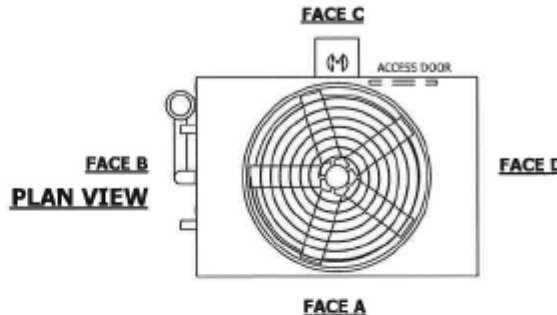
SHIPPING WEIGHT	OPERATING WEIGHT	HEAVIEST SECTION WEIGHT	NO. OF SHIPPING SECTIONS
22670	35180	19750	2

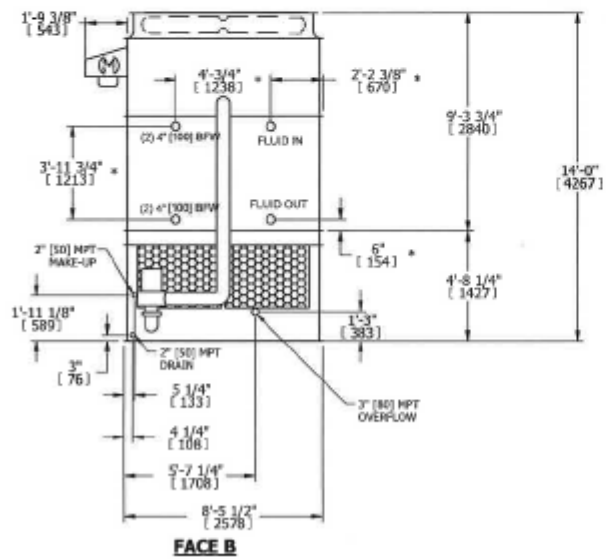


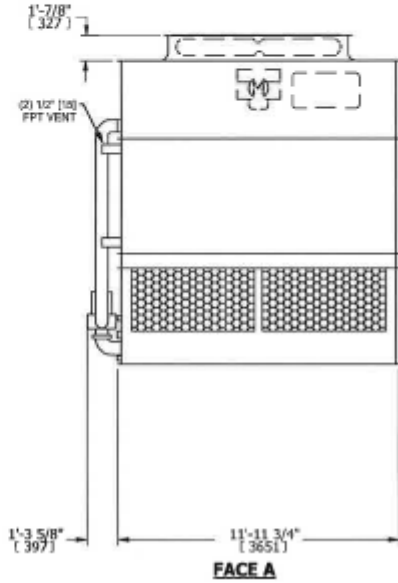
UNIT <b>CLOSED CIRCUIT COOLER</b>		<b>EVAPCO, INC.</b> 	DWG. # WB3091214-DRC-ST	REV. -
MODEL # ATWB 9-7M12	SCALE NTS		SERIAL #	DATE 12/15/2020

NOTES:  
 1. (M)- FAN MOTOR LOCATION  
 2. HEAVIEST SECTION IS UPPER SECTION  
 3. MPT DENOTES MALE PIPE THREAD  
 FPT DENOTES FEMALE PIPE THREAD  
 BFW DENOTES BEVELED FOR WELDING  
 GVD DENOTES GROOVED  
 FLG DENOTES FLANGE  
 PE DENOTES FLAIN END  
 4. \*UNIT WEIGHT DOES NOT INCLUDE ACCESSORIES (SEE ACCESSORY DRAWINGS)  
 5. MAKE-UP WATER PRESSURE  
 20 psi MIN [137 kPa], 50 psi MAX [344 kPa]  
 6. \*APPROXIMATE DIMENSIONS DO NOT USE FOR PRE-FABRICATION OF CONNECTING PIPING  
 7. 3/4" [19mm] DIA. MOUNTING HOLES. REFER TO RECOMMENDED STEEL SUPPORT DRAWING.  
 8. DIMENSIONS LISTED AS FOLLOWS:  
 ENGLISH FT-IN  
 METRIC [mm]







