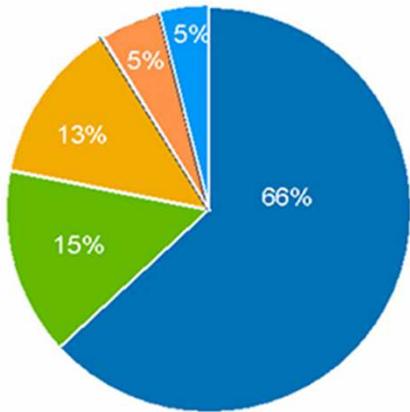


Reliable "Miracle Coil" reduces the power consumption of data center (cooling)



Cooling 66% Server 15% Storage 13% Network 5% AC conversion 5%

Data center power consumption rate

From article of ITmedia in 2008 (Source: HP survey in 2007)

At the data center, about 70% of the power consumption is used for cooling. As IT introduction accelerates, power consumption tends to increase year by year with data volume. Energy cost and CO2 emission are increasing in the data center. "Miracle Coil" solves this problem.

Features of Miracle Coil

- Supercool the refrigerant after exiting the condenser and increase cooling capacity
- Reduce power consumption
- Reduce the load on the compressor and extend its life
- Installation is easy and secure

We installed "Miracle Coils" to the cooling units in the server room of a major automobile parts factory and verified the effects.

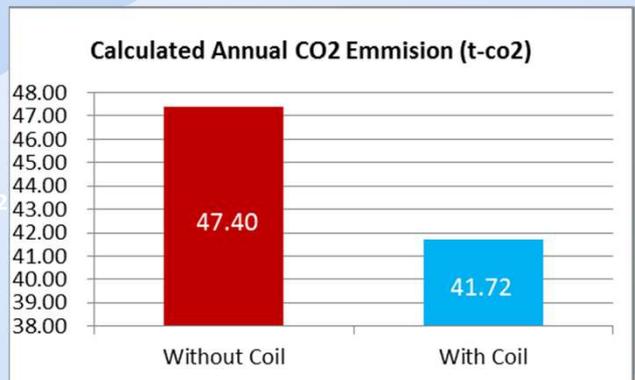
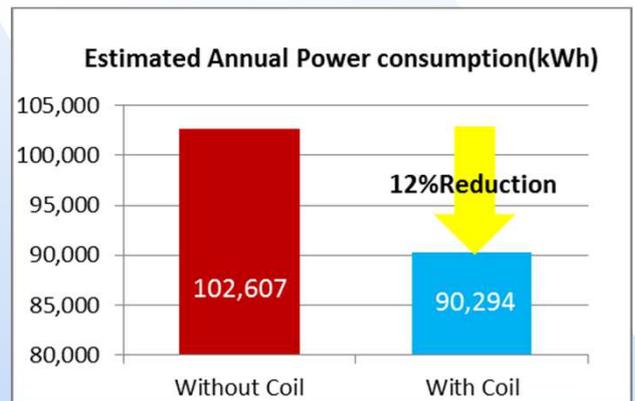
Test period: one year from Jan.2014 to Dec.2014
Result: The power reduction of cooling (5units) was 12% average.
Up to 23% reduction was observed.



Installed in 3 of 5 units

Because there is no comparison data before installation, we switched the piping with / without coils every 7 ~ 10 days, and monitored the power consumption of 5 units.

- ★ Although "Miracle Coil" does not cause equipment malfunction, in the event of an accident, we will guarantee it. (Covered by PL insurance)
- ★ Maintenance is not necessary after installation.



The CO2 conversion factor used is the value at the time of installation.

Contact us

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Miracle Coil is ideal for chillers and refrigerators!

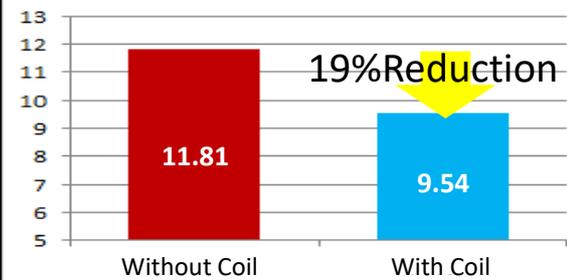
Applicable to both types of chillers whether air cooled or water cooled

Major pigment ink manufacturer (a listed company on the First Section of the Tokyo Stock Exchange)
The chiller for cooling manufacturing machines

Compressor Output 26kW



Comparison of power consumption per hour (kWh)

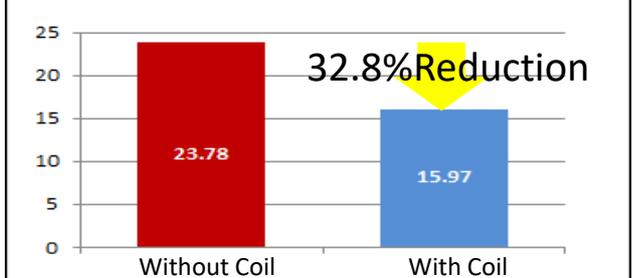


Fine chemical plant
The chiller for cooling its clean room

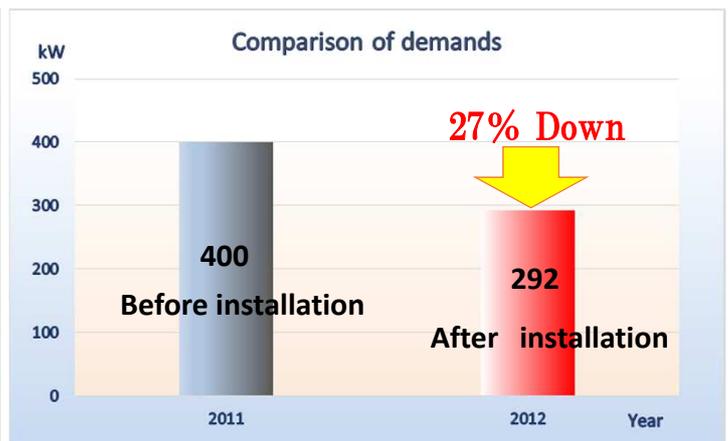
Compressor Output 22kW



Comparison of power consumption per hour (kWh)



Frozen / chilled warehouse



The other page shows a case of data center

