

PRODUCT REVIEW – GENIUS DIESEL UNITS

The Genius diesel units are state of the art mobile refueling systems. The Genius represents our innovative response to the needs of our customers, made right here in Australia. In designing and developing these units we listened to customers asking for secure storage for the pump and hose, easy to use functionality, reliable pumps with easy serviceability and tough enough to work consistently and reliably in the demanding Australian environment.

In taking all this into consideration, we looked at a number of factors:

TANK

Material: Obviously the tank is very important as it holds the diesel: Poly is an ideal choice as it is completely rust free (no rusty diesel through your pump blocking your filter, etc.). Poly is also light weight and has an excellent strength to weight ratio. Our poly is a specially formulated diesel grade polyethylene that meets International Regulation ECE R34.01 requirements. It is also very tough, highly impact resistant and UV stabilized.



All Rapid Spray diesel tanks are manufactured from specifically formulated diesel grade polyethylene that meets International Regulation ECE R34.01 requirements

Design: Tank design is important as you don't want water collecting on top of your tank, it needs to drain away, the pump compartment needed to be large enough to fit a range of pumps, flow meters as required, plus the hose and nozzle. Also in the tank are handgrips to make it easier to lift and carry when required. Location and protection of the breather is critical and all this has been achieved with a sleek and stylish appearance.



For mounting securely, the tank has tie down strap location points moulded into it and brass nuts in the bottom of the tank for bolting down to the floor or a steel frame. The tank also has a 19mm drain bung to facilitate emptying and cleaning.

PUMP

The pump is critical as it does the hard work: An Italian manufactured pump brand, 'FLUID', was selected. Fluid manufactures a range of 12, 24 and 240 volt electric vane pumps for diesel transfer. Fluid's attention to detail and quality is evident in everything they manufacture. Every single pump is bench tested to ensure their stringent performance standards are met – no random selection for spot checks here! We use the 12 volt 45 litre/minute model standard on the Genius with an upgrade option to 60 litre/minute available. The pumps have a pressure bypass valve and an easily accessible suction strainer in the head. Heavy duty battery cables complete the picture. Oh, and by the way, Rapid Spray is so confident in these pumps they offer a 2 year warranty.



SECURITY

This is very important and is taken care of with a completely enclosed pump compartment with a pad-lockable lid. But it doesn't stop there.

Under this cover is a pad-lockable filler cap and the auto nozzle has a storage position with provision for pad locking in place. The inserts in the bottom of the tank for secure mounting also contribute to security.



FUNCTION

To provide maximum functionality, we researched what operators need to make their job easier and quicker with the following results:

Hose: Having an extra length delivery hose is very useful, giving greater flexibility and allowing greater accessibility to fill points, so we increased the hose length from 4 metres to 6 metres and added an anti-kink spring to hose. To further improve user friendly function a hose swivel is used.



Breather: Our breather design is a result of extensive research and testing to allow maximum vapour transfer without leaking and spilling diesel while driving around. This has been done by using a splash resistant floating ball system. The breather complies with AS 1949-2004.



Nozzle: Auto shut off nozzle is standard to prevent overfilling and fuel wastage.



Stability: Ball Baffles are fitted to the 800, 1000 and 1200 litre sizes and optional on 400, 450 and 600 litre tanks. Ball Baffles are incredibly effective at eliminating fluid surge in the tank and give significant stability benefits.

Cables:

4 metres of heavy duty cable with battery clips mean easy access to battery power for pump operation. The pump is fitted with an on/off switch.



Filling: The fill point not only has a lockable lid but also a strainer that prevents any unwanted debris getting into your tank. It also helps reduce any static build up while filling your tank. The lid is fitted with a safety chain to prevent loss. As a further safety feature, an earth strap is supplied and is used to attach to an earth point while filling the tank. This prevents static build up.



QUALITY

We understand that our customers operate in a very demanding environment and justifiably expect equipment they invest in to perform at all times. This is why we invest so much time and effort to ensure we not only meet but exceed the expectations of our customers. To guarantee this, each unit goes through a stringent 10 point quality guarantee check, including a pressure testing procedure.



All Rapid Spray diesel tanks comply with AS1940-2004 and AS2809.2-2008



HAPPY CUSTOMERS

CZL Group, an earthmoving contractor from Branxton, NSW use a number of the Rapid Spray diesel units since June 2008, both the free standing & the Genius™ models, fitted with the 60 litre/minute Fluid pump kits - this is what they have to say:

"We haven't had a problem with them at all. We use the 60 litre/minute pumps and we find it very efficient and it gets the job done quickly. We haven't had any issues and it helps us get the job done."

(Steve - CZL Group)



"For the last couple of years we have been supplying Rapid Spray Fluid diesel pumps to our customers throughout Australia, without a fault. Our customers cannot afford to use inferior products due to the high costs involved with down time and they expect the diesel pumps to perform to a high standard - and they do!

Rapid Spray told me the secret to the pump's reliability is the fact that each pump is individually tested by the manufacturer - no 'duds' get through!

Our customers rely on our choice of products for their peace of mind & backup service. The team at Rapid Spray have offered excellent service and any issues are dealt with promptly and efficiently.

Well done guys!"

(Mark Anear - Petro Industrial Townsville)

DID YOU KNOW?

Water has a specific gravity of 1.0
Diesel has a specific gravity of 0.82
This means that diesel is lighter than water.
For example:
1000 litres of diesel weighs only 820kg

'Despite the uncertainty surrounding the outlook for some European economies, Australia's export volumes for most commodities have remained strong in the second half of 2011, while prices for many commodities have remained at historically high levels,' said Professor Quentin Grafton - BREE's Executive Director and Chief Economist.