|  |  |
| --- | --- |
| Representative: | Representative |
|  |  |
| Project: | Project |

Technical Systems appreciates the opportunity to provide the following equipment for the above subject project. Please review the attached detailed proposal for completeness.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Qty | Customer Tag | Technical Systems Model Number | Price Each | Extended Price |
|  |  |  |  |  |
|  |  | Extended compressor warranty  (5 years total parts only) |  |  |
|  |  | Startup Supervision  (1 tech / 1 trip / 3 days on site) |  |  |
|  |  | Project |  |  |
|  |  | Freight (dedicated haul) |  |  |
|  |  | **Total Sale** |  |  |

**Terms and Conditions**This proposal does not include “Just-in-Time” delivery. If trucks are kept on site for more than (2) hours before being unloaded, additional freight charges will be applied. Payment terms are Net 30 days. This proposal is based on our Standard Terms and Conditions and is firm for an Order placed within 45 days. Freight estimates are FOB Factory.

Pricing above is provided as a Representative Buy / Resale price. Sales or Use Taxes, Rep commission, labor warranties, or any other ancillary costs are not included unless specifically stated.

**Estimated Lead Time**Submittals for approval will be provided **2-3 weeks** after receipt of a Purchase Order, accepted proposal, and appropriate documentation.

Shipment will begin **12-14 weeks** after receipt of written submittal approval and release for fabrication. This production period is an **estimate only** and is subject to change based on actual shop production schedules and parts availability at time of production release.

Please contact the factory to determine actual expected ship dates based on the projects intended construction timeline and date of production release.

|  |
| --- |
| **General Scope of Supply** |
| RAE Corporation self contained unit in general accordance with the enclosed reference to drawings, plans and specifications provided to Seller, and more particularly described in a Submittal to be prepared by Seller and approved by the Customer.  Notes:  1. Refrigerant Charge and POE oil - excluded on split systems  2. ETL and UL labeled equipment.  3. 5,000 amps SCCR rated electrical panel.    **PRICES DO NOT INCLUDE SALES OR OTHER TAXES** |

|  |
| --- |
| General Scope of Work Does Not Include |
| Notes:   1. Labor and refrigerant/oil Warranties. 2. Service or maintenance agreement. 3. Compliance to plans and specifications. 4. Re-connection of wires, pipe or sheet metal at any shipping split. 5. Lifting or rigging of the unit. 6. Unit base frame isolation springs or mounting 7. Startup services 8. Provisions for water treatment equipment (unless specifically noted in the following scope of work.) 9. Water treatment chemicals, initial setup, or service are never included. 10. Passivation of galvanized condenser surfaces during startup.   **PRICES DO NOT INCLUDE SALES OR OTHER TAXES** |

|  |  |
| --- | --- |
| **Project**  **Representative** | |
|  | |
| **Model:** Model | **Quantity: (**Quantity) Identical Units |
| **Design Conditions** |  |
| **Ambient:** Ambient °F WB  **EFT:** EnteringFluidTemperature °F  **LFT:** LeavingFluidTemparature °F | **Solution:** Solution  **Refrigerant:** Refrigerant |
| **Performance (Per Chiller)** |  |
| **Actual Full Load Capacity:** Capacity Tons (GPM GPM) at design conditions  **Actual Full Load Efficiency:** UnitEfficiency kw/ton (compressors, fan motors, spray pumps)  **Evaporator Pressure Drop:** EvaporatorPressureDrop PSI | |
| **Unit Dimensional Data (Per Chiller)** |  |
| **Overall Dimensions:** Dimensions  **Est. Shipping Weight:** ShippingWeight lbs  **Est. Operating Weight:** OperatingWeight lbs | |
| **Electrical (Per Chiller)** |  |
| **Power Supply:** Qty: (PowerSupplyQuantity) Voltage  **RLA:** RLA **MCA:** MCA  **SCCR:** 5000 amps | |
| **Controls** |  |
| **Controls Type:** Digital PLC Controls  **BMS Communication:** ControllerCommunication  **Control Voltage:** ControlVoltage  **Flow Type:** Constant Flow Only  **Minimum Ambient:** +35 deg F | |

