



CREST
ULTRASONICS EUROPE

SOLVAC S2 1812

ECO-FRIENDLY, POWERFUL CO-SOLVENT CLEANING



➤ INCREASED SOLVENT RETENTION

And reduced energy consumption with the Crest Vapotronic Electro-Pulse Modulation system

➤ ECO-FRIENDLY TECHNOLOGY

Automated compression lid allows for efficient energy use and fewer carbon emissions into the environment

➤ TWIN-REFRIGERATION UNITS

Ensures that the vapor heat load does not affect freeboard cooling



PLUG & PLAY

READY FOR USE



TWIN-SUMP

POWERFUL WASHING AND RINSING



40 - 132 kHz

FREQUENCY RANGE



UP TO 4000W

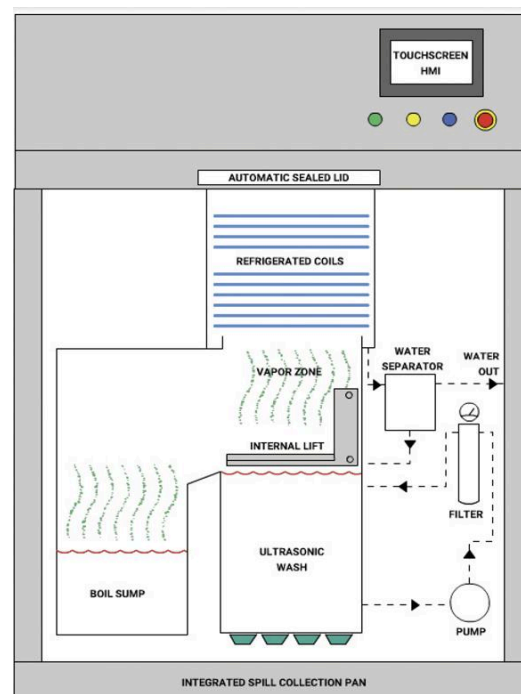
POWER OUTPUT

Solvac Vapor Degreaser Systems

COMPACT CLEANING PACKED WITH ECO-FRIENDLY TECHNOLOGY

Solvac™ Vapor Degreaser systems are designed to safely operate with several of today's non-flammable and EPA-approved solvents. Our automated compression lid seals in machine contents, which allows more efficient use of energy and fewer carbon emissions into the environment. Additionally, a Vapotronic Electro-Pulse Modulation system increases solvent retention and reduces energy consumption over conventional vapor degreasers.

Reduce required floor space, operator time, operational costs, and carbon emissions with the Crest Solvac™ Series of precision ultrasonic vapor degreasers.



THE CLEANING POWER OF SONICS

Ultrasonic energy introduced into a solution causes alternating patterns of low and high-pressure phases. During the low-pressure phase, bubbles or vacuum cavities form. In the subsequent high-pressure phase, these bubbles implode violently. This is called cavitation.

Cavitation provides an intense scrubbing action that leads to unsurpassed cleaning speed and consistency. Additionally, the bubbles are small enough to penetrate even microscopic crevices, cleaning them thoroughly and consistently. As a result, ultrasonic cleaning is one of the most effective and efficient methods you can use for cleaning a wide array of parts, without abrasive contact materials on your part's surface.

Our exclusive ceramically enhanced transducers ensure uniform cleaning throughout the tank by sweeping the ultrasonic frequency 3 kHz, creating overlapping ultrasonic waves that provide more consistent cleaning.

Crest Ultrasonics is the global leader in the design, wet process development, and manufacturing of precision cleaning equipment. We are committed to providing the best technology and solutions to meet the needs of our customers – both in products and wet process design. Our global Crest Group organization provides the significant resources, manufacturing expertise, and industry experience needed to support our customers around the world.

