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| To: | ACCO | Date: March 25, 2021 |
| Attention: | Robert Quinn | Quote #: Q21RD031521\_OC |
| From: | Frank Villarruel fvillarruel@airtreatment.com 949-422-0133 | Revision: 1 |
| **Project Name:** | **Building 1902 – Design Development – Design Package 5.1 (Mech. Schedule Revision, dated August 25th, 2020)** |  |

We are pleased to offer the following equipment for your consideration:

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| **ITEM** | **TAG** | **QTY** | **EQUIPMENT** | **MODEL** |
| 1 | AIC Chiller | **2** | Air-Cooled Chiller(s) | Multistack |
| 2 | P-1, P-2, P-3 & P-4 | **4** | Pump(s) | PACO LCS Series |
| 3 | VFD-P-1, P-2, P-3 & P-4 | **4** | Variable Frequency Drive(s) | ABB ACH580 Series |
| 4 | AHU-1 | **1** | Air Handler Unit(s) | AHU’s |
| 5 | B-1, B-2 | **2** | Condensing Boiler(s) | BMK Series |
| 6 | CRAC-7, 8, 9, 10, 13, 14 | **6** | Computer Room Unit(s) | gForce Data Aire Units |

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| 1. **Multistack Air Cooled Chiller(s), Quantity (2):** |

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| **Quantity** | **Model** | **Nominal**  **Capacity** | **CHW**  **GPM** | **CHW**  **EWT/LWT** | **Ambient** | **Voltage** |
| **AC-1** | ACF090 | 60 tons | 105 | 42/56 | 114F\* | 460V/60/3 |

\*PER ACCO DIRECTION (Plans show 109F Ambient)

**Unit Features:**

* Special Conditions Included:
* 2500ft Elevation
* 20% Glycol
* 114F Ambient
* TT350 Oil-Free Centrifugal Compressors
* R-134a Refrigerant.
* Integrated Refrigerant Cooled variable Speed Drive w/ soft start.
* Direct drive rotating assembly.
* Chiller listed with ETL per UL 1995
* Single point connection for High Voltage Electrical Connection.
* ASME certified horizontal shell & tube heat exchanger
* Evaporated heat exchanger rated to 150 PSI
* Water side connections feature groove type mechanical connections.
* Dual pressure relief w/ isolation Tree.
* Condenser coils fins with 14 FPI herringbone style.
* Sporlan electronic expansion valve controlled via Flexsys Control system.
* Integrated EXV, economizer, and staging valve control included.
* Built In Modbus TCP/IP or RTU Communication. BACnet Gateway

**Other Services:**

* Chiller to ship fully charged
* Factory Run Test Included
* Freight Included
* Start-Up Included (Monday – Friday, Business Hours)
* Owner Training- During Start-up
* 1-Year Parts & Labor Warranty

**Includes 10,000 Hour Luvata Condenser Coil Coating with 8000 Hour UV Light Protection**

**Exclusions to Multistack Chiller(s):**

Unloading, Rigging, Installation, Structural Steel, Concrete Pad, Refrigerant Monitoring System, Sound Test, Couplings for Water Connections, Seismic Testing, Seismic Certification, Seismic Calculations, Spare Parts, Training, Labor or any Materials or Accessories not listed above.

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| 1. **Paco/Grundfos Pump(s), Quantity (4):** |

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| **Line Item** | **Qty.** | **Tag** | **Model** | **Flow** | **Head** | **HP** | **Motor** |
| **#1** | **3** | P-1, 2 | LCS Series | 48 GPM | 100 ft | 5 | ODP |
| **#2** | **3** | P-3, 4 | LCS Series | 105 GPM | 100 ft | 7.5 | ODP |

**Pump Type and Series**

* Bronze Fitted Pump Construction
* Steel Shaft
* Bronze Shaft Sleeves
* Dynamically Balanced Impellers
* Maximum Working Pressure 150 PSI
* 125 # ASA Flanges
* **Premium Efficient Motor- 230/460V/3/60**

**Exclusions to Paco/Grundfos Pump(s):**

Field Alignment, Unloading, Rigging, Installation, Storage, Structural Steel, Triple Duty Valves, Suction Diffusers, Motor Mounting Base, Pump Mounting Base, Inertia Base, Isolation Base, Concrete Pad, Piping, Spare Parts, Control Panels, Seismic Calculations, Control Sensors, Control Transmitters, Training, Labor, Start-Up

