

PRODUCT DATA SHEET

May, 2003

BAKER MIX TANK

(W/Electrical Upgrade)

GENERAL INFORMATION

This tank is a modified Safety Vapor Tank.

WEIGHTS AND MEASURES

➤ Capacity:	.....	425 BBL (17,850 gallons)
➤ Height:	.....	10'-11" (grade to roof deck) 12'-5" (grade to top of motor/gearbox)
➤ Width :	.....	8'-0"
➤ Length:	.....	35'-0" (end wall to end wall) 37'-6" (front wall to rear stairs)
➤ Weight:	.....	29,000 lbs. (est.)

STRUCTURAL DESIGN

➤ Floor:	.....	¼" thick ASTM A36 carbon steel (flat bottom)
➤ Sides/Ends:	.....	¼" thick ASTM A36 carbon steel
➤ Lid Deck:	.....	¼" thick ASTM A36 carbon steel
➤ Floor Frame:	.....	6" carbon steel I-beam
➤ Int. Lid Frame:	.....	4" or 5" steel channel
➤ Int. Cross-ties:	.....	15 - 3"x3"x1 ¼" angle iron

FEATURES

➤ Manways:	.....	Some (few) available w/21" side manway
➤ Exterior Stairway:	.....	Dolly end – lower section folds for extension and retraction
➤ Top Access Hatches:	.....	Two marine-style 50"x32" hinged vapor-proof doors (rounded ends) with neoprene gaskets
➤ Internal Ladder:	.....	One at rear (stairway end) top access hatch
➤ Level Indication:	.....	One 8" S.S. ball float (some have two) on arm with indicator needle on front of tank
➤ Relief Valve:	.....	Blaylock Model LL10, Buna-N seal, 16 oz. Pressure setting, 0.4 oz. Vacuum setting
➤ Bottom Sump:	.....	Some are equipped with either: Type 1: flat bottom, 12" diameter, 3" deep Type 2: domed, 14" diameter, 4" deep
➤ Valves (std.): <small>(Note: Some tanks vary from std.)</small>	.....	1-Front & 1-Rear: Bray Series 30, 4"- wafer butterfly valve. Cast iron body, Buna-N seat & seals, 316 SS stem, Nylon 11 coated ductile iron disk w/ plug and chain.
➤ Total Drain:	.....	Min. 4"-150# flanged nozzle and butterfly valve, tractor end, curb side
➤ Rear Wheels	.....	Removable conventional or air dolly; no fixed axles
➤ Heating Coils:	.....	Four-pass 3" sch. 80 serpentine pipe (3"-150# flanges) or multi-pass 2" sch. 40 header style

FEATURES – cont.

➤ Electric Motors:	.....	Four 10-hp., 215 frame, 480 volts, 60 HZ, 3-phase, 1800 RPM, EPFC enclosure 40°C
➤ Gearboxes:	.....	SEW Eurodrive type KF87, reduction ratio ≈25:1 (Output speed: 70-72 RPM).
➤ Gearbox Lubrication:	.....	Viscosity @ 104°F (40°C): VG220 centistokes (cSt.) Mobilgear 630; Shell Omala Oil 220; Texaco Meropa 220; BP Energol GR-XP 220; Chevron Non-Leaded Gear Compound 220
➤ Motor to Gearbox Cplg:	.....	Varies: C-Face mounting, Lovejoy or Dodge Paraflex PX60
➤ Gearbox to Mixer Cplg:	.....	Keyed flanged coupling (may be welded to shaft)
➤ Mixer Shafts:	.....	2- 118" long x 2-3/8" dia. steel shafts 2- 79" long x 2-3/8" dia. steel shafts
➤ Mixer Blades:	.....	Long Blades: 3/8"x6"x18" (lower hub) Short Blades: 3/8"x6"x10" (upper hub) (One set of 4 long blades and one set of 4 short blades per each mixer shaft)

SURFACE DETAILS

➤ Exterior Coating:	.....	Carboline 134HG, color 6388 Fleet Mack Green, High Gloss Polyurethane
➤ Interior Coating:	.....	None
➤ Placard Mounts:	.....	None

ELECTRICAL SPECIFICATIONS

➤ Customer Feeder:	.....	480-Volt ±5% 3-phase 3-wire protected with a min. of a 60-Amp circuit breaker and a max. of a 100-Amp circuit breaker. See decal on tank for circuit breaker coordination and fault circuit limits. Ground according to NEC article 250. Max #2 AWG 1 ¼" conduit.
➤ Motor Control:	.....	Located under stairway on end wall of tank. Four motor controllers and individual circuit protection supplied. Some tanks have manual starters w/heaters and some tanks have NEMA Size 1 magnetic w/bi-metallic ambient compensated overloads.
➤ Classification:	.....	This tank is designed for a maximum ambient temperature of 40°C. This tank is suitable for Class 1, Group D locations as long as 80% of the ignition temperature of the specified gas, vapor or dust to be encountered is greater than 280°C.

TESTS/CERTIFICATIONS

➤ Test Performed:	Hydrotest, electrical checks, and air pressure test of coil by mfr. Level I, II and III inspections on a scheduled basis by Baker.
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