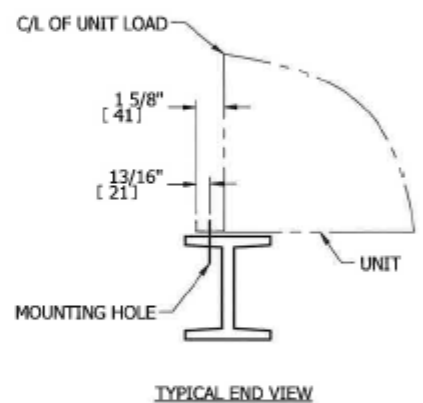
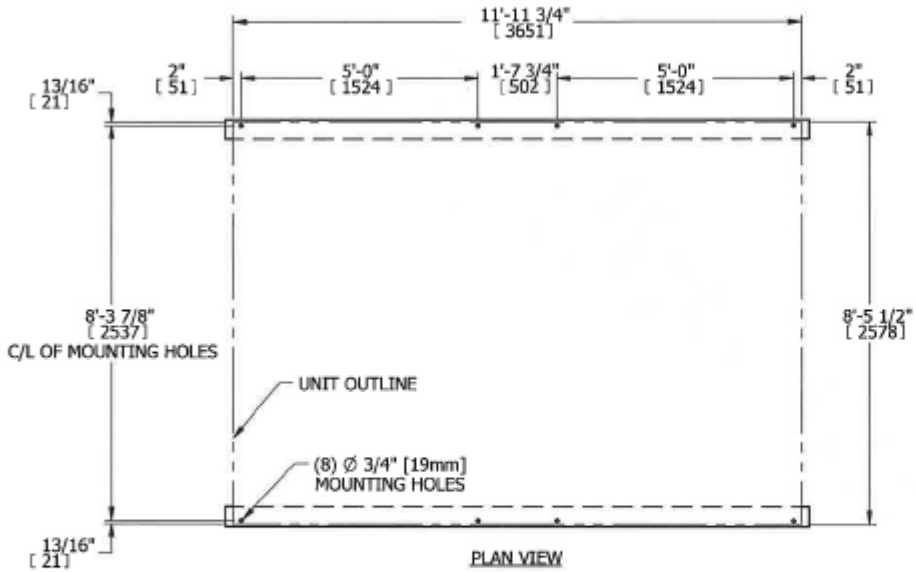
SHIPPING WEIGHT	16940 lbs+ [7685] kg+	OPERATING WEIGHT	24620 lbs+ [11170] kg+	HEAVIEST SECTION WEIGHT	15140 lbs+ [6870] kg+	NO. OF SHIPPING SECTIONS	2	DRAWN BY:	SLR
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REV ATWB 9-7M12  
 TITLE STEEL SUPPORT CONFIGURATION

