

# DATASHEET

## CTS ADVANCED FUEL CONDITIONING UNIT



### Product Specifications

#### Target ISO 14/13/11 with multi-pass filtration

Target ISO fuel cleanliness with multi-pass filtration, with lab tests showing water content removal to under 60ppm.

#### Two stage high performance filtration

Cim-Tek Ultimate Defense® particle and water fuel filtration with a 10 micron filter and 2 micron final finishing filter.

#### Magnetic fuel conditioner

Breaks up bacteria growth and stuns diesel bug to prevent the contaminants getting to a size that will block up the filters.

#### Engineer & manual mode for complete control

Engineer log in required for system set up and to prevent tampering, and manual control to enable system priming.

#### Input for an alarm/gauge and leak probe

To detect a low level and leak in the drip tray (if installed). If activated, the pump will turn off until the issue is resolved.

#### Two passive BMS outputs for remote warnings

For remote warning of a filter block and low level/leak alarm to alert the user that action needs to be taken.

#### Automatically set system run times

Based on fuel tank size and runs between 9am-5pm, Mon-Fri to turn over 1.5 x the tank capacity per month.

#### Branding available with QR codes to your website

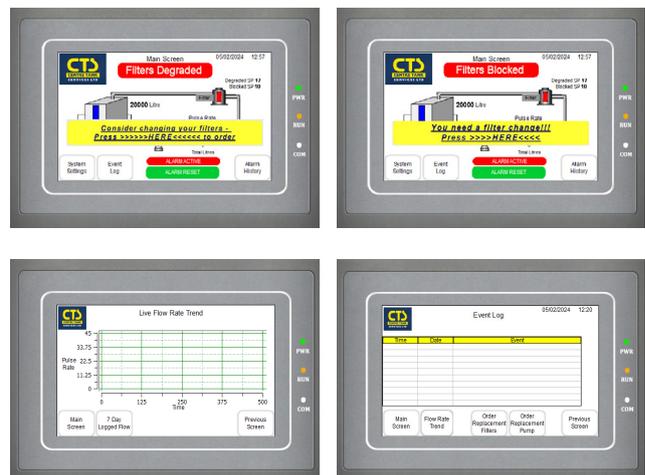
Control panel branding and customisable QR codes available to encourage replacement filter and pump sales with you.



### Operational Information on Touchscreen Display

A custom micro controller displaying:

- Filter degradation alert to warn that the filter will soon block to allow for pre-emptive replacement to take place
- Filter block alert to indicate filters need to be replaced before the system can resume operating
- Flow rate trend graphs providing filter life expectancy giving you an indication of how long they will last
- Event and alarm log for viewing historical activity such as pump started/stopped, engineer logged in/out\*, and low fuel level logged
- Pump schedule and time till next run cycle



\*Please note: Engineer logged in/out feature not available on gauge enabled versions of the AFC.

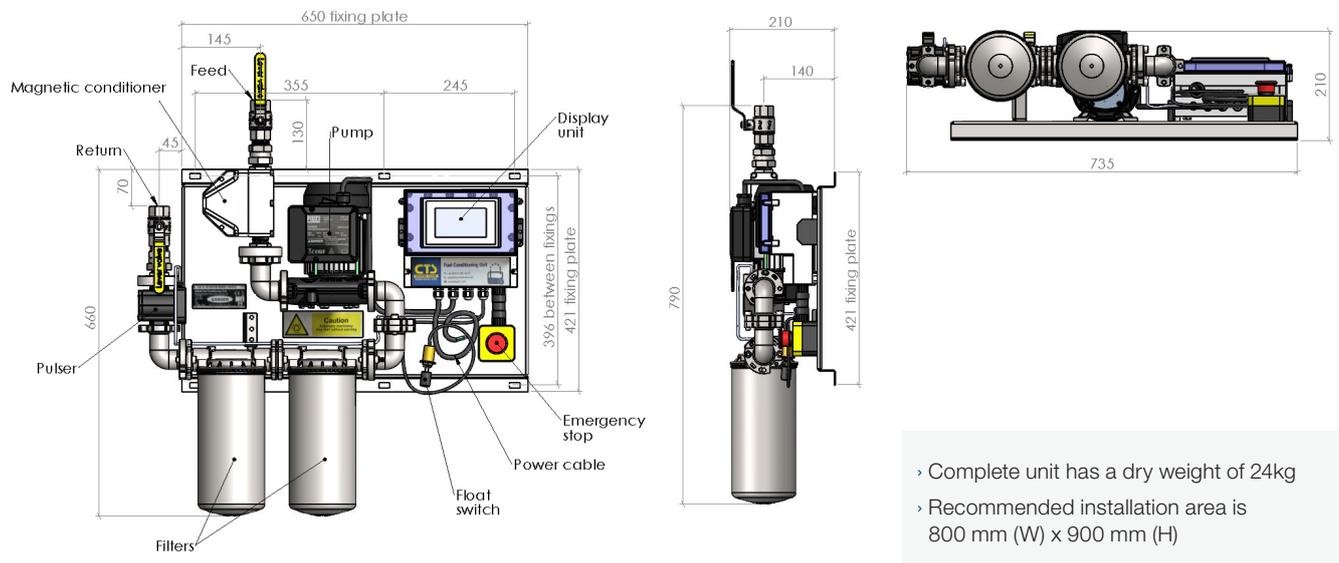
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### Product Weight & Dimensions

View (left to right): Front, side, underneath.



### CTS Fuel Conditioner Range

#### Standard Advanced Fuel Conditioner

- Designed to obtain a target multi-pass ISO 14/13/11 level, with laboratory tests showing water content removal to under 60ppm. It has two-stage filtration using Cim-Tek Ultimate Defense® high performance filters and a magnetic fuel conditioner.

#### Advanced Fuel Conditioner with Modbus

- With Modbus communication protocol output for connection with external building management systems.
- Can communicate the following statuses: Pump running, filter block, filter degraded, litres in tank (gauge version only), low level, leak.

#### Advanced Fuel Conditioner with Gauge

- With constant reading level gauge on the touchscreen display, showing tank contents by bar chart and in litres.
- Low level setting to shut off conditioner from operating until resolved, without the installation of an external gauge/alarm.

#### Advanced Fuel Conditioner with Gauge & Modbus

- Comes with both, as above.



Code	Description	Max Tank Capacity (l)	Max Turnover Per Day (l)	V	Gauge	Modbus	Micron	Fluids
CTS1080	Fuel Conditioning Unit	40,000 litres	3000 litres	230			10 & 2	D H&G
CTS1081	Fuel Conditioning Unit with Modbus	40,000 litres	3000 litres	230		✓	10 & 2	D H&G
CTS1082	Fuel Conditioning Unit with Gauge	40,000 litres	3000 litres	230	✓		10 & 2	D H&G
CTS1083	Fuel Conditioning Unit with Gauge & Modbus	40,000 litres	3000 litres	230	✓	✓	10 & 2	D H&G
R14862000	Replacement Water/Particle Element - 10µ						10	D H&G
CTH1851	Replacement Water/Particle Element - 2µ						2	D H&G
CTS1080FLT-KIT	Replacement Filter Kit	Includes: 10µ & 2µ Water/Particle Replacement Filter Elements					10 & 2	D H&G