



# fridgefree<sup>®</sup>



AMNITE<sup>®</sup> L600

The natural solution to refrigerator gel blockages. Bacterial exopolysaccharide gel can form in refrigerator condensate drain lines. This leads to frequent floods with the resultant slip hazard for customers, expensive drainage charges to clear the blockages and lost revenue due to the refrigerator down time.

# fridgefree®

## Installation/application requirements

Installed by:	CBIO engineers
Power requirements:	Battery
Mains water requirements:	None
Injection point:	Watertight injector at the head of the condensate drain

## Product availability

Dosing unit	
Single dosing unit:	160 x 140 x 110mm
Bio-fluid	
FridgeFree reservoir container:	600 x 300 x 80mm

## Bio-product description

Biological activity:	Min 1 x 10 <sup>7</sup> cfu/ml
Appearance:	Natural viscous liquid
Hazard group:	Hazard group 1

## Health & Safety statement

Material Safety Data Sheets are available on request

## FRIDGEFREE IS THE NATURAL SOLUTION TO THE PROBLEM OF GEL BLOCKAGES IN REFRIGERATION CONDENSATE DRAINS.

The gel, which analysis has shown to be an exopolysaccharide, is secreted by bacteria in a nutrient deficient environment, and forms in the condensate drains serving refrigeration units, causing blockages and floods. The main cause of this gel would appear to be the lack of fall in these pipes, as they are often laid directly on the shop floor, allowing the relatively warm condensate water to pool in the pipework.

In CBIO's experience, these gel blockages occur most frequently in the H/T units, and then chiefly in the dairy, meat and produce counters. Though, having said this, the gel can affect any refrigeration line, and some lines, often adjacent, will remain unaffected.

The floods themselves are a continual headache for store managers and maintenance staff alike. Not only are they unsightly and expensive to fix, but they can be a Health & Safety issue, and then there is the problem of de-merchandised refrigerators and lost revenue. This view is supported by the following comment made by a major supermarket maintenance manager: "CBIO installed FridgeFree systems as a trial at a store with a long history of refrigeration drain blockages, usually every 3-4 weeks. Since installation, 3 months ago, there have been no further blockages and the drains are free-running. It looks like a solution to one of our major problems."

The FridgeFree system itself is an automatically dosed bio-fluid, discretely located on top or underneath the relevant refrigeration unit. The fluid is dosed directly into the condensate drain line or sump depending on the nature of the specific problem. The unit itself is timed to dose a fixed amount of fluid each day and will run unattended for 3 months. CBIO's team of in-house service engineers will install and maintain each unit ensuring that they never run out of fluid.

The bio-fluid itself is a blend of Bacillus spores and natural surfactants which together act to break down and then prevent the gel from forming. The product itself is entirely environmentally friendly and contains no biocides, unlike all other available products. This means the product has no detrimental impact on the environment downstream of the chiller.

FridgeFree units are currently installed in most major national supermarket chains and results to date have been excellent. As long as the units are installed and maintained correctly then gel blockages do not recur.