**EVAPCO, INC.** 

DWG. # SLAW0912-DE  
 SCALE N.T.S. DRAWN BY JLG



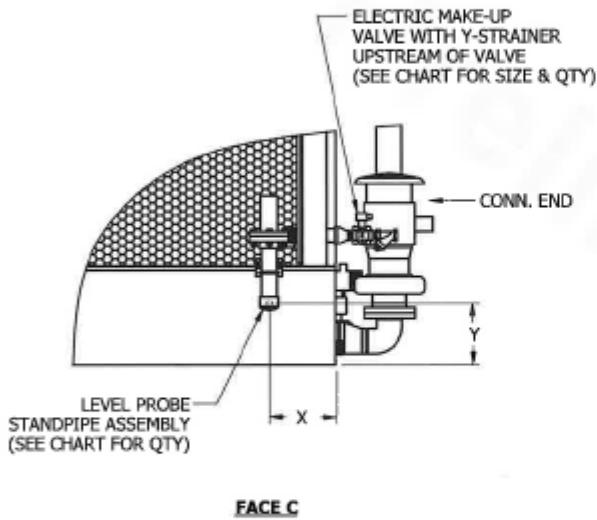
- NOTES:
1. BEAMS SHOULD BE SIZED IN ACCORDANCE WITH ACCEPTED STRUCTURAL PRACTICES. MAXIMUM DEFLECTION OF BEAM UNDER UNIT TO BE 1/360 OF UNIT LENGTH NOT TO EXCEED 1/2" [13mm].
  2. DEFLECTION MAY BE CALCULATED BY USING 55% OF THE OPERATING WEIGHT AS A UNIFORM LOAD ON EACH BEAM. SEE CERTIFIED PRINT FOR OPERATING WEIGHT.
  3. SUPPORT BEAMS AND ANCHOR HARDWARE ARE TO BE FURNISHED BY OTHERS. ANCHOR HARDWARE TO BE ASTM A325 5/8" [16mm] BOLT OR EQUIVALENT.
  4. BEAMS MUST BE LOCATED UNDER THE FULL LENGTH OF THE PAN SECTION.
  5. SUPPORTING BEAM SURFACE MUST BE LEVEL. DO NOT LEVEL THE UNIT BY PLACING SHIMS BETWEEN THE UNIT MOUNTING FLANGE AND THE SUPPORTING BEAM.
  6. THE FACTORY RECOMMENDED STEEL SUPPORT CONFIGURATION IS SHOWN. CONSULT THE FACTORY FOR ALTERNATE SUPPORT CONFIGURATIONS.
  7. UNIT SHOULD BE POSITIONED ON STEEL SUCH THAT THE ANCHORING HARDWARE FULLY PENETRATES THE BEAM'S FLANGE AND CLEARS THE BEAM'S WEB.
  8. WHEN VIBRATION ISOLATION IS REQUIRED, THE VIBRATION ISOLATORS (BY OTHERS) MUST BE LOCATED UNDER THE SUPPORTING BEAMS AND NOT BETWEEN THE SUPPORTING STEEL BEAMS AND THE UNIT.
  9. DIMENSIONS LISTED AS FOLLOWS: ENGLISH FT-IN [METRIC] [mm]

A  
G

UNIT INDUCED DRAFT CONDENSER/COOLER  
 TITLE ELECTRIC WATER LEVEL CONTROL LOCATION

# EVAPCO, INC.

DRWG. # ELAW4MWML-DB  
 SCALE N.T.S. DRAWN BY JLG



UNIT SELECTED	BOX SIZE	VALVE			Y-STRAINER			STANDPIPE		
		QTY	SIZE	PART NO.	QTY	SIZE	PART NO.	QTY	X	Y
<input type="checkbox"/>	8.5x7.5	1	1" (25)	017-00153P	1	1" (25)	017-00280P	1	3"	11"
<input type="checkbox"/>	8.5,2.4M7x8 8.5,2.4M10.5	1	1" (25)	017-00153P	1	1" (25)	017-00280P	1	3'-9 3/4"	11"
<input type="checkbox"/>	8.5,2.4M7x12	1	1" (25)	017-00153P	1	1" (25)	017-00280P	1	4'-7 1/2"	11"
<input type="checkbox"/>	8.5,2.4M14	1	1 1/2" (40)	017-00154P	1	1 1/2" (40)	017-00281P	1	5'-2"	11"
<input type="checkbox"/>	8.5,2.4M7x18	1	1 1/2" (40)	017-00154P	1	1 1/2" (40)	017-00281P	1	8"	11"
<input type="checkbox"/>	8.5,2.4M21	1	1 1/2" (40)	017-00154P	1	1 1/2" (40)	017-00281P	1	8'-8 3/4"	11"
<input type="checkbox"/>	8.5,2.4M7x24	2	1" (25)	017-00153P	2	1" (25)	017-00280P	1	4'-7 1/2"	11"
<input type="checkbox"/>	8.5,2.4M28	2	1 1/2" (40)	017-00154P	2	1 1/2" (40)	017-00281P	1	9'-8"	11"
<input type="checkbox"/>	2.4M7x36	2	1 1/2" (40)	017-00154P	2	1 1/2" (40)	017-00281P	1	8"	11"
<input type="checkbox"/>	2.4M42	2	1 1/2" (40)	017-00154P	2	1 1/2" (40)	017-00281P	1	8'-2 1/2"	11"
<input type="checkbox"/>	12.3M12	1	1 1/2" (40)	017-00154P	1	1 1/2" (40)	017-00281P	1	9'-0"	11"
<input type="checkbox"/>	12x14	1	1 1/2" (40)	017-00154P	1	1 1/2" (40)	017-00281P	1	4'-4"	11"
<input type="checkbox"/>	12.3M18	1	2" (50)	017-00155P	1	2" (50)	017-00282P	1	6'-10"	11"
<input type="checkbox"/>	12x20	1	2" (50)	017-00155P	1	2" (50)	017-00282P	1	7'-8"	11"
<input type="checkbox"/>	12.3M24	2	1 1/2" (40)	017-00154P	2	1 1/2" (40)	017-00281P	1	9'-4"	11"
<input type="checkbox"/>	12x28	2	1 1/2" (40)	017-00154P	2	1 1/2" (40)	017-00281P	1	18'-4"	11"
<input type="checkbox"/>	12.3M36	2	2" (50)	017-00155P	2	2" (50)	017-00282P	1	6'-10"	11"
<input type="checkbox"/>	12x40	2	2" (50)	017-00155P	2	2" (50)	017-00282P	1	7'-8"	11"

- NOTES:
1. PIPING BY OTHERS.
  2. LEVEL PROBE STANDPIPE ASSEMBLY, MAKE-UP VALVE AND Y-STRAINER TO SHIP LOOSE FOR FIELD MOUNTING BY OTHERS.
  3. SEE CERTIFIED PRINT FOR MAKE-UP LOCATION.
  4. STANDPIPE TO BE HEAT TRACED AND INSULATED FOR WINTER OPERATION (BY OTHERS).
  5. THE ELECTRONIC WATER LEVEL CONTROL ON THIS UNIT WILL MAINTAIN THE PROPER OPERATING WATER LEVEL. HOWEVER, BEFORE INITIAL START-UP THE UNIT MUST BE MANUALLY FILLED TO WITHIN 1" OF THE OVERFLOW.
  6. FOR EASE OF MAINTENANCE, A SHUT-OFF VALVE IS RECOMMENDED UPSTREAM OF Y-STRAINER.
  7. DIMENSIONS LISTED AS FOLLOWS: ENGLISH FT-IN METRIC [mm]

