Marshall MS Beaumont ISD Walk-in cooler / Freezer Replacement

Whenever product(s) and/or material(s) are referred by BISD in this solicitation by describing a proprietary product or by using the name of a manufacturer or brand name, the term “or equal” if not inserted shall be implied, as applicable.

Delivery & Installation:
Shall be coordinated with the Beaumont ISD Director of Child Nutrition, Mary Ellen Vivrett. Delivery and installation are expected to take place during the District closure of Thanksgiving Break (November 24 – November 28). Any changes or updates to delivery and installation dates shall be approved by BISD Child Nutrition Director.

ITEM #	**1**
DESCRIPTION:	**WALK IN**
QTY REQUIRED:	**1**
MANUFACTURER:	**AMERICAN PANEL CORPORATON (or equal)**
MODEL #	**211446**

American Panel Two Compartment Walk-In, model #211446 . Overall exterior dimensions to be 13'-11.75" X 27'-10.5" X 8'-10" high. Freezer interior dimensions to be 13'-3.75" X 13'-5.25" X 8'-2.25" high with 4" Insulated Floor. Interior floor finish to be 1/8'' Diamond Aluminum Treadplate (Intg.). Cooler interior dimensions to be 13'-3.75" X 13'-5.25" X 8'-2.25" high with 4" Insulated Floor.Interior floor finish to be 1/8'' Diamond Aluminum Treadplate (Intg.). Interior wall finish to be .040 white stucco alum., interior ceiling to be 20 ga. USDA white smooth galv. steel, exposed exterior to be 26 ga. stucco acrylume, unexposed exterior to be 26 ga. stucco acrylume.

(2) 34 '' X 77 '' flush mount magnetic infitting door with cam-rise hinges, padlockable deadbolt handle (exterior doors only), door closer, brushed hardware, frame heater wire, dial thermometer, vapor proof light and switch with pilot light.

Accessories to include:
(1) Vinyl Membrane Rain Roof, Flat (201-400 sq ft), Two Room
(1) One-Way Pitch (Sloped 1/4"/ft.) (201-400 sq ft), Two Room
(8) Snowload C-Channel 14 Ga. Galv. Reinf. in Ceiling Panel (per panel, 11'-7.125" to 14'-0")
(420) 20 ga. Galv. St. repl. Ext. 26 ga. Acrylume. (Snowload Roof ext., >9'-8" & <11'-7")
(420) 20 ga. Galv. St. repl. Int. 26 ga. Acrylume (Snowload Roof int., >11'-7" & <14'-0")
(420) 3/4" Plywood Underlayment in Floor Panel (not available with 2" floors)
(14) Roof Support Angle at Partition Wall (w/ Beauty Trim & Fiberglass Allthread)
(1) Floor Ramp, Exterior (24" deep) for up to 36" door
(2) Audio Visual Temp. Alarm, Modularm 75LC Multi-Monitor (replacing System 100)
(2) Panic Switch and I/S Light Switch for Modularm 75LC Multi-Monitor (IP-1)
(1) Enclosure (VJB606HWPL1) & Aluminum backing plate (MP606A) for Surface Mounted Modularm 75LC
(6) LED Light Fixture, Cooler & Freezer, 48" 2-lamp (-40°F or higher operating temp.)
(1) Foot Treadle (Dent D-82)
(4) Door Kickplate, 1/10" aluminum treadplate, 36" High, <37" Door
(174) 36" High Wall Protection (wainscot), 1/10" alum. treadplate
(1) Heated Pressure Relief Vent, 120 volt - Model 1832-4
(1) HPRV #1832 (4" diam.)
(1) Door Locking Bar, 2 pc., 12 ga. S/S (1/8" thick)
(1) Door Rain Cap
(2) Flex. Strip Curtain, up to 36" x 77" Opening

Refrigeration System #1 (by RDT) to have a system capacity, sized for a walk-in heatload of 9,332 BTUH.

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Refrigeration System #2 (by RDT) to have a system capacity, sized for a walk-in heatload of10,518 BTUH.

American Panel insulated panel products are warranted for a period of ten (10) years after date of installation. Component parts supplied by American Panel are warranted for a period of one (1) year after date of installation

ITEM #	**2**
DESCRIPTION:	**REFRIGERATION SYSTEM, REMOTE**
QTY REQUIRED:	**1**
MANUFACTURER:	**RDT (REFRIGERATED DESIGN TECHNOLOGIES) (or equal)**
MODEL #	**ECO COOL**

Model No. BEL0115
Quantity: 1
Electrical: 115v/1ph
Evaporator coils shall be a direct expansion type. Evaporators used will be all "Underwriters Laboratory Listed" supplied from factory with an electronic expansion valve, solenoid valve and Eco-Smart on-demand defrost controller, pre-wired and pre-piped under nitrogen pressure and designed for use with the refrigerant specified.

