



Ultrasonic single-frequency cleaning device USR S/H

single frequency device with heating system

Application:

USR S model ultrasonic cleaning devices with heating system H are designed as single-frequency devices. They are used primarily in the metalworking industry for gentle, intensive cleaning of parts made from steel, light metal, non-ferrous base metal, plastic and glass. The temperature-controlled heating system helps dissolve dirt thereby improving cleaning times and cleaning results. Ideal for removing greases, oils, swarf, flux, paint residue, soot, scale, dust etc.

Execution:

- Single-frequency devices 37 kHz
- Double half-wave sound adapted to bath geometry
- Table-mounted device with controls on front
- Deep-drawn ultrasonic bath made from special, highly cavitation-proof stainless steel
- Cleaning time and temperature pre-selection can be set via separate rotary dials

- Temperature dial for setting range from 30°C to 80°C in 5° increments
- Heating with dry run protection
- Freely-positionable drain on rear of device
- base-mounted transducers

Advantage:

- Sweep function facilitates homogeneous sound distribution in cleaning bath and improves cleaning performance
- Autodegas/degas for rapid degassing
- Temperature-controlled ultrasound activation at pre-heated temperature
- Integrated fill level marking

Delivery:

Ultrasonic cleaning device basic unit USR S/H with-out insert basket and standard cover



Ident. No. 033-063, 083-093
Fig. with standard cover made of stainless steel



Ident. No. 071
Fig. with standard cover made of plastic

Model	USR S 30H	USR S 40H	USR S 60H	USR S 100H	USR S 120H	USR S 180H	USR S 300H	USR S 450H	USR S 900H
Max. tray contents (l)	2.75	4.25	5.75	9.5	12.75	18	28	45	90
Tray width (inner) (mm)	240	240	300	300	300	327	505	500	600
Tray depth (inner) (mm)	137	137	151	240	240	300	300	300	500
Tray height (inner) (mm)	100	150	150	150	200	200	200	300	300
Effective ultrasonic capacity (W)	80	140	150	200	200	200	300	400	800
Max. ultrasound peak capacity (W)	320	560	600	600	800	800	1200	1600	3200
Heating power (W)	200	200	400	600	800	800	1200	1600	2000
Max. power drain (W)	280	340	550	550	1000	1000	1500	2000	2800
Single frequency (kHz)	37	37	37	37	37	37	37	37	37
Min./max. nominal voltage	220 / 240 V/AC	220 / 240 V/AC	220 / 240 V/AC	220 / 240 V/AC	220 / 240 V/AC	220 / 240 V/AC	220 / 240 V/AC	220 / 240 V/AC	220 / 240 V/AC
Outlet connection (in)	3/8	3/8	3/8	3/8	3/8	3/8	3/8	1/2	1/2
Ultrasonic single-frequency cleaning device USR S/H	43690...								
Ident. No.	033	043	046	053	063	071	083	091	093 (O)*
Ultrasonic cleaning device covers	43690...								
Plastic standard cover	131	131	146	151	151	171	183	-	-
stainless steel standard cover	-	-	-	-	-	-	-	191	193
Ultrasonic cleaning device basket	43690...								
stainless steel insert basket	231	243	246	251	263	271	283	291	293
Ultrasonic cleaning device immersion baskets for USR	43690...								
Hostalen immersion basket	311	311	311	311	311	311	311	311	311
Stainless steel immersion basket	411	411	411	411	411	411	411	411	411

Prod. Gr. 432



Insert basket for USR model series

USR model series

Execution:

- Stainless steel insert basket



Cage size	10	30	40	60	100	120	180	300	450	900
Basket width (inner) (mm)	177	198	190	255	255	250	280	455	455	545
Basket depth (inner) (mm)	73	106	105	115	200	190	250	250	270	450
Basket height (inner) (mm)	30	50	75	75	75	115	115	115	194	250
Wire Ø (mm)	1	1	1	1	1	1	1	1	1	1.2
Cage mesh size (mm)	7	7	7	9	9	9	9	9	9	16
Max. cage load (kg)	1	1	3	5	6	7	8	10	20	30
43690...	211	231	243	246	251	263	271	283	291	293
stainless steel insert basket										
Ident. No.										

Prod. Gr. 432

Source: Hahn+Kolb Werkzeuge GmbH
Technical data subject to change.
Availability subject to country specific rules and regulations.

www.iconridge.com

Elma Submersible baskets for ultrasonic cleaning devices
made from Hostalen (polyethylene) or stainless steel

Application:

Ident. No. 311: Ideal for high-quality, sensitive small parts.

Ident. No. 411: Ideal for small parts.

Execution:

▪ **Ident. No. 311:**

- Hostalen (polyethylene) immersion basket
- Closed immersion basket without cover
- **Ident. No. 411:**
- Stainless steel immersion basket
- Close-meshed immersion basket without cover



Ident. No. 311



Ident. No. 411

Ø (mm)	Height (mm)	Hostalen immersion basket		Stainless steel immersion basket	
		43690... Ident. No.	311	43690... Ident. No.	411
74	50	-	●	-	-
59	60	-	-	411	●

Prod. Gr. 432

ATORN® Spring balances with spherical probes

Application:

For testing and setting control elements with adjustable friction moments, contact forces in electrical switch gears and regulating and controlling elements in motor vehicles.

Execution:

- Measuring possible in both directions
- Dial face with scale in centinewtons (cN) or newtons (N)

- Error limit 0.01 x (final value + measured value)
- Trailing pointer
- **Ident. No. 151:** Shortened sensor lever

Delivery:

In case



Min./max. force of measuring range	3-30 cN	5-50 cN	10-100 cN	25-250 cN	50-500 cN	100-1000 cN	300-3000 cN	500-5000 cN	1000-10000 cN
Scale value, force (cN)	1	1	2	5	10	20	50	100	200
Meter Ø (mm)	36	36	36	36	72	72	72	72	72
Sensor length (mm)	29	29	29	29	48	48	48	48	8
Weight (g)	64	64	64	64	260	260	278	294	290
44100...	041	051	061	081	091	101	121	131	151
Ident. No.	●	●	●	●	●	●	●	●	○

Prod. Gr. 440