

CryoTemp Data Loggers Aid in Energy Saving Discoveries



BACKGROUND

Based out the of United Kingdom, Green Light Laboratories Limited specializes in all aspects of lab equipment sustainability. The core objective of Green Light Laboratories Limited is to help laboratories minimize their running costs without having any negative effect on the science or scientists, all while adhering to climate change legislation.

CHALLENGE

Green Light Laboratories Limited required low temperature data loggers for a study they were conducting to establish the energy that's wasted, and could be saved, by laboratories using freezers that have the function to manually set the temperature of that unit.

SOLUTION

The MadgeTech CryoTemp Ultra-Low Temperature Data Logger was the perfect data logger for the job. Capable of recording temperatures in environments as low as - 86 °C, the CryoTemp is compact in size with no external probe required.

“Just by procuring a freezer where you can easily set and control the temperature is a wise choice. Such a choice allows the laboratory to implement better practice and to take another step in the sustainable direction.” – Green Light Laboratories Limited


Using ten CryoTemp data loggers, Green Light Laboratories Limited collected data over the course of a week, recording the internal temperature of the freezer every minute, accurate to 0.1 °C. By strategically placing the CryoTemp data loggers throughout the freezer, Green Light Laboratories Limited determined that laboratory freezers do not use high amounts of electricity. However, by warming up freezers to meet the maximum temperature, the heat output is reduced, lessening the need for air conditioning, and reducing energy use.



Wessex Power is the exclusive MadgeTech distributor for the United Kingdom. For more information on the DHS or to find your perfect MadgeTech data logging solution contact Wessex Power at +44 (0)1929 459 459.

 madgetech.com

 info@madgetech.com

 (603) 456-2011