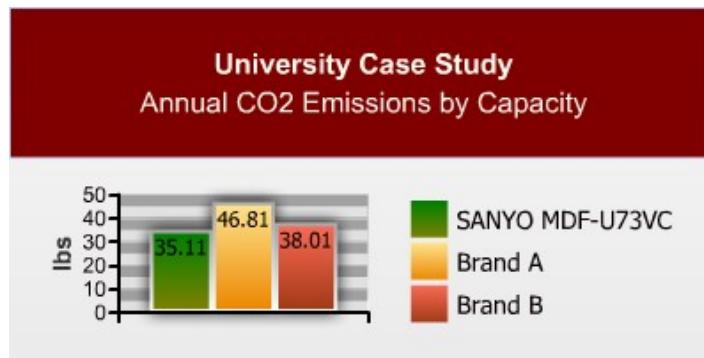


University Case Study Demonstrates SANYO Ultralow Freezers Provide Competitive Performance in Energy Efficient and Environmental Lab Standards

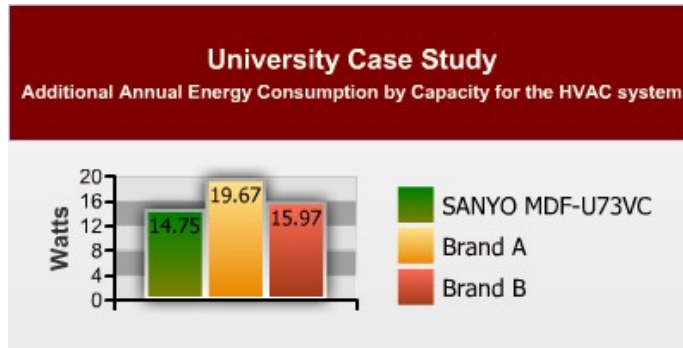
Wood Dale, IL, July 30, 2008— A leading university conducted a case study on the costs and environmental impact of three different brands of ultralow freezers. Calculations included in the study were total costs for operating and cooling, annual CO2 emissions, and the additional energy consumption needed for cooling by the HVAC system. The SANYO MDF-U73VC performed well in all three categories.

The study was conducted on three popular brands of ultralow biomedical freezers to calculate environmental impact vs. efficiency and cost based on the per unit box capacity. Measurements included: the average power consumption under normal operation, heat rejection (BTU), annual energy consumption (kWh, assuming 2080 operating hours per year with the remainder in a different temperature), additional annual energy consumption by the air conditioning system to cool the operational BTUs (kWh, assuming a seasonal energy efficiency rating SEER of 10), total annual operating cost for operation and cooling (assuming average price 9.54 cents/ kWh), and the annual CO2 emissions (calculated using 1.19 lbs CO2 kWh from APPA generation and emissions data for 200; EIA Annual Energy Review 2001). Also calculated was the 2” box capacity (carbon footprint based on storage capacity), heat rejection and noise levels.

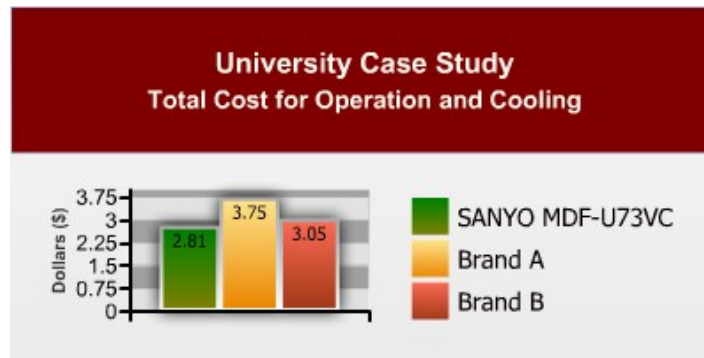
Test results demonstrated that SANYO ultralow freezers reduced operational costs through higher volume efficiency than competitive units. They also maximize lab space by utilizing smaller footprints for high density storage, allow for minimized HVAC loads in facilities and emit less heat into the laboratory, minimizing air conditioning costs significantly. Test results concluded that the SANYO MDF-U73VC released 24.9% less annual CO2 emissions than the leading competitive unit. Additionally, The SANYO MDF-U73VC used 25% less energy than the competitor for the HVAC system to remove heat from the room. Total operating costs with the SANYO MDF-U73VC were 25% less than competitor for total heating and cooling.



Graph 1: SANYO Freezers help the environment by reducing carbon footprint.*



Graph 2: Additional energy consumed to remove heat generated by the freezer from a room.*



Graph 3: SANYO freezers emit less heat into the laboratory, minimizing air conditioning costs.*

**Based on internal performance data. Tested in 25°C ambient environment with freezer cycling at -80°C. Cabinet volume, 25. cu.ft. average cabinet temperature based on temperature mapping (17 thermocouples).*

Additional statistics, data and case study information can be viewed on the green campaign site: http://www.sanyobiomedical.com/campaign_green.php.

About SANYO:

SANYO Electric Co., Ltd. is a multi billion dollar global leader in providing solutions for the environment, energy and for lifestyle applications based on its brand vision, 'Think GAIA.' SANYO Commercial Solutions Company (a division of SANYO North America Corporation, a subsidiary of SANYO Electric Co., Ltd.), based in Wood Dale, IL, provides laboratory equipment for pharmaceutical, life science and biotechnology applications. Product lines include space-efficient V.I.P.® ultra-low temperature freezers, cryogenic freezers, pharmaceutical and medical refrigerators, cell culture incubators, plant growth chambers, and portable autoclaves.

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Green Release Coverage

Print

Pharmacy Purchasing and Products, 9/08 "New & Noteworthy"

American Biotechnology Laboratory, 8/08 Product Profile

American Biotechnology Laboratory, 9/08, Case Study

Laboratory Product News, 10/08, Green Focus

Laboratory Focus, 12/08, Green Focus



Online

[Treehugger.com](#)- SANYO Offers Green Ultralow freezers

[Lab Manager Magazine](#)- Keeping Samples Cold, Very Cold

[Sustainable Life Media](#)- SANYO Unveils Super Efficient Lab Freezers

[Business Exchange](#)- SANYO Offers Green Ultralow freezers

[ABL Online](#)- Ultralow Freezer Case Study

[Laboratory Focus Online](#)- SANYO introduces new ultra-low temperature (ULT) conventionally insulated laboratory freezers

[Silobreaker.com](#)