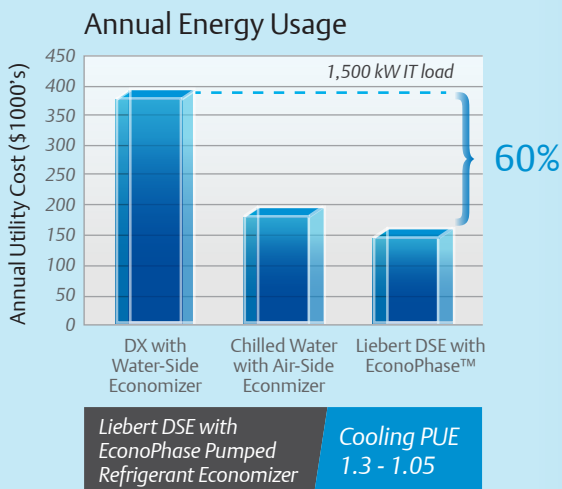


Liebert® DSE™

DX Cooling and Refrigerant Economizer System, 80kW – 150kW



The Liebert DSE is the world's most efficient DX data center cooling solution

- Highest efficiency system with state of the art mechanical components
- First ever pumped refrigerant economizer - highest efficiency, hassle-free
- Next generation Liebert iCOM™ system controls with auto-economization mode-switching

Highest efficiency system

- Economizer system with mechanical PUE as low as 1.05
- 26-53% higher SCOP at full load than ASHRAE 90.1 standard
- Variable capacity system matches IT load and optimizes energy consumption at partial loads

State-of-the-art mechanical components

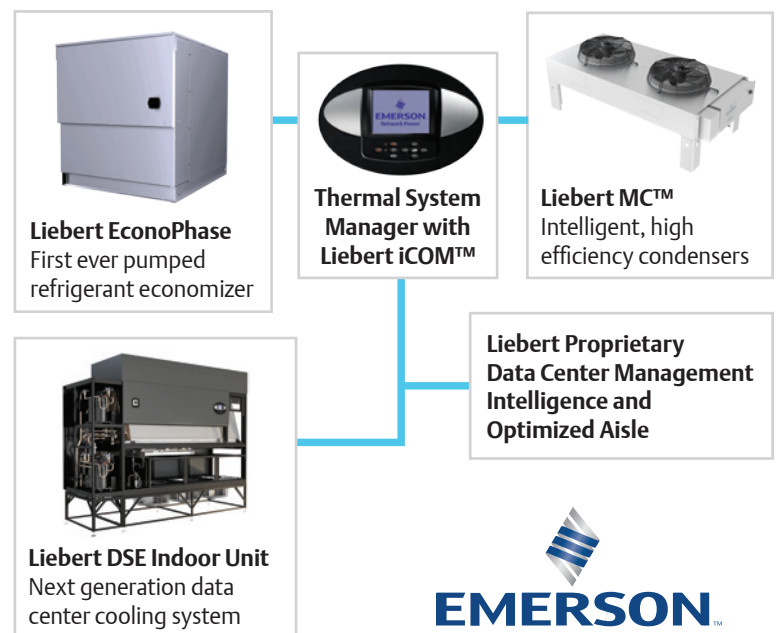
- Variable-capacity Digital Scroll compressors and variable-speed direct-drive EC fans controlled to match IT load and provide high efficiency operation at partial load conditions
- Electronic expansion valves increase DX efficiency at lower ambient temperatures
- Industry-first, EconoPhase™ pumped refrigerant economizer
- Liebert MC™ condenser with advanced controls and variable speed components

First ever pumped refrigerant economizer

- No water and no water treatment
- No outside air contamination, and no dampers and louvers to maintain
- Instant changeover to economizer mode, even for short time periods

Next Generation Liebert iCOM System Controls

- Seamless, automatic changeover between DX mode and economizer mode
- Constantly monitors load, room and outdoor conditions to adjust system operation to most efficient operating mode
- Mechanical systems networked together to optimize component performance and increase system reliability



Liebert DSE performance and dimensional data

DA125 efficiency performance

Cooling Mode	Outdoor Temp	Cooling PUE	SCOP kW/kW
Full Compressor	95 °F	1.28	3.6
Partial EconoPhase™	65 °F	1.17	5.9
Full EconoPhase	45 °F	1.09	11.1
Full EconoPhase	< 30 °F	1.05	18.6

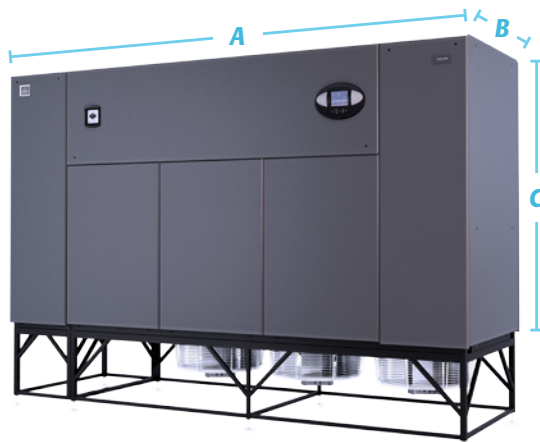
Based on 85 °F return air, 80% load

Technical data

		Model			
		DA080	DA085	DA125	DA150
95 °F DB, 52.3 DP	Total Capacity kW (net)	88	100	146	170
	Sensible Capacity kW (net)	84	94	146	170
	Full-load SCOP @ 95 °F ambient	3.2	3.1	3.8	3.2
	SCOP @ 35 °F ambient (kW/kW)*	10.5	10.1	17.5	13.0
85 °F DB, 52.3 DP	Total Capacity kW (net)	85	92	130	153
	Sensible Capacity kW (net)	77	83	130	153
	Full-load SCOP @ 95 °F ambient	3	2.7	3.4	2.9
	SCOP @ 35 °F ambient (kW/kW)*	9.1	8.7	12.2	12.0

*Economizer mode operating at 100% of DX capacity

Note: Capacity data is rated and factory-certified per ASHRAE 127-2012 with a 5% tolerance



Basic dimensions

Model	Length (A)	Width (B)	Height (C)
DA080	100"	35"	76"
DA085	100"	35"	76"
DA125	144"	47"	76"*
DA150	144"	47"	76"*

*Add minimum 18" height for separate filter plenum, plus floorstand height

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