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| 1. **ABB Variable Frequency Drive(s) (VFD), Quantity (4):** |

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| **Line Item** | **Qty.** | **Tag(s)** | **HP** | **V/Ph/Hz** | **Model** | **Enclosure** |
| **#1** | 1 | VFD-P-1 | 5 | 480/3/60 | ACH580-VCR-07A6-4 | NEMA 1 |
| **#2** | 1 | VFD-P-2 | 5 | 480/3/60 | ACH580-VCR-07A6-4 | NEMA 1 |
| **#3** | 1 | VFD-P-3 | 7.5 | 480/3/60 | ACH580-VCR-012A-4 | NEMA 1 |
| **#4** | 1 | VFD-P-4 | 7.5 | 480/3/60 | ACH580-VCR-012A-4 | NEMA 1 |

* **NEMA 1 ABB VFD(s) as indicated above**
* **Circuit Breaker**
* **E-Clipse Bypass Includes:**
  + Current Transducers to Protect the Motor from Single Phase Power Conditions in Bypass
  + (6) Additional Digital Inputs and (5) Additional Relay Outputs
  + 115 VAC Contactors – Eliminates Chatter
  + Pass Through I/O – Communication Network Can Control Inputs and Outputs Even if Drive Fails
* Serial Communication Protocols Included: Johnson (N2), Siemens FLN (P1), Modbus RTU or BACnet (MS/TP)
* (2) 0-10 VDC or 4-20mA Analog Inputs,(6) Programmable Digital Inputs
* (2) Programmable Analog Output,(3) Programmable Relay Outputs,
* (2) Independent Integral Programmable PID Setpoint Controllers
* Built-in RFI/EMI Filter
* Integral DC Line Reactor up to 5% Impedance

**VFD Notes:**

1. Harmonic analysis is not included. Given a single line diagram and information relative to the building’s transformer(s), a harmonic analysis can be performed. If further harmonic mitigation is required, it shall be available at an additional cost.
2. VFD’s will ship in individual cartons for mounting by others.
3. Temperature or pressure sensors, wiring, and conduit from VFD(s) to motor(s) are by others.
4. At least (3) separate conduits are required per drive; one each input power, output power and control wiring.
5. Motors for VFD applications should be rated for VFD duty, with an insulation peak rating of 1600 Volts
6. Contact Air Treatment if cable runs are longer than 200 feet.
7. Additional AC Input/output line reactors, chokes and/or other harmonic reducing devices are not included.
8. 25% Restocking fee and cost of freight applies for any returned drives. (Must be in original packing with unbroken seal)
9. **24 hour/day – parts and service availability available at 1-800-365-HELP, ABB’s toll free help line.**
10. **Two (2) Year Parts, Labor and Travel Warranty when Start-Up is documented with ABB, Otherwise One (1) Year Parts Only Warranty.**

**Exclusions to ABB VFD(s):**

Start-Up, LonWorks Cards, Spare Parts, Training, Rigging, Unloading, Storage, Wiring, Sensors, Transmitters, Isolation Transformers, Harmonic Testing, Harmonic Filters, Labor or Any Accessories, Installation, Connections or Materials Not Listed Above

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| 1. **Air Handling Unit(s) (AHU), Quantity (1):** |

**Provide (Qty-1) Units with the Following:**

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| **Line Item** | **Tags** | **Capacity** | **Quantity** | **Voltage** |
| **#1** | **AHU-1** | 15,000 CFM | **1** | 460V/3Ph/60 Hz |

**Construction**

* + Double Wall Construction with 16 Ga. Coated Galvanized and 20 Ga Galvanized Steel Inner Liner.
  + 3,000 hrs salt spray rating on unit casing.
  + 2” insulation under floor with 20 Ga Galvanized Sub-floor (No Internal Coating)
  + 2” Fiberglass Insulation in Walls, Roof.
  + Structural Steel C Channel Base Rail

**Filters**

* 2” MERV 8 Pre-Filters (one set only)
* 4” MERV 13 Final Filters (one set only)
* 2” Pleated Carbon Filters (one set only)
* 16 Gauge G-90 Side Load, galvanized filter rack,
* Dwyer Series 2002 Magnehelic Gauges surface mounted

