

## PRODUCT DATA SHEET

March, 2000

## BRENNER TANK TRAILER (Stainless Steel)

### GENERAL INFORMATION

This insulated trailer is built in full accordance with Department of Transportation regulations (MC-307/DOT-407).

### WEIGHTS AND MEASURES

➤ <b>Capacity:</b>	.....	7000 gallons
➤ <b>Height:</b>	.....	11'-7" (approx.) measured from grade to top of spilldam
➤ <b>Width:</b>	.....	8'-2" (approx.)
➤ <b>Length:</b>	.....	43'-1" overall (from nose box stick-out in front, to end of trailer in rear) 40'-6" barrel only (bare steel) 40'-7½" insulated end to end
➤ <b>Weight:</b>	.....	12,900 lbs. (empty, tank & trailer)
➤ <b>Payload:</b>	.....	49,975 lbs. (est.) based on empty weight of trailer (without hoses) and estimated tractor weight of 17,125 lbs. (including driver and fuel). [Total combined weight is 80,000 lbs.]

### OPERATING SPECIFICATIONS

➤ <b>Liquid Density:</b>	.....	13 lbs. / gallon maximum
➤ <b>M.A.W.P.:</b>	.....	25 psig
➤ <b>Temperature:</b>	.....	300° F maximum

### BARREL

➤ <b>Tank Shell:</b>	.....	0.130" thick 316L stainless steel
➤ <b>Shell Head:</b>	.....	0.140" thick 316L stainless steel, butt welded, ASME dishec
➤ <b>Baffles:</b>	.....	None
➤ <b>Exterior Rings:</b>	.....	12-gauge SS 2¾" hi hat channel

### FEATURES

➤ <b>Manhole:</b>	.....	(1) 20" full opening Betts 8310-LC-W, 6lug with white hypalon gasket in cover, near center of tank
➤ <b>Heat:</b>	.....	Full-length 304 stainless steel channels, 150-psig design working pressure, designed for steam and in-transit heat with inlet and outlet at front of tank with ball valves.
➤ <b>Insulation:</b>	.....	6" fiberglass compressed to 5". Underlayment is 24" wide, 0.080" thick aluminum.
➤ <b>Jacketing:</b>	.....	Jacket – 22-gauge BA/SS lapped seams Jacket heads – 18-gauge 304SS #4 finish lock seam
➤ <b>Spilldam:</b>	.....	304 SS around manhole with sloped floor & 1½" black pvc drain hose on curbside.
➤ <b>Overturns:</b>	.....	At ends of spilldam and beyond each cleanout.
➤ <b>Ladder:</b>	.....	(1) SS 18" wide with dimpled channel rungs, side hand rails and platform type top step, curbside at spilldam, grabhandles at top each side
➤ <b>Walkway:</b>	.....	19" wide aluminum diamond type on top centerline from spilldam to cleanouts. 12" wide on three sides of spilldam
➤ <b>Kingpin Plate:</b>	.....	Heavy-duty bolt-on 4" increments, 2" adjustments
➤ <b>Landing Gear:</b>	.....	JOST A400 2-speed with 12"x14" sand shoes, curbside crank, 304SS frame.
➤ <b>Suspension:</b>	.....	Hutch CH9700 with tanker option, 3-leaf springs and cast flangemount hangers, 304SS frame.

### FEATURES – cont.

➤ <b>Axles:</b>	.....	Meritor TN4671Q 5" round (22,500# rating), 71-½" track with HM bearings and sensor blocks for ABS
➤ <b>Brake System:</b>	.....	Q series, 16½x7 S-cam with Meritor automatic slack adjusters, no dust shields (20,000# rating). Bendix brake valves, MGM long stroke spring brake chambers, and steel air tank system meeting FMVSS 121 requirements. Carlisle MB-21 brake shoes. Meritor WABCO anti-lock brake system 4S/2M, amber warning light near front face of left rear fender. Remote diagnostic plug at front of suspension frame.
➤ <b>Hubs:</b>	.....	Conmet preset, pregreased aluminum 10 stud, hub piloted outboard mounted centrifuse drums w/ ABS exciter rings. Engler hubodometer-curbisde rear.
➤ <b>Rims/Wheels:</b>	.....	8.25x24.5 steel disc, 10-hole hub piloted
➤ <b>Tires:</b>	.....	285/75R-24.5 (G) Goodyear G314LP 14 ply low profile radials, or equal
➤ <b>Wiring:</b>	.....	Trucklite harness exposed with one junction box ahead of suspension
➤ <b>Lights:</b>	.....	12-volt trucklite in SS boxes with side markers tied into turn signals
➤ <b>Nose Box:</b>	.....	7-way A.T.A. connector, lower roadside on front end
➤ <b>Hose Carrier:</b>	.....	(2) 10"x21" aluminum hose tubes with doors on each end. One on each side.
➤ <b>Emergency Valve :</b>	.....	(1) 4"x3"x90° SS BETTS quick clean chemical hydraulic valve (#CH46312-SSTS)
➤ <b>Operator System :</b>	.....	Enerpac hydraulic pump. Remote fusible and frangible plug @ front roadside of trailer.
➤ <b>Piping :</b>	.....	(1) 3" SS spool piece between emergency valve and outlet valve
➤ <b>Outlet Valve :</b>	.....	(1) 3" SS QRB Hydrolet with 90° threaded outlet (Betts QR 713 SS-T), pointed to rear
➤ <b>Gaskets :</b>	.....	Teflon gaskets on all flanged connections
➤ <b>Pump Off Line :</b>	.....	None
➤ <b>Seal Tabs :</b>	.....	Provisions for government seals on all openings
➤ <b>Vents :</b>	.....	(1) 3" Girard threaded (DOT407) pressure relief vent, complete with teflon encapsulated oring, located on 3" threaded nozzle to rear of manhole offset to roadside in spilldam. (1) Girard threaded (3X-407MVB-TT) magnetic vacuum breaker with teflon seat, and air inlet and gauge assembly, located on 3" threaded nozzle to rear of manhole offset to curbside in spilldam.
➤ <b>Vapor Recovery:</b>	.....	(1) 3"x2" tee style hydraulic vapor recovery valve mounted on 3" nozzle inside spilldam. This valve to be opened with hydraulic system of the emergency valve using same hydraulic hand pump. Pressure gauge on curbside leg, 2" SS ball valve, 2" SS adapter and dust cap. Roadside leg has 2" SS piping down side of tank to rear of trailer ending with pressure gauge, 2"SS ball valve, 2" SS adapter and dust cap.
➤ <b>Cleanouts :</b>	.....	(3) 3" threaded nozzles with solid caps, (2) located in tank shell on top centerline max. 10' from head seams, and (1) located in manhole cover
➤ <b>Thermometer :</b>	.....	(1) 0-300°F clip-on type, curbside eye level, tank center
➤ <b>Level Indicator :</b>	.....	None
➤ <b>Sign Holders :</b>	.....	(4) aluminum DOT slide-in style, front and rear heads
➤ <b>Cert Holder :</b>	.....	(1) Betts PS-1, roadside landing gear frame

### TESTS/CERTIFICATIONS

➤ <b>Test Performed:</b>	.....	OEM hydrotest @ 40 psig, and scheduled D.O.T. V, I, P and K inspections
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