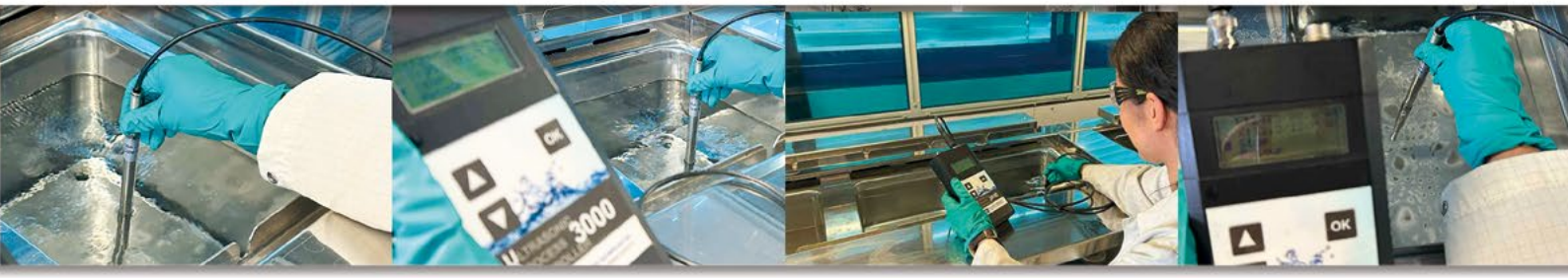
Cleaning Technology

UPC 3000

ULTRASONIC PROCESS CONTROLLER



PRECISION CLEANING SOLUTIONS

SWISS QUALITY

UPC 3000 EQUIPMENT: ULTRASONIC PROCESS CONTROLLER FOR YOUR CLEANING LINES

CLEANING PROCESS CHECKLIST WITH OUR UPC3000

Cleaning processes are a combination of multiple parameters. Before considering replacing the chemistry, NGL recommends that these other main parameters be checked:

- Quality of rinse water
- Mechanical action from ultrasounds
- Temperature of the cleaning solution
- Dosage of the cleaning solution

QUICK AND EASY CONTROL OF YOUR ULTRASONIC CLEANING LINE

The UPC 3000 comes with 3 probes, for an instant and easy measurement of the main cleaning parameters. Operators can perform a direct monitoring and **correct parameters deviations or identify critical malfunctions**.

Storage case

Power adaptor
220-240 V type C plug, 2 pins

Ultrasonic probe
250 or 500 mm stainless steel

DI Water monitoring probe LR325/01
Conductivity and temperature measurement

UPC 3000 unit
LCD screen for instant reading

Concentration monitoring probe TETRACON 325
Concentration, conductivity and temperature measurement of cleaning solution

Supplied with 4 rechargeable NiMH batteries 1,2V AA 2100 mAh. Do not use AAA batteries.

! DO NOT IMMERGE PROBES IN WATER WHEN THE UNIT IS CONNECTED TO AN ELECTRICAL SOCKET !

TECHNICAL FEATURES

Temperature measurement	Range between 0 and 99.9 °C (+/- 0.2°C)
Measurement of the conductivity and concentration of detergent solutions	Range: 1 µS/cm to 2 S/cm
	Shows concentration % (+/-0.1 % of the value measured)
Measurement of DI (demineralized water) conductivity	Range: 0.001 µS/cm to 200 µS/cm
	Shows conductivity in µS/cm (+/-0.1 % of the value measured)
Measurement of ultrasonic power	Range: 0 to 40 Watt/l
	Showed in Watt/l (+/- 5 units)

NGL SUPPORT

- On site demonstrations can be organised
- Training is included when buying a unit
- Up to 9 products (Only NGLs) can be set up in the UPC
- Annual recalibration is recommended for maximum reliability
- 1 year warranty

Only range of NGL products can be set up in our UPC 3000 unit.

PARAMETERS GUIDELINES

Final rinse = DI water	Conductivity = 0,1 to 1µS Colour: crystal clear. Temperature: ambient - 55°C (may damage filtration membranes above)
Tap water rinse	Colour: crystal clear. Temperature: ambient
Mechanical action	Check power at 5 different points of the tank. Average results interpretation: - Below 10 Watts/L: consider maintenance or replacement - Between 10 and 20 Watts/L: acceptable - Above 20 Watts/L : good
Temperature	Excessive = instant drying of chemicals on the parts Too low = lower mechanical and chemical actions 60 to 70C° = Faster cleaning + higher cavitation of ultrasounds
Concentration of chemistry	Excessive = carrying over + contamination. Too low = solution depletion + lower efficiency NGL concentration recommendations: 3-5% cleaning, 1-2 % finishing

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25/03/2026

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