

Supersaver

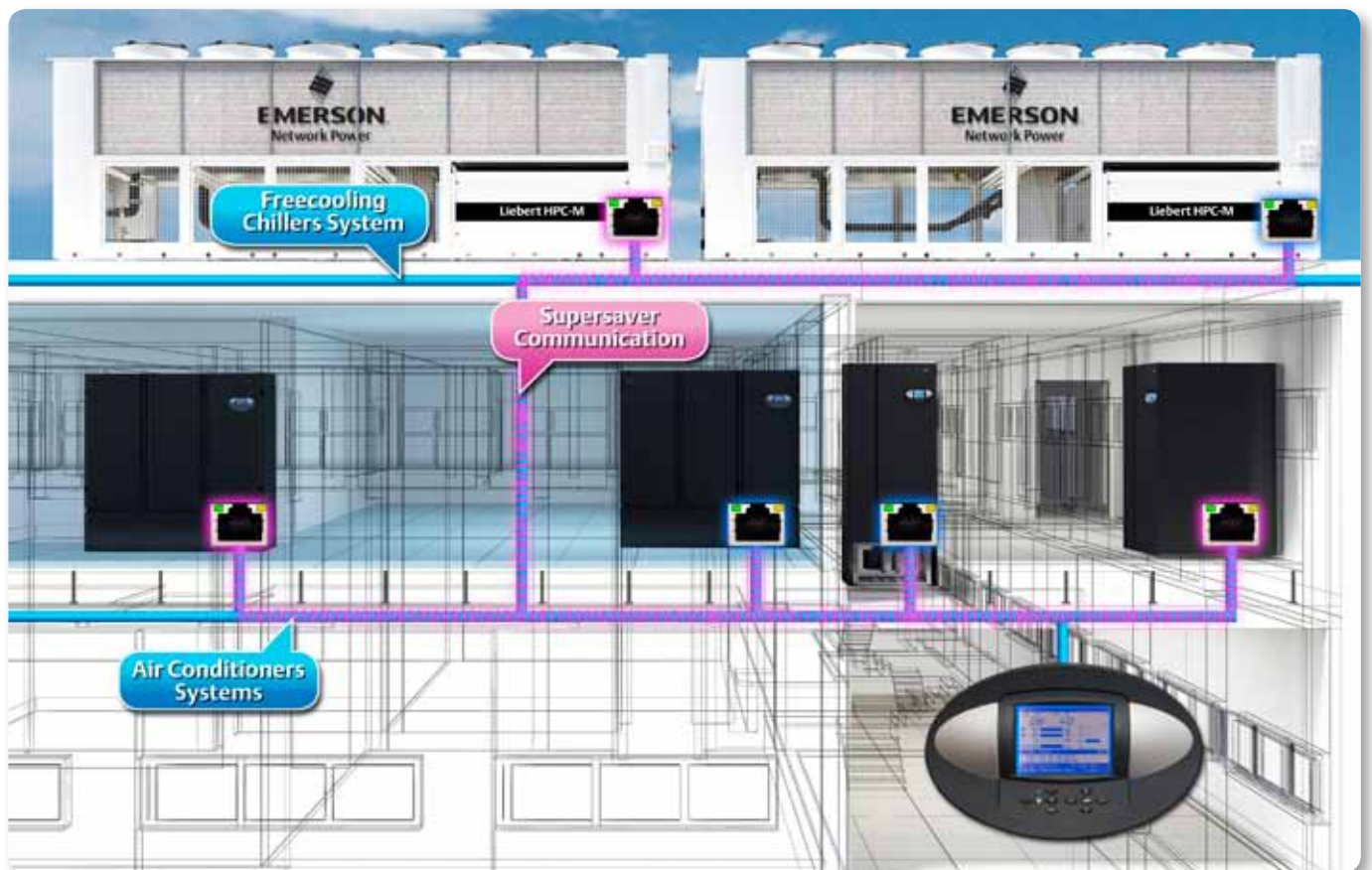
Maximization of Energy Saving for Data Center Freecooling Systems



