



**Iskra pio** d.o.o.  
Industrial equipment manufacturer

## ULTRASONIC CLEANING BATHS

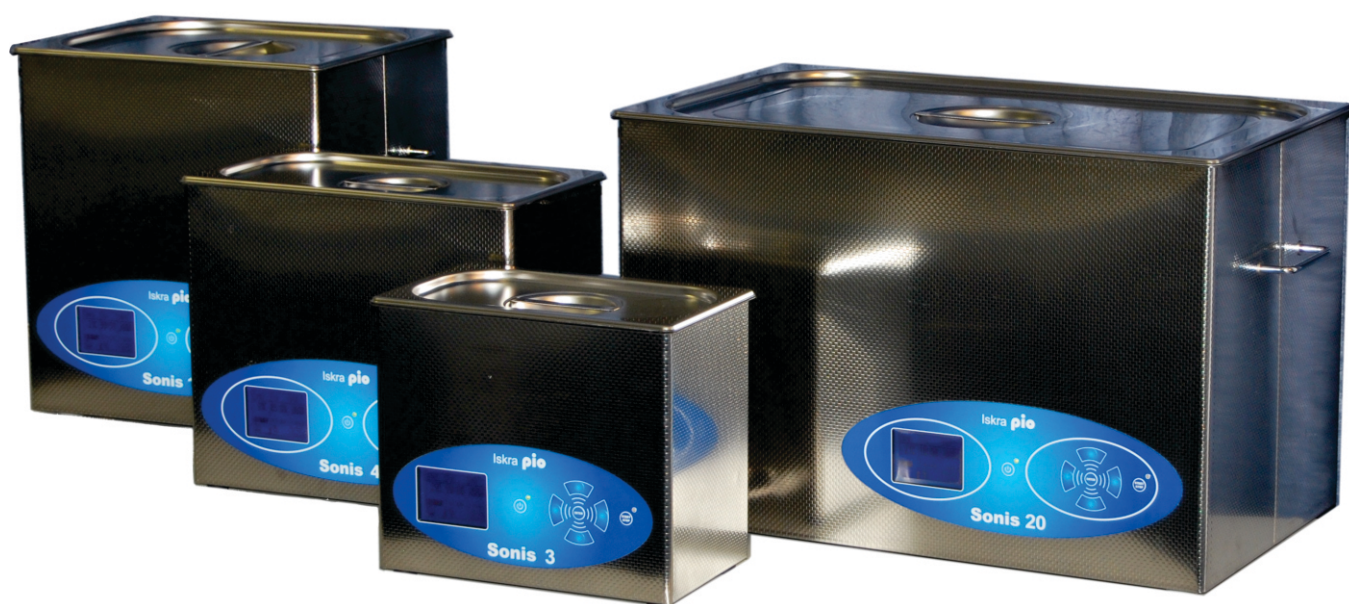
### SERIE'S DGT (DT)



Sonis 3 DGT (DT)  
Sonis 4 DGT (DT)  
Sonis 10 DGT (DT)  
Sonis 20 DGT (DT)

A new generation of ultrasonic baths which are based on digital technology, which allows greater flexibility of ultrasonic technology, even for the most demanding users. In the new series are embedded piezoelectric transducers (sandwich construction), a frequency of 40 kHz. This enables lower noise levels and better treatment effects even for complex products.

A new type of ultrasonic generator has dynamic frequency tuning and modulation control (PLL). This cleaner has digital interface panel with LCD display, which enables settings for its operation and current parameters. All the external parts (bath, housing and cover) are made from stainless steel, which provides long life and effective cleaning of equipment. Operation of the bath is allowed via the foil keyboard, which is resistant to spillage.



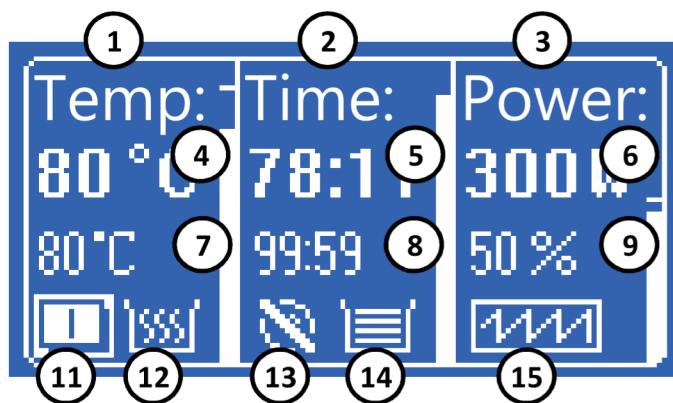
### Application

- cleaning
- dissolving
- mixing
- degasification
- decontamination

### Basic characteristics

- operating frequency: 40 kHz
- sandwich piezoelectric transducers
- microprocessor control of the ultrasonic generator
- the front has a mounted membrane keypad that allows operation parameters

## LCD GRAPHICAL DISPLAY



- 1 – temperature field
- 2 – time field
- 3 – ultrasonic power control
- 4 – current temperature
- 5 – current field
- 6 – current power
- 7 – set temperature
- 8 – set time
- 9 – set ultrasonic power
- 11 – heater switch on/off
- 12 – heaters display on/off
- 13 – ultrasonic display off
- 14 – ultrasonic display on
- 15 – output frequency modulation

## Details

An ultrasonic generator is a set of electronic circuits which change electric energy into a high frequency of electrical energy. The basic concept behind the design of the PIO generator is that it always guarantees the maximum performance.

This technology has the advantages of piezzo-electric transducers, without any disadvantages:

- highest possible efficiency,
- can tolerate high capacity without danger of damage from over loading,
- homogeneous frequency distribution over the whole surface,
- high quality output does not diminish with time,
- the ultrasound is spread in a wide range.

A digital thermostat and timer reads and maintains a constant temperature and working time. Regulation, heating, start-up (timers) and all digital indicators for adjustment are located on the control panel. The components are made from the highest European quality.

## Specifications

Type	Bath, inner dimensions LxBxH	Outer dimensions LxBxH	Volume	Weight, neto	Frequency	VF peak power output	Power consumpt	Heating	Drain
	[mm]	[mm]	[l]	[N]	[kHz]	[W]	[W]		
Sonis 3 DT	240x137x100	265x190x230	2,8	36	40	2 x 160	80	NO	NO
Sonis3 DGT	240x137x100	265x190x230	2,8	40	40	2 x 160	180	YES	NO
Sonis 4 DT	300x150x150	325x205x280	5,7	60	40	400	100	NO	YES
Sonis 4 DGT	300x150x150	325x205x280	5,7	67	40	400	300	YES	YES
Sonis 10 DT	300x240x200	370x320x350	12,5	95	40	600	300	NO	YES
Sonis 10 DGT	300x240x200	370x320x350	12,5	102	40	600	700	YES	YES
Sonis 20 DT	500x300x200	580x380x350	28	158	40	1200	600	NO	YES
Sonis 20 DGT	500x300x200	580x380x350	28	167	40	1200	1300	DA	YES



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