

Reliable Connections for Data Center Cooling



Oetiker's compact, efficient and reliable solutions
ensure optimal performance in Data Center Cooling Systems





Peace of Mind. Our Promise. Our Passion.

Oetiker is the global leader in the design and manufacture of industry-leading connecting solutions for mission critical applications within Passenger Vehicles, Commercial and Industrial Vehicles and numerous Industrial Applications.

With over 80 years of experience, global engineering teams, and 13 manufacturing facilities producing over 2 billion connections annually, Oetiker delivers trusted connecting and assembly solutions tailored to specific customer needs worldwide.

This commitment to excellence provides customers with **Peace of Mind** knowing their critical connections are reliable, durable, and meet the highest industry standards.

For more information on how Oetiker's connecting solutions could add value to your operations, please send an email to:

datacenter.global@oetiker.com.



Oetiker Connecting and Assembly Solutions for Data Center Cooling

Maximize Uptime and Efficiency with Oetiker

Oetiker provides reliable, leak-free connecting solutions for Data Center Cooling Systems, enabling efficient and optimal equipment performance. By offering durable, high-quality clamps, rings, and quick connectors, Oetiker minimizes downtime, reduces maintenance, and ensures long-term system reliability.

Recognizing the critical space constraints within Data Center Server Racks, Oetiker offers compact solutions with a minimal footprint. This allows for efficient packaging of cooling components, supporting higher server density and maximizing valuable Server Rack space.

Experience **Peace of Mind** with Oetiker's robust and dependable connections, knowing your critical cooling systems are operating at peak performance.



Cold Plate Connection



Manifold Connection



CDU Connection



ENGINEERED FOR RELIABILITY

In today's high-density data centers, efficient and reliable cooling is critical for optimal server performance and minimizing costly downtime.

Oetiker provides a comprehensive range of high-quality clamps and rings designed to ensure leak-free, secure connections within cooling systems. Our solutions are engineered to withstand the demanding conditions of data center environments, including high reliability under thermal and pressure cycling, restricted space, and efficient connection assemblies. By choosing Oetiker, you can enhance the reliability and efficiency of your cooling infrastructure, maximizing server performance and minimizing the risk of costly equipment failures.



StepLess® Ear Clamps 167

Stainless steel
6.5 – 120.5 mm

Narrow band: concentrates transmission of clamping force, less weight
360° StepLess®: high radial loads, smooth outer contour



StepLess® Ear Clamps 193

Stainless steel
18.0 – 120.5 mm

360° StepLess®: uniform compression and surface pressure
Closed interlock: high radial loads, smooth outer contour
Security hook: prevents unintended opening during transport



1-Ear Clamps 154 & 251 Cross-welded

Stainless steel
2.9 – 30.00 mm

Compact one-piece clamp: for robust, secure connections, miniature sizes
Clamp ear: fast and simple installation
Pre-shaped insert: effective and powerful all-round seal



Multi Crimp Rings 150 & 250

150
Stainless steel
5.0 – 50.0 mm
Aluminum
24.5 – 120.0 mm
250
Stainless steel
15.0 – 120.5 mm

Full material cross-section over 360°: constant pressure applied uniformly around the circumference
Nominal diameter up to 120 mm: suitable for universal applications, in particular for thermoplastic components
Low installed height: minimum space requirement



ToothLock® Ear Clamps 293

Stainless steel
40.0 – 120.5 mm

360° StepLess®: uniform seal and ease of installation
Highly pressure and expansion resistant
Easy assembly: for enhanced clearance



Reusable Low Profile Clamps 268

Stainless steel
22.5 – 41.0 mm

360° StepLess®: leak-free seal
Novel tensioning hook design: provides fast and reliable high-volume assembly with monitored tools
Curled edges: provides reduced risk of damage to parts being clamped and improved ergonomics during assembly
Reusable: Can be repeatedly opened and re-installed

SPEED UP ASSEMBLY AND ENHANCE FLEXIBILITY

In today's data centers, efficient thermal management is essential. Oetiker offers advanced quick connectors, in metallic and polymeric options, designed to optimize liquid cooling systems. Our solutions ensure fast, tool-free connections, minimize pressure drops, prevent leaks, and maintain reliable cooling for critical systems. With dry-break Quick Connect Disconnect (QCDC) for manifolds and space-efficient polymer quick connectors for cooling plate solutions, Oetiker enhances cooling flexibility and scalability, minimizing down-time and simplifying maintenance. Rely on Oetiker for precision-engineered connections that keep your data centers cool, efficient, and reliable.



DATA CENTER COOLING QUICK CONNECTORS



SMILe® Compact Quick Connectors

Our compact quick connector offers highly space efficient quick connection for thermal management in cooling applications of data centers.

Compact: 50 % less installed height compared to standard spigots or competitors quick connectors

Adaptable: custom engineered for your application including flow diameter, angle, hose interface, etc.

Efficient: maximized thermal management line routing and connections to increase reliability, performance, and value

Automated assembly: developed with quick and easy installation in tight spaces in mind

Proven durability: rigorous testing to global OEM standards and beyond



QCDC Quick Connect Disconnects

Sizes*: 1/4", 3/8", 1/2", 1/8"

Material*: aluminum, stainless steel

Dry-break (non-spill) design: with high flow rate and low pressure drop. Offers non-spill disconnection to achieve high system availability

Fluid compatibility: glycol, refrigerants, oils, di-electrics fluids, etc.

Customizable user interface: threaded, hose barb, push lock, etc.

Poka yoke: avoid misoperation

*sizes, materials and customer interface available on request, lead time may vary from standard configuration

EFFICIENT INSTALLATION, EVERY TIME

Proper installation is crucial for ensuring the reliability and performance of Data Center cooling system connections. Oetiker offers a range of high-quality assembly tools designed to simplify installation and ensure consistent, accurate clamping forces. Our tools are ergonomic, easy to use, and compatible with a wide range of Oetiker clamps and connectors. By using the right tools, you can achieve faster, more efficient installations, reduce the risk of operator error, and ensure the long-term reliability of Data Center cooling system.



DATA CENTER COOLING ASSEMBLY TOOLS



Electronically Controlled Pneumatic Pincers

For high-volume assembly of Ear Clamps and Low Profile Clamps.

- Highly efficient
- Process reliable
- Closure verification
- Ergonomic pistol grip (optional)



Cordless Pincers & Cordless Crimps Pincers

For assembly of Ear Clamps / Multi Crimp Rings (MCR).

- Flexible cordless design
- Process reliable
- Closure verification
- Ergonomic design



SMART Sensor Monitored Assembly Repair Tools

For assembly of Ear Clamps.

- Sensor monitoring of three forces
- Reduces necessary grip force
- Force indication with light and vibration
- Quick and easy assembly



Hand Tools

Hand Installation Pincers (HIP)

For assembly of Ear Clamps.

- High closing forces
- Require less hand strength
- Superior quality design
- Cover a wide range of Ear Clamps

Hand Clamp Cutters (HCC)

For disassembly of Ear Clamps.

- Specially designed to remove Oetiker Ear Clamps up to 7.0 mm wide × 0.6 mm band thickness to 9.0 mm wide × 0.8 mm band thickness
- "No-Crimp™" Jaws, for cutting only
- Protective hand grip
- The easiest and safest method of ear clamp removal

360° Solution Approach

Driving innovation



Oetiker helps customers drive innovation through all phases of development by utilizing our 360° solution approach. Pioneering reliable fastening components for over 80 years, we design, test and deliver high quality connecting and assembly solutions that are simpler, smarter and stronger than ever before.



Learn more

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