

FUELEQUIPMENT.COM

Custom *fuelling* solutions

Self-Bunded Fuel Storage Tanks for **aviation** fuels

Australian Fuelling Systems & Equipment manufactures a wide range of aviation fuel storage tanks. These include self-bunded and conventional single skin tanks. We also specialise in the design and fitting of all required dispensing, filtration, metering and management equipment. All systems are thoroughly wet tested prior to despatch to minimise onsite works and commissioning.

Australian
designed &
manufactured

All with 304
Stainless Steel
inner tanks



Aviation fuel storage & dispensing systems

Self-bunded
bulk storage tanks
for aviation fuels.
Custom tanks for
other fluids
available.

Australian Fuelling Systems & Equipment

PO Box 7162 NEMSC 2348 7-11 Armstrong Street Tamworth 2340

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Systems & Equipment**

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General Information

The following information is provided for general guidance only on topics as shown. No responsibility is accepted for any outcomes or situations arising from your interpretation of any of the guides. In all cases it is recommended that a qualified consultant be engaged to guide your installation of fuel storage and dispensing systems.

Aviation fuel tanks

Our tanks are specifically designed and incorporate features required for the safe storage & dispensing of aviation fuels. With 304 stainless steel inner tanks, 30:1 sloped floors, collection sumps with sampling/dewatering pumps that are operable from ground level, our tanks meet all requirements of the major suppliers of aviation fuel within Australia.

Compliances

Tanks constructed by Australian Fuelling Systems & Equipment are built to the following Australian Standards
AS1692- 2006 Steel tanks for flammable and combustible liquids
AS 1940-2004 The storage and handling of flammable and combustible liquids
AS1657 Fixed platforms, walkways, stairways and ladders - Design construction and installation.

Other compliances to many Australian & International aviation industry standards. We have a rigorous QA testing regime which every tank undergoes prior to delivery. These include pneumatic bubble testing & full hydrotesting, depending on tank type.

Plug & Play systems

As much as possible, our tanks are generally ready to go when delivered - except for assembly of the ladder/platform which is shipped separately. The ladder can be installed on either side of the tank to suit your installation.

We prefer to install any specified dispensing equipment or other accessories so that we can wet test complete operation of the whole system prior to despatch.

This means that onsite work is minimised to provision of suitable footings, connection of required power supply and filling for operation.

Retailing fuel from your tank

We can supply and fit, calibrate & certify all required dispensing equipment to National Measurement Institute standards for legal reselling of fuels if required.

Floating suction

Floating suction assemblies are optionally available on all of our cylindrical aviation fuel tanks.

Site & location requirements

Site requirements (foundations, footings, location, proximity to major works etc) for fuel tanks are as described within AS1940-2004. Foundations & footings will need to be determined by a properly qualified person with local knowledge of terrain & soil types.

It is highly recommended that a properly qualified Dangerous Goods Consultant (member of the Australian Institute of Dangerous Goods Consultants) be engaged to advise on all aspects of Class 3 Flammable Liquids storage and dispensing systems.

Power/flow requirements

As a general guide & depending on the tank size accessories included, a 240v ac single phase power supply will enable a delivery flow rate of up to a maximum of approximately 60-75 lpm.

Systems which utilise an underwing nozzle will generally require a 3 phase 415v power supply to achieve required pressure/flow rate.

12 & 24v DC systems are "low flow" options which are capable of flows up to approximately 40-50 lpm.

We can supply a suitably sized generator set or solar power module if required.

Note: all fluid from a compliant self-bunded tank has to be delivered through an anti-siphon valve which reduces flows somewhat.

24/7 Unattended Fuelling

All systems can be provided with a 24/7 unattended refuelling facility. The installation of this facility will require some onsite work in that the console is required to be located a minimum of 8 metres from the storage and other Hazardous areas.

Systems can accept major credit cards, Carnet cards or a combination of both.

Dispensing systems

Getting the fuel out of your tank into aircraft requires much planning and consideration of your requirements.

Basic considerations are:

Flow rate required (in litres per minute at the nozzle outlet)

Hose length & hose storage method, hose protection, hose certification.

