



**aqua-save**  
water recycling

**JUNIOR AND ULTRA SYSTEMS**



HIGH PERFORMANCE  
**WASH WATER RECYCLING AND  
WASTE WATER TREATMENT**

# WASH WATER RECYCLING AND WASTE WATER TREATMENT

SMALL FOOTPRINT • HIGHLY VERSATILE • NO REPLACEABLE MEDIA  
ENVIRONMENT-FRIENDLY • COMPETITIVE PRICE • ENGINEERED TO LAST

The Aqua-Save range is designed to recover and re-use industrial waste water such as wash and rinse solutions, waste coolant and dye penetrant. This reduces the potentially high cost and inconvenience of off-site disposal with an environmentally sustainable approach.



BEFORE

AFTER

CONCENTRATE

"We also bring in a regular series of IBCs from other processing locations around the site and, with the simple switch of a lever, link these periodically to the Aqua-Save facility. The results in both processing and environmental terms are significant..."

R S Rowe & Partners (Rowes)

The Aqua-Save is an integrated evaporator, with condenser. It is a compact and versatile system which is self-contained:

- The system processes waste water by evaporation to produce clean water that typically represents 95% of the original volume, with only 5% as a concentrated waste for safe removal from site (dependent on waste stream)
- It can be moved between key waste water generating points in an industrial process treating waste in situ
- One can be added to an aqueous wash system to maintain solution cleanliness and washing performance, whilst reducing machine downtime and minimizing effluent disposal
- The recovered water can be re-used on site, producing further savings on water and energy bills
- The entire process is controlled and monitored by a PLC and HMI so the system can be operated unattended.

Treat, recover and re-use waste water within your own premises, removing the high cost and inconvenience of off-site disposal, as well as the added benefit of recycling the water back into industrial processes.

The Aqua-Save provides rapid payback in many applications. Evaluate the benefits for your business by using the calculators on our website.

## CALCULATE YOUR SAVINGS

Wash water recycling:

[www.mecwash.com/aqua-save/wash-water-recycling](http://www.mecwash.com/aqua-save/wash-water-recycling)

Waste water treatment:

[www.mecwash.com/aqua-save/waste-water-treatment](http://www.mecwash.com/aqua-save/waste-water-treatment)

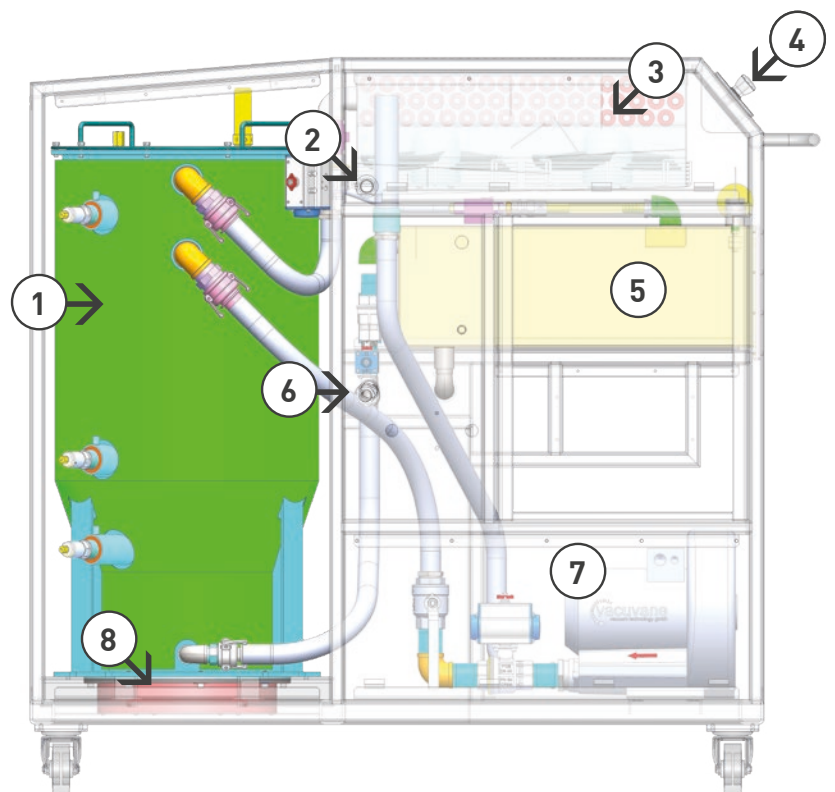


Aqua-Save Junior at Universal Engineering Company (Charlstown) Ltd



Aqua-Save Junior at H S Rowe & Partners (Rowes) Ltd

1. Solution process chamber
2. Clean water out
3. Heat exchanger and fans
4. HMI
5. Waste concentrate vessel
6. Dirty water in
7. Blower
8. Heater plate



“The Aqua-Save has helped us to reduce the business’ impact on the environment which is something we are very proud of, and this certification has brought us considerable financial savings...”

**Concentric AB**

# TECHNICAL DETAILS

## AQUA-SAVE JUNIOR AND ULTRA

### General specifications

Description	Aqua-Save Junior	Aqua-Save Ultra
Solution processed/hour	10-15 litres/hour	20-30 litres/hour
Overall machine size (w x l x h)	415 x 1100 x 1500mm	650 x 1600 x 1500mm
Weight	250Kg	480Kg
Power supply	400V 3-phase + earth	400V 3-phase + earth
Power usage	11-12kw	22-24kw
Services required	Power supply and compressed air	Power supply and compressed air

“Waste water is an inevitable by-product of our machining processes and day-to-day factory operation. With the Aqua-Save in place, we have a state-of-the-art answer which is not only meeting immediate requirements but is well placed to reflect our continuing growth in the future.”

**Nasmyth Bulwell**

### Standard equipment

- Compact, stand-alone system requiring minimum floor space
- Enclosed system
- Stainless steel process chamber and heat exchanger
- Incoloy heating elements
- Anti-foam dosing pump and container
- Integrated waste concentrate drum
- Automatically fills, processes and ejects waste
- Fully automatic operation with PLC control and HMI for monitoring process and machine status
- No operator needed / minimal maintenance
- No chemical additives / filter membranes required
- System is designed for continuous treatment 24/7
- Mobile (on castors) so easily moved between waste locations.

### THE CHOICE OF THE WORLD'S LEADING ENGINEERS...

MecWash systems are supplied and supported around the world, either direct from the UK, or through a network of agents and distributors, with installations in the USA, Canada, Mexico, China, India, Singapore, Thailand, Indonesia, Australia and throughout Europe.

Customers include Rolls-Royce, ZF TRW, BorgWarner, JCB, Parker Hannifin, Perkins, UTC Aerospace Systems, Pall, Eaton, Renishaw, Jaguar Land Rover, Draeger Safety, Pratt & Whitney, Cummins and Triumph Motorcycles.

These blue chip companies are not only leading organizations within their fields, they are also part of a track record of which we are proud. It is our deep knowledge of the process, chemistry and technology of aqueous component cleaning which provides valued, tangible benefits that our customers worldwide readily acknowledge.

# MecWash

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