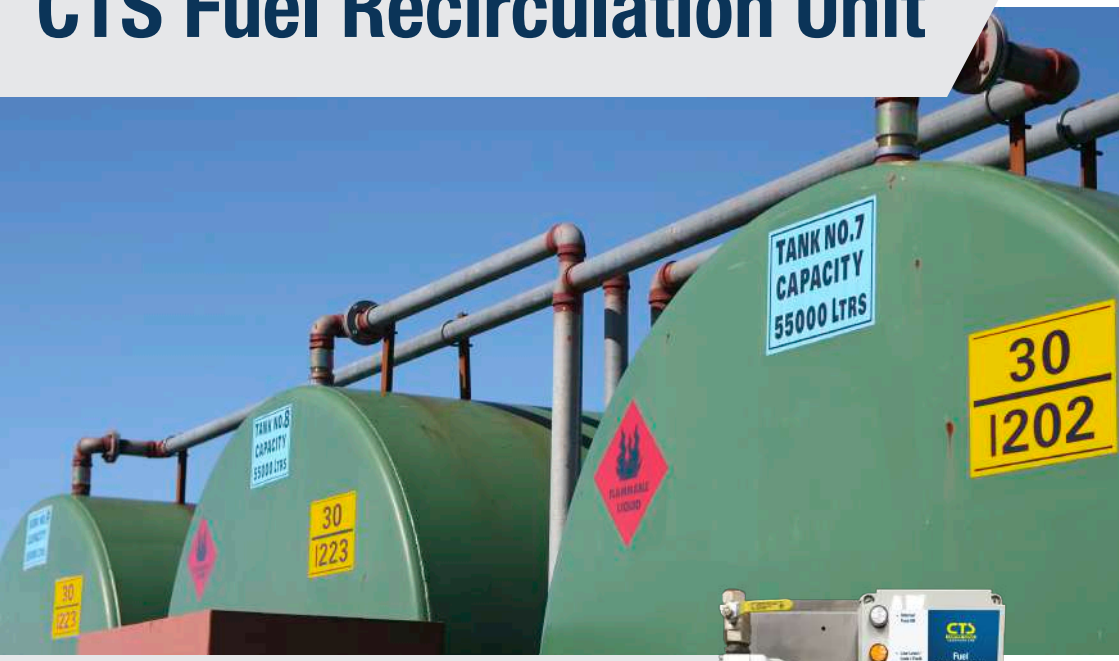
CTS
CENTRE TANK
SERVICES LTD

CTS Fuel Recirculation Unit



A key part of fuel maintenance:

- Generator back up tanks
- Seasonal refuelling tanks
- Emergency fuel tanks

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An Original
CTS Product

CTS DESIGN

The Problem.

Imagine the electricity goes down on your customer's site. The generator fails to kick in, their site is left without power and they think the generator is faulty. Imagine a farmer comes to fill his tractor after a long winter, his pump blocks and he can't get out into the field because he hasn't been able to refuel...

A filter clogged up with nasty diesel sludge

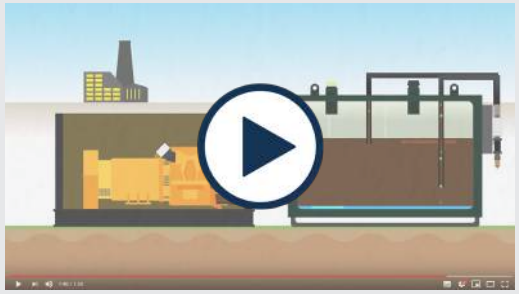
Fuel left sitting in a tank can result in costly downtime and repairs, but why?

The increasing bio-content in today's diesel means that the fuel in storage tanks often contains small, but problematic water levels that sink to the bottom. As the area between the water and the fuel is the perfect environment for microbial growth, what is known as "diesel bugs" begin to develop.

For tanks that are used daily, the fuel is regularly circulated meaning that such contaminants can be dealt with by standard filters. However, for tanks used less frequently, the same fuel sits stagnant for long periods of time and the bugs begin to grow, multiply and join together to create a nasty sludge. It is this "biofilm" that can block filters, damage pumps and get sucked into machinery causing equipment failure, downtime and costly repairs.

If reliance on a tank is great, it is important to prevent the bugs in the fuel from settling as this is when they become a problem. Enter the CTS Recirculation Unit.

Watch how diesel bugs become a problem and why a Recirculation Unit should be part of a tank's fuel maintenance:



To view video, scan the QR code using your mobile's camera - if the video doesn't open, try a QR scanner app.

The Solution.

The CTS Recirculation Unit draws the fuel up from the front of the tank through a magnetic conditioner which stuns the bugs, breaking them down into a size that will pass through the conventional water and particle filters. The cleaner fuel is then circulated back into the rear of the tank, before the bugs have been able to group and create the nasty sludge.

CTS Recirc Unit Specification:

- Italian manufactured 230v Piusi Panther pump for long, trouble free service life.
- Magnetic fuel conditioner to break up bacteria and reduce filter blockages.
- 30 micron water/particle filter and 5 micron finishing particle filter, with bowls to view and drain impurities.
- Adjustable timer set as standard to circulate 1.5x tank capacity every 28 days to prevent bug build up.
- IP55 control panel with large, coloured lights for diagnosing filter block, low level, leak or fault.
- Flow switch to detect when a filter is full and turn off the pump until the filter is replaced.
- Input for alarm/gauge to detect a low fuel level and turn off pump until sorted.
- 2 x BMS outputs for the remote warning of a filter block, low level, leak or fault.
- Emergency stop button to allow the immediate stop of the pump.
- Ideal for new tank installations. For existing installations where biofilm may already have formed, it should be used after a fuel cleaning/polishing process has been carried out.

Select from the options below:

1

TANKS UP TO 40,000L CTS1033
Max Turnover Per Day - 3000L
Panther 56 Pump - 230v
Water/Particle Filter - 30µ Particle Finishing Filter - 5µ

2

TANKS UP TO 70,000L CTS1048
Max Turnover Per Day - 4000L
Panther 72 Pump - 230v
Water/Particle Filter - 30µ Particle Finishing Filter - 5µ

+

SPARE FILTER ELEMENTS	
F00611040	F00611030
Water/Particle Element Only - 30µ	Particle Finishing Element Only - 5µ

Why choose the CTS Recirc Unit?

CTS design using our 35 years' experience in the fuel industry and quality, branded components.

Technical after-sale support on hand for any installation, operation and maintenance advice.

Spare filters are available directly from our large stockholding to prevent any downtime of the unit.

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