Nozzle type - over or underwing types or both

Pump system & pressure requirements.

Power requirements to achieve desired flows (See separate entry on this page)

Flow meter - is the system to be used for reselling? Register visibility.

Filtration - on delivery only or into storage as well as delivery.

Onsite Commissioning

If required, we can provide expert help to commission your aviation refuelling system.

Tank filling methods

Self-bunded tanks compliant to AS1940 must be filled via a "tight-fill" connection to ensure proper operation of the overfill prevention system. Connection to the inlet is usually by a product selective Kamlok.

Where delivery tankers are not fitted with a transfer pump, we can design the pumping system to carry out infilling as well as dispensing functions - usually at different flow rates.

Warranty

Our tanks have a 20 year warranty for integrity when used in accordance with standard industry practice.

All equipment fitted is covered by 12 month warranty for performance as specified and to the limits of the manufacturers warranty.

Transporting your tank

We can arrange quotation for delivery of your tank or you can arrange this yourself. Generally, you will also need to organise & co-ordinate a crane to unload & place.

Enquiry? - call 1800-025 869 or email sales@fuelequipment.com

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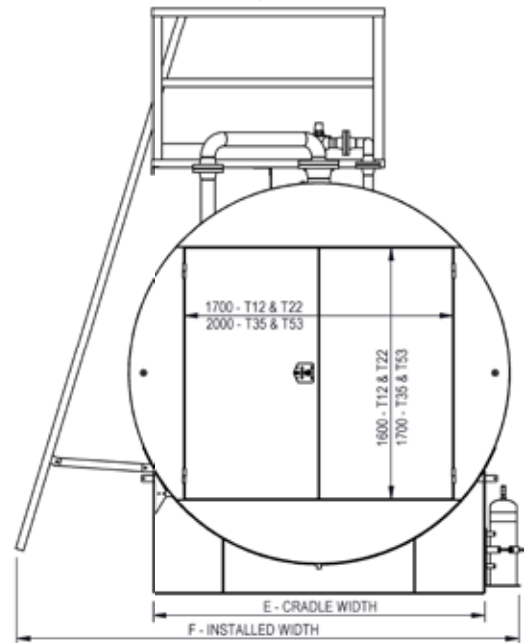
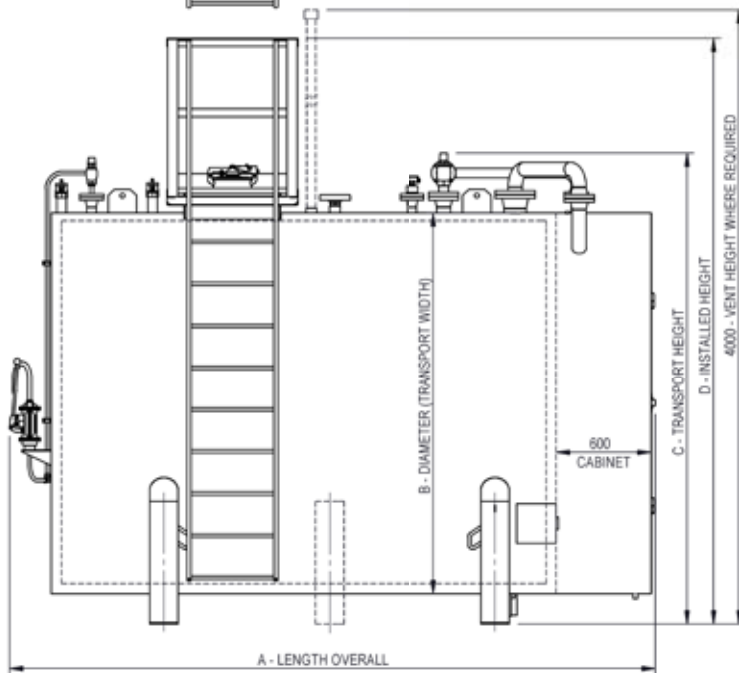
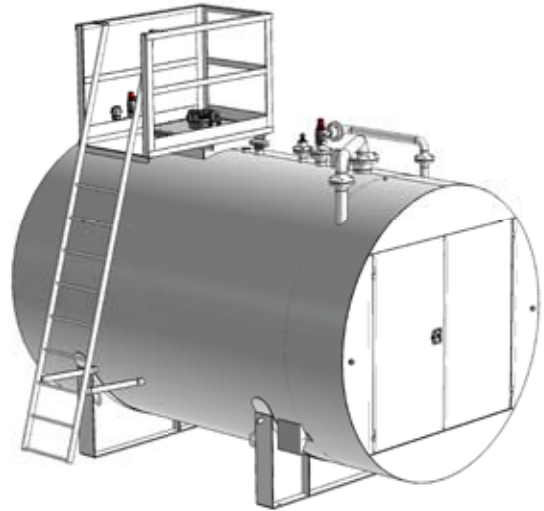
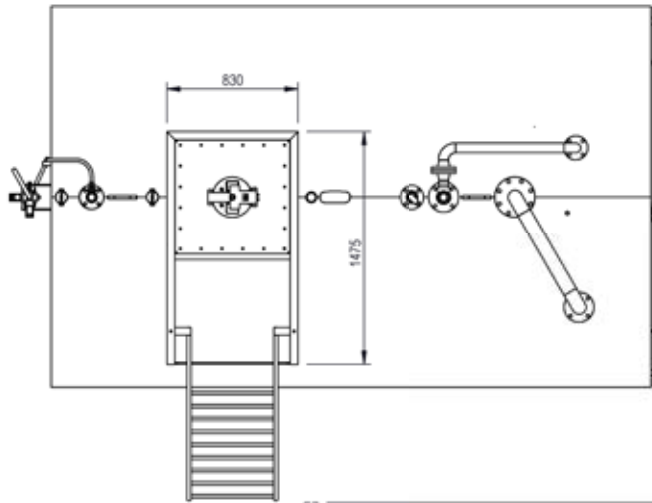
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Custom fuelling solutions

