

BIO-CIRCLE

CLEANING SOLUTIONS
Parts cleaning with a system



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MAKING GREEN WORK.

CLEANING SOLUTIONS

CLEANING WITH BIO-CIRCLE – For us, this means system solutions

The Bio-Circle premium products offer customized solutions for Cleaning, Protecting, Lubricating, and Cleaning Systems. The Cleaning Systems are optimally suited for use in parts cleaning and the cleaning of pipes, heat exchangers, plastic injection moulding tools or spray guns.

At Bio-Circle Surface Technologies GmbH, the products have been developed and manufactured in the R & D department and distributed world-wide by our expert staff for more than 30 years, with a focus on our core competences: energy efficiency, reduction of hazardous substances, VOC-free/-reduced products, and service for our systems. Our global team of experts provides excellent service and creates added value in the various industrial businesses in a sustainable way.

MAKING GREEN WORK.



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Our know-how:

- ▶ Qualified and personal technical advice provided by our sales reps in the field
- ▶ Comprehensive customer service through our telephone hotline for all questions and application tips regarding our products, and support for compliance with regulations
- ▶ Our own research department in the field of chemistry and biotechnology develops innovative products that meet the highest standards in safety and environmental protection
- ▶ Sustainable and energy-conscious production at our production site in Gütersloh, which has been certified in accordance with ISO 14.001
- ▶ High product quality and shortest possible delivery times



Bio-Circle – your expert partner in efficient cleaning and welding.

Should you have any questions or require further information, please contact us by phone, fax or e-mail. We'll be happy to provide you with advice and assistance.

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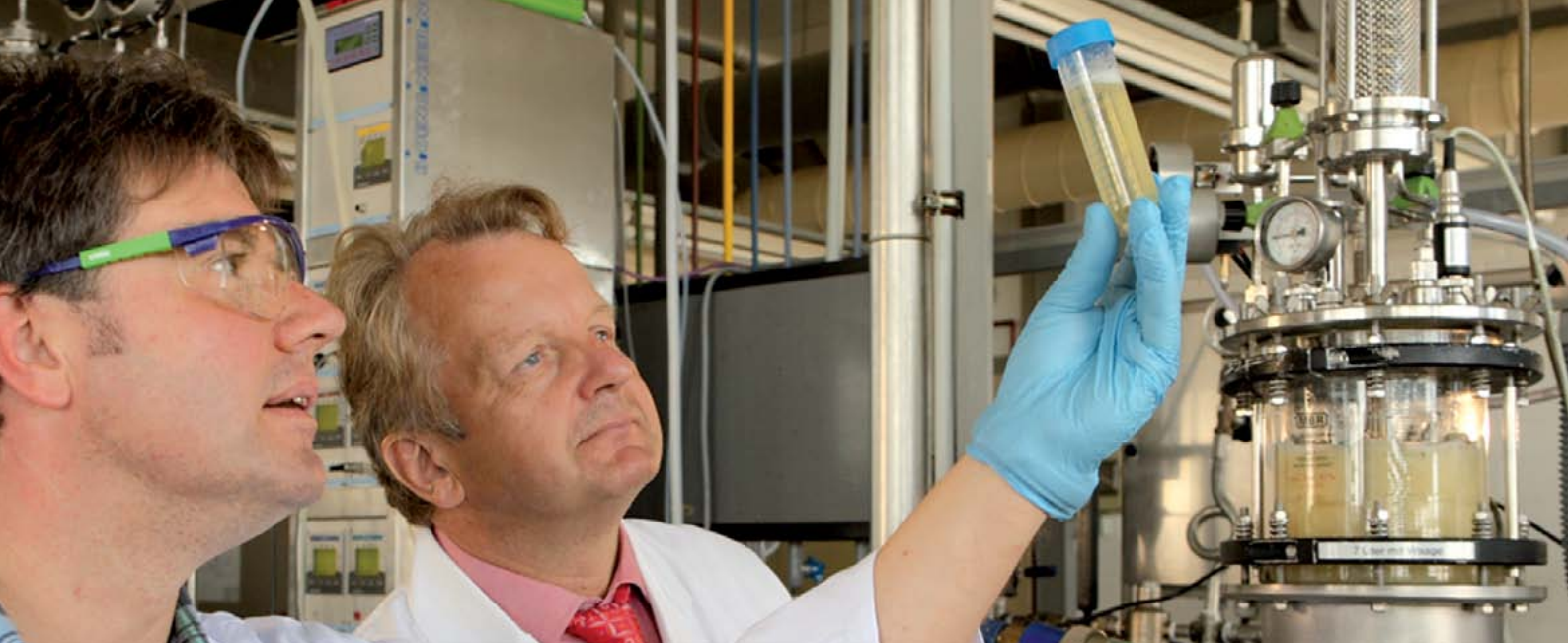
CLEANING
SOLUTIONS

CLEANING SYSTEMS

MAKING GREEN WORK.

