

Introduction

The base of the US cleaner is ultrasonic transducer. It is a source of mechano-acoustic energy, which is transferred to the cleaning liquid and creates an ultrasonic field. As a result of changing acoustic pressure and underpressure in liquid occurs, so called cavitation (hydrodynamic cavity created in liquid at sharp descent in ambient pressure), which is interfering coupling between impurities and surface of cleaning item. Because that cavitation is in all of liquid volume, the cleaning is realized also in not accessible places, in corners, hollows, etc., which is hard cleaning with standard cleaning system.

UCEI cleaners are intended for more demanding industrial applications. Tanks are welded from stainless steel with 2 mm thickness, membrane is from stainless steel with 3 mm thickness.

We produce volumes 40, 80, 120 and 160 liters. They contain overflow container, where flows the excess liquid when cleaned item is immersed. They contain also water level sensor. If the cleaning liquid level is not in the desired height, it is not possible turn on the cleaner.

Digital control allows besides other things to set temperature, time and power of ultrasound and save up to 10 cleaning programs with these parameters.

Dissolved gas in the cleaning liquids reduce the cleaning effect. Therefore, the cleaners have function DEGAS, which helps to degas of cleaning liquids.

Function SWEEP helps to ensure that ultrasonic field is more equable for whole volume in cleaning liquids.

Applications

- empty toner cartridges
- rubber mouldings forms
- microchip wafers
- glass parts of crystal chanfeliars
- fire detectors in buildings
- engine components
- stencils
- series of hundred thousands metal parts before assembly
- subtitles film strips
- objects prior to surface treatment
- mechanics of printers
- printed circuit boards with electronic components
- filters
- objects intended for decontamination in nuclear power stations
- and many more



Technical parameters

Version	all-stainless steel
Control	digital control panel
Protection	water-level sensor for protection of heating elements and ultrasound transducers
Intake valve	3/4"
Drain valve	3/4"
Overflow valve	1/2"
Function DEGAS	yes
Function SWEEP	yes
Lid	yes
Bas	not included - must be ordered separately

Technical parameters

Type	Volume	Inner tank dimensions vane (w x l x h)	Liquid level	Ultrasonic power (vintage / effective)	Heating	Overell dimensions
	liter	mm	mm	W	W	mm
UCEI40.00	40	548 x 240 x 400	300	1200 / 600	2000	440 x 750 x 830
UCEI80.00	80	660 x 400 x 400	300	2400 / 1200	4000	600 x 880 x 830
UCEI120.00	120	680 x 450 x 500	400	3600 / 1800	6000	650 x 880 x 830
UCEI160.00	160	880 x 450 x 500	400	4800 / 2400	6000	650 x 1080 x 830

Marking of cleaners

UCEI	40	.	00
	80		01
	120		02
volume in liters	160		03
			04

04 departure from the standard

Basket dimensions

Type	Basket dimensions (w x l x h)
	mm
UB40/01	490 x 180 x 340
UB80/01	600 x 340 x 340
UB120/01	620 x 390 x 440
UB160/01	820 x 390 x 440

Marking of baskets

UB	40	/	01
	80		02
	120		03
volume in liters	160		04
			05

05 departure from the standard

Production and development :

- ultrasonic compact cleaners
- ultrasonic industrial cleaners
- ultrasonic cleaning technologies
- ultrasonic generators for cleaners
- membrane and immersion ultrasonic emitters
- bar type ultrasonic emitters
- rinsed tanks
- ultrasonic welders
- ultrasonic generators for welding
- ultrasonic transducers for welding
- welding sonotrodes
- ultrasonic cutting systems
- ultrasonic generators for cutting systems
- ultrasonic transducers for cutting systems
- guillotine and blade cutting sonotrodes
- ultrasonic cleaning of items



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