Self-bunded Aviation Fuel Tanks



JET-A1 AvGas

Self-bunded cylindrical tank dimensions

Cat#	Cat#	Type	SFL	A	B	C	D	E	F	Mass
123170	123108	T12	11260	4100	2412	2980	3710	2100	3125	3845
123095	123109	T22	20840	6700	2412	2980	3710	2100	3125	5484
123044	123110	T35	32640	7050	2862	3430	4170	2350	3510	6967
123105	123111	T50	48750	10100	2862	3430	4170	2350	3510	9862

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Airport Installation

Commercial on-airport Avtur refuelling system - includes 22,000 litre storage, on-demand pump delivery system, remote dispenser with NMI approved-for-resale metering system. Fitted with closed circuit fuel quality testing station, pressure differential gauge across filter, high visibility digital register for remote reading, powered hose rewind.



With all piping, valves & fittings in 316 stainless steel, the tank is equipped with pumping system to load into tank from delivery tanker and to supply fuel to the dispenser some 70m's away.



Closed circuit fuel testing station and pressure differential indicator for filter element monitoring.



Custom fabricated slops tank with inspection hatch, emergency vent & drain.



High visibility digital register allows precise fuel measurement - display is fitted with glare shield and swivel.



Digital register allows precise per delivery totals and cumulative totals and rate of flow.

aviation**fuelling**systems.com

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Custom fuelling solutions

Self-bunded cylindrical tanks



Above system incorporates both over wing dispensing facilities with 20m hose and high flow transfer from delivery tanker into storage. The heart of the system is a 50mm vane pump that can be driven at different speeds using our specially developed electrical control system that is certified for use in the hazardous area. Push button selection of high or low speed according to function

- Geared manual rewind hose reel
- Certified hose 20m x 32mm
- Facet filtration
- Industry standard over wing nozzle
- Macnaught flowmeter with large digits
- Stainless system pressure gauge
- All piping & fittings in 316 stainless steel
- Pressure differential gauge
- Thermal pressure relief on all pipe sections
- Emergency Stop station
- Inlet aviation standard strainer
- All low points fitted with drain valves.
- JET-A1 selective kamlok for infill with dust cap.
- All welds & joints passivated

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Self-bunded aviation fuel tanks

Australian designed
& manufactured



A Type 50 tank used in a commercial application. The pumping system is designed to rapidly unload a delivery tanker into storage - with all fuel passing through a filtration unit before delivery into tank. This system was fitted with a remote dispenser system to refill an onfield refuelling tanker.