- ▶ Efficient products with natural ingredients as far as technologically possible
- ▶ Increased use of renewable surfactants of plant origin with a high and fast biodegradability
- ▶ Good skin compatibility, plenty of products have been dermatologically tested
- ▶ As a rule we refrain from using preservatives
- ▶ Fragrances are specifically chosen, and their use is kept to a minimum or refrained from entirely
- ▶ Chelating agents such as EDTA or NTA are not used in any of our products
- ▶ Our products are free from hazardous chemicals – they contain no substances from the current EChA Candidate List of Substances (REACH)
- ▶ Less waste thanks to the application of Bio-Circle products in refillable spray bottles
- ▶ Protection of resources through the use of recirculation systems
- ▶ Promotion of energy efficiency through low-temperature products
- ▶ Application of white biotechnology in the BIO-CIRCLE as a powerful alternative to cold cleaners and other solvents





Nature Boost – optimal performance, employee protection and reduction of environmental impacts. Successful cleaning in the industry with the power of Nature. Nature Boost cleaners are based on renewable raw materials. They stand out for their excellent dissolving powers, especially with strong greases, oils, adhesives and also paint and inks. What makes the efficacy of Nature Boost even more impressive is that it is also non-combustible, VOC-free, not subject to mandatory labelling, and renewable.



VOC-free, VOC-reduced



The European VOC Solvents Directive (1999/13/EC) aims to considerably reduce the use of solvents and VOC emissions into the environment, thus protecting human health. In the development and manufacturing of our products we pay close attention to developing and manufacturing VOC-free or VOC-reduced products. In plenty of applications, the water-based Bio-Circle products can replace solvents completely. For a variety of highly volatile solvents, such as acetone or ethyl acetate, we offer alternatives for fulfilling the reduction schedule.



Clean Blue – energy efficiency

In times of increasing energy costs and limited resources, the efficient use of energy is gaining more and more importance in all sectors. The Bio-Circle low-temperature cleaners – Clean Blue – have been developed for mechanical and manual use. They save energy and efficiently remove strong contaminations already at ambient temperature. The cleaners can be used flexibly at all temperatures, parts can be measured in a timely manner, freshwater consumption is reduced, and the risk of surface drying on the parts is lower.



Reduction of hazardous substances

With efficient systems and non-hazardous products, we manage to optimize the processes at our customers'. In spite of the cleaning being non-hazardous, the quality of the cleaning result is maintained. No more time-consuming, costly handling of hazardous substances. Hazardous substances warehouses, hazardous substances trainings, and compiling operating and instruction manuals are no longer required. The employees' health and the environment are protected. Even apprentices are allowed to handle the products. Efficient, high-quality work is possible.



NSF – Cleaning in the foodstuffs industry

In Germany, cleaning in the foodstuffs industry is subject to the German Food, Consumer Goods and Feed Code (LFGB). According to sec. 2 LFGB, cleaning agents are consumer goods. It is prohibited to put consumer goods in circulation that contain substances that may pass over to foodstuffs or their surfaces. The water-based bio-chem cleaners are completely miscible with water, and because of their residue-free rinsability they are suitable for applications in the foodstuffs industry according to sec. 31 LFGB.

CLEANING SOLUTIONS

CLEANING SYSTEMS



Parts cleaning should be easy and safe. Reliable helpers are a decisive factor here. The BIO-CIRCLE system offers you a comprehensive range of parts cleaning devices that meet any requirement on ease of use, reliability and suitability for daily use. From sturdy BIO-CIRCLE Maxi to BIO-CIRCLE GT Compact to our special designs – the BIO-CIRCLE system can be used anywhere.

The advantages

- ▶ **Ergonomic design and high stability**
- ▶ **Stable PE devices, no danger of corrosion**
- ▶ **Filter system in the basin drain (coarse-, fine- and bag filter plus magnet)**
- ▶ **Very maintenance-friendly – the control box contains the entire technology (electrics, heating, float switch, and temperature sensor).**
- ▶ **Easy assembly guaranteed for service, repair and cleaning**
- ▶ **Electrics is drip-proof and splash-proof.**
- ▶ **The jacketed liquid tank acts as insulation, thermal loss is reduced.**



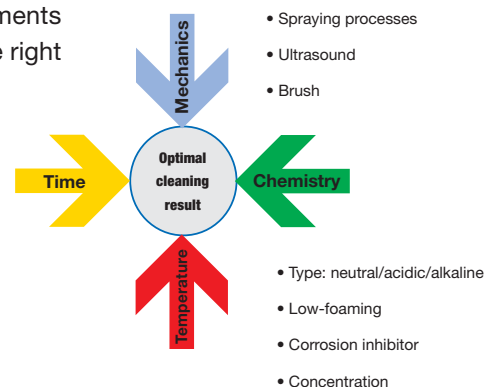
System solution for the industry sustainable – innovative

Safe and convenient cleaning and degreasing of big parts

The Bio-Circle cleaning systems offer a wide range of water-based cleaning devices for safe and convenient cleaning and degreasing. They cover a wide range of fields of application, as they are suitable for use in all areas of the industry, e.g. in the entire service and maintenance sector.



The type, size and condition of the parts to be cleaned as well as requirements on cleanliness level and throughput form the starting point for choosing the right cleaning- and degreasing system.



CLEANING SYSTEMS

BIO-CIRCLE GT Compact

The optimal solution for your parts washing

The BIO-CIRCLE GT Compact is a parts washer system with a compact design. Its easy handling and the fast, safe and eco-friendly cleaning also of strongly contaminated parts make it a pro in parts cleaning. The sturdy plastic (PE) device is recyclable, the VOC-free Liquids have long service lives, and maintenance is easy and unproblematic because the control box contains all technical components (electrics, heating, float switch and temperature sensor).

- ▶ **Cleaning and degreasing of strongly contaminated parts**
- ▶ **Optimized depth of the basin ensures good splash protection**
- ▶ **Easy transport by means of a lift truck or a rail system with castors (optional)**
- ▶ **Filter system in the basin drain (coarse-, fine- and bag filter plus magnet)**



BIO-CIRCLE systems



Natural, biological parts washing – The BIO-CIRCLE systems offer the optimal solution for parts washing. With its easy handling, the fast, safe and eco-friendly cleaning also of strongly contaminated parts, and the long service lives of the VOC-free Liquids, the BIO-CIRCLE system is simply unbeatable in terms of economic efficiency. The BIO-CIRCLE operates without solvents. Replace your cold-cleaner parts washer with the BIO-CIRCLE and make an active contribution to your employees' occupational safety and to environmental protection.



BIO-CIRCLE GT Maxi

Parts washer with high payload

The BIO-CIRCLE GT Maxi is a high-performance, sturdy and durable parts washer. The parts washer features a large effective surface, plenty of space even for cumbersome parts that can be cleaned perfectly with the long hose on the brush. Its ergonomic design provides the plastic (PE) device with high stability. The double-walled liquid tank has an insulating effect, which reduces heat losses.

- ▶ **Easy handling of the liquid pump by means of a push-button switch**
- ▶ **Easy servicing, maintenance and repair**
- ▶ **Filter system in the basin drain (coarse-, fine- and bag filter plus magnet)**
- ▶ **A lid (optional) protects from contaminations**
- ▶ **Easy transport by means of a lift truck**

	BIO-CIRCLE GT Compact	BIO-CIRCLE GT Maxi
Work surface (W x D)	approx. 700 x 480 mm	approx. 810 x 520 mm
Payload	100 kg	250 kg
Working height	970/800 mm	1030/860 mm
Operating temperature	15 – 45 °C, factory-set at approx. 41 °C	15 – 45 °C, factory-set at approx. 41 °C
Heating	approx. 650 W	approx. 650 W
Pump	40 W	40 W
Optimum filling quantity	90 Litres	100 Litres
Material	LDPE	LDPE
Empty weight	approx. 45 kg	approx. 60 kg
Power supply	230 V, 50 Hz	230 V, 50 Hz
Order number	650030	660030

CLEANING SYSTEMS



	BIO-CIRCLE GT Compact Blue	BIO-CIRCLE GT Maxi Blue
Work surface (W x D)	700 x 480 mm	810 x 520 mm
Payload	100 kg	250 kg
Working height	970/800 mm	1030/860 mm
Pump	40 W	40 W
Optimum filling quantity	90 Litres	100 Litres
Material	LDPE	LDPE
Empty weight	approx. 45 kg	approx. 55 kg
Power supply	230 V, 50 Hz	230 V, 50 Hz
Order number	G50040	G60040



