



Coolant Handling

Product Range





Contents

- Coolant Handling Solutions 4
- Coolant Mixing 6
- Coolant Transfer 7
- Coolant Recycling 8
- CCS
- Coolant Cleaning Recycling Station 10

- Bespoke Design Service 14

Coolant Handling Solutions

A comprehensive range of equipment to help manage your metalworking fluids - from mixing, cleaning and recycling, we can help you.

CARDEV coolant handling systems are used extensively by major oil companies as an integral part of their TFM (Total Fluid Management) services.

- Minimise coolant costs
- Reduce the environmental impact of your activities
- Increase tool life
- Improve health and safety issues



Coolant Mixing

Accurate concentration, strong emulsions and fast delivery; locally or through distribution pipework.



Coolant Transfer

Safe and efficient movement of fluids around the workshop.



Coolant Recycling

Extend coolant life, reduce disposal volumes & coolant costs, reduce H&S risks.



Coolant Mixing

Accurate and consistent coolant mixing is critical to ensure the performance and longevity of your metalworking fluid. Our SmartMix mixing stations can distribute over a pipework system to cover an entire production facility, or locally via the dispensing gun.

SmartMix 300 / 1000

Coolant Mixing Stations capable of delivering via distribution pipework systems or locally via dispensing gun. Fast delivery, accurate mixing.