Remote tanker
filling dispenser
with NMI certifi-
able flow meter

aviation**fuel**tanks.com

FUELEQUIPMENT.COM

Custom *fuelling* solutions

Self-bunded aviation fuel tanks



Two systems set up with Compac MR80P aviation pumps with digital meter & money displays. Manual rewind hose reels fitted along with Facet filtration, over wing nozzle, static reel and Emergency Stop stations.

All with 304
Stainless Steel
inner tanks

A 22,000 litre self-bunded tank set up for 24/7 unattended refuelling. Fitted with a Compac card acceptor, the system accepts major credit cards. All dispensing equipment is securely stored in lockable alcove of tank, allowing control over access.

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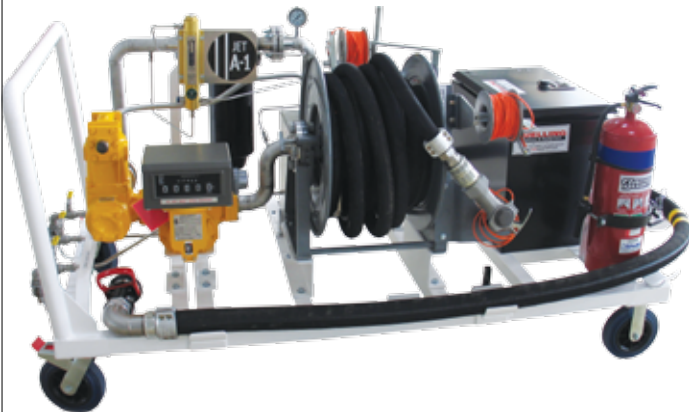
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Helicopter refuelling system

Complete helicopter fuel storage & refuelling system built and installed by Australian Fuelling Systems & Equipment. With a 35,000 litre self-bunded tank, on-demand pump system, underground stainless piping supplying fuel to hydrant pits and a mobile hydrant cart, this system provides the ultimate in safe, convenient, clean & dry refuelling. Built to service the needs of the WestPac Rescue Helicopter, the system is set up for reliable 24/7 use and includes a backup engine driven system.



Custom built hydrant cart incorporates filtration with pressure differential gauge, NMI certifiable flowmeter, hose reel & delivery hose with nozzle, hydrant connection hose with drybreak fittings. Also included are spill kit, static reel & fire extinguisher. The unit is easily manually maneuvered to where required.

Self-bunded storage tank with on-demand pump system and emergency backup refuelling equipment



Shows hydrant cart connected to fuel supply in pit.