**Selected Features**

**Partial List of Contractor Responsibilities**

\*The following notes are not all inclusive and are not intended to relieve the installing contractor if its responsibilities. By providing this document, we do not accept any responsibility for the proper installation or operation of the equipment

General

* Inspection and acceptance of freight delivery at rigging yard to ensure the equipment has not been bent, twisted, or damaged during shipping, rigging, or installation.
* Performance of a refrigerant & oil leak check upon initial acceptance of delivery
* Accounting of all ship loose parts received and stored as per the manufacturer’s instructions
* Check tightness and torque of all electrical connections loosened in transit
* Additional transport, storage, or off loading of equipment after initial acceptance of delivery
* Protection and proper storage of equipment and repair of damage from improper storage and handling
* Provision and installation of external unit vibration isolation, external support steel, or curbs as required
* Installation of equipment with adequate room for safe startup and service access as well as sufficient airflow supply as to prevent the risk of recirculation of air.
* Provide technicians to perform startup of the equipment with supervision and training by factory personnel. Complete any additional tasks set forth by the RAE Corporation Startup Checklist two weeks before scheduling of the factory technicians.
* Any additional responsibilities contained in the specification documents

Electrical and Controls Integration

* Provisions and installation of main 3 phase power connection to each chiller with the proper voltage and connection quantity according to the approved submittal documents and power draw of the chiller
* Provision of separate control power connection if control transformer is not provided by manufacturer.
* Installation and termination of all interconnecting wiring noted on the manufacturers wiring diagrams
* The BMS contractor must have obtained and read the relevant publications from the manufacturer pertaining to whichever protocol he will use before attempting to read / write points to the equipment controller
* Ensure that the BMS contractor is complete in all aspects of his communication and submit any questions to the manufacturer well in advance of startup.
* Hardwire connection between standalone chiller controller and building management system. (Applies only if the appropriate BACnet, or Modbus gateway has been furnished by TSI)

Fluid Piping

* Provisions and installation of Supply/Return fluid connections, and any required water makeup and drain connections according to the approved submittal documents.
* For Evaporative Condenser products, the installing contractor must provide water makeup piping sized to provide the maximum design condenser water makeup rate at a pressure between 20-50 PSIG. Inadequate supply may result in loss of capacity and / or safety trips.
* Flushing, filling, cleaning, and pressure testing of the fluid system with the correct type and quantity of glycol as well as completion of flow balancing in all lines prior to date of startup.
* Installation and wiring of required control valves not provided by manufacturer. Installation and wiring of any noted ship loose parts provided by the manufacturer and installed per their recommendations.
* Ensure any chilled fluid bypass valves are not located near the refrigeration system.

Refrigerant Piping (split systems)

* Reconnection and installation of refrigerant piping following ASHRAE and industry standards for refrigerant line sizes, trap selection for vertical risers, pitch of horizontal lines, etc…
* Pressure testing of 24 hours with dry nitrogen followed by full evacuation to 500 microns to ensure a leak free and moisture free system. The vacuum must be broken with the system refrigerant.
* Provision and installation of the required refrigerant and oil according to the proper type and quantity of charge required for proper operation.

**Terms and Condition of Sales:** RAE Corporation, (Seller) hereby accepts your order with the condition that this acceptance by us is expressly made conditional on assent by you to all terms and conditions set forth below not withstanding that they be an addition to or different from those contained in your order. Acceptance by you of any of the material covered by this order or failure to give notice objections to any of the terms set forth herein within ten (10) days of the date hereof shall be deemed to be assent by you to these terms and conditions. It is understood and agreed that the terms and conditions contained herein constitute the complete and exclusive statement of these terms and supersedes all prior communications between the parties with respect to the equipment described on the reverse side hereof.