WALK-IN FREEZER EVAPORATOR COIL
Model No. BEL0155
Quantity: 1
Electrical: 208v/1ph
Evaporator coils shall be a direct expansion type. Evaporators used will be all "Underwriters Laboratory Listed" supplied from factory with an electronic expansion valve, solenoid valve and Eco-Smart on-demand defrost controller, pre-wired and pre-piped under nitrogen pressure and designed for use with the refrigerant specified.

REFRIGERATION RACK SYSTEM
Model No. ZS1-02Z-CT3-AST as manufacturer by Refrigeration Design Technologies (RDT)
Quantity: 1
Electrical: 208-230v/3ph
The RDT UL-Listed horizontal discharge, air-cooled rack system designed for outdoor installation. The unit shall be pre-wired for a single point electrical connection with a main non-fused disconnect. The refrigeration unit shall be housed in a weather-protected compact structural galvanized steel frame. The unit shall include individual dedicated air-cooled condensers. Condensers shall have aluminum fin/copper tube with designed to operate at 15 degrees TD. The exterior housing shall feature stainless steel with one-piece stainless-steel louvers. The entire galvanized metal frame shall be pre-assembled, welded and cleaned. Lifting points shall be integrated in the feet at each corner to facilitate installation. Condenser fan motors shall be mounted within the enclosure.

All compressor units shall be scroll type and factory assembled to operate with R-448a refrigerant.
- Walk-In Cooler system (A) to have a 2.0 HP scroll compressor.
- Walk-In Freezer system (B) to have a 6.0 HP scroll compressor.

Compressors and refrigeration piping will be installed in such a manner as to eliminate noise with vibration eliminators in refrigeration lines, as needed.

Each compressor unit shall be equipped with a ball-bearing fan motor, fixed head pressure control, suction filter, liquid line sight glass, liquid line drier, crankcase heaters, heated and insulated receivers, headmaster controls and fan cycling, liquid line inlet and outlet valves, defrost cycle and armored super hose connections (in lieu of capillary tubes).

All refrigerant lines shall be extended to one side of the package in a neat and orderly
manner. All tubing shall be securely supported and anchored with non-corrosive coated clamps. All joints must be

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brazed, not soldered. All piping and controls shall be factory pressure-tested with nitrogen at 175 PSI.

All field piping installed as per factory standards and the sizing of the piping shall meet proper velocities as per factory standards. Insulation will be foam type 25/50 smoke and fire type. Medium temperature will use 3/4" thick wall, low temperature will use 1" thick wall and sub-cooled liquid lines will use 1/2'' thick wall insulation. All insulation shall be jacketed with Aluminum (complying with division 15000,) 1-1/2" overlap and secured with wire "zip" ties. All jacket elbows to be roll formed. All field piping installed with plastic bushing wherever steel to copper tubing comes together. Include all labor, material, equipment, tools, refrigerant, oil, and other required accessories for the complete installation of the systems as shown and specified. Interconnection of all accessories accomplished for ease of servicing.

After installation and before charging, evacuate all piping systems to a 500-micron evacuation. After evacuation, charge system with nitrogen and maintain pressure of 150% working pressure for 6 hours. Cap off, install pressure gauge and hold for 24 hours minimum. Re-evacuate, hold for 6 hours, charge and make electronic detector test all joints.

Final wiring of connections, conduit and/or pull boxes, provided under applicable electrical and plumbing contracts. See R-1 drawing for wiring schematic for field wiring.

WARRANTY AND SERVICE:
Included shall be a full two (2) year warranty for all parts and labor by factory on the entire refrigeration package and four (4) year warranty on the compressors, from the day of final acceptance of the installation as previously specified.

ITEM #	**3**
DESCRIPTION:	**TURN KEY INSTALLATION**
QTY REQUIRED:	**1**
MANUFACTURER:	**PROKITCHEN INSTALLATIONS (or equal)**
MODEL #	**INSTALLATION**

Full Turn Installation:
- Factory approved / authorized installation of walk-in in compliance with local municipal code and guidelines.
- All work to be performed during normal business hours.
- Disconnect existing utilities from the walk-in.
- Remove and dispose of existing walk-in off site.
- Electrical modifications to accommodate new walk-in.
- Receive, deliver and install new walk-in per manufacture specifications.
- Start up and functional test new walk-in and all equipment.
- Rep to perform operator training to Beaumont ISD staff