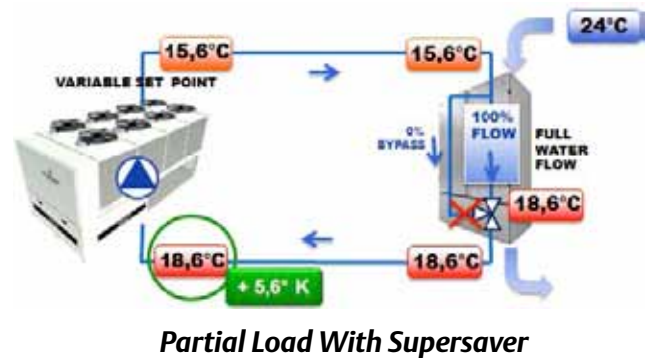
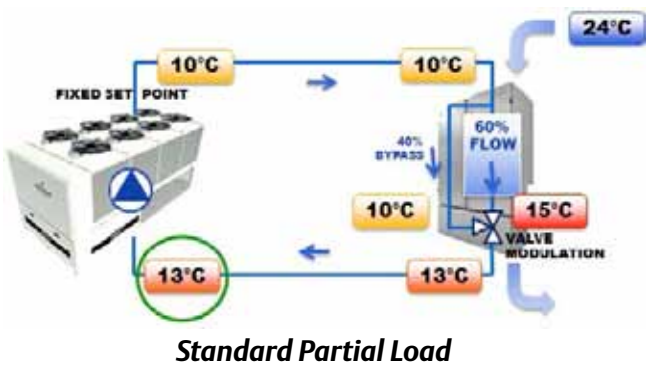


Supersaver: Freecooling Enhanced by iCOM[®] System Communication

Supersaver is the iCOM[®] embedded software function that exploits LAN communication between Freecooling chillers and chilled water air conditioning units in order to increase the whole cooling system efficiency. Benefits are higher when the Supersaver is applied to Data Centers where the heat load is variable or reduced for a certain period of time, as for example co-location centers, data centers developed in consecutive steps or with redundant units and for suppliers of cloud computing services.



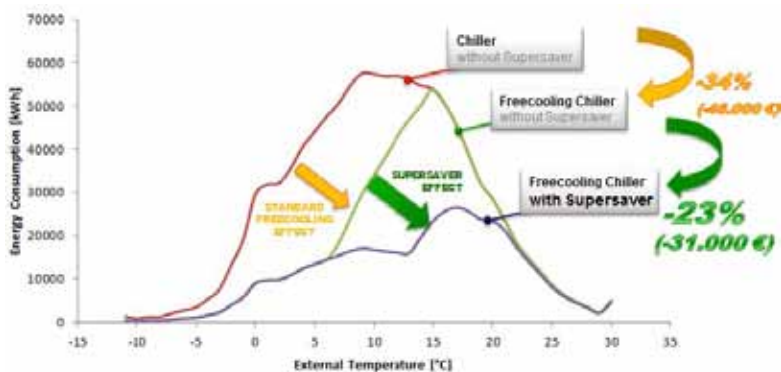
Optimized Energy Saving at Partial Load



With the Supersaver function, freecooling chillers and air conditioning units coordinate their regulation logics in order to exploit the full water flow into the coils and at the same time increasing the chilled water temperature when allowed by partial heat load conditions.

If compared to the standard regulation logic, the Supersaver leads to an increase of the freecooling performance and energy saving, while providing the same cooling performance to the servers.

