

Smart Biz Oz Pty Ltd - Modern Biotechnology That Pays Off

Smart Biz Oz Pty Ltd was founded in 2017 as the sole international distributor and manufacturer of Biologic GmbH products.

"We are located at the German-Australian Chamber of Industry and Commerce, which encouraged us to make the big step from Germany to Australia. We received outstanding support and comprehensive advice from the beginning until today. It has saved us a lot of time and money", says director Robert Grodde.

Smart Biz is now on the market and its focus is on organic food-waste (FOGO = Food Organics Green Organics) collection, which will be introduced in more areas. The aim of the councils and cities is to prevent organic waste being dumped in landfill. Under anaerobic conditions, organic waste produces methane gas, which poisons the atmosphere 21 times more than the climate-killing gas carbon dioxide does.

Organic food-waste collection attracts flies, maggots and vermin due to its bad smell and causes trouble with users and neighbouring people. The acceptance of food-waste collection, which is mandatory for the success of FOGO, will be close to zero if no one acts on the smell, flies, maggots and vermin.

The bio-filter lid from Smart Biz Oz is the solution for all aforementioned problems. The lid acts as a 'defence shield' against maggot infestation, effectively reduces odours and covers both municipal and FOGO bin costs. FOGO waste bins not only spread their unpleasant smells, they are also a preferred settlement area for maggots, swarms of flies and fungal spores.

The bio-filter lids – suitable for all common container systems (MGB) in sizes 40 to 240 liters – are scientifically proven to reduce the smell and subsequent rat infestation. This is possible thanks to active enzymes and microorganisms in the filter material of the bio-filter cover. The double-lip seal of the lids tightly closes the FOGO bins. Thereby, vermin-luring gases do not escape and pests cannot invade. The enzymes and microorganisms contribute greatly, as composting is initiated already in the bin and hazardous fungal growth and spores are prevented from discharging.

The filter material is a natural substrate based on coconut fibres, inoculated with specially adapted microorganisms. Before starting up the compressed and dry filter material must be moistened to activate the enzymes

and microorganisms and to fill out the filter chambers completely by swelling (within 15 to 30 seconds).

The filter material only needs to be changed every two years, with almost negligible costs. The harmless filter material is also disposed via the FOGO bio.

Dr Werner Mathys (Institute of Hygiene, Westfälische Wilhelm University of Münster, Germany), based his extensive test series on the development of odours in due to fly and maggot infestation.

What was especially impressive was the reduction of odours in the environment of the FOGO bin. With conventional lids, around 75 per cent of the bins were infested by flies and maggots but using the bio-filter lid this value could be reduced to below two per cent.

Dr. Mathys concluded at the end of the test, "The replacement of conventional lid systems through bio-filter lids significantly improves the hygienic quality and comfort in the separated collection of food waste."

The conversion to the bio-filter lid has paid off: For instance, the city of Fürth, Germany, opted for the nationwide introduction of the bio-filter lid. A total of 16,000 waste bins were converted and the collection cycles were converted from weekly to every fortnight. This resulted in an annual saving of 300,000 euros.

Whereas the FOGO bin creates an odour-free front yard, the bio-filter insert for kitchen bins works inside and is the next logical step in the hygienic collection of food waste. High room temperatures are no longer a cause for concern when it comes to organic waste in the home.

The demand for Smart Biz bio-filters is enormous. Trials with councils and other companies demonstrate the outstanding performance of the bio-filters and prove that it was wise to expand business to Australia.

More information on: www.smart-biz.com.au

Written by Smart Biz, DEInternational business representation client