BIO-CIRCLE L Blue

– The optimal cleaner and degreaser specifically designed for use in the BIO-CIRCLE GT Blue

CB 100 Blue

– The optimal cleaner for removing persistent contaminations specifically designed for use in the BIO-CIRCLE GT Blue



BIO-CIRCLE Blue – the cool ones

Resource-efficient and sustainable cleaning at ambient temperature. The BIO-CIRCLE Blue parts washers facilitate maximum cleaning performance at efficient consumption. The parts washers and the cleaners BIO-CIRCLE L Blue and CB 100 Blue form a perfect symbiosis in parts cleaning. 100 % performance at ambient temperature already – and all that without any solvents, benzines or cold cleaners. As cleaning occurs at ambient temperature, electricity is only needed for the pump.

BIO-CIRCLE GT Maxi Blue and BIO-CIRCLE GT Compact Blue provide water-based cleaning with natural microorganisms and of course without any solvents. The employee and the environment are protected from highly volatile vapours. Oil biodegradation guarantees a long service life. No HAZMAT, no hazardous goods, no fire hazard – suitable for use in maintenance, production, parts cleaning, service, and any sector of the industry.

- ▶ **Working at ambient temperature**
- ▶ **Easy maintenance and servicing**
- ▶ **Filter system in the basin drain
(coarse-, fine- and bag filter plus magnet)**
- ▶ **Long service life, not much waste
– safety and quality in cleaning**



CleanBlue by Bio-Circle

CLEANING SYSTEMS

Stainless steel top piece for BIO-CIRCLE

The stainless steel top pieces for the BIO-CIRCLE Maxi with their large work surface and high payload (up to 1000 kg) offer exceptional working comfort. Especially for the cleaning of big and heavy parts we recommend the stainless steel top piece with the particularly large work surface (approx. 1500 x 950 mm) that can even be used by two operators at the same time. The stainless steel top pieces feature a conical drain with a sieve filter and a bag filter (25 µm); PE grids for protection are available as an optional extra.



G60030-18	Stainless steel top piece for BIO-CIRCLE GT Maxi	payload 250 kg, 1500 x 950 x 300 mm
G60030-17	Stainless steel top piece with base frame for BIO-CIRCLE GT Maxi	payload 500 kg, 1504 x 1004 x 300 mm
G60030-19	Stainless steel top piece with base frame for BIO-CIRCLE GT Maxi	payload 1000 kg, 1504 x 1004 x 300 mm
G60030-16	BIO-CIRCLE GT Maxi Tank with control box for stainless steel top pieces	

Green and swift

Flexible upgrades – For the BIO-CIRCLE GT parts washers there are various optional extras, such as sturdy lids that are easy to hook into the rear of the devices; a Mobility Kit that facilitates comfortable work in different locations; protective bottoms that protect the basins from sharp-edged parts; and a variety of brushes and filters that support the different cleaning requirements.



Lid

Protects from contamination and reduces evaporation of cleaning fluid.

G50327 for BIO-CIRCLE GT Compact

G60330 for BIO-CIRCLE GT Maxi



Protective bottom

Made from perforated sheet metal, facilitates tilt-free work and protects the basin from sharp-edged parts.

G50326 for BIO-CIRCLE GT Compact

G60230 for BIO-CIRCLE GT Maxi



Brushes

(flushed with cleaning agents)

G20726 Flow-through brush

Supports cleaning

G20729 Flow-through brush

with medium-hard bristles, straight

G28526 Flow-through brush, angled

Supports cleaning in nooks and crannies that are difficult to reach

G20727 Flow-through brush wide, angled

G27326 Flow-through brush with soft bristles (Nylon 0.3 mm).

For cleaning sensitive parts without damaging the material



Mobility Kit

The sturdy guiderails, with castors (fitted with wheel stop and non), make the device mobile and hence flexible to use.

2 SS guiderails with wheel stop/swivel castors

G50427 for BIO-CIRCLE GT Compact

G60427 for BIO-CIRCLE GT Maxi



Filter

Inserts for filter housings (nylon filters, washable; coil cartridge filters, non-washable)

G22026 Nylon filter core support

Supports the replaceable nylon filter

G28326 Nylon filter 100 µm, blue

G28726 Nylon filter 150 µm, brown

G28426 Nylon filter 200 µm, green

G21926 Nylon filter 350 µm, grey

G22726 Coil cartridge filter 100 µm

Trading unit: 6 pcs

G22826 Coil cartridge filter 200 µm

Trading unit: 6 pcs



Filter accessories

G54126 Wrench for filter housing



Filter bags

The filter bags are fixed under the basin drain by means of a bracket.

