MAKING GREEN WORK.

BIO-CIRCLE®

Bio-Circle Surface Technology GmbH - Fly Elektronic - EN - AL5 2012
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BIO-CIRCLE®

Cleaning parts in new dimensions

Effective biological parts cleaning can be so easy

The BIO-CIRCLE biological parts cleaner removes processing oils, light oils, dust and other contaminations from tools and machine parts in the electronic industry, and degrades them with microorganisms. VOC-free and pH-neutral.

The advantages at a glance:

- **Water-based, with natural microorganisms**
- **No hazardous material, no hazardous goods, no fire hazard**
- **Long operating life thanks to biological oil degradation**
- **Compatible with oil separators, tested in accordance**

	BIO-CIRCLE Mini	**BIO-CIRCLE Compact**	**BIO-CIRCLE Maxi**
Work surface (W x D)	610 x 500 mm	740 x 540 mm	880 x 500 mm
Payload	90 kg	100 kg	220 kg
Working height	1010/820 mm	1040/900 mm	960/820 mm
Operating temperature	15 – 48 °C, Factory-set at approx. 41 °C	15 – 48 °C, Factory-set at approx. 41 °C	15 – 48 °C, Factory-set at approx. 41 °C
Heating	approx. 700 W	approx. 700 W	approx. 700 W
Pump	40 W	40 W	40 W
Optimum filling quantity	80 litres	90 litres	100 litres
Material	LDPE	LDPE	LDPE
Empty weight	approx. 40 kg	approx. 45 kg	approx. 60 kg
Power supply	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz
Order number	**G70026**	**G50026**	**G60026**

The new BIO-CIRCLE Liquid range – the right solution for every application!

VOC free!

NSF
Nonfood Compounds Program Listed (139721) (C1)

Five efficient BIO-CIRCLE Liquids guarantee optimal results in parts washing.

- **BIO-CIRCLE L**
- **BIO-CIRCLE L Ultra**
- **BIO-CIRCLE L Aluminium**
- **BIO-CIRCLE L Heavy Duty**
- **BIO-CIRCLE L Turbo**

Coconut Power

NEW:
Coconut Power also in BIO-CIRCLE with BIO-CIRCLE L Ultra!

Hotwater Parts Washing Machine

Electronic version

Automatic parts cleaning machine for one-step cleaning of solder frames, condensation traps, tools and machine parts.

A maintenance-friendly high-pressure spray system equipped with a special nozzle system provides an efficient cleaning. Due to the rotating basket and the high pressure of 7 bar the cleaning medium (Electronic STAR) can react optimally on the contaminated parts.

- **Body of machine, fuse box, basket insert, filter and spray system are made from stainless steel**
- **Insulation 50 mm, marginal generation of noise**
- **Touch control to turn the non-operative basket for easy loading and unloading**
- **Steam filtering system with touch control and connecting piece for the exhaust air pipe.**
- **Safety switch prevents the pump motor from working with the lid open**
- **Tank with slightly sloping base for quicker emptying**
- **Tank cover with protection against dry running underneath the basket.**

Also comes with: fresh air flap, pressure relief, filter or PPT preparation including bushing for condensate

Please note:
Supplementary equipment available, such as automatic ride control system, collecting tray, signal lamp with horn, filter, heatable immersion basin for flushing.

