

Smarter technology for all

Servicing Neptune Liquid Cooling systems

ES42714

November 2024

Lenovo

Prerequisites

- [ES51757B – Introducing ThinkSystem tools](#)
- [ES52374 – ThinkSystem tools for the ThinkSystem V3 platform](#)
- [ES52678 – ThinkSystem tools for the ThinkSystem V4 platform](#)
- [ES41759C – ThinkSystem problem determination](#)

Objectives

After completing the course, you will be able to:

- Describe Neptune Liquid Cooling systems
- List the servers that support Neptune Liquid Cooling systems
- Describe the different types of Neptune Liquid Cooling systems
- Describe Neptune Liquid Cooling components
- Describe the problem determination steps and explain how to troubleshoot issues with Neptune Liquid Cooling systems

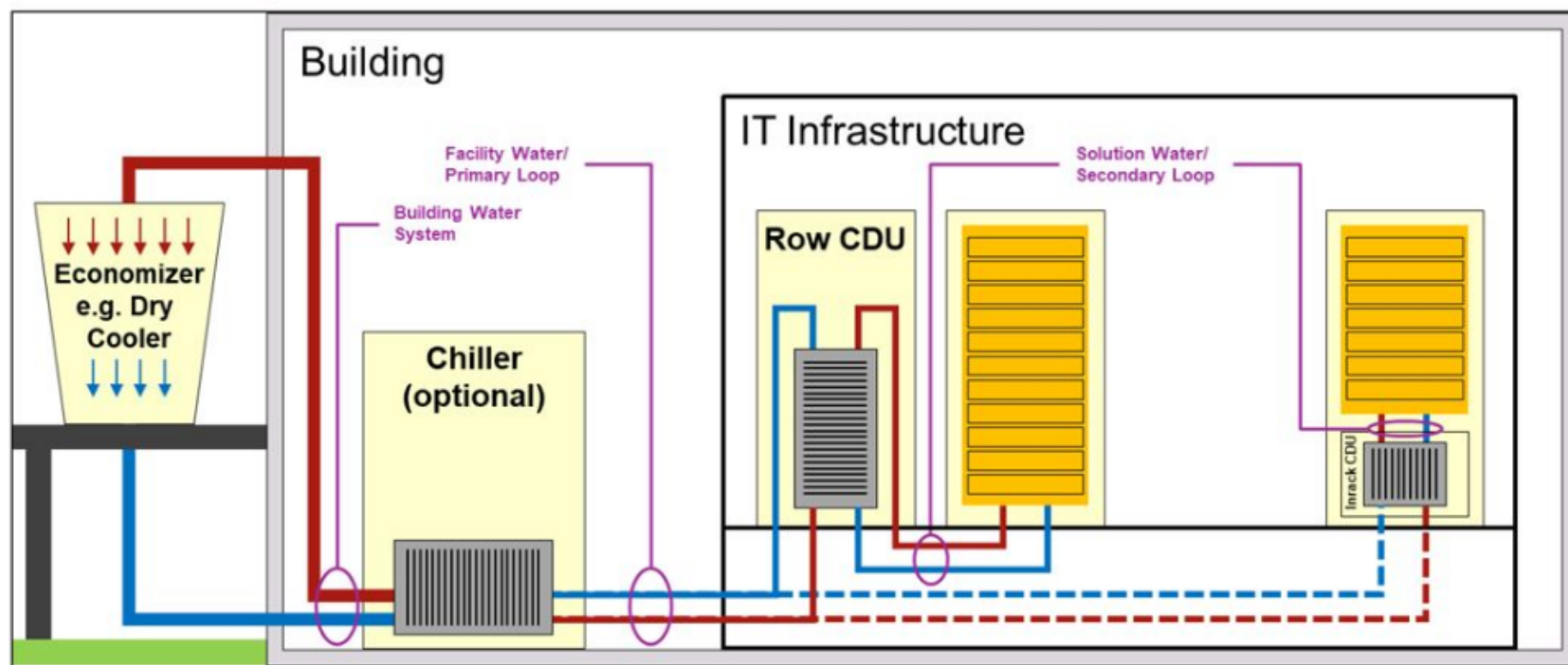
Neptune Liquid Cooling overview

Introducing Neptune Liquid Cooling systems

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Neptune Liquid Cooling overview

Neptune Liquid Cooling technology is designed to enhance data center efficiency by using direct liquid cooling for CPUs, memory, and other critical components. This significantly reduces energy consumption and heat, enabling higher performance while lowering operational costs. By efficiently managing temperature, Neptune allows servers to handle heavy workloads in high-density environments while maintaining sustainability goals. The technology integrates with ThinkSystem servers to offer optimal cooling performance for large-scale data operations.



ThinkSystem support for Neptune Liquid Cooling

As of Q4 2024, the following ThinkSystem products support Neptune Liquid Cooling:



[ThinkSystem
SR630 V4 Server](#)



[ThinkSystem
SR780a V3 Server](#)



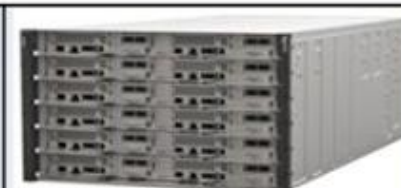
[ThinkSystem
DW612S Neptune
DWC Enclosure](#)



[ThinkSystem Heavy
Duty Full Depth Rack
Cabinets](#)



[ThinkSystem
SD650 Server](#)



[ThinkSystem SD650
V2 Neptune DWC
Server](#)



[ThinkSystem
SD650 V3 Neptune
DWC Server](#)



[ThinkSystem SD650-I
V3 Neptune DWC
Server](#)



[ThinkSystem SD650-N
V2 Neptune DWC Server](#)



[ThinkSystem SD650-
N V3 Neptune DWC
Server](#)



[ThinkSystem SD665
V3 Neptune DWC
Server](#)



[ThinkSystem SD665-
N V3 Neptune DWC
Server](#)



[ThinkSystem
SR630 V3 Server](#)



[ThinkSystem
SR635 V3 Server](#)



[ThinkSystem
SR645 V3 Server](#)



[ThinkSystem
SR650 V3 Server](#)



[ThinkSystem
SR670 V2 Server](#)



[ThinkSystem
SR675 V3 Server](#)