



MAC-1000 Lite

Super light weight 1000 ft³ pneumatic semi trailer, as light as **7800 lbs.**

Vessel

- **Overall Length** - 42 ft.
- **Max. Loading Temp.** - 185 F°
- **Capacity** - 1000 ft³
- **Vessel Finish** - Mill
- **Overall Height** - 11'-10"
- **Shell Material** - Mill Finish
- **Overall Width** - 102"
- **Lower Cones** - 45° weld-on spun
- **Operating Pressure** - 15 psi
- **Man Lids** - Betts 8555 20"

Piping and Fittings

- **Air Inlet** - 3" Sch. 10 aluminum pipe with male adapter on a 90° elbow facing up. Located above street side front fender with two (2) premium BTI Optima check valves and white silicone high temp gaskets.
- **Aeration** - 3" Sch. 10 aluminum pipe manifold located street side inboard under the vessel frame rail to prevent operator hazard. Standard 2" BTI BlackMaxx (Light weight composite body, AlloMaxx disc and white MaxxLife rubber seat) individual aeration control butterfly valves with ergonomic aluminum handle. Three BTI SpinFlo aerators with natural housings per hopper.
- **Proportioning Valve** - 3" BTI BlackMaxx (Light weight composite body, AlloMaxx disc and white MaxxLife rubber seat) individual aeration control butterfly valves with ergonomic aluminum handle.
- **Blowdown / Top Air** - 3" Sch. 10 aluminum pipe combination blowdown and top air lines, both equipped with 3" BTI BlackMaxx (Light weight composite body, AlloMaxx disc and white MaxxLife rubber seat) individual aeration control butterfly valves with ergonomic aluminum handle. BTI AccuSafe 15 PSI relief valve located on blowdown line with cast aluminum quick coupler mounted within easy access from the ground.
- **Gauges** - 3" analog tank and line gauges located street side forward of suspension in lighted aluminum box

- **Product Valve** - 5" BTI BlackMaxx (Light weight composite body, AlloMaxx disc and white MaxxLife rubber seat) butterfly valves with 14" valve handle extension ergonomic aluminum handle.
- **Product Tee and Product Line** - 5" x 4" BTI SiphonFlo cast aluminum straight tees. 4" Sch. 40 aluminum product line with groove by grooved couplings at front and rear, rubbers sleeves joint connectors with worm gear clamps between hoppers.
- **Rear Discharge** - 4" Sch. 40 aluminum straight under axle discharge line with weld-on male adapter and tethered aluminum dust cap.

Accessories

- **PTO Hose Stowage** - Aluminum mast, hook and dummy adapter located street side above front fender within easy access from the ground.
- **Document Holder** - Located street near landing gear
- **Ladder** - MAC Trailer ergonomic ladder located at rear with integrated stair steps with continuous raised hand rails and convenience step under bumper.
- **Hose Carrier** - One 8" x 21' hose tube with cast aluminum rear door and swivel spring closure.

Lights and Wiring

- **Lights** - LED grommet mounted lamps three hole light boxes with one turn lamp and dual stop lamps, two pair of combo mid-turn lamps on each side.
- **Wiring** - 10 year warranted sealed plug and play harness and nose box.



Experience Excellence

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Chassis

- **Upper Coupler** - MAC galvanized adjustable 5th wheel plate
- **Landing Gear** - Jost 10-year no lube aluminum landing gear with street side crank
- **Suspension** - Hendrickson AAT23 with 250 air bags and integrated 77.5" track raised center axles and parallel spindles. Galvanized hangers and black soft coat trailing arms and axles.
- **Suspension Controls** - Automatic dump valve dumps air when trailer brakes are set.
- **Suspension Load Gauge** - Analog load gauge located in gauge box

- **Wheel Ends** - Hendrickson HXL-5 five year warranted aluminum hubs with fused drums, Chevron-Delo semi-fluid grease and sealed hubcaps
- **Brakes** - 7" brake shoes, 30/30 long stroke brake chambers and Gunite automatic slack adjusters.
- **Anti-Lock Brakes** - 4S-2M Meritor-WABCO ABS brakes

Tires and Wheels

- **Tires** - BF Goodrich ST230 11R22.5 16ply
- **Wheels** - Aluminum hub piloted 22.5 x 8.25 10 hole
- **Warranty** - Three year limited warranty.

TRAILER IS FOR REPRESENTATIVE PURPOSES, AND APPEARANCE MAY VARY. FOR ACCURATE REPRESENTATION OF COMPLETED UNIT SEE APPROVAL DRAWINGS PRIOR TO PRODUCTION.

TRUCK WEIGHT	KING PIN SETTING	MAX PAYLOAD	STEER AXLE	DRIVE AXLES	TRAILER AXLES	GVW
17,000 LB	49 IN	55,000 LB	11,810 LB	33,989 LB	34,000 LB	79,799 LB
17,667 LB	43.5 IN	54,250 LB	11,929 LB	33,789 LB	33,999 LB	79,717 LB
18,333 LB	38 IN	53,550 LB	11,868 LB	33,815 LB	34,000 LB	79,683 LB
19,000 LB	32.5 IN	52,868 LB	11,961 LB	33,706 LB	34,000 LB	79,667 LB
19,667 LB	27 IN	52,225 LB	11,937 LB	33,755 LB	34,000 LB	79,692 LB
20,333 LB	21.5 IN	51,610 LB	11,933 LB	33,812 LB	33,998 LB	79,743 LB
21,000 LB	16 IN	51,028 LB	11,947 LB	33,882 LB	33,999 LB	79,828 LB

THIS WEIGHT DISTRIBUTION IS BASED ON A MAC STANDARD TRACTOR THAT COMPLIES WITH THE FEDERAL BRIDGE LAW. USING OTHER TRACTOR CONFIGURATIONS WILL AFFECT THE MAX PAYLOAD AND GVW.

FOLLOWING CALCULATIONS BASED ON FEDERAL BRIDGE LAW

$$W = 500 \left(\frac{LN}{N-1} + 12N + 36 \right)$$

OUTER BRIDGE = GVW		INNER BRIDGE	
LENGTH	50.5 FT.	LENGTH	39.9 FT.
NUMBER OF AXLES	5	NUMBER OF AXLES	4
WEIGHT PERMITTED	80,000 LB.	WEIGHT PERMITTED	68,500 LB.

TRAILER AXLES		TRUCK AXLES	
LENGTH	4.1 FT.	LENGTH	4.6 FT.
NUMBER OF AXLES	2	NUMBER OF AXLES	2
WEIGHT PERMITTED	34,000 LB.	WEIGHT PERMITTED	34,000 LB.

http://ops.fhwa.dot.gov/Freight/publications/brdg_frm_wgths/index.htm

	PNEUMATIC TANK, 10 00
	42" CLOSED TANDEM
DRAWN BY:	DATE:
agardn	02/17/20

ALL WEIGHTS HAVE A TOLERANCE OF +/- 3%

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APPROVAL SIGNATURE _____ DATE _____



MAC – Salem, OH Facility
855-884-2252

MAC LIT – Kent, OH/Billings, MT Facilities
855-662-2588

www.MACtrailer.com