

MICROSOLVE 450C TECHNICAL DATA

Dimensions (mm)	
Overall - length (l-r)	2200
Overall - width (f-b)	850
Overall - height	1350
Tank (internal) - l	450
Tank (internal) - w	325
Tank (internal) - d	300
Basket (internal) - l	395
Basket (internal) - w	256
For effective cleaning depth refer to a Guyson sales engineer	
Vapour depth	300
Freeboard height	450
Initial fill (litres)	118
Ultrasonic stages	
Power	1000
Watts/litre	22
Electrics	
Electrical supply	415V 50 Hz 3 phase N&E
Loading per phase (A)	20
Handling System*	
Autotrans Mk 4	Option
Autotrans Mini	Option
Materials	
Tank units	316L electropolished stainless steel
Pipework	Stainless steel
Framework, panels	Mild steel
Paint	Durable, semi-gloss, acrylic RAL 7035 grey
Control Panel	
Incorporates Operator Interface with 2 x 24 character backlit LCD display	
Function buttons	On/Off, Ultrasonics Control, Filtration Control, Temp Display, Set Variable Operating Parameters
Notes	
* Strongly recommended for maximum solvent retention and process control.	



MICROSOLVE CO-SOLVENT ULTRASONIC CLEANING SYSTEM

Guyson's Kerry Microsolve cleaning systems attain the highest cleaning standards yet keep running costs low.

Solvent retention features unique to the Microsolve range—triple coil reflux cooling, vapour break, 150% freeboard, optional auto top-up and solvent monitoring—ensure that systems are safe and comply fully with environmental and safety legislation.

These design features also mean that Microsolve systems are able to operate with low, predictable solvent usage and customers enjoy low, predictable running costs.

Options on co-solvent systems include:

- Solvent monitoring with auto top-up
- Choice of robotic handling systems



MICROSOLVE 450C



OPTIONS

Autotrans robotic handling

Autotrans Mk4 and Autotrans Mini robotic handling systems ensure consistent, repeatable cleaning results and maximise throughput.



Solvent monitoring and auto top-up

The device monitors fluid levels, automatically tops up solvent and logs quantities delivered—so that occasional increases in usage can be quickly spotted and rectified, keeping running costs low.



KEY TO SCHEMATIC (right)

- 1 Ultrasonic co-solvent clean with filtration
- 2 Ultrasonic HFE clean with filtration
- 3 Vapour rinse zone
- 4 Freeboard dry with refrigerated cooling coils
- 5 Water separator / sieve
- 6,7 Refrigerated cooling system
- 8 Plc based electrical controls
- 9 Sliding lid
- 10 Autotrans automation (option)

THE CO-SOLVENT PROCESS

Guyson Co-Solvent systems provide two ultrasonic cleaning stages, both with filtration, followed by vapour rinsing and freeboard dry.

In the first cleaning tank a mixture of HFE (hydrofluoroether) and a hydrocarbon solvating agent removes gross contamination from the components. Large quantities of dirt and oils can be taken up by the solvating agent, and this makes the process particularly suitable for heavy duty cleaning.

In Stage 2 pure HFE distillate removes from the components residues carried over from the primary cleaning tank.

Both cleaning tanks include base mounted ultrasonic transducers with Pulsatron generator, solution heating and a pumping and filtration system.

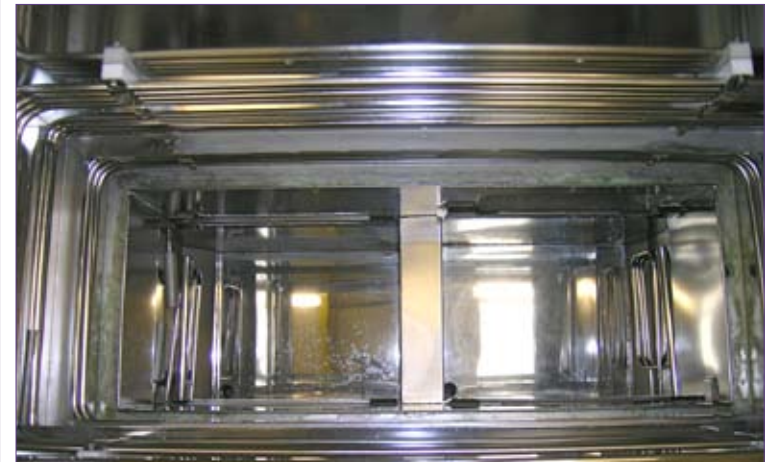
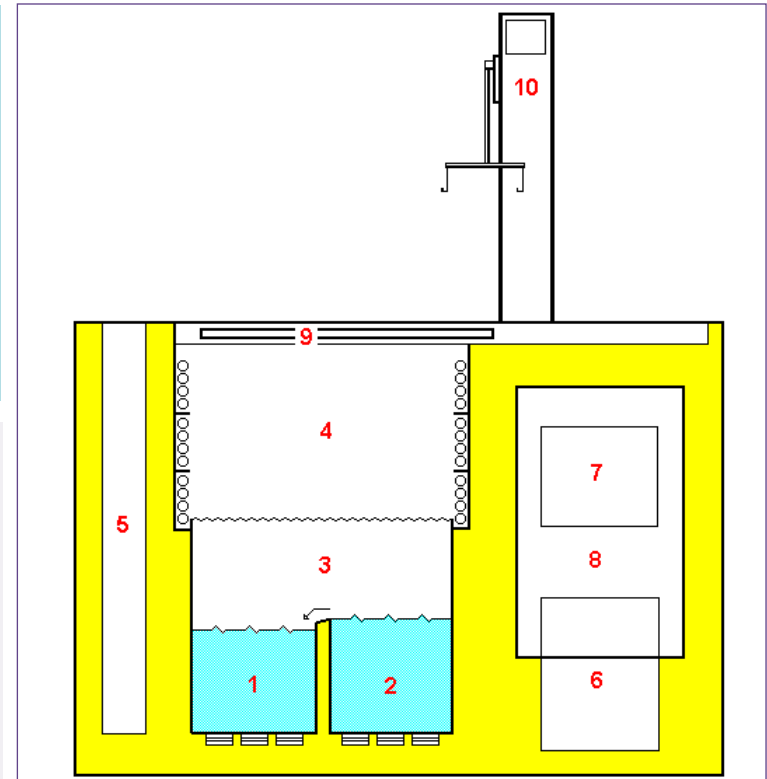
Cleaning is followed by a rinse in the vapour zone above the tanks and then a dwell in the freeboard zone to dry the components.



FM 38758

ISO 9001:2000

MICROSOLVE 450C



Modifications and improvements to Guyson machines are introduced from time to time as a direct result of our policy of continuous development. Consequently all designs and specifications quoted must be regarded as subject to change. Please refer to quotation.

Ref: Microsolve 450C 05/07

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