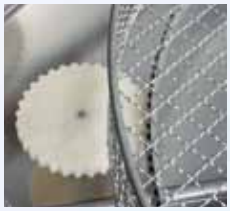
LOW ENERGY

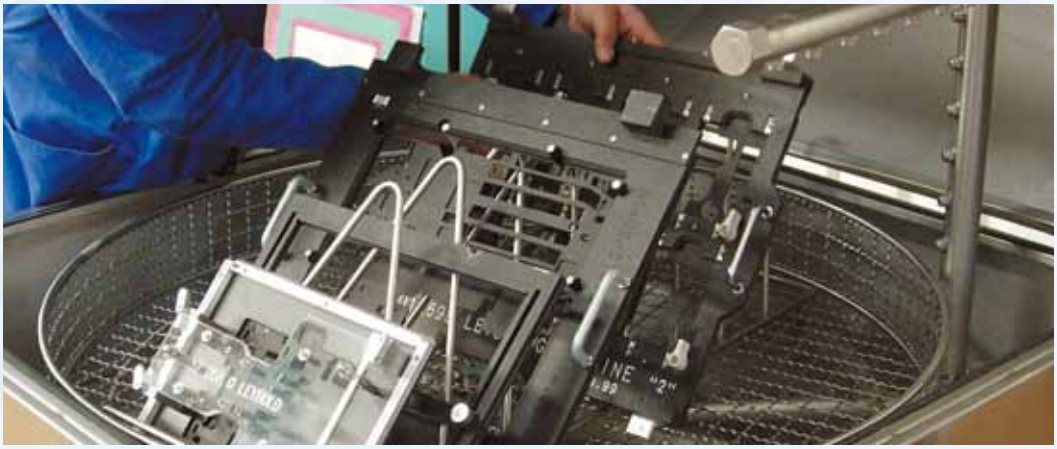
Hotwater Parts Washing Machine

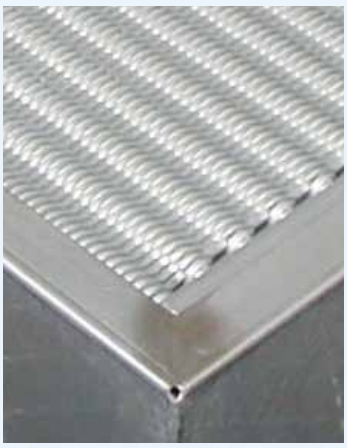
		outer dimensions in mm			turnable	Max. height	Max. load of	Capacity in l	Pump		Heater	Total
		t	b	h	Basket	of parts to be	turnable Basket		m³/h	kW	kW	kW
					Ø in mm	cleaned (mm)	in kg					
G12870B	HTW 800	950	1100	1100	775	450	100	120	7,0	1,1	4,5	10,5
G12880B	HTW 1000	1380	1320	1250	975	500	250	300	7,0	2,2	6	14,0
G12890B	HTW 1200	1580	1520	1450	1175	700	350	430	7,0	2,2	9	17,0

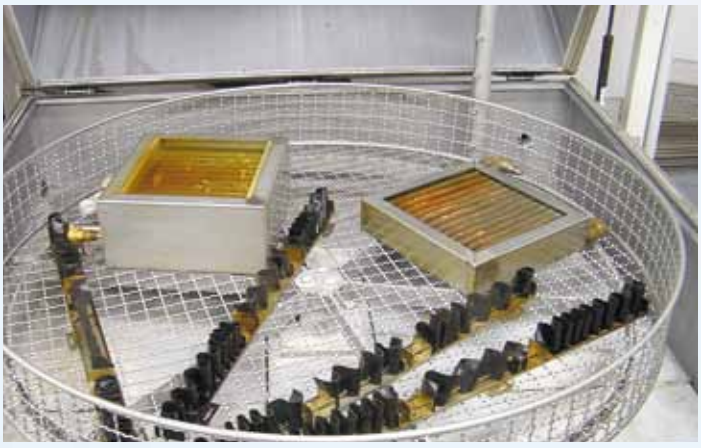
STAR Cleaning

BIO-CIRCLE









STAR Elektronic

Professional, fluid, highly alkaline cleaner, developed for removal of flux, condensate, oil, grease, dust and other contaminations from condensation traps, solder frames and carriers etc. from wave soldering devices. Short cleaning times guarantee fast of the cleaned production facilities.

- **Low in foam**
- **Ideal cleaning temperature at 65 °C**
- **VOC-free**
- **Can also be used in immersion basins, ultrasonic cleaning devices as well as in manual cleaning (dilution 1:20 to 1:40).**
- **effectively oil, grease, dust and other contaminations from tools and machine parts.**
- **Highly concentrated – application concentration from 0.5 %.**

Fields of use • all-purpose, can be used manually and mechanically

VOC free!

Please note:
The concentration of the cleaning bath can easily be obtained by volumetric analysis (titration).
Please call for more information.

