



Edge Cooling Solutions

from the Mission Critical Experts

With over a century of thermal innovation powering edge-ready solutions — our products are engineered in the U.S. for unmatched reliability, efficiency, and sustainability. We are trusted by industry leaders, including top global hyperscale and colocation data centers.

Edge Computing Challenges

Located near end users, edge data centers often operate in spaces not designed for IT workