

Columbiana Mini Tanks For Hazardous Gases & Liquids



The Columbiana Boiler Co. manufactures a variety of small portable tanks, or mini-tanks, intended for the transport of dangerous liquids and/or gases ranging from corrosive and poisonous-by-inhalation liquids to compressed gas. These high integrity tanks are also used for less dangerous products, such as materials with very strong odors, where maximum product retention is desired to avoid environmental problems.

Since there is no international (ISO) standard covering the size of mini tanks, the Columbiana Boiler Co. custom designs each mini-tank to the exact preferences of its customer. Options that are available to customers include protective or structural frames, stacking capabilities, 2 or 4 way entry forklift pockets, a twist lock tie-down capability, interior polish or linings and more.

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|---------------------------------|---|
| Design Codes: | ASME, Section VIII, Division 1; CODAP, AD-Merkblätter, BS5500 available |
| International Approvals: | US DOT (49 CFR), IMO (IMDG Code), RID/ADR, Customs/TIR |
| Capacity: | 120-500 USWG (454 to 1893 liters) |
| Design Pressure: | 58 to 500 psig (4 to 34.5 bar) |

CBC Columbiana
Boiler
Company

Columbiana Mini Tanks

Typical Configurations:

| | IM101/IMO-1 | DOT-51/IMO-1 | DOT-51/IMO-5 |
|-----------------------------|---|---|--|
| MAWP | 58 psig (4.0 bar) | 100 psig (6.9 bar) | 250 psig (17.24 bar) |
| Tank Material | SA 240-316L austenitic stainless steel | | SA 516-70 carbon steel |
| Interior Finish | cold rolled 2B finish + passivation | | grit blasted + evacuated + inerted |
| Service Valves | 1" to 2" stainless steel ball valves with Teflon® trim + 1" ANSI blind flange or quick-disconnect fitting | | 1-1/4" internal excess flow/stop valve + external ball valve + screwed end cap |
| Pressure Relief | 2-1/2" external relief valve or 2" internal valve with rupture disc in series | | |
| Capacity | 365 gal (1381 lt) | 230 gal (870 lt) | 250 gal (946 lt) |
| MGW/Tare Wt/Payload | 3500/725/2775 kg 7716/1598/6117 lbs | 4300/750/3550 kg 9480/1653/7826 lbs | 3000/750/2250* kg 6614/1653/4960* lbs |
| Approved Commodities | <ul style="list-style-type: none"> • Class 3 flammable liquids, Class 4 pyrophoric/dangerous when wet materials, Class 6 toxic/infectious liquids • Class 8 corrosive liquids | | • Class 2 gases |
| Thicknesses | 6.35mm equivalent thickness in mild steel | 8mm equivalent thickness in mild steel | As required for pressure |

* Payload for gases depends on the calculated filling density

Handling:

Lifting from forklift pockets (2-way or 4-way entry) and from lifting lugs; stacking capability available.

Frame:

Protective frame or structural frame available.

Transportation:

Designed to fit within a standard 20' freight container (example: 10 mini-tanks, with a 42" x 42" base, in 2 rows of 5, fit within one 20' freight container, with a minimum of bracing needed) or can be transported independently or modified flatbed trailers / chassis.



Columbiana's proprietary Plasma Smooth™ welding capabilities assure that the internal welds of a stainless steel tank will be precise and smooth. A smooth weld surface resists residue accumulation and facilitates tank cleaning.

Detailed Specifications Available Upon Request.
Custom Options Available.

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