G54626 Filter bag nylon 50 µm washable

G54726 Filter bag nylon 100 µm washable

G54426 Filter bag polypropylene needle felt 5 µm

G54526 Filter bag polypropylene needle felt 25 µm

CLEANING SOLUTIONS

CLEANING SYSTEMS

Dermatologically tested!

BIO-CIRCLE L

Cleaner with natural microorganisms

- ▶ Product description in accordance with ÖNORM B 5105
- ▶ Optimally adjusted to everyday soiling
- ▶ Compatible with oil separators
- ▶ TESTED IN ACCORDANCE WITH ÖNORM B 5105 – registration number: ON-N 2011 140
- ▶ Fresh apple scent
- ▶ Special corrosion inhibitors provide temporary protection after cleaning
- ▶ NSF-certified
- ▶ Improved skin protection – skin friendliness has been dermatologically tested
- ▶ Surfactants on the basis of renewable raw materials
- ▶ No labelling required under the CLP Regulation

BIO-CIRCLE L Ultra

Ultra-strong cleaner with natural microorganisms

- ▶ Removes persistent contaminations, such as bitumen, anti-rust waxes, burnt-in greases and oils, carbon deposits, and paint
- ▶ Special corrosion inhibitors provide temporary protection after cleaning
- ▶ NSF-certified
- ▶ Works on the basis of Nature-Boost ingredients
- ▶ No labelling required under the CLP Regulation

BIO-CIRCLE L Heavy Duty

Strong cleaner with natural microorganisms

- ▶ Removes even heavy oils and greases
- ▶ Improved cleaning performance especially for persistent contaminations
- ▶ Without scent – can be added as required
- ▶ Special corrosion inhibitors provide temporary protection after cleaning
- ▶ skin friendliness has been dermatologically tested
- ▶ For temperatures of up to 45 °C/113 °F
- ▶ Surfactants on the basis of renewable raw materials
- ▶ No labelling required under the CLP Regulation

A02026 20 L jerrycan

A20026 200 L drum

A10026 1000 L IBC

A02072 20 L jerrycan

A20072 200 L drum

A10072 1000 L IBC

A02098 20 L jerrycan

A20098 200 L drum

A10098 1000 L IBC





BIO-CIRCLE Liquids

natural – simple – profitable

Specifically developed for use in the BIO-CIRCLE parts washing systems. BIO-CIRCLE Liquids do their cleaning based on water. They are specialized in neat and thorough cleaning solutions and effectively remove oils, greases and particulate pollution. The natural micro-organisms biodegrade the ingressed oil. User-friendly, eco-friendly and economical – with the power of Nature. BIO-CIRCLE Liquids guarantee long service lives and a high useful life expectancy in combination with a constantly high cleaning performance. The ready-to-use Liquids contain no solvents, so they avoid VOC emissions and meet the requirements of the VOC Directive. No labelling is required under the CLP Regulation, which means they are easy and safe to use, to store and to transport, and they do not pit surfaces (no corrosion).



BIO-CIRCLE L **Aluminium**

Aluminium cleaner with natural microorganisms

- ▶ For the cleaning of sensitive materials, e.g. aluminium
- ▶ Virtually residue-free
- ▶ Without scent – can be added as required
- ▶ NSF-certified
- ▶ Surfactants on the basis of renewable raw materials
- ▶ Skin friendliness has been dermatologically tested
- ▶ No labelling required under the CLP Regulation
- ▶ Tested by Lufthansa
- ▶ Removes machining oils, cutting coolants, anti-corrosion products, and other contaminations

BIO-CIRCLE L **Blue**

Cold cleaner with natural microorganisms

- ▶ Effective cleaning in a cold state
- ▶ Cleaning and degreasing of small parts in workshops, industries and service
- ▶ Water-based cleaning fluid – non-flammable
- ▶ Clean Blue cleaner – free from VOC in accordance with 1999/13/EC
- ▶ No labelling required under the CLP Regulation
- ▶ pH-neutral – low risk of skin irritation
- ▶ Surfactants on the basis of renewable raw materials

BIO-CIRCLE L **Turbo**

Low-foaming cleaner with natural microorganisms

- ▶ For mechanical cleaning in the BIO-CIRCLE Turbo
- ▶ For temperatures of up to 50 °C/122 °F
- ▶ With corrosion protection
- ▶ No labelling required under the CLP Regulation

A02099 20 L jerrycan

A20099 200 L drum

A10099 1000 L IBC

A02090 20 L jerrycan

A20090 200 L drum

A10090 1000 L IBC

A02082 20 L jerrycan

A20082 200 L drum

A10082 1000 L IBC



BIO-CIRCLE HP

The BIO-CIRCLE HP (High Pressure) applies a lot of pressure on contaminations!

