

PRODUCT DATA SHEET

August, 2002

WADE FIXED AXLE MIX TANK

GENERAL INFORMATION

This tank has a smooth interior wall for easy cleaning.

WEIGHTS AND MEASURES

➤ Capacity:	.....	420 BBL (17,640 gallons)
➤ Height:	.....	8'-11" (grade to roof deck) 12'-5" (grade to top of upright guardrails)
➤ Width :	.....	8'-3½" (rib to rib); 8'-6" (between side runners)
➤ Length:	.....	45'-10" (nose to tail) 42'-10" (end wall to end wall)
➤ Weight:	.....	32,460 lbs.

STRUCTURAL DESIGN

➤ Floor:	.....	¼" thick ASTM A36 carbon steel (round bot tom)
➤ Sides/Ends:	.....	¼" thick ASTM A36 carbon steel
➤ Top Deck:	.....	¼" thick ASTM A36 carbon steel
➤ Wall Frame:	.....	3/16"x3"x5" ASTM A36 formed channel
➤ Roof Rafter:	.....	3/16"x3"x5" ASTM A36 formed channel

FEATURES

➤ Guardrails:	.....	Top deck, fold-down, 1¼" x 1¼" square tubing
➤ Manways:	.....	22" I.D.; ½" flat plate ASTM A36 steel with Buna-N gasketing; one on front of tank & one on passenger-side rear.
➤ Stairway:	.....	Front-mounted stairway, passenger-side entry; fold-down bottom steps
➤ Top Access Hatches:	.....	2-50" long x 32" wide hinged vapor-proof doors (rounded ends) with neoprene gaskets
➤ Internal Ladder:	.....	One; mounted below front-end top access hatch
➤ Level Indication:	.....	Ball style with 2-8" 304 SS floats with pointer-indicator on front endwall. Floor supports hold floats ½" off floor. One 2" plugged connection for optional electronic gauge on top deck.
➤ Relief Valve:	.....	Blaylock Model LL10, Buna-N seal, 16 oz. Pressure setting, 0.4 oz. Vacuum setting
➤ Manifold:	.....	None
➤ Valves:	.....	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. Remote operation handle for rear valve
➤ Top Fill Line:	.....	3" 90° elbow with threaded nipple and cap, located rear of tank
➤ Vapor Recov. Connection:	.....	4"-150# weld neck flange with blind flange (chained)

FEATURES – cont.

➤ Rear Drain:	.....	4"-150# flanged nozzle and butterfly valve
➤ Front Drain:	.....	4"-150# flanged nozzle and butterfly valve
➤ Front Inlet:	.....	6"-150# flanged nozzle (with blind flange)
➤ Supplemental Connections:	.....	<u>Rear wall:</u> 1-4"-150# flanged & blinded nozzle and 1-4" pipe nipple with cap <u>Front wall:</u> 1-4" pipe nipple with cap (all located in rounded bottom section)
➤ Heating Coils:	.....	3" sch. 80 pipe with 122 sq. ft of surface area
➤ Thermowells: (optional)	.....	2-¾" plugged coupling connections on front wall are provided for thermowell insertion
➤ Electric Motors:	.....	Four Marathon 10 hp., type TGS, 215TC frame, 230/460 volts, 60 HZ, 3 phase, 1755 RPM, 25/12.5 F.L. amps, 1.0 service factor, EPFC enclosure, 60°C max. amb. temp.
➤ Gearboxes:	.....	SEW Eurodrive model KAF87AM215TC, reduction ratio 24.92:1 (Input speed:1744 RPM, Output speed: 70 RPM). Service Factor: 2.5. Allowable torque: 9030 in.-lbs., 2-3/8" dia. output shaft
➤ Motor to Gearbox Cplg:	.....	C-Face mounting
➤ Mixer Shafts:	.....	4- 80" long x 2-3/8" diameter, ASTM A1018
➤ Mixer Blades:	.....	<u>Long (bottom) Blades:</u> 1/2" thk. X 6" wide x17" long (41" swing path dia.) <u>Short (upper) Blades:</u> 1/2" thk. X 6" wide x 11-5/8" long (30-3/8" swing path dia.) One set of each per each mixer shaft. Material is ASTM A514.(Flow direction is downward)

SURFACE DETAILS

➤ Exterior Coating:	.....	<u>Primer:</u> Carbozink 8701 <u>Paint:</u> Carboline 134HG Polyurethane
➤ Interior Coating:	.....	None
➤ Placard Mounts:	.....	None

ELECTRICAL SPECIFICATIONS

➤ Power Supply:	.....	480V ±5%, 3-phase regulated voltage & current supply capable of supplying 60A min. (by customer)
➤ Motor Control:	.....	NEC and OSHA compliant control panel on front wall of tank

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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