Year Energy Cost Comparison



DESIGN CONDITIONS:

Cooling load: 1000 kW
In-Out water temp: 15-10° C
Ext. air temp: 35° C
CRAC air set-point: 24° C
Glycol: 30%

WORK CONDITIONS:

Cooling load: 600 Kw (PART LOAD 60%)
City: Paris
€/kWh=0,12

COMPARED MODELS:

Liebert® HPCCG4100 Chiller
Liebert® HPCFG4100 Freecooling Chiller
Liebert® HPCFG4100 Freecooling Chiller + Supersaver



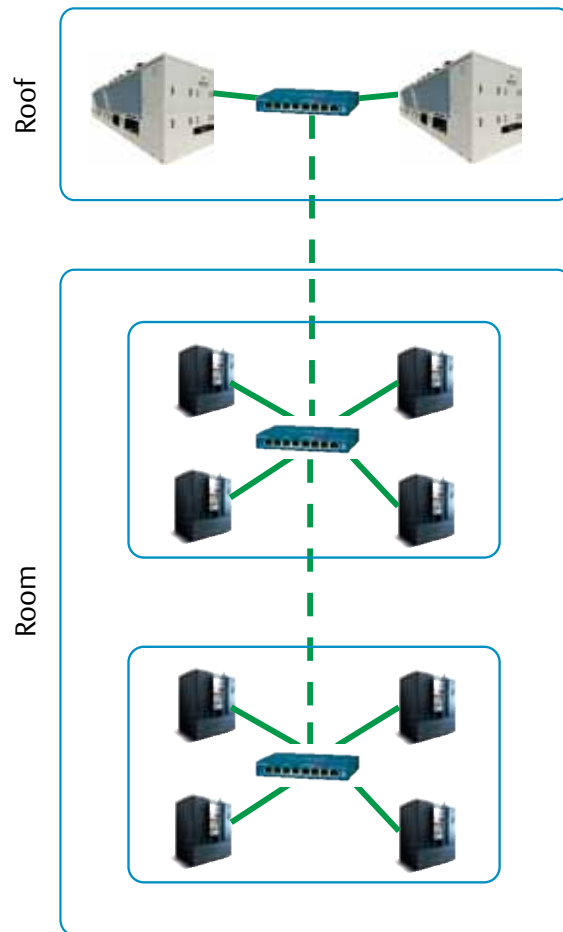
Easy Implementation and High Reliability

The Supersaver function is available for all the Liebert® HPC Freecooling Chillers range, as well as for all the Liebert chilled water air conditioning and in row units, both with three-way and two-way valve configuration.

The only site requirement is a standard Ethernet connection to a common LAN for all the Liebert cooling units of the system. The reliability of the system is protected also in case of a LAN failure since the Supersaver mode will automatically turn off, bringing the freecooling chiller and the air conditioning units to the standard functioning.

With the Supersaver, the same group of freecooling chillers can manage up to a maximum of 20 different groups of air conditioning units, each group serving a different Data Center area. The Emerson Network Power technicians will supervise the installation of the system, in order to optimize the settings and ensure the highest energy savings.

The Only Site Requirement: Connection Via Local Area Network



SYSTEM

21.0 17.0
16.9 °C

AMB 5.7 °C

FC 87%
8%
%

ECO %
%

8/2017 14:45:45

DATE	TIME	MSG	UNIT	OP
8/2017	14:45	(01)	MSG	UNIT
8/2017	14:45	(01)	MSG	UNIT

00 00 00 00 00 00

error code: 005 success

Control panel with buttons: **TE**, **?**, **ESC**, and directional arrows (up, down, left, right).

Ensuring The High Availability Of Mission-Critical Data And Applications.

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Emerson Network Power, a business of Emerson (NYSE:EMR), delivers software, hardware and services that maximize availability, capacity and efficiency for data centers, healthcare and industrial facilities. A trusted industry leader in smart infrastructure technologies, Emerson Network Power provides innovative data center infrastructure management solutions that bridge the gap between IT and facility management and deliver efficiency and uncompromised availability regardless of capacity demands. Our solutions are supported globally by local Emerson Network Power service technicians.

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