BIO-CIRCLE HP efficiently combines the advantages of the parts washer with the cleaning result of pressure-washing. The sturdy stainless steel device is easy and safe to use and ideally suited for manual washing.

- ▶ **Manual cleaning with low pressure/flow brush while the lid is open or closed**
- ▶ **Manual cleaning at high pressure of up to 40 bar**
- ▶ **Large workspace, high payload**
- ▶ **Pre-set optimal cleaning temperature of 45°C/113°F**
- ▶ **Insulated tank – prevents heat losses and saves energy**
- ▶ **10-Watt LED interior lighting – makes all part geometries visible**
- ▶ **A fan for ventilation of the interior and a manual screen wiper guarantee a clear view**



**ROSTFREI
Edelstahl**



	BIO-CIRCLE HP
Overall width x overall depth (mm)	1150 x 1229
Height with loading hatch closed/open (mm)	1884/2458
Height with loading hatch closed/open (mm)	1083-1228
Overall width of available surface W x D x H (mm)	860 x 580 x 480
Maximum payload (kg)	350
Cleaning liquid tank – capacity (L)	100
Total weight of the cleaning device (kg) excl. tank filling, payload and supplementary equipment	250
Connected value total (kW) excl. supplementary equipment approx.	2.5
Power supply (V)/frequency (Hz)	230/50
Compressed-air hose Ø 10 mm (bar)	6 max.
Spray pressure adjustable approx. (bar)	20-40
High-pressure pump motor (kW)	1.6
Electric heating in the washing tank (kW)	0.65
Treatment temperature (guide value) (°C)	45
Order number	G30028



*Dermatologisch
getestet!*

BIO-CIRCLE L Turbo

– Der optimale Reiniger und Entfetter für den Einsatz speziell im BIO-CIRCLE HP

**VOC
free!**




BIO-CIRCLE Turbo

2 in 1 – automatic and manual cleaning

The BIO-CIRCLE Turbo Stainless Steel – the efficient combination of fully automated and manual cleaning with the biological BIO-CIRCLE L Turbo cleaning medium.

- ▶ Solid stainless steel design with a high payload, heatable, factory-set to an optimal 50°C/122°F
- ▶ Sturdy stainless steel rack with mechanical spinning, touch button to spin the rack in idle mode for easy loading and unloading and for manual cleaning
- ▶ High spray pressure
- ▶ Precise manual cleaning by means of a flow brush or a nozzle
- ▶ A safety switch prevents the pump motor from running with the lid open – safe handling guaranteed
- ▶ Lid with inspection window and gauntlet gloves, interior lighting
- ▶ Ergonomic hand spray gun with quick release fastener for cleaning brush and variable cleaning nozzle (generates a point jet or a fan-shaped jet); fast drying possible by means of a pneumatic spray gun
- ▶ Tank with slightly tilted bottom for faster emptying, tank cover with filter elements beneath the rack, dry running protection



 We have been conferred the 2008 Industry Award "Environmental Technology" by the Initiative Mittelstand

INDUSTRIE PREIS 2008



	BC Turbo 800	BC Turbo 1000	BC Turbo 1200
Overall width x overall depth (mm)	1170 x 1075	1330	1563
Height with lid closed and lid open with angled exhaust duct (mm)	1585/2035	1580/2200	1734/2380
Inner diameter rack, approx. (mm)	775	975	1175
Useful height max. (mm)	400	450	630
Maximum payload (kg)	150	350	350
Cleaning liquid tank – capacity (L)	160	275	380
Total weight of the cleaning device (kg)	350	370	420
excl. tank filling, payload and supplementary equipment			
Connected value total (kW) excl. supplementary equipment approx.	5.5	9	9
Power supply (V)/frequency (Hz)	400/50	400/50	400/50
Compressed-air hose Ø 10 mm (bar)	6 max.	6 max.	6 max.
Pump – automatic cleaning: flow rate (m ³ /h/delivery head m H ₂ O)	12.0/38	12.0/38	12.0/38
Pump – manual cleaning: flow rate (m ³ /h/delivery head m H ₂ O)	4.8/27	4.8/27	4.8/27
Electric heating in the washing tank (kW)	4.5	6	6
Treatment temperature (guide value) (°C)	50+/-2	50+/-2	50+/-2
Order number	G40027	G42027	G43027

CLEANING SYSTEMS



CLEAN BOX

The CLEAN BOX is the ideal box for mobile cleaning, degreasing, derusting, soaking, pre-cleaning, and much more. The Box consists of the immersion box, the lid and the immersion basket. With a 180° turn the immersion basket becomes stackable on the inside edge.