SUPERIOR CLEANING FOR A WIDE RANGE OF INDUSTRIES

Solvac™ Vapor Degreaser systems have proven to effectively remove contaminants such as surface oils, greases, solder flux and wax. Many companies spanning a wide range of industries depend upon Solvac™ Ultrasonic Vapor Degreasers including medical, automotive, aerospace, electronics, and optical. From rugged industrial applications to critically precise needs, Solvac™ Vapor Degreaser systems can meet your company's cleaning demands.

Twin Sump Design For Co-Solvent Cleaning Applications

FASTER CYCLE TIMES AND HIGHLY EFFICIENT COMPONENT DRYING

The eco-friendly S2 offers the Solvac™ line's most premium features.



- **Reduces operator labor, cycle times, and overall running costs** — Automatic low-line transfer, using an internal lifter that keeps the lid closed and sealed throughout the process
- **Highly efficient component drying with maximizing solvent distillation** — Twin refrigeration units (dedicated primary and secondary cooling) ensure that vapor heat load does not affect freeboard cooling

THE SOLVAC ADVANTAGE

(Features in both the S1 and S2 models)

- **Reduces solvent consumption and costs** — Solvac™ auto-sealing compression lid serves to retain solvent, which is more efficient than machines without auto-sealing lids
- **Reduces solvent loss, lowers electric expense** — Vapotronic Electronic Pulse Modulation System sends electrical heat energy into the solvent only as needed, instead of the continual flow used in less efficient machines
- **Improved operator controls and diagnostics** — Compact PLC coupled with a high-resolution, full-color touchscreen HMI
- **Easy remote access, data export, and firmware updates** — Front-panel mounted RJ45 connection and a USB port on the PLC for stick drive
- **Upgraded refrigeration minimizes solvent loss, increases efficiency** — Able to maintain a colder freeboard area vs. competitive models
- **Maximizes vapor rinsing for better cleaning** — Distilled solvent cooler line helps reduce the process sump temperature, thereby increasing the temperature differential between components and vapor
- **Increases operator safety** — Interlocking the internal lifter with the lid helps eliminate hoist movement while the lid is open
- **Highly convenient process status reports** — Unobtrusive LED status strip uses a combination of red, green, and blue lights to display current status of the cleaning process

Solvac S2-1812 Specifications

General	S2 Base Specification
Voltage	415V three phase, 50A
Solvent	Capable of using most non-flammable solvents
Total solvent capacity	approx. 160 litres
Basket	
External Dimensions	400mm(w) x 247mm(f-b) x 279mm(h)
Supplied Quantity	2
Control	
HMI	High Resolution full colour B&R touch screen
Status strip	24V tricolour LED strip showing system status
Mechanical buttons	Lid Open/Close, Cycle Start, Control Reset, E-Stop
PLC connection	Front panel mounted Ethernet port
Services	
Air Inlet	12.7mm socket. 5 bar CDA
Fill Point	Externally mounted 19.05mm valve
Drain points	Internal 19.05mm valves
Water separator	12.7mm solvent drain and water take off valves
Frame	
Construction	40mm x 40mm x 3mm 304 brushed stainless steel box section, with 304 stainless steel brushed finish panels
Castors	4 Heavy Duty locking castors
Wash Sump	
Tank Size	500mm(w) x 350mm(f-b) x 330mm(d)
Solvent Capacity	74.5 litres
Low level protection	Ultra sonic level sensor
Full level Sensor	Ultra sonic level sensor
Temperature measurement	'K' type thermocouples
Overtemp Cutout	0-120°C Mechanical thermostat.
Sealing lid	Single pneumatically sealed lid over wash and rinse sump

Solvac S2-1812 Specifications

Wash Sump Continued	
Heat	
Number of heaters	3
Heater output (per heater)	1Kw low watts density cartridge heater
Heater Length	500mm
Ultrasonic Frequency	40Khz
Wattage	750 watts
Transducer type	Bonded Transducers
Rinse Sump	
Tank	
Tank Size	500mm(w) x 350mm(f-b) x 380mm(d)
Solvent Capacity	76.4 litres
Low level protection	Ultrasonic level sensor
Temperature measurement	'K' type thermocouples
Sealing lid	See Wash sump
Heat	
Number of heaters	1
Heater output (per heater)	1Kw low watts density cartridge heater
Heater Length	500mm
Filtration	
Filter type	Stainless steel housing for 254mm wound cartridge
Filter size (micron)	10 micron wound cartridge
Filter Location	Internal
Ultrasonics	
Frequency	132Khz
Wattage	750 watts
Transducer type	Bonded Transducers

Solvac S2-1812 Specifications

Hoist	
Capacity	20KG
Vertical movement	Motor driven lift with rotary encoder positioning and proximity top limit sensor
Horizontal movement	Pneumatically driven automatic basket transfer system
Refrigeration	
Louvres	4 sided ProLine3
Primary coil temperature	Operating down to 0°C
Freeboard coil temperature	Operating between -20°C and -30°C

We Can Build The Perfect Machine For Your Cleaning Challenge

Optional extras:

- ✓ Transport automation
- ✓ Custom tank sizes
- ✓ Ultrasonic frequencies
- ✓ Lift capacity
- ✓ Data acquisition/ reporting
- ✓ Bar code scanning
- ✓ Super-heat drying
- ✓ Enclosure with load/ unload positions
- ✓ Custom baskets
- ✓ Up to two additional process stations



Solvac S2 1812 – Increased Tank Size, Flexi Track Automation

UNMATCHED SERVICE INFRASTRUCTURE

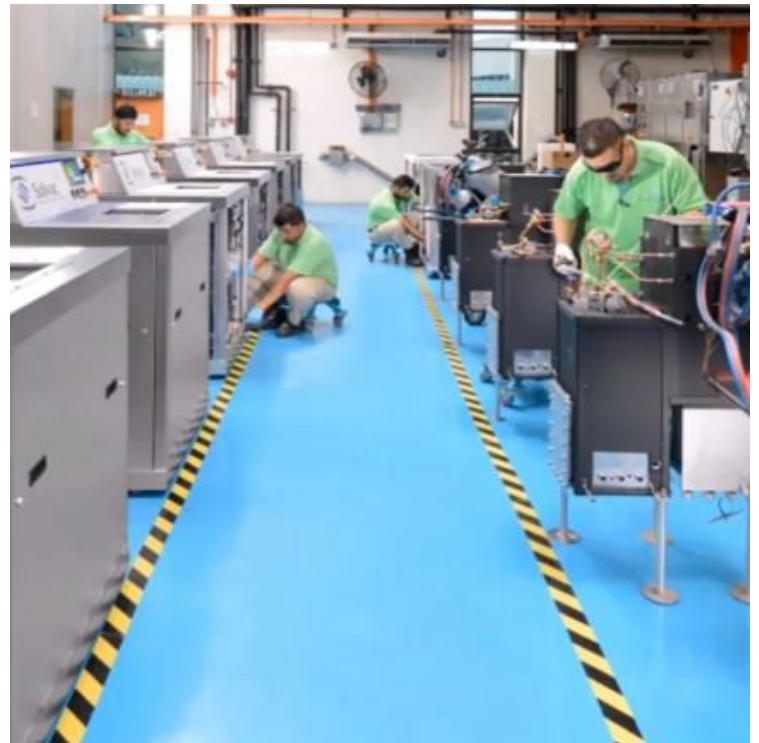
Crest Ultrasonics Europe is proudly part of the Crest Group - the global leader in ultrasonic cleaning equipment. The Crest Group shares technology and materials throughout the group and operates with customers in over 100 countries, creating a service infrastructure that cannot be matched by any competitor, either public or private.

CREST GUARANTEE

We are so confident of our quality we offer an unmatched 10 year guarantee on transducers in our machines.

For full details please see:

www.crest-ultrasonics-europe.com/crest-gaurantee



Inside our Crest Manufacturing Facility



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