**CHW/HW Coils**

* 5/8" diameter, 0.02” thick copper tubes with 0.02” return bends
* 0.006” thick Aluminum Fins (No Coating)
* 16 Gauge 304 stainless steel casing
* 16 Gauge 304 stainless steel IAQ drain pan (Cooling only)
* UV Lights

**Fan Sections:**

* + Direct Drive Arrangement 4 Plenum Fans
  + Rigid Mount (Spring Isolation not Required)
  + ODP Motors.
  + NEMA 3R VFD’s
  + Single Point Panel for AHU units

**Additional Items**

* VFD’s
* OSA San Louver.
* LED Service lights
* Shipping to San Diego, CA
* One Year Parts Warranty

**ITEMS NOT INCLUDED**

* OSA Air Flow Measurement Station.
* Controls by others
* Smoke Detectors
* Roof curbs
* Valves.
* Sensors.
* Startup by Others.
* Wiring across shipping splits in the field
* Any field testing (air leakage, vibration)

**Additional Exclusions to AHU(s):**

Off-loading, Rigging, Installation, Controls, Storage, Startup, Damper Actuators, Power Control Panel, TXV Valves for Coils, Pressure Switches and Gages, Flow Measuring Stations and Transmitters, Unit Temperature Controls and Sensors, Smoke Detectors, Valves, Installation of Filters, Seismic Calculations, Training, Labor or Any Accessories, Connections and/or Materials Not Listed Above

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| **ITEM #5)** **AERCO CONDENSING BOILERS** |

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| **TAG** | **Qty** | **Model** | **Fuel Type** | **Capacity** | **Electrical** | **Application** |
| **B-1,2** | **2** | BMK750 | Natural Gas | 500 MBH | 120/1/60 | Indoor |

**Equipment Summary**

* 439 Stainless steel heat exchanger with single inlet
* 15:1 Modulating Air/Fuel Valve
* Combination Temperature and Pressure Gauge
* Electric Probe Low Water Cut-Off
* Pressure Relief Valve (shipped loose)
* Condensate Trap (shipped loose)
* Condensate Neutralizer Kit
* Low Water Cutoff
* onAER Wi-fi Module
* Insulated Heat Exchanger
* Manual Reset High Limit with max 210F Setpoint

**Edge’s Integrated BST Controls and Management System**

* Onboard Boiler Sequencing Technology
* Onboard BST header temperature sensor, Dual Bead
* Return Sensor Kit: Dual Bead PT1000 for Modbus or Edge Direct Connect
* Gateway 120V/24V Transformer
* (1) Controller for the (2) boilers

**ITEMS NOT INCLUDED:**

Outdoor Installation, Field Performance Tests, Venting, Sediment Trap, Remote Alarm Assembly, Modbus Interface, Air Vent, All Field Wiring

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| **Item#8) Data Aire Computer Room AC (CRAC) Unit(s), Quantity (6):** |

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| **Tag** | **Qty.** | **Total Cooling Capacity** | **Model** | **Electrical** | **Description** |
| AC-7, 8, 9, 10 | 4 | 6.9 Ton | GFCD-03934 | 460V/3ph/60Hz | Vertical Downflow |
| AC-13, 14 | 2 | 8 Ton | GFCU-03934 | 460V/3ph/60Hz | Vertical. Upflow |

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| **System Description** | |
| * Vertical CHW Unit | * Temperature/Humidity Sensor, Unit Mount |
| * 20% Glycol CHW * Chilled Water Coil * Hot Water Coil * Steam Humidifier * *Front Discharge AC-7,8,9,10* | * Condensate Pump, Unit Pump * EC Fans on Condenser * 2” MERV 8 Efficient Filters * Fused Disconnect * *OSP Rated Factory Upgraded Floorstand* |
| * Zone Master, dap 4 |
| * Thru‑Door Disc Switch **65kA SCCR** * BACnet MS/TP Communication Card, dap4 |
|  | |
| **Also Includes:** | |
| * 1 Year Parts-Only Warranty on All Parts. |  |
| * 42 Mth. Extended Scroll Compressor Warranty, Dual |  |

**Exclusions to Data Aire:**

MERV 13 Filters, Unloading, Rigging, Installation, Labor Warranty, Storage, Structural Steel or Concrete Pad, Control-Balancing or Shut-Off Valves, Piping, Wiring, Spare Parts, Isolation, Seismic Calculations, Connections, Control Sensors, Control Transmitters