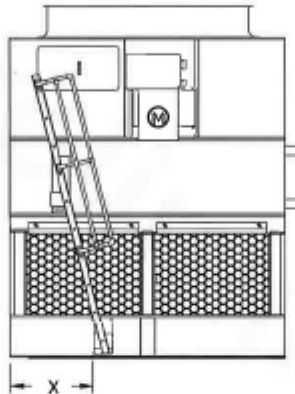
UNIT	ATWB 9-7M12
TITLE	SLOPED LADDER INSTALLATION PACKAGE

# EVAPCO, INC.

DWG. #	LDAW30912-DE	
SCALE	N.T.S.	DRAWN BY JLG

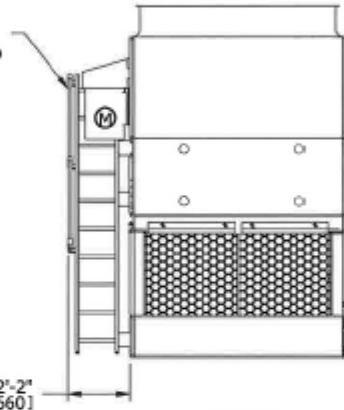
MODEL #	DIM. X	
	FT-IN	[mm]
ATW 102-3J, 3K	3'-4 9/16"	1030
eco-ATWeco-ATWE/ATWB-9-3I12, 3J12, 3K12, 3L12		
ATW 102-4J, 4K	3'-7 5/8"	1106
eco-ATWeco-ATWE/ATWB-9-4I12, 4J12, 4K12, 4L12		
ATW 102-5K, 5L	3'-10 7/8"	1191
eco-ATWeco-ATWE/ATWB-9-5J12, 5K12, 5L12, 5M12		
ATW 102-6K, 6L	3'-10 7/8"	1191
eco-ATWeco-ATWE/ATWB-9-6J12, 6K12, 6L12, 6M12		
ATWB-9-7J12, 7K12, 7L12, 7M12	4'-2"	1270

MODEL #	DIM. X	
	FT-IN	[mm]
ATC 358E, 379E	3'-10 7/8"	1191
ATC 371E, 392E, 409E	3'-10 7/8"	1191
eco-ATC 225A, 264A	3'-8 1/4"	1073
eco-ATC 275A, 324A, 342A	3'-7 5/8"	1106
eco-ATC 310A, 332A, 364A, 384A	3'-7 5/8"	1106
eco-ATC 329A, 410A, 426A	3'-10 7/8"	1191
eco-ATC 359A, 396A, 434A	3'-10 7/8"	1191



**FACE C**

LADDER SHIPS LOOSE FOR FIELD MOUNTING (BY OTHERS)



**FACE B**

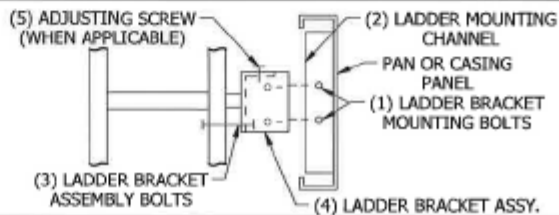
- NOTE:
- REFER TO RIGGING PACK FOR LADDER AND PLATFORM MOUNTING INSTRUCTIONS.
  - DIMENSIONS LISTED AS FOLLOWS: ENGLISH FT-IN METRIC [mm]
  - FAN MOTOR LOCATION

