Stainless Steel Foam Concentrate Tanks

Atmospheric and bladder tanks for fixed foam systems. **Vertical or horizontal, from 25 litres up.** Built in Minto NSW.

We design and build stainless steel foam concentrate tanks to your fire engineer's specification and the foam maker's data sheet. Bladder tank shells are pressure vessels, designed in house to AS 1210 and certified. Moving off AFFF? We build replacements to fit the old tank's footprint and connections, and we replace perished bladders in existing tanks.

Atmospheric or Bladder?

Atmospheric tank

Vented to air through a pressure/vacuum vent. A foam pump or proportioner draws the concentrate out. Simple to inspect and top up.

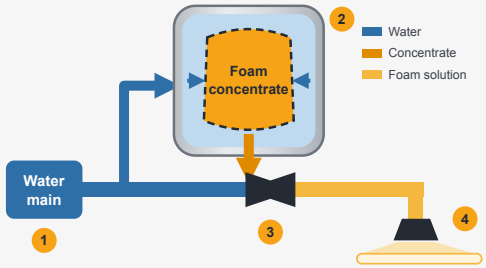
Bladder tank

The concentrate sits in a rubber bladder inside a pressure vessel. The system's own water squeezes it out. No foam pump, no power to fail.

Specifications

Capacity	From 25 litres up; most foam tanks are under 10,000 L
Types	Atmospheric; bladder (pressure vessel)
Orientation	Vertical or horizontal
Grades	304 or 316 stainless, to the designer's specification
Bladder shells	AS 1210 pressure vessels, designed in house and certified
Built to	Your fire engineer's spec and the foam maker's data sheet
Replacements	Built to the old tank's footprint and connections
Bladders	New bladder tanks; bladders replaced in existing tanks
Identification	Stainless steel label on every tank
Quote	2 to 7 days, depending on how accurate the specs are

How a Bladder Tank Works



1. The water main sits under pressure.
2. Water flows into the shell around the bladder and squeezes the concentrate out.
3. The proportioner doses the concentrate into the water at 1, 3 or 6%.
4. At the nozzle, air goes in and the solution expands into a foam blanket on the fuel.

The foam only meets the water in the proportioner, so the tank holds pure concentrate. That's why most foam tanks are small.

Fittings and Options

- Sight glass or level gauge
- Pressure/vacuum or conservation vent
- Expansion dome, to keep the air surface small
- Manway for inspection
- Fill and drain, with the drain at the true low point
- Sample point
- Bunding, sized to hold the contents
- Insulation and stainless cladding for full sun

We fit what your fire engineer specifies.

Bladder Replacement

Bladders perish over time, and the steel shell often has years left in it. We replace bladders in existing foam bladder tanks, or build a new tank when the shell is past it.

Changing foams? Check with the foam maker that the bladder material suits the new concentrate.

Changing From AFFF?

Old AFFF tanks can keep giving off PFAS after cleaning, and the new foam may need a different volume. Some sites clean and keep the tank; others replace it.

If yours is being replaced, we measure the old tank and build the new one to drop into the same footprint and pipework.

What to Send for a Quote

- Foam type and its data sheet
- Volume from the fire engineer's numbers
- Atmospheric or bladder; vertical or horizontal
- Site, access and space available
- Old tank photos and connections, if replacing
- When you need it

Quote in 2 to 7 days.

(02) 9820 2112
bd@stainlesstankandmix.com.au
4 Pembury Road, Minto NSW 2566