

HVAC & CONTROLS

Design Installation Service

CENTRIX, LLC. MIST COLLECTOR DUCTING INSTALLATION

AUBURN, WA

DESCRIPTIVE DESIGN PROPOSAL

1/9/2015

INSTALL KIRK & BLUM CLAMP-TOGETHER OIL MIST DUCTWORK, PER ERL SKETCH, AS FOLLOWS:

1. RE-USE ONE (1) EXISTING ABSOLENT MIST COLLECTOR UNIT (Assumed size 4,700 CFM).

- a) Equipment and ductwork sized by Avani Environmental
- b) Motor starters and electrical hook-up by others.
- c) It is ERL's assumption that the existing units are in operable condition.
 - i) No service or warranty work has been included in this proposal.
- 2. **DUCTWORK** distribution designed by ERL and supplied by Avani Environmental.
 - a) Ductwork to be KB clamp-together components intended for Oil Mist
 - All ducting components including pipe, clamps, elbows, sleeves, gaskets, transitions,
 dampers, adapters, and branch fittings are to be provided by Avani Environmental
 - b) Ductwork hangers provided by ERL
- **3. ADAPTER PLATES** Twelve (12) 18 GA Sheet Metal Adapter Plates for existing CNC Mist Collector rectangular holes.
- 4. MECHANICAL DRAWINGS by Avani Environmental
- 5. START-UP AND COMMISSIONING By Avani Environmental.
 - a) Assitance provided by ERL.
- 6. ONE-YEAR PARTS AND LABOR WARRANTY only on materials and equipment provided by ERL.
 - a) Warranty service provided by Evergreen technicians.
 - b) No warranty or service work on <u>existing</u> equipment, ductwork, or controls

CENTRIX, LLC. DESCRIPTIVE DESIGN PROPOSAL - CONTINUED Evergreen Refrigeration, LLC 1/9/2015

EXCLUSIONS:

- Disconnection and removal of existing electrostatic mist collectors
- Prevailing wage labor rates or off hours labor rates
- Warranty or service work on existing equipment or controls
- All Ductwork & Transitions
- Mist collection equipment
- Low voltage wiring for Fire Gate System
- Assembly of Mist Collector Equipment
- Locating and anchoring of mist collectors
- VFD's or motor starters
- Drafting
- Permit fees and filing.
- Dampers and baffles to CNC machines.
- Hole cutting at CNC machines (to be provided by owner)
- Electrical hook up (ERL will attach VFD's supplied by others to machine)
- Equipment pads, access panels, screening, and/or safety rails
- Fire Dampers & fire/smoke dampers
- Line voltage electrical, starters, interlocks, disconnects and control conduit
- Drain piping and connections for coolant waste at bottom of machine
- Third party air balancing
- Structural and seismic calculations or modifications for units or ductwork
- Insurance coverage beyond \$3,000,000.00 individual, aggregate, etc. liability or bond
- Sales tax

Note: A materials list is being provided by ERL with this quote. Avani is to deliver components as specified by ERL after approval of final layout & design.

<u>A KB list price of \$ 14,750.00 should be used when accounting for KB ductwork.</u> No ductwork is included in this proposal.

ALTERNATES TO BASE PROPOSAL/CONTRACT

ALTERNATE #1- ADDITIVE:

ADD TO THE BASE PROPOSAL **ONE (1) ROOF MOUNTED EXHAUST FAN** rated for 600 CFM to exhaust air from one machine room and one chemical storage room. The fan is not rated for hazardous environments, is not explosion proof, and does not include an explosion proof motor. Assuming each room size is approximately 12' x 15' x 10' tall (1,800 FT3), 600 CFM @ 300 CFM per room will provide 10 air changes per hour. **Price includes:**

- 600 CFM Exhaust fan with roof curb, backdraft damper, and variable speed control.
- Filter plenum boxes with filter for each room
- Spiral ductwork to connect filter boxes to roof hood plenum
- Labor to install the above.

ADD TO THE BASE PROPOSAL......\$ 3,547.00.....EACH......\$

APPROVAL (Please Initial)

YES NO DATE

ALTERNATE #2- ADDITIVE:

ADD TO THE BASE PROPOSAL **TO PROVIDE SUMMER WINTER DIVERTER VALVE** and including ductwork, transitions. And weather rated roof hood for exhaust. The diverter is manually operated and constructed of galvanized steel.

ADD TO THE BASE PROPOSAL.....\$ 4,782.00.....\$

YES

APPROVAL (Please Initial)

TOTAL ALTERNATES \$

NO

DATE

BASE PROPOSAL	\$	13,910.00
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NEW PROPOSAL/CONTRACT TOTAL \$_____

NOTE: EXCLUSIONS ARE THE SAME AS THOSE ON THE BASE PROPOSAL.

This offer of alternates to the base proposal / contract may be withdrawn by us if not accepted within 30 days.

AUTHORIZED SIGNATURE		
	Evergreen Refrigeration, LLC.	Date
AUTHORIZED SIGNATURE	Purchaser / Buyer	Date
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