CLEAN BOX – 180° turn for convenient draining and emptying.

	CLEAN BOX	CLEAN BOX Mobil
Immersion box		
External dimensions W x D x H (mm)	600 x 400 x 300 Bottom and sides closed	600 x 400 x 300 Bottom and sides closed
Material	with HDPE handle openings, green	with HDPE handle openings, green
Filling quantity (L)	approx. 50	approx. 50
Immersion basket		
External dimensions W x D x H (mm)	600 x 400 x 300 Bottom and sides closed	600 x 400 x 300 Bottom and sides closed
Material	with HDPE handle openings, green	with HDPE handle openings, green
Lid		
External dimensions W x D x H (mm)	600 x 400	600 x 400
Material	made of HDPE, green	made of HDPE, green
Rollwagen	-	620 x 420 x 155
External dimensions W x D x H (mm)	-	ABS frame (black) with PA castors (white), ø 100 mm
Material	-	with locking brake
Maximal Payload (kg)	-	250
Order number	H00040	H00042



CLEAN BOX

The CLEAN BOX consists of the immersion box, the lid and the immersion basket, and can be used flexibly as an immersion box, transport box or for draining. Ideal Bio-Circle products for the CLEAN BOX are CB 100, GS 200 and BIO-RUST. The CLEAN BOX is robust and has been designed for practical mobile use of water-based acidic and also alkaline Bio-Circle cleaners. The CLEAN BOX Mobile is easy to handle, stackable and mobile thanks to the trolley.

CLEAN BOX Flow

Cordless cleaning directly on the work piece.

The CLEAN BOX Flow is a cleaning system that can be used flexibly. With its mobile trolley the CLEAN BOX Flow can be placed directly next to the parts to be cleaned. The battery-powered pump and the washing brush facilitate easy cleaning in virtually any place. The cleaning medium is filtered during the cleaning of the work piece, which ensures longer service life. The CLEAN BOX Flow is sturdy and has been developed for practical use with the Bio-Circle cleaners. The mobile trolley features storing space for jerricans or work pieces. The CLEAN BOX Flow consists of the immersion box with a 12 V pump, storage battery and washing brush, the lid and the trolley.

- ▶ Manual cleaning with the washing brush
- ▶ Mobile trolley
- ▶ Storing space for jerricans or work pieces
- ▶ Battery-powered pump, easy cleaning (storage battery and charger included)
- ▶ Cleaning media: CB 100, CB 100 Alu, and CB 100 Blue



CLEAN BOX Flow
– with integrated pump and storage battery



CLEAN BOX Flow

H00044 CLEAN BOX Flow

with two-level trolley, incl. washing brush, pump and storage battery

H00045 CLEAN BOX Flow

with trolley, incl. washing brush, pump and storage battery

CLEAN BOX Max 1 and Max 2



Efficient cleaning of big parts



With the CLEAN BOX Max 1, CLEAN BOX Max 2, and CLEAN BOX Flex it is easy and safe to clean big, bulky or complex parts. The sturdy systems stand out for their top quality. Collecting trays for the CLEAN BOX Max 1 and CLEAN BOX Max 2 approved in compliance with the WHG [Water Resources Act] are available as an option. All boxes are equipped with a circulation pump and a sturdy brush.

The cleaning platform consists of a storage tank and a comfortable working platform. The platform features openings that safely return the cleaning fluid into the tank. The integrated flow nozzle with washing brush and hose connection runs by a feed pump. With its electro-pneumatic ON/OFF foot switch the pump is easy to operate. A control lamp indicates whether the pump is switched on.

Plug-in stainless steel control cabinet suitable for all CLEAN BOX Max/Flex devices.



