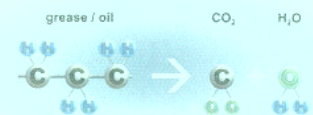


BIO-CIRCLE™ compact

The parts cleaner
with a new dimension.

Highlights

Biological parts cleaning based on an aqueous system containing natural bio cultures. Oil and grease are immediately and biologically changed by microorganisms. So the cleaning agent kept clean on a continuous basis which considerably prolongs the life-span of the cleaning liquid.

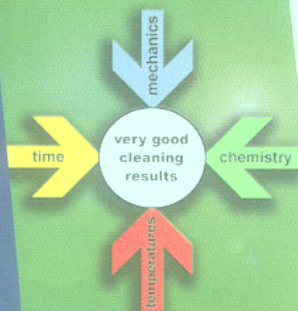


Technical data:

| | |
|--------------------------|-----------------------|
| Working height | 600 mm |
| Sink dimension | L 740 x W 540 mm |
| Load capacity | Max. 100 kg |
| Temperature | 41°C |
| Heater | 1.2 kW (heating unit) |
| Pumps | 40 Watts each |
| Operating fluid capacity | 80 Liter |
| Material | PE-LD |
| Weight (empty) | 45 kg |
| Electrical configuration | 230 V, 50 Hz |



PATENT NR.
6,057,347
EXAMIN
11/495,275
(PATENT ANGEWANDT)



- ➔ new three-part filtration system stops effectively waste particles from entering the cleaning liquid, especially ferrous cuttings are trapped by a magnet
- ➔ wash-basin size 740 x 540 mm with a load capacity up to 100 kg
- ➔ operational tank capacity of 80 l
- ➔ easy to maintain due to exchangeable control box which includes electrical and pump unit
- ➔ equipped with fine filter to optimise the effectiveness of the cleaning liquid
- ➔ comfortably operated with a drain valve for exchange of the cleaning liquid

Bio-Circle™ L

- Excellent cleaning action
- Fresh scent
- User friendly
- Virtual residue-free
- Containing corrosion-inhibitors
- Optimised bioremediation process*



Bio-Circle™ compact

G50026 Bio-Circle™ compact

Bio-Circle™ L

- 📦 **A02026** Bio-Circle™ L container 20 l
- 📦 **A20026** Bio-Circle™ L drum 200 l

Simply natural ...

Bio-Circle™ makes use of natural power for a user- and environmentally-friendly as well as economical cleaning of small parts. Working oils, cutter coolants, corrosion protection products, weak grease and other particles are removed by the cleaning agent Bio-Circle™ L. The easy to clean filter system separates coarser and finer waste particles, oil and grease are immediately and biologically changed by the micro-organisms. Bio-Circle™'s bioremediation process not only breaks down the contaminants but also maintains the power and cleanliness of the solution.

Technique

The stable and robust tank is made from plastic and does not corrode. The heating system installed in the Bio-Circle™ keeps the cleaning agent at its ideal working temperature of 41 °C. The air-pump ensures a steady supply of oxygen essential to the micro-organisms. In addition Bio-Circle™ L contains a selected combination of nutriments, which guarantee working of the microorganisms through the whole service life. A plastic foil keyboard offers the operator an optimal comfort and indicates the status of the process by pictograms. For maintenance purposes the table is hinged for easy access.

Economic efficiency

Our Bio-Circle™ L compared to solvent systems has up to four times longer service life. Even if the soiling is increasing you will still have a constant cleaning result. Bio-Circle™ L means no danger for humans and environment with high effectiveness and economics at the same time.



Comparison between conventional Parts Cleaner with Cold Cleaner and Bio-Circle™ Parts Cleaner

| | Cold Cleaner | Bio-Circle™ Bio-Circle™ L |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| What is the effect of increased contamination? | saturation of the cleaning liquid – cleaning effect falls off | good stable results the whole time 😊 |
| What contaminations can be removed? Organique, apolar (grease, oil) Inorganique, polar (salts) Inorganique, apolar (iron fillings, dust) | Very good results Poor results Poor results | Very good results Very good results Good results 😊 |
| What materials can be cleaned with? Stainless steel Steel Aluminium Non-ferrous heavy metals | Very good results Very good results Very good results Very good results | Very good results Very good results Very good results Very good results 😊 |
| Safety and health provisions for workers | | |

| Health damage <small>(Source: Reinigen und Entfetten, BG Maschinenbau- und Metall-BG 1997)</small> | Cold Cleaner | Bio-Circle™ Bio-Circle™ L |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------|
| Damage to the nervous system | Toluene, xylenes, trichlorethylene, benzenes (hexane isomers, pentane, heptane, octane) | no 😊 |
| Damage to the skin | Yes | no 😊 |
| Damage to the liver | Dichlormethane, Trichlorethylene, Toluene, xylenes, methanol, ethanol | no 😊 |
| Damage to the kidneys | Trichlorethylene, Kerosene, Petrol/gasoline, Hexane, heptane, toluene, xylene, alcohols | no 😊 |
| Damage to the blood cells | Toluene, benzene | no 😊 |
| Mutagens and teratogenes | Organic solvents | no 😊 |
| Cancerogen | Benzene | no 😊 |

*The used micro-organism are non-pathogen bacteria of group 1 acc. to Directive 2000/54/EC. (Group 1 means that it is unlikely to cause human disease).