BUILDING PRODUCT INFORMATION REQUIREMENT SHEET (BPIR)

GREASE CONVERTER

Grease Converter

Product Information Sheet

Performance Class 1

NEW ZEALAND MADE

www.mactrap.co.nz 0800 MACTRAP info@mactrap.co.nz

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Product Description and intended use:

MACTRAP specialises in the design and manufacture of wastewater separation systems and associated pumping solutions.

This Product Description relates to our range of under-bench grease removal units known as the Grease Boss.

Grease Converter intercept fats, oils, and grease (FOG), and sediment, that flows with the wastewater from commercial kitchens. Wastewater enters the Grease Converter and the FOG rises to the surface while the heavier food sediment settles on the bottom of the tank.

Cleaned wastewater exits the Grease Converter without allowing the separated sediment or FOG to leave the separating chambers.

An Enzyme is automatically injected into the Grease Converter every 24 hours. The enzyme works with bacteria in the tank to break down the FOG and change it to a fatty acid that can flow to the wastewater network.

Mactrap has two ranges of Grease Converters differentiated by the material used in the tank.

- Stainless steel tank
- Polymer tank - rotomolded

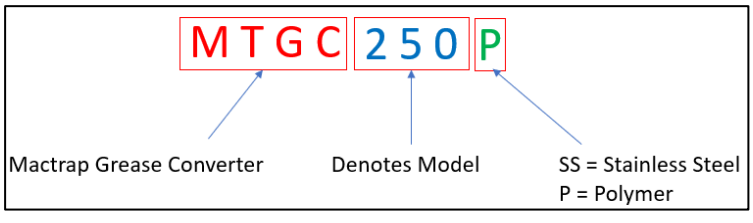
Both ranges use the same high-quality auto-dosing pump and use Bio-zyme as the conversion agent.

Trolley and quick removal connections available.

Product Identifier

There are three parts to the Product Identifier/ Product Code

Example Product Code – MTGC250



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Place of Manufacture

The Grease Boss is manufactured in New Zealand by Mactrap Limited. The design and intellectual property of these products, unless stated otherwise, belong to Mactrap Limited.

Mactrap Limited
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Aongatete
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NZBN 9429046014504

Relevant Building Code Clauses

- NZBC Clause G13 Foul Water – AS2 – Grease Traps: 3.4.1 to 3.4.7
- NZBC Clause G14 Industrial Liquid Waste – VM1 & AS1 – Drainage: 2.2.5

Statement on how the building product is expected to contribute to compliance.

The Mactrap Grease Converter range are pre-treatment devices designed to trap and remove fat, oil and grease (FOG) therefore preventing FOG from entering the wastewater network system. Periodically the Grease Converter must be completely emptied and cleaned to remove the food sediment that forms on the bottom of the tank.

MACTRAP Grease Converters are suitable for internal use and removes fats, oil, and grease (FOG) from wastewater by automatically adding enzymes to remediate the waste.

After leaving the sink, the wastewater enters the Grease Converter and the FOG separates and forms a layer which floats to the top. 'Bio-Zyme Industrial' is automatically added to the tank every day. Bio-Zyme includes natural enzymes that break down oils and greases in the Grease Converter making it easier for nature's bacteria to consume any organic waste matter and at the same time eliminating any odours.

Suspended solids remaining in the water settle on the bottom of the converter and are cleaned out during the converter's regular maintenance schedule.

The size of the grease trap is specified to comply with the NZBC, Council By-laws and good practice calculations.

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Installation Requirements

Refer to the Installation Instructions on https://mactrap.co.nz/products/grease-converter-chemiclean/

- Product not to modified in any way that will compromise performance.
- Follow all standards under Plumbers, Gasfitters, and Drainlayers Act 2006 for installation

Design requirement that would support the appropriate use of the building product:

It is important that wastewater can flow from the Grease Converter without restriction and therefore critical that a minimum of gradient of 1:40 is achieved on the outlet pipework.

The number of sinks and fixtures must not exceed the plans upon which the Grease Boss size was sized.

Dishwasher should not connect to the Grease Converter.

Follow all standards under Plumbers, Gasfitters, and Drainlayers Act 2006 for installation.

Pumping greasy water to the Grease Converter should be avoided because the fat and grease is emulsified by the pumping action and separation will be delayed.

Operations and Maintenance Requirements

Wastewater from kitchen contains FOG and food sediment. The Grease Converter is very effective at transforming and removing the FOG from the tank.

However, food sediment that escapes the sink such as fine food particles, flour, aioli and sauces will build up on the bottom of the tank. It is important that staff scrap food preparation surfaces, plates etc into the rubbish bin to help keep food out of the sink.

Sink Filters

Use a permanent sink filter to help reduce the food particles entering the Grease Converter.

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Check Bio-zyme is available and the auto-doser is turned on

In normal operations bio-zyme is dosed into the Grease Converter every day at a prescribed and pre-programmed volume. (typically, 100ml per day). If the Bio-zyme bottle is empty or the auto-doser is not working, then the Grease Converter reverts to a very small passive trap and will fail within a few weeks resulting in FOG escaping to the WW network and a strong likelihood of blocked building pipework.

Clean out

The Grease Converter must be completely emptied and cleaned regularly – the period depends on the build up of food on the bottom of the tank, but every 3 months is a good starting point.

Dishwashers

Do not plumb dishwashers into the Grease Converter. The wastewater from dishwashers is very hot, often turbulent and contains caustic cleaners. The heat and turbulence have a greater impact on a small trap like the Grease Converter and delay separation of FOG therefore risking emulsified fats entering the wastewater network. The caustic cleaners have a very negative impact on the ability of the Grease Boss successful operation.

Caustic Cleaners in the kitchen

Caustic cleaners such as Janola, sugar soap, degreasers, sanitizers, dishwashing powders etc will damage the bacteria in the tank and negatively impact the ability of the Bio-zyme in the Grease Converter to break down the fats and oil. Kitchen staff should primarily use simple detergents for clean-up.

Limitations of use of the building product

Mactrap Grease Boss range of products have been designed for compliance with the scope outlined in building code clauses listed above and are to be installed as per published installation guides.

Is the building product range subject to warning or ban under Section 26?

No