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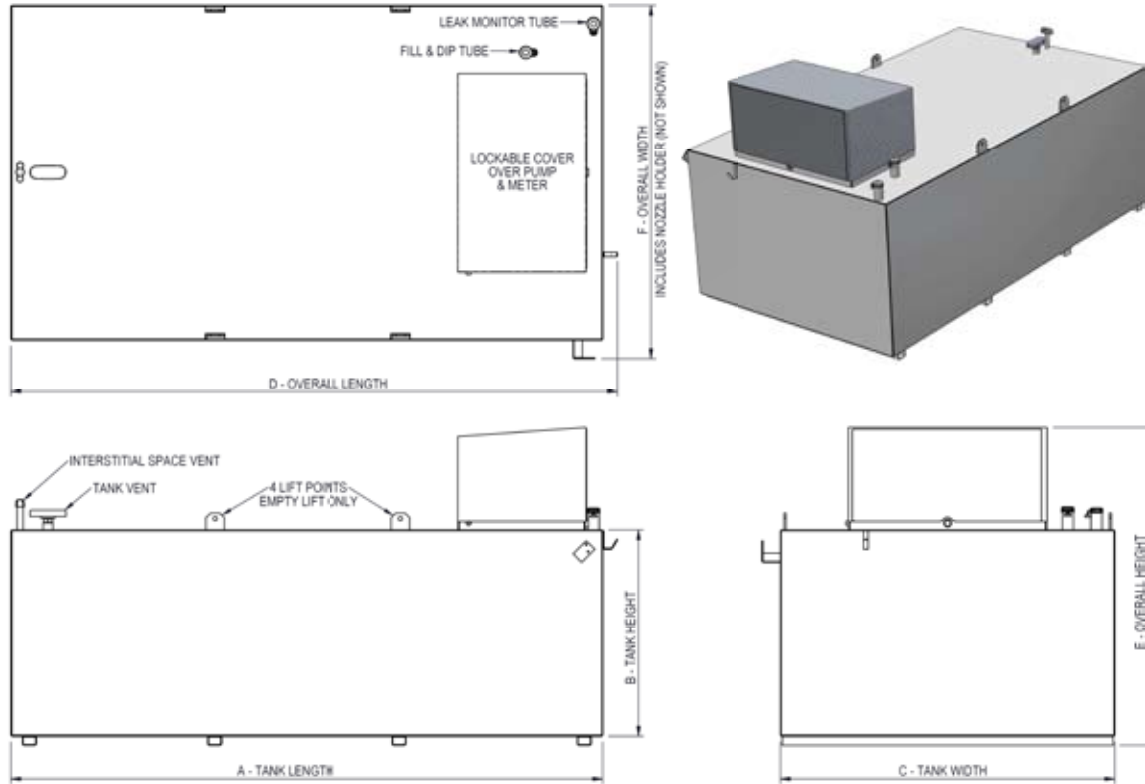
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Self-bunded rectangular aviation tanks



JET-A1 AvGas

Self-bunded rectangular tank

Cat#	Cat#	Type	SFL	A	B	C	D	E	F	Mass
123037	123104	T1.5	1380	2400	1150	700	2480	1770	880	800
123040	123106	T2.5	2470	2410	1120	1210	2490	1730	1390	1070
123031	123107	T5	4940	3200	1120	1810	3280	1730	1990	1675

Notes

All dimensions shown are nominal and can vary due to manufacturing and plate dimension variations

Safe Fill Level is 97% of gross volume

Tanks for Class 3 Flammables supplied with vent risers to 4m from ground level - to be fitted on site

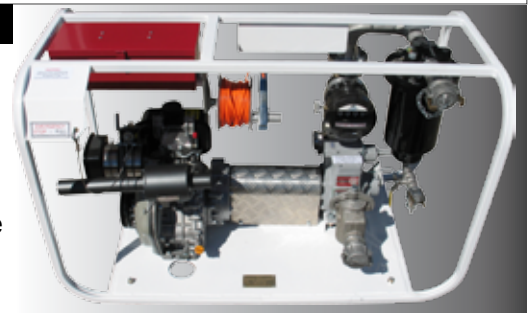
We normally supply all self-adhesive signage for Class 3 product tanks to be fitted onsite due to transport regulations.

Venting - AvGas tanks fitted with P&V vents, JET-A1 tanks fitted with downdraft vents



Engine powered pumpsets

Portable or static engine-powered pump systems for aviation fuels. The engine/pump must be located 8m's from the storage or other Hazardous areas. Diesel engines equipped with flame arrestors and mechanical engine stranglers for emergency shut down. See separate brochure.



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Self-bunded aviation fuel tanks



A 5000 litre self-bunded aviation tank fitted with low volume 240v dispensing system. Includes pump, flow meter, static reel, manual geared rewind hose reel, 15m x 25mm aviation hose assembly with over wing nozzle & aviation grade filtration. All tank top equipment - fill point, access hatch, inspection hatch, venting etc is enclosed within lockable aluminium cover. Tank can be slung or forklifted whilst empty only.

All with 304
Stainless Steel
inner tanks

Other aviation refuelling equipment in our range



DC fuel pumps for aviation

Diesel engine powered pumps

Self-bunded aviation fuel tanks

Aviation fuel tanks

Hydrant carts

Aviation fuel trailers

Hydrant pit
cleaning
& fuel
quality
test
trailer

**Got a question?
Need a quote?**

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