**DELIVERY:** Deliveries shall be made F.O.B. Seller's factory, Pryor, Oklahoma. Title (subject to any lawful reservation of Seller's security interest) and risk of loss shall pass to the Buyer upon delivery at F.O.B. point. All estimated lead or shipping times are computed by receipt from the Seller of all details pertaining to the order essential to its proper execution and where applicable, the Buyer's release of the materials for Fabrication and shipment. Lead or shipping times are approximate only, and the SELLER SHALL NOT BE HELD LIABLE FOR ANY LOSS, DETENTION OR DELAY CAUSED BY FIRE, STRIKE, CIVIL OR MILITARY AUTHORITY, INSURRECTION OR RIOT, BY FAILURE TO SECURE THE MATERIALS FROM USUAL SOURCES OF SUPPLY OR ANY OTHER CIRCUMSTANCES BEYOND THE SELLER'S CONTROL WHICH SHALL PREVENT THE SELLER FROM FABRICATION AND OR SHIPMENT IN THE USUAL COURSE OF BUSINESS. Seller is not released from making neither shipment nor the Buyer from accepting delivery when the causes interfering with delivery have been removed. The Buyer agrees to accept delivery of any part or all of the material upon completion of same and failure of the Buyer to furnish Seller shipping instructions shall in no way alter the terms of the payment of the Seller's invoice for the material offered for delivery. Buyer agrees to pay for the goods notwithstanding the fact that Buyer may be unable to receive or provide suitable storage space for any partial delivery. If stored by Seller, Buyer agrees to pay storage charges to Seller as may be requested by Seller.[[1]](#footnote-1)

**TERMS OF PAYMENT:** Except to the extent credit terms are expressly agreed to by the Seller in writing, invoices shall be due and payable in United States funds Net 30 from date of Invoice. In the case of refusal or inability of the Buyer to pay the invoice within this term or upon those terms which Seller has so agreed to, the Buyer shall be responsible for all additional expenses incurred for freight, express, storage, handling, demurrage or other expenses reasonably incurred. In the event credit terms have been expressly extended to the Buyer, the Seller reserves the right to charge the Buyer interest at legal rates or other agreed upon rates on any amounts past due under said terms; and in the event the Buyer's financial responsibility, in the judgment of the Seller, becomes unsatisfactory, cash payment or satisfactory security may be demanded by the Seller, and in default of such cash payment or satisfactory security, deliveries hereunder may be discontinued at the option of the Seller and a charge rendered covering the value of any unfinished articles that are being manufactured on this order or contract. In any event, if the Buyer shall be in default in any payment pursuant to his order or contract, Buyer shall be liable to the Seller for the reasonable cost of collections including reasonable attorneys' fees and the cost to file preliminary notices and/or mechanics liens.

**WARRANTIES AND LIMITATION OF REMEDIES FOR BREACH OF WARRANTY:** It is understood and agreed that RAE’s warranties and liability for warranty shall be limited as provided in RAE's standard warranty which shall be attached and included in the terms and conditions of sale. Sample copies of RAE’s standard warranty are available at your request through our Field Sales Representative, by contacting the factory or by going online at [www.rae-corp.com](http://www.rae-corp.com/). Acceptance of these warranties and limitations are a condition of sale. Buyer agrees that his sole and exclusive remedy for breach of warranty shall be as provided in said standard warranty. It is expressly understood that these warranties are made IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE and in consideration of the express warranty herein contained. BUYER EXPRESSLY WAIVES ANY RIGHT TO CLAIM OTHER WARRANTIES EXPRESS AND IMPLIED. It is further understood the Buyer's remedies shall be limited to those provided herein.

**LIQUIDATED DAMAGES DISCLAIMER:** No provisions for liquidated damages in the event of any breach of this contract by the Seller shall apply to this sale, and any provision for liquidated damages shall be of no force and effect unless specifically agreed to by the Seller in a writing signed by an officer of the Seller.

**INDEMNITY:** Buyer agrees that in the event that the equipment purchased hereunder is resold or incorporated in a building owned or to be owned by another person or entity, Buyer will indemnify and defend RAE against any claim by such person or entity to the extent that such claim exceeds the terms of the express warranties provided hereunder.

**SUBMISSION DATA--PLANS AND SPECIFICATIONS:** Seller does not agree that its obligations for the furnishing of equipment hereunder in any manner incorporates any plans and specifications which it has not specifically agreed to in writing. However, in the event Buyer requests certain specifications, it is understood that the Seller shall prepare and forward to the Buyer submission data representing the Seller's interpretation of any such specifications. Acceptance (or failure to object) by the job engineer, design engineer, or other representative of the Buyer, of such submission data shall be an acknowledgment by the Buyer that such data is in complete conformity with any specifications as interpreted by the parties, and all equipment supplied hereunder will be fabricated in accordance with such submission data.