**\*RIG LADDER BEFORE PIPING UNIT\***

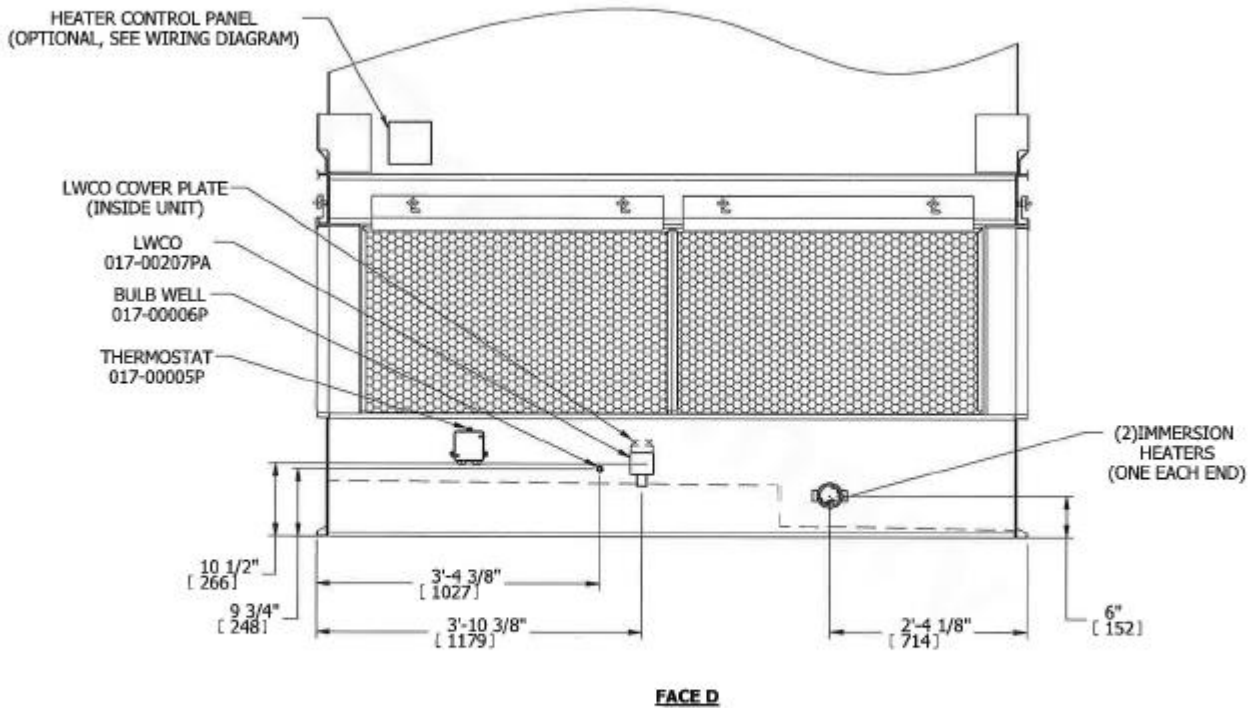
\* THE BOTTOM OF THE LADDER IS AT THE BASE OF THE UNIT. IF THE UNIT IS ELEVATED THEN A LADDER EXTENSION SHOULD BE CONSIDERED. (CONSULT FACTORY). LADDER EXTENSIONS OF UP TO 3 FEET CAN BE ADDED WITHOUT ANY ADDITIONAL SUPPORT. FOR A LADDER EXTENSION LONGER THAN 3 FEET ADDITIONAL SUPPORT MUST BE PROVIDED BY OTHERS.

**CUSTOMER INSTALLATION NOTES:**

- REMOVE LADDER BRACKET MOUNTING BOLTS (1) FROM LADDER MOUNTING CHANNELS (2) ON PAN AND CASING SECTIONS.
- LOOSEN, BUT DO NOT REMOVE, LADDER BRACKET ASSY. BOLTS (3).
- TO ASSEMBLE, SLIDE LADDER BRACKET ASSY. (4) OVER LADDER MOUNTING CHANNELS (2) LOCATED ON PAN AND CASING (DO NOT REMOVE LADDER BRACKET ASSY. (4) FROM LADDER.)
- ALIGN HOLES AND REINSTALL LADDER BRACKET MOUNTING BOLTS (1) THROUGH LADDER BRACKET ASSY. (4) AND LADDER MOUNTING CHANNELS (2).
- TIGHTEN ALL BOLTS.
- TIGHTEN ADJUSTING SCREW (5) IN THE ADJUSTABLE MOUNTING BRACKETS WHEN APPLICABLE.



UNIT	ATWB 9-7M12	<b>EVAPCO, INC.</b> 	DWG. #	HLAW09VO-DB	
TITLE	HEATER LOCATION		SCALE	N.T.S.	DRAWN BY



**NOTES:**

1. A MINIMUM OF CLEARANCE IS REQUIRED BETWEEN THE HEATER, OUTLET BOX AND THE NEAREST OBSTRUCTION FOR REMOVAL OF THE HEATER.
2. ALL NIPPLES ON UNIT ARE NOT SHOWN IN ORDER TO CLARIFY HEATER COMPONENT LOCATIONS.
3. ALL HEATER COMPONENTS BY EVAPCO ARE FACTORY MOUNTED WHEN POSSIBLE.
4. DIMENSIONS LISTED AS FOLLOWS: ENGLISH FT- IN  
[METRIC] [mm]

