

## Reliable industrial ultrasonic units with:

- Leading edge ultrasonic technology
- DUAL frequency technology
- Maximum cleaning efficiency

## Ultrasonic cleaning at its best:

The manual **multi-chamber cleaning systems of the series KKS-H** are robust and reliable equipment for **industrial cleaning**. They offer both, the usage of emulsifying and demulsifying cleaning media. Thus, these systems are ideal for **intermediate cleaning processes**, where much oil must be removed. Of course, by using ultrasound, they achieve excellent cleaning results even in final cleaning processes.

The cleaning chamber is provided with an integrated **oil-skimming device**. The cleaning tank and the rinsing tank are both equipped with a **micro-filter** and a **continuous media circulation**. This ensures a **reproducible cleaning quality and a long operating life of the cleaning and rinsing liquids**.

PLC control panel for ease of operation



Process specific basket



Rear-side view of a four-chamber "Cell-Cleaning-Unit" with oil separator and DI-water circuit



# Compact Multi-Chamber Cleaning-Units "Cell-Cleaning Unit"



Custom-made Cell-Cleaning Unit



US-cleaning with integrated filter circuit and oil-skimming device

US-rinsing with integrated filter circuit

US-DI-rinsing

Hot air drying

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Type	40 liters				70 liters			
Technical data	KKS-H3-40 1101-2	KKS-H3-40 1101-1	KKS-H2-40 1100-2	KKS-H2-40 1100-1	KKS-H3-70 1101-2	KKS-H3-70 1101-1	KKS-H2-70 1100-2	KKS-H2-70 1100-1
External dimensions in mm	L x B x T	1400 x 850 x 970		1000 x 850 x 970		1500 x 1000 x 970		1000 x 1000 x 970
Tank inner dimensions in mm	L x B x T	400 x 300 x 400		400 x 300 x 400		550 x 300 x 400		550 x 300 x 400
Basket dimensions in mm	L x B x T	350 x 250 x 250		350 x 250 x 250		450 x 250 x 250		450 x 250 x 250
Proceedings	1.	Ultrasonic cleaning	Ultrasonic cleaning	Ultrasonic cleaning	Ultrasonic cleaning	Ultrasonic cleaning	Ultrasonic cleaning	Ultrasonic cleaning
	2.	Ultrasonic rinsing	Rinsing	Ultrasonic rinsing	Rinsing	Ultrasonic rinsing	Rinsing	Rinsing
	3.	Hot air drying	Hot air drying	-	-	Hot air drying	Hot air drying	-
Tank volume approx.	40 liters		40 liters		70 liters		70 liters	
Ultrasonic frequencies	Standard: SINGLE 27 kHz/30 kHz/40 kHz/60 kHz Option: DUAL 27 & 80 kHz/30 & 60 kHz/40 & 100 kHz				Standard: SINGLE 27 kHz/30 kHz/40 kHz/60 kHz Option: DUAL 27 & 80 kHz/30 & 60 kHz/40 & 100 kHz			
Ultrasonic power	2 x 600 W	1 x 600 W	2 x 600 W	1 x 600 W	2 x 1000 W	1 x 1000 W	2 x 1000 W	1 x 1000 W
Filter circuit for tanks 1 + 2	100 µm		100 µm		100 µm		100 µm	
Heating power tanks 1 + 2	2 kW		2 kW		3 kW		3 kW	
Heat-up time Δ T 30°C	0.9 h		0.9 h		1 h		1 h	
Dryer heating power	5 kW		-		5 kW		-	
Max. loading capacity	10 kg		10 kg		10 kg		10 kg	

\* Special versions upon request

### Special Features:

- These units are able to operate without a fresh water or wastewater connection and therefore can be directly integrated into the production line
- Housing made entirely of stainless steel
- Cavitation-resistant tanks, made of stainless steel (1.4462)
- Cleaning and rinsing tank with integrated filter circuit
- The units are mobile

### Upon request:

- Special dimensions
- DI-water rinsing
- Flow-Rinsing

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