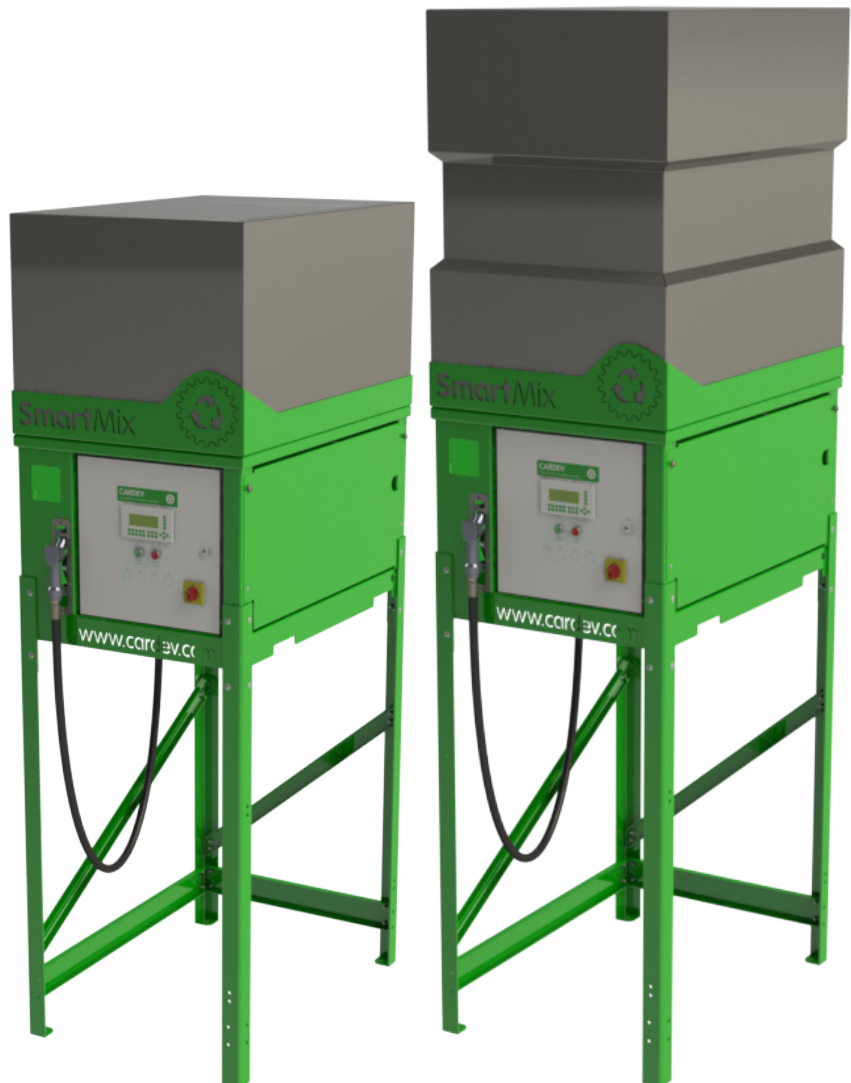
Features

- 300 or 1000 litre stainless steel water tank
- Dispensing rate: 90 litres per minute
- Standard concentration range 1-12%. (higher concentrations available)
- 4 concentration pre-sets
- Low soluble oil / low water shut-off with warning light

SmartMix 300



SmartMix 1000



Coolant Transfer

All too often, moving large volumes of fluid around a facility is still left to brute force and a collection of inappropriate containers! As well as being a health and safety liability this is also damaging to your efficiency. Our coolant transfer units make the movement of fluid quick, safe and convenient.

Auto Top Up - ATU

Automatic coolant top up unit.



Features

- Delivers maximum benefit when used in conjunction with CARDEV coolant mixing equipment
- Unattended operation
- Flexible installation to suit any machine



Coolant Bowser - CB-200

Mobile coolant bowser with air diaphragm pump for rapid delivery.



Features

- Powerful double diaphragm pump – air operated
- Low rolling resistance swivel castors with foot brake
- Robust construction
- Simple operation



Fluid Transfer Unit – FTU

Transfer pump with bag filter. Ideal for filling / draining sumps.



Features

- Self-priming air diaphragm pump
- Prefilter – range of reusable filter bags available
- Rugged construction
- Simple operation



CV3 Industrial Vacuum Cleaner

The CARDEV Industrial Vacuum Cleaner (CV3) is designed to remove coolant, swarf and oil from machine tool sumps. Particle contamination is removed and filtered coolant is returned for re-use.



Coolant Recycling

The best way to reduce coolant costs is to extend coolant life. By controlling tramp oil and bacteria your coolant will last longer, your operators will be happier and your downtime will be reduced. Disposal costs and purchase of new product will be minimised.

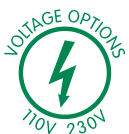
T700

Portable unit, removes tramp oil using coalescing technology. Stainless steel construction, built in alarms allow for unattended operation.



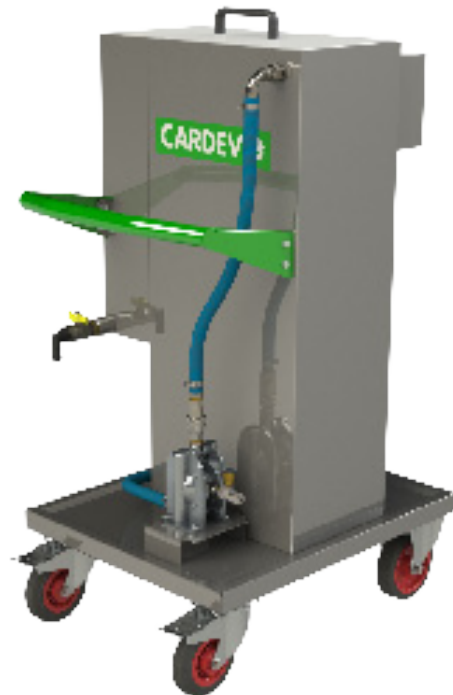
Features

- Stainless steel construction
- Portable
- Available in 110V, 230V
- Reusable bag filter
- Minimal servicing required - no consumable parts
- Unattended operation
- Easy to use – minimal setup and no “levelling” required
- Universal application – works on any coolant sump



T700 - AIR

An air powered version of our popular T700 mobile tramp oil removal unit. Stainless steel construction.



