SOLVAC S1 1812

INCREASED TANK SIZE AND ULTRASONIC POWER

> **AUTOMATED PROCESS**

Washing, rinsing, cooling, and drying all automated by an internal lifter

> **POWERFUL CLEANING**

Vapor rinse is maximised with a distilled solvent cooler line giving a unique advantage to our machine

> **REMOTE ACCESS/ MONITORING**

Front-panel mounted RJ45 connection and a USB port on the PLC for stick drive

PLUG & PLAY
READY FOR USE

25 - 132 kHz
FREQUENCY RANGE

**COMPRESSION LID**
LIMITS SOLVENT CONSUMPTION

UP TO 1000W
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 emmissions with the Crest Solvac™ Series of precision ultrasonic vapor degreasers.
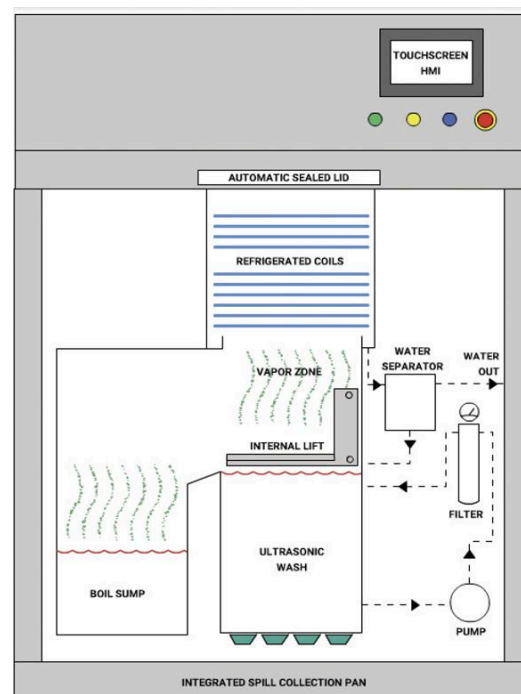
THE CLEANING POWER OF SONICS

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.

Website (Multilingual):

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+44 1279 797277

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All The Premium Features Of The S1 With Extra Tank Sizing And Twin-Compressors

AUTOMATED SOLVENT WASHING, RINSING, COOLING, AND DRYING

The cost-efficient Solvac™ S1 provides automated solvent washing, rinsing, cooling, and drying all in a single compact unit. The S1 offers premium standard features at a budget-friendly cost.

• **Reduces solvent consumption by lowering freeboard area temperature** — With an increase in the freeboard coil zone.

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

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Solvac S1-1812 Specifications

General	S1 1812 base specification V1.0
Voltage	**415V 3 phase, 50Hz, 20 Amps (Europe)**
Solvent	**Compatible with most non flammable solvents**
Initial fill	97 litres
Basket	
Dimensions	400mm(w) x 248mm(f-b) x 229mm(d)
Supplied Quantity	1
Control	
HMI	High Resolution full colour B&R touch screen
Status strip	12V 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	8mm push fit connection. 5 bar CDA
Fill Point	Internal valve with inlet at front of system
Drains	Internal valves, with external drain ports at rear of system
Frame	
Construction	Folded 304 Stainless steel sheet
Castors	4 Heavy Duty locking castors
Vapour Generator	
Tank	
Tank Size	255mm(w) x 255mm(f-b) x 250mm(d)
Solvent Capacity	16 litres
Safety features	
Low level protection	Ultra sonic level sensor
Temperature measurement	'K' Type Thermocouples
Overtemp Cutout	0-120ºC Mechanical thermostat
Sealing lid	**See Process Sump**

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Solvac S1-1812 Specifications

Vapour Generator Continued	
Heat	
Number of heaters	8
Heater output (per heater)	500w low watts density cartridge heater
Heater Length	228.6mm
Process Sump	
Tank	
Tank Size	470mm(w) x 300mm(f-b) x 297mm(d)
Low level protection	N/A
Overtemp Cutout	N/A
Sealing lid	Pneumatic Sealing lid with coated polycarbonate window
Filtration	
Pre-Filter	Double open ended stainless steel filter housing for 254mm wound cartridge.
Pre-Filter size (micron)	25 micron cartridge
Filter type	Single open ended stainless steel housing for 254mm cartridge
Filter size (micron)	10 micron
Filter Location	Internal
Filtration	
Frequency	132Khz
Wattage	1000 watts
Transducer type	Bonded transducer
Hoist	
Capacity	22kg
Vertical movement	Torque limited motor driven, with Proximity sensor positioning
Refrigeration	
Primary condensing unit	Operating down to 0ºC
Freeboard condensing unit	Operating down to -15ºC
Louvres	4 sided ProLine3

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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**

*Custom S1 1812 – Load Lock™ Sealed Loading Chamber, Internal Automation*

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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
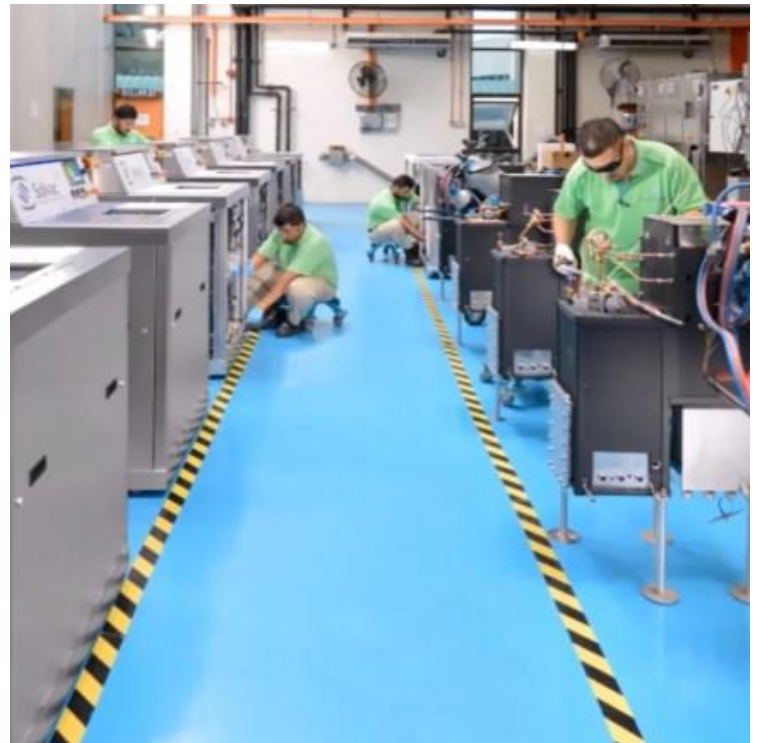
Inside our Crest Manufacturing Facility

Delivering Renowned Crest Ultrasonic Cleaning to Europe

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