

ARK CITY **SERVICE**

Air Conditioning • Heating

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Cowley County Humane Society
7648 222nd Rd.
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Proposal for the replacement of the commercial packaged ventilation, heating, and air conditioning system serving the large dog kennel area as requested. Proposal Includes:

Base Bid:

- Remove and dispose of the existing packaged commercial ground mounted ventilation, heating and air conditioning unit currently installed below the open air shed/roof structure east of the facility.
- Provide and install a new Trane commercial packaged ventilation, heating, and air conditioning unit as requested to provide the necessary outside ventilation of the dog kennel space. This unit will be a "Precedent" model manufactured in the USA. Unit will include a stainless steel gas fired heat exchanger with a modulating burner achieving a turndown ratio of 10:1. This unit will include a 100% outside air economizer set with a minimum ventilation setpoint of 50%. This economizer will modulate to 100% and provide added ventilation when outdoor weather conditions will allow without using additional utility expense to heat/cool excess ventilation air. The cooling system will operate on refrigerant R454b and will be staged with dual compressors to achieve desired discharge air temperatures.
- Provide service and inspection of the existing building exhaust system serving the large dog kennel areas. Replace drive belt and lubricate blower and electric motor bearings.
- Verify digital controller properly operates the Variable Frequency Drive (VFD) serving the exhaust system based on building pressure. Ensure new make up air ventilation system will integrate with the existing building exhaust and pressure control system.
- Provide necessary control and power wiring connections to replacement unit.
- Provide natural gas piping connections to proposed system.
- Provide technician labor for startup services and warranty for a period of 1 year from startup.
- Trane will provide 5 year compressor, 10 year heat exchanger, and 3 year parts warranty. Warranties are subject to the manufacturer's terms and conditions.
- Materials and labor for installation included.

Base Bid Project Total: \$44,539 plus sales tax (if applicable)

Alternate #1:

The existing unit is located on the east side of the facility under the roof of an open air shed. This location meets the requirements for bringing in outside ventilation air to the interior kennel space, however, this location is basically within a "washdown" area of the facility and is subject to extreme odors. The ventilation air being brought in from a unit in this location is not as fresh and clean as we would prefer to see for a facility of this type. We feel relocation of the unit further away from the washdown area and out from beneath the roof structure would allow for better quality of ventilation air to be utilized. The "Alternate #1" is for relocating the unit previously quoted within the "Base Bid" to the south end of the open air shed/roof structure. This Alternate #1 includes:

- Concrete slab for new packaged commercial unit including 4000psi ready mix concrete, rebar reinforcement at 16 inches on center, form boards, and labor for concrete finishing.
- Relocation of existing 3-phase power wiring circuit to proposed unit location
- Extension of natural gas piping to the proposed new location.
- Supply and return ducts will be routed from the new unit location beneath the roof structure. Ducts will be held tight to the bottom chord of the trusses. Ducts will be shop fabricated sheet metal for the pressure class required by this unit. All new duct will be fully insulated and sealed weather tight.
- Materials and labor for relocation of the proposed unit included.
- Excludes: Rework of chain link dog pen fencing as necessary.

Alternate #1 Project Total: Add \$15,438 to the base project total.

Alternate #2:

- Provide and install a more robust and heavy duty packaged commercial ventilation, heating, and air conditioning unit in lieu of the proposed Trane "Precedent" model.
- Alternate #2 unit will be manufactured by Greenheck Corporation as a "Valent" commercial packaged system.
- Alternate #2 unit will be custom made to our specifications and include the additional following features not included with the Base Bid model:
 - Dual wall cabinet with 2" thick foam filled insulation.
 - Hinged service access panels.
 - Variable capacity scroll lead air conditioning compressor in lieu of staged.
 - Hot gas reheat coil and controls to allow for some dehumidification during cooling season.
 - Direct drive plenum supply fan with a factory installed variable frequency drive.
 - Prorated warranty: 5 year compressor, 1 year parts, 25 year heat exchanger. Warranty is subject to the manufacturer's terms and conditions.

Alternate #2 Project Total: Add \$29,222 to base project total.