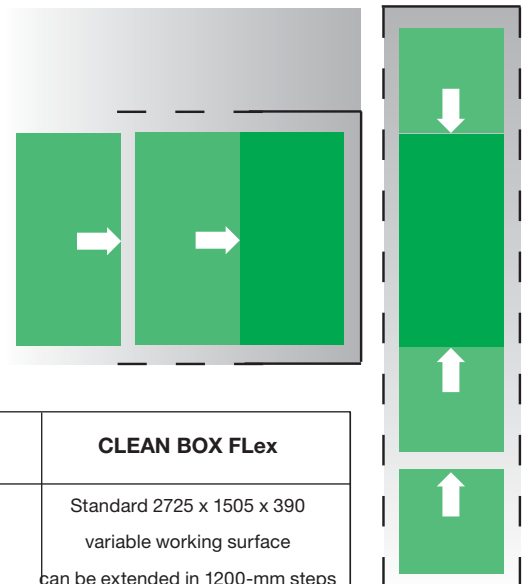
CLEAN BOX Flex

A flexible and modular system

The cleaning platform comprises an integrated WHG [Water Resources Act]-approved collecting tray with a leakage inspection hole, a storage tank and a lid. A grid on the working platform facilitates effective cleaning of big and bulky parts. By means of the feed pump the cleaner reaches the integrated flow nozzle with washing brush.



Upon request, the CLEAN BOX Flex can be extended in depth and/or width in 1200-mm steps, so it can be geared to the cleaning requirements in an optimal and individual way.



	CLEAN BOX Max 1	CLEAN BOX Max 2	CLEAN BOX Flex
Overall dimensions LxWxH (mm)	1420 x 1420 x 520	2400 x 1420 x 740	Standard 2725 x 1505 x 390 variable working surface can be extended in 1200-mm steps
Useful work surface LxW (mm)	1220 x 1220	2250 x 1220	variable
Material	PE	PE	PE-HD
Payload	1000 kg	1000 kg	1000 kg
Useful volume min.	200 L	700 L	250 L
Useful volume max.	300 L	1000 L	350 L
Total useful volume	590 L	1400 L	355 L
Working pressure	0.2 bar	0.2 bar	0.2 bar
Weight	100 kg	160 kg	250 kg
pH-value working range	4.5–12	4.5–12	4.5–12
Rated input voltage	230 V/1.3 A	230 V/1.3 A	230 V/1.3 A
Frequency	50 Hz	50 Hz	50 Hz
Power input	330 W	330 W	330 W
Operating temperature	Ambient temperature	Ambient temperature	Ambient temperature
Operating pressure max.	2 bar	2 bar	2 bar
IP	68	68	68

To make Bio-Circle products easy to use we also provide you with the following accessories:



Jerrycan cap spanner /bung wrench

H00016 Jerrycan cap spanner
for both DIN 51 and DIN 61,
plastic, colour: green

H00030 Bung wrench, metal,
for 200 L drums

Gloves

G42207 Gloves size 11



Bio-Circle microfibre cloth

H515 Microfibre cloth
39 x 39 cm

Two-level trolley for the CLEAN BOX

H00043 Two-level trolley
2 levels, 4 castors (2 lockable)
with tubular push handle
Loading space below 610 x 410 mm



Premium cleaning cloth

H00031 Cleaning cloth (TORK)
32 x 38 cm
160 pcs. on a roll, perforated



Tool box

H521 green plastic with
aluminium handle



TIP:

The corrosion protection is not sufficient for your application? The solution is bio-chem Corrosion protection for water-based systems. It can be added to the BIO-CIRCLE parts washers at any time.

- ▶ Contains 100 % active ingredients
- ▶ Very economical – low application concentration
- ▶ Free from nitrite

Corrosion protection for water-based systems

Low-foaming corrosion inhibitor

A00111 1000 mL plastic bottle
Trading unit: 12 x 1000 mL (1 box)

A01011 10 L jerrycan

A03011 30 L jerrycan

A12011 120 L drum



Service and cleaning

Good to know that you can rely on us.

Just like your car, also the BIO-CIRCLE requires regular cleaning and servicing in order to guarantee the optimal functioning of the device.

We are pleased to offer you a special service:

- ▶ Thorough internal and external cleaning of the BIO-CIRCLE with environmentally compatible bio-chem products
- ▶ Checking your device for the functionality of the installation parts
- ▶ Cleaning and replacing if necessary of aerator, hoses, filter inserts, pump, etc.
- ▶ Cleaning of the BIO-CIRCLE Liquid by means of a fine mesh filter
- ▶ Removing the sludge residues from the bottom
- ▶ Refilling with the cleaned BIO-CIRCLE Liquid and, if necessary, topping up with fresh BIO-CIRCLE Liquid to the optimum filling level



A strong partner globally

with a worldwide presence

CLEANING • PROTECTING • LUBRICATING • WELDING

bio-circle.de

Bio-Circle Surface Technology GmbH has a strong worldwide presence. Our products are sold and applied in 55 countries.

We are a worldwide network with our own subsidiaries, production sites and distribution partners.



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