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EQUIPMENT SPECIFICATIONS

CRAFCO EMULSION STORAGE TANKS

DECEMBER 2006

SCOPE The emulsion tank shall be furnished complete and ready for satisfactory operation. The unit bid herein will be the manufacturer's latest current production model. Complete detailed specifications with advertising literature sheet shall be furnished with the quotation on the IDENTICAL tank proposed. Any information necessary to show compliance with these specifications not given on the advertising literature sheets furnished with bid shall be supplied in writing and attached to the bid proposal. Unit shall meet or exceed the MINIMUM requirements described herein.

TANK Tanks shall be vertical type and pressure tested for storage of emulsified asphalt and oils. Tanks are manufactured with an offset seam and a series of welds inside and a full seal weld pressure tested outside. They shall be fabricated of minimum 7-gauge steel. Insulation shall be a minimum thickness of 3 inch R-11. R-13 available. Tank shall have primer coat and be painted black. Tank shall be supplied with one side mount manhole access. Tank shall come complete with 10 gauge steel secondary containment shell with 2" monitor pipe and leak detection site glass. There shall be a 5-inch dial side mount material temperature gauge.

	2000 GALLON CAPACITY	3000 GALLON CAPACITY	4000 GALLON CAPACITY	5000 GALLON CAPACITY	6000 GALLON CAPACITY	8000 GALLON CAPACITY	10000 GALLON CAPACITY
TANK							
Minimum diameter and minimum height	64" X 12'	7' X 11'	7' X 14'	7'6" X 15'	7'6" X 18'	8' X 21'	9' X 21'
Shall have minimum drop cone bottom for solids retention.	2"	3"	3"	4"	4"	5"	6"
7-gauge steel construction	Side/top	Side/top	Lower 5' of side 1/4" w/ balance & top 7 -gauge	Lower 6' of side 1/4" w/ balance & top 7 -gauge	Lower 6' of side 1/4" w/ balance & top 7 -gauge	Lower 6' of side 1/4" w/ balance & top 7 -gauge	Lower 6' of side 1/4" w/ balance & top 7 -gauge
steel bottom	7 gauge	7 gauge	1/4 inch.	1/4 inch.	1/4 inch.	1/4 inch.	1/4 inch.

HEATING ELEMENT The tank shall have heating elements of 6,000 watts and 220 volts. Elements shall be placed in schedule 40 housing positioned inside the tank which are 60" long and

located 8" below the 24" liquid manhole access. Heating elements shall be removable without draining the tank or removing the tank cover or the insulation.

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HEATING ELEMENTS							
6,000 watts/220 V/25 amps	2	2	2	2	2	3	3

BALL VALVES There shall be a minimum of two 3-inch ball valve for material loading and unloading located at or near tank.

STEEL STAND The bottom of tank must be a minimum of 5 feet above ground level for gravity loading of equipment.

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STEEL STAND							
Beam legs and Base plates	(4) 4" 13# WF beam legs & 8" X 8" X 1/2" base plates	(4) 6" 20# WF beam legs & 10" X 10" X 1/2" base plates	(4) 6" 20# WF beam legs & 10" X 10" X 1/2" base plates	(4) 8" 31# WF beam legs & 12" X 12" X 1/2" base plates	(4) 8" 31# WF beam legs & 12" X 12" X 1/2" base plates	(4) 10" 45# WF beam legs & 14" X 14" X 1/2" base plates	(6) 8" 31# WF beam legs & 12" X 12" X 1/2" base plates

HOSE Hose shall be a minimum 3-inch ID, 12 foot long loading hose shall be provided with tank.

AGITATION SYSTEM Top mounted, worm gear drive electric motor, single phase, 110 or 220 volt, shall be provided with HP size based on mixer size.

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AGITATION SYSTEM							
Minimum shaft diameter	1 3/4"	1 1/2"	2 3/8"	2 3/8"	2 7/8"	2 7/8"	2 7/8"
Impeller shall be HyFlow II with specified diameter	24"	32"	33"	33"	34"	45"	45"
Impeller to operate at non-variable speed maximum of specified RPM	70 RPM	58 RPM	58 RPM	44 RPM	58 RPM	44 RPM	44 RPM

WARRANTY The manufacturer's usual warranty shall apply and will be in effect for at least one year. Bidder shall provide warranty information with bid proposal.

OPTIONS

- 18, 20, or 24 inch bolted top manhole
- 18, 20, or 24 inch hinged manhole
- Top rail with toe plate
- 4 inch internal overflow pipe
- Low sensor to keep mixer from operating
- Low temp sensor to keep mixer from operating when oil is cold
- High level alarm
- Timer for mixer with battery back up
- R-13 insulation in place of R-11
- Mechanical float gauge
- 8 foot steel legs in place of standard 5 foot
- 2" ball valve w/heat tape, 220volt
- Electric time clock control for agitator
- Access ladder with cage

MISCELLANEOUS The bidding agency is responsible for cost and construction of concrete foundation and for proper placement of mounting component, cost and arrangements for required electrical wiring, cost and arrangements for tank erection and placement, and environmental compliance. Detailed tank leg specifications for mounting to concrete foundation shall be provided by supplier.

Note: Should you be in a seismic area, please contact Crafc0, Inc. for special restrictions and quotes.

Consult your local OSHA and SPCC requirements prior to installation of your storage tank.