**CLAIMS:** If the Buyer proposes to reject equipment on the ground that such equipment is defective or nonconforming, the Buyer shall notify the Seller of such rejection in writing within ten (10) days from the Buyer's receipt of said equipment. The Seller shall then have the option of reinspection at the point of installation or the Seller's factory before allowing or rejecting the Buyer's claim. Failure of the Buyer to make such claim within ten (10) days of receipt of any materials or equipment shall be deemed to constitute acceptance by him of the equipment and shall be **a** final waiver of Buyers right to make any inspection prior to payment for the equipment and shall also be a waiver of any claim or defect or nonconformity which reasonable inspection prior to payment could have revealed. Expenses incurred in connection with claims for which the Seller is not liable may be charged to the Buyer. No claim for expenses incurred by the Buyer will be allowed for corrective work done upon the equipment covered hereunder unless specifically agreed to by the Seller in a writing signed by an officer of the Seller. Defects that do not impair service shall not be cause for rejection by the Buyer. Except as provided under these terms and conditions, no claim will be allowed for freight damage concealed or unconcealed, misuse, misapplied or faulty installed equipment or any liabilities, expenses or costs incurred by the Buyer with respect to this equipment including, but not limited to, liabilities, expenses or costs incurred due to obligations owed by the Buyer to other parties. Where the Buyer furnishes material or specifies material not manufactured or normally used by the Seller and it proves defective or involves expense not contemplated by the contract, the Buyer will pay the Seller for all expenses incurred as a result of such defective materials up to the time of the discovery of the defect.

**ALTERATIONS:** No alterations to the equipment being supplied under this contract, or specifications attached thereto, may be made without the written consent of the Seller. The Seller shall have the right to hold the Buyer liable for additional costs and expenses incurred by the Seller as a result of alterations required by the Buyer. Notice from the Buyer to suspend work, delay delivery or terminate this order shall entitle the Seller to payment from the Buyer for all equipment ready for shipment and all equipment within thirty (30) days of completion and for all costs, direct and indirect, incurred by the Seller on the balance of the order to the date of receipt of such notice.

**EXCLUSION OF INFRINGEMENT WARRANTY:** The Seller does not make any warranty, and no warranty shall be deemed to exist, that the Buyer shall hold the material and equipment free of the claim of any third party by way of patent infringement, trademark infringement or the like.

**FAIR LABOR STANDARD:** All items covered by this proposal will be produced in compliance with Fair Labor Standards Act of 1938 as amended.

**PRICE CHANGES:** THIS ORDER IS SUBJECT TO PRICE ESCALATION IF NOT RELEASED BY THE CUSTOMER IN TIME TO PERMIT SHIPMENT WITHIN SIX MONTHS FROM DATE OF THIS ACKNOWLEDGMENT (SELLERS CUSTOMARY FABRICATION LEAD TIME IS EIGHT WEEKS). ESCALATION SHALL BE A PRICE WHICH IS THE LOWER OF THE NET PRICE COMPUTED ACCORDING TO SELLERS PRICE ANNOUNCEMENT IN EFFECT AT THE TIME OF SAID SHIPMENT OR THE AGREED UPON PRICE INCREASED BY 1%, PER MONTH FOR EACH MONTH PRORATA FOLLOWING THE DATE SIX MONTHS FROM SAID ACKNOWLEDGMENT UNTIL THE EQUIPMENT IS SHIPPED.

**ERRORS:** Stenographical and clerical errors subject to correction.

**TAXES:** The amount of any present or future sales or other tax, Federal, state or local, which the Seller now or hereafter shall be required to pay, either on its own behalf or on behalf of the Buyer or otherwise, with respect to the material covered by this proposal shall (unless such prices are expressly stated by the Seller to be inclusive of such tax) be added to the prices contained herein and paid by the Buyer.

Effective Date: 03/15/11

1. [↑](#footnote-ref-1)