STAR Elektronic

A03095 30 L jerrycan
A20095 200 L drum
A10095 1000 L IBC

FT 300

Surfactant-free, quick-drying cleaner for the removal of soldering paste residues on stencils, squeegees, spatulas and other working equipment. Dust, fingerprints and oily dirt will also be removed.

- **Concentration of VOC less than 20 %**
  – is not subject to the Solvent Regulation (1993/13/EC).
- **Residue- and streak-free**
- **Ready fro use**

Fields of use • automatic fleece cleaning of stencil bottom

• manual cleaning of tools, squeegees, spatulas and stencils

FT 300

A50057-97 500 mL PET bottle with trigger
A01057-97 10 L jerrycan
A03057-97 30 L jerrycan
A20057-97 200 L drum

VOC reduced!

Stencil Wipes

Wet, perforated cleaning cloths for the manual cleaning of stencils, squeegees, spatulas and other working equipment. Removes soldering paste, fingerprints, oil and dust contaminations. After cleaning the surface is free from any residues, streaks or stains.

- **Quick drying**
- **Concentration of VOC less than 20 %**
  – is not subject to the Solvent Regulation (1993/13/EC).
- **Compact, lint-free and robust cloth**

Fields of use • manual intermediate cleaning of stencils.

• manual cleaning of tools, squeegees, spatulas

Stencil Wipes
Electronic Cleaner

A00486 dispenser bucket with 200 cloths
cloth 160 x 300 m

Rubbel-Dubbel Hand Cleaner
Wet wipes

Wet, perforated cleaning cloths for efficient, waterless and time-saving hand cleaning. Removes grease and oil, fresh paint and varnish residues, soldering and flux residues, adhesives and more. Hands dry very fast after cleaning, leaving a pleasant citrus scent.

- **Very compact, robust special cloth with easy-to-grip side (pore-refining cleaning even of persistent contaminations) and gentle, smooth side for wiping.**
- **Lint-free, no fibre residues**

Fields of use • all-purpose, can be used in the industry and trade, at home and in the DIY sector

Rubbel-Dubbel
Hand Cleaner

A00186 dispenser bucket with 90 cloths
cloths 250 x 320 mm

BIO-CIRCLE

Oven Cleaner

Free of phosphate, highly concentrated liquid cleaner (ready for use), for the removal of burnt-in flux, soldering paste, soot and other residues of reflow ovens and wave soldering systems. The residual heat of the oven shortens the cleaning time.

- **Surfactants are biodegradable in accordance with EC regulations**
- **Can also be used in immersion basins**
- **VOC-free**
- **Does not affect glass, aluminium, plastic, stainless steel**

VOC free!

Fields of use • cleaning of reflow ovens and wave soldering systems

Oven Cleaner

A00173-06	1000 mL bottle with trigger
A01073-06	10 L jerrycan
A03073-06	30 L jerrycan
A20073-06	200 L drum

Antistatic Surface Cleaner

Aqueous, free of phosphate, alkaline cleaner with selected foamless surfactants (highly concentrated, can be diluted with water up to 1:40), for the cleaning of floors, casings and other surfaces. Dissolves oil, greases, resins, abrasion, dust, soldering paste and flux residues in a powerful way. **Antistatic effect.**

- **Surfactants are biodegradable in accordance with EC regulations**
- **Not subject to labelling under the Hazardous Material Regulation and EC regulations**
- **Kind to the material, does not chafe**
- **VOC-free**

VOC free!

Fields of use • can be used for manual cleaning as well as automatic cleaning (floor cleaning machines, high pressure cleaning machines)

Antistatic Surface Cleaner

A00189-20	1000 mL bottle with trigger
A01089-20	10 L jerrycan
A03089-20	30 L jerrycan
A20089-20	200 L drum

Bio-Circle Surface Technology GmbH

Bio-Circle Surface Technology GmbH
Berensweg 200
D-33334 Gütersloh
Telephone: +49 (0)5241 9443-0
Telefax: +49 (0)5241 9443-44

Crioch Industries Limited

Unit 5 Huddersfield Street Industrial Estate
Galashiels
United Kingdom
TD1 3BF
Telephone: +44 1896 755 288

E-mail: info@criochindustries.co.uk
www.criochindustries.co.uk