Features

- Powered by compressed air
- Stainless steel construction
- Portable
- Reusable bag filter
- Minimal servicing required – no consumable parts
- Unattended operation
- Easy to use – minimal setup and no “levelling” required
- Universal application – works on any coolant sump



“We are recovering and recycling in excess of 10,000 litres of coolant per week, which in turn is reducing our consumption of concentrate by 500 litres a week, delivering a significant cost saving.”

Luke Butler
Senior Weston Aerospace



CCS - Senior Weston Aerospace



CCS Coolant Cleaning Recycling Station

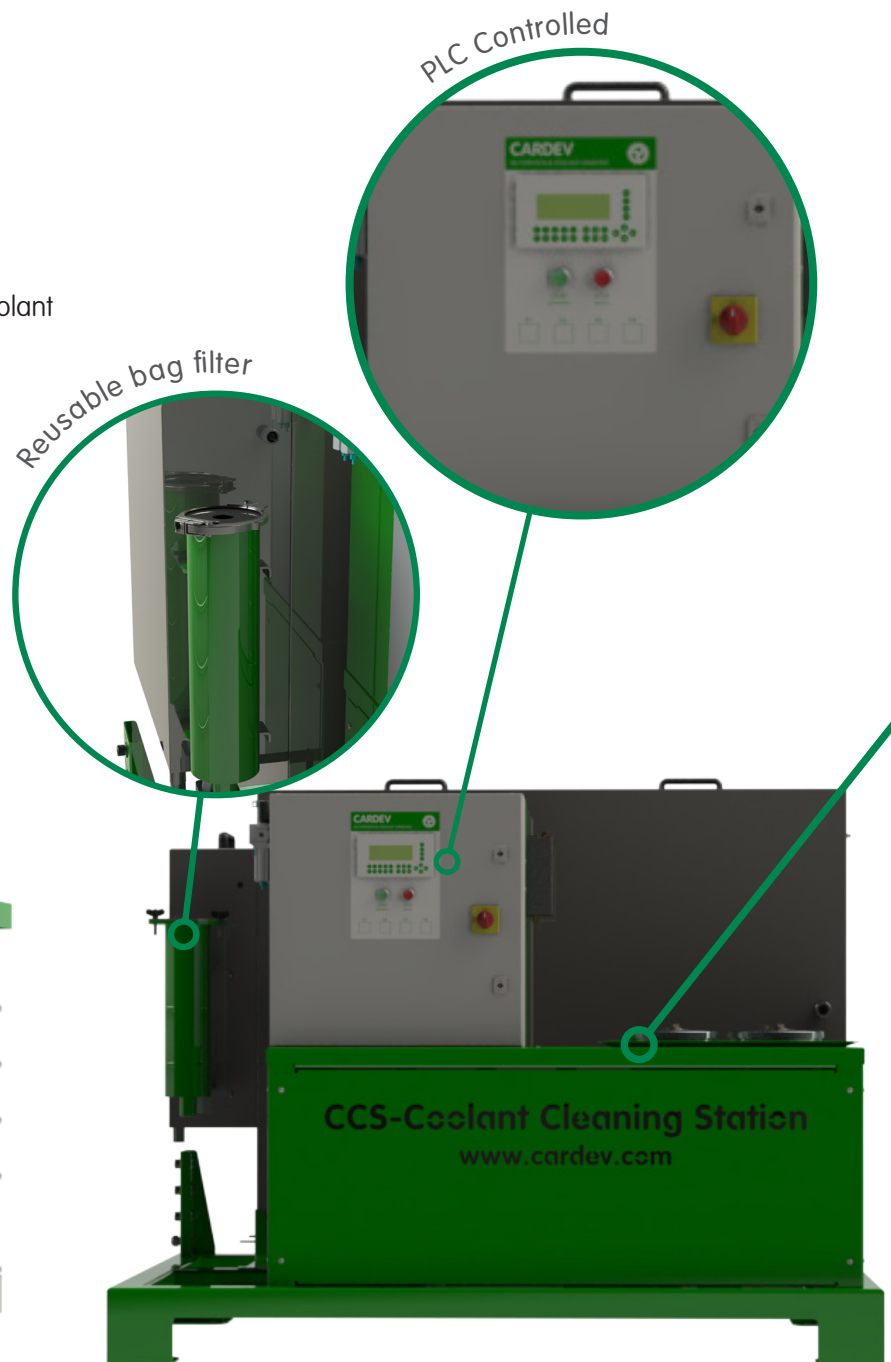
Central coolant recycling station capable of treating 500 liters of used coolant every 3 to 4 hours.