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| **PRICING** |

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| **ITEM** | **DESCRIPTION** | **PRICE PER LINE** |
| **#1** | **(Qty-2), Multistack, Air-Cooled Chillers (No OSP Available)** | $244,600.00 |
| *#1a* | *Add: Upgrade to Cu/Cu Condenser Coils* | *+$21,000.00* |
| **#2** | **(Qty-4), PACO, Grundfos Pumps (Not subject to OSP)** | $8,400.00 |
| **#3** | **(Qty-4), ABB, Variable Frequency Drives (Includes OSP)** | $7,100.00 |
| **#4** | **(Qty-1), Air Handling Unit (No OSP Available)** | $80,900.00 |
| **#4a** | **(Qty-1), DOAS-1 (No OSP Available)** | $21,100.00 |
| **#5** | **(Qty-2), AERCO, Condensing Boilers (Not subject to OSP)** | $48,000.00 |
| **#6** | **(Qty-6), Data Aire, Computer Room Units (Includes OSP# Shake Table Test)** | $157,750.00 |

**Please Note:**

* Freight is FOB Factory (freight allowed to first destination)
* Taxes are not included in this proposal
* Price is valid 30 days from date on proposal.
* See attached page for remainder of quotation terms and conditions.

Thank you for the opportunity to offer the equipment and services listed above. We look forward to working with you on this project. If you should require additional information, please contact us.

Sincerely,

Frank Villarruel

Air Treatment Corporation

fvillarruel@airtreatment.com

949-422-0133

**Proposal Acceptance:**

**Accepted By, Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Title:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Ship to Address:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Purchase Order Number:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Total PO Value, Less Taxes:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**TERMS & CONDITIONS OF SALE**

Air Treatment Corporation (hereinafter designated as 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, notwithstanding that they may be in addition to or different from those contained in your order or acknowledgment . Acceptance by you of any of the material covered by this order or failure to give notice of objections to any 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 all such terms, and supersedes all prior communications between the parties, oral or written, as relates to the equipment described on your purchase order. Where any terms herein are contrary to or inconsistent with any terms contained in your purchase order, these terms and conditions shall control. If any item in this agreement is deemed unenforceable, all other items shall remain in force and effect.

**PAYMENT TERMS:** 1% 10 Days/ Net 30 are available upon approval of credit. Acceptance of Purchase Orders does not guarantee payment terms as stated until approved by the Credit Dept. We retain the right to revise all credit terms until said equipment has been shipped. Purchaser agrees to accept responsibility for payment of equipment whether or not payment has been made to purchaser on the project. Should payment not be made in accordance with Seller’s payment terms, purchaser agrees to pay to Seller a one and one-half percent (1 ½%) per month service charge on any unpaid balance due. Any retention for start-up should reflect the actual cost of start-up and not a percentage of the invoice. Prior consent from the Seller is required. No other retention shall be acceptable. No rights of lien are waived.

**ACCEPTANCE:** This quotation is offered for acceptance for a period of 30 days, subject to extension on upon written agreement of Seller in writing. This quotation is subject to revision on notice. In those instances where the Manufacturer reserves order acceptance prerogative, final acceptance shall be so governed.]

**PLANS AND SPECIFICATIONS:** All equipment and/or materials are sold in accordance with manufacturers’ specifications and/or approved submittal data and not necessarily in accordance with “Plans and Specifications.” Seller is a vendor only and is not bound to the contractor under any provisions of general contract provisions including payment terms, retention “hold,” delay, arbitration and/or cancellations provisions. On plan and specification work, any reference to plans and specifications shall pertain alone to the technical portions of such plans and specifications, including the approved submittals, the latter of which shall determine ultimate responsibility and scope of Seller’s obligations. Seller makes no representation as to design, application and/or fitness for a particular purpose.

**LEAD TIMES, DELAY:** Shipment lead times reflect current production schedules based upon current release to production. Seller shall not be responsible to purchaser (or ultimate user) for delays in delivery due to acts of God, strikes, fires, accidents, unavailability of equipment and/or materials, or any other causes beyond Seller’s control. In the event of any such delay occasioned by such events, the date of delivery shall be extended for a length of time reasonably equivalent to the period of the delay, and with no penalty to Seller.

**DAMAGES DISCLAIMER:** No provision for liquidated, incidental or consequential damages in the event of any breach of this contract by the Seller shall apply to this sale, and any provision for liquidated, incidental or consequential damages shall be of no force and effect unless specifically agreed to by the Seller in writing signed by an officer of the corporation. Seller will not accept any back charge without its consent. Seller shall not be liable to purchaser for costs, damages, expenses or consequential damages arising out of, or resulting from, the purchase or use of equipment and/or materials, or claims made under Manufacturer’s written Limited Warranty.

**DELIVERY:** All shipping information is approximate, and shipping dates are based on prompt receipt of all necessary information at Manufacturers’ plant. Deliveries shall be made FOB manufacturers’ factory. Title and risk of loss shall pass to the Buyer at FOB point. Buyer agrees to accept delivery of any part or all of the manufactured 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 Seller’s invoice. Seller shall not be responsible for any storage for any reason unless agreed to in writing before such action is deemed necessary. Where an allowance for freight is included, only the first destination will be allowed. In no event shall Seller be liable for special or consequential damages due to delay.

**REQUIRED DELIVERY SCHEDULE:** Seller and Purchaser agree that for a “required delivery schedule” to be binding upon Seller or Seller’s source of supply, a separate written confirmation to purchaser, confirming the required delivery schedule, must be provided to be binding on either Seller or Seller’s source of supply.

**CLAIMS:** Buyer shall notify Seller in writing, within (10) days of delivery if equipment is defective or nonconforming. Seller shall have the option of reinspection before allowing or rejecting the Buyer’s claim. Failure to make such claim within ten (10) days of delivery shall constitute acceptance. Expenses incurred in connection with claims for which the Seller is not liable will be paid by Buyer. Any claim for corrective work done upon the equipment covered hereunder must be approved beforehand, in writing, and signed by an officer of the Seller. Defects that do not impair the operation or performance of the goods provided shall not be cause for rejection by the Buyer.

**CHANGES, CANCELLATIONS, RETURNS:** Notice from the buyer to suspend work, delay delivery or terminate this order shall entitle Seller to payment from the Buyer for all costs, direct and indirect, incurred by the Seller on the balance of the order to the date of receipt of such notice, and which, in the event of cancellation of such order, shall result in payment to Seller of an amount not less than 15% of the face amount of the order. Any return for goods and equipment must be authorized by the Seller or Seller’s source of supply and may be subject to restocking and/or other incidental charges. All orders placed on hold must be the subject of written amendment to the purchase order, and must detail the parties’ agreement regarding storage arrangements and costs.

**TAXES:** Purchaser agrees to pay all sales, excise or other taxes, which may be applicable to the sale of the equipment and/or materials.

**WARRANTY:** It is understood and agreed that the only warranty the subject of this order shall be the Manufacturer’s written Warranty in effect at the time of shipment, and as specifically relates to such equipment the subject of this order, and which Seller shall supply to Buyer. Buyer acknowledges there are no implied or expressed warranties by Seller, other than those of the Manufacturer, and in no case will the amount of the warranty or liability exceed the amount of the order. Seller accepts no consequential liability of any nature, and in no case will Seller be liable for damages beyond the purchase price of the defective items. Further, Buyer agrees to defend, indemnify and hold harmless Seller, from and against any and all Claims of Damage(s), Expense(s) Cost(s) or Consequential Damages alleged or claimed by virtue of the equipment. Buyer agrees that in the event of an alleged Warranty Claim made, either through Buyer or Buyer’s customer, or otherwise, which in truth and fact turns out to be a Non-Warranty item and is attributable to the acts of others, failure to maintain equipment, or other reasons not the fault of the Manufacturer or Seller, that Seller and/or Manufacturer shall be reimbursed in full by Buyer for all expenses incurred in ascertaining the alleged Warranty Claim, including all legal costs and fees incurred.

**DISPUTES, ATTORNEY’S FEES:** In the event Seller is compelled to bring any action to enforce any part of these Terms and Conditions including, but not limited to, any action to collect monies due hereunder, purchaser agrees to pay Seller’s reasonable attorney’s fees and costs. In any proceeding to enforce these Terms and Conditions, the law of the State of California shall control, and venue shall be deemed proper only in any court of competent jurisdiction in the County of Orange, California.