

## Energy Case Study Summary

### Efficiency Gain on an Open Frame Fresh Food Cooler



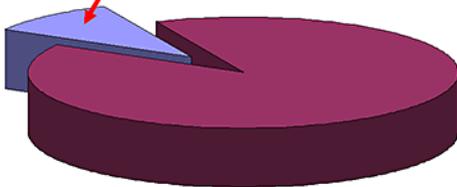
Namdhari's Fresh Foods, with its headquarters in Bangalore is a progressive supplier of quality food products in India. Fresh food is kept cool and this cooling is critical to the preservation of quality. With a view to reduce energy, while at the same time having reliable cooling, Namdhari asked Protronix Energy Private Ltd. to monitor and treat an open frame food cooler at one of its stores.

Protronix is a master distributor for Power Knot in India and supplies the Power Knot Synthetic Refrigerant Additive (SRA) to companies wishing to increase energy efficiency and reduce carbon footprint.

Protronix monitored the system with a data logger for eight weeks. Initially, the analysis of the data by Protronix indicated the system needed repairs and adjustments. After these changes were made, the system was more efficient by 37%. Subsequent treatment with the SRA (now on a properly working unit) further increased the energy efficiency by over 18%.



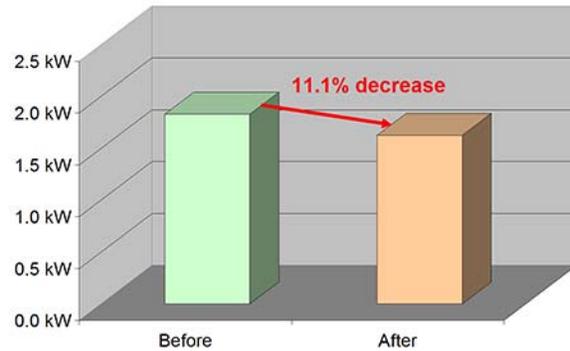
**We promise 10% increase  
in efficiency on chillers  
and air conditioners**



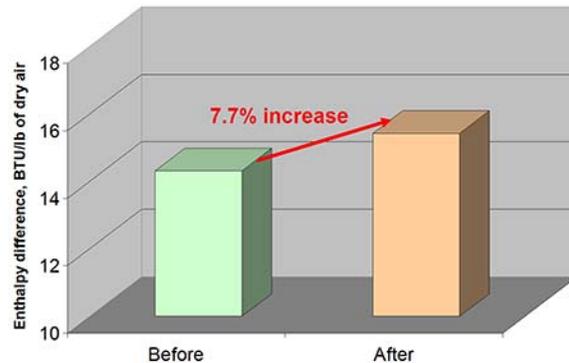
This a/c system was made by Omega:



After treatment with the SRA, we measured an average reduction in power of 11%:



Also, after treatment with the SRA, the food was cooler; the air conditioning system was doing more work than before treatment. The increase in work being done was over 7% as measured by the enthalpy:



**The net effect is an improvement in energy efficiency of over 18% and the ability to keep the food cooler.**

Request a copy of the full report today from [sales@powerknot.com](mailto:sales@powerknot.com).

This is an example of the benefits of the Synthetic Refrigerant Additive supplied and supported by Power Knot. For more information on the Synthetic Refrigerant Additive, please contact your local sales representative or send an e-mail to Power Knot at [powerknot@powerknot.com](mailto:powerknot@powerknot.com).

Power Knot provides safe and economically sound solutions for businesses seeking to reduce energy costs and their carbon footprint through maximizing the efficiency of their cooling systems. Power Knot works with commercial, industrial, and military customers globally to reduce cooling system energy usage, improve energy efficiency, provide colder air, reduce maintenance expenses, and increase the lifetime of the systems. Their technologies are proven and available today, have been in reliable use for many years, and offer a payback period typically of less than two years. For more information, access [www.powerknot.com](http://www.powerknot.com).

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