Features

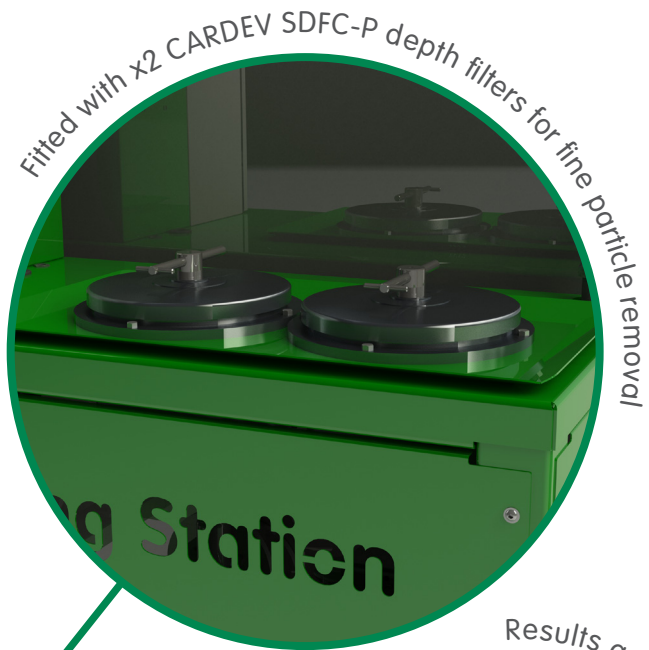
- Recycles used coolant
- Significantly extends coolant life
- Removes particles and tramp oil
- Controls bacterial growth
- Provides a constant supply of recycled coolant
- Coolant costs (purchase and disposal) are significantly reduced
- Reduced carbon footprint
- Improved operator conditions - reduced oil mist, reduced bacterial growth, coolant odour reduced
- Increased productivity and profitability



1. Coolant from the workshop is collected in the CCS used coolant tank as sumps are emptied, or as a result of swarf handling / briquetting.



2. Used coolant is transferred through a bag filter to the CCS process tank, where tramp oil is coalesced and removed. Ozone gas is infused to control bacteria levels.



3. Recycled coolant is transferred through 2 x CARDEV SDFC-P depth filter elements, leaving the coolant ultra clean and in the CCS Recycled coolant tank, ready for use. This process will continue automatically under control of the PLC, assuming there is space in the recycled coolant tank and used coolant ready to recycle. Each 500 litre batch takes 4 hours to process.

4. The CCS can be connected to a distribution pipework system as well as supplying coolant locally via a dispensing hose and gun. By integrating a CARDEV SmartMix coolant mixing station, the CCS can become the sole source of coolant in the workshop; the SmartMix will only mix new soluble product when there is not sufficient recycled coolant to meet demand.

Thank you for taking the time to review this brochure.
Other products from ETL Fluid Experts include:

CARDEV

OIL FILTRATION & COOLANT HANDLING



MOTOREX[®]
Oil of Switzerland



ETLFlow

FLOW METERS & INSTRUMENTATION



ETLConMon

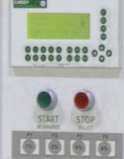
CONDITION MONITORING



SmartMix



CARDEV



START STOP



MOTOREX



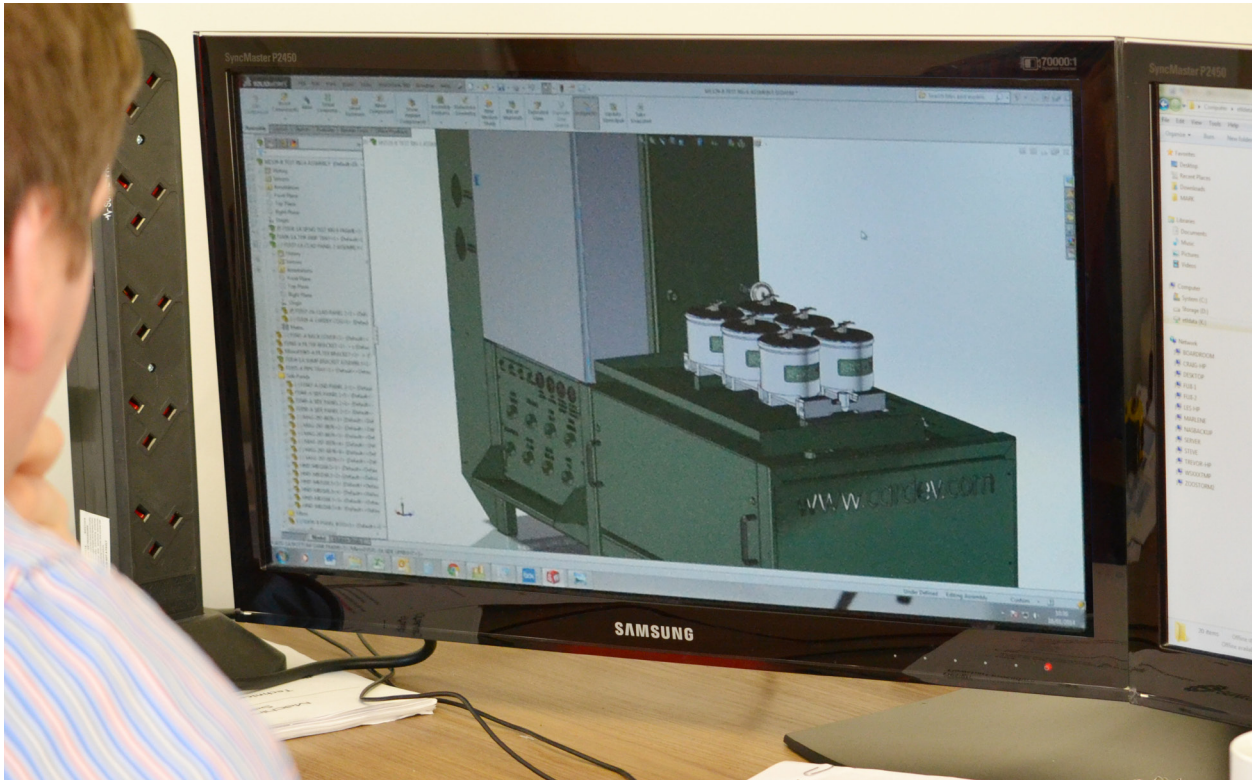
WARNING floor



Bespoke Design Service

We design and manufacture all of our equipment in-house, providing flexibility to meet your individual needs.

From OEM branding and special colour schemes to give the customer just what they want, through to large and complex one-off turnkey systems, we have the experience and capability to deliver outstanding bespoke equipment at very competitive rates. ETL Fluid Experts is a preferred supplier to several of the world's most prestigious OEMs for production line technology.



Critical Port Flushing Station



Hydraulic Motor Testing Station



Subsea Display System



environmental
TECHNOLOGIES





ETL Fluid Experts Ltd
Environmental Technologies Group
Grimbald Crag Road Knaresborough North Yorkshire HG5 8PY
T. +44 (0)1423 522911 F. +44 (0)1423 530043 E. sales@etlfe.com
www.etlfluidexperts.com

The specification and photography are for reference only and may be subject to change.
All rights reserved. ETL Fluid Experts Ltd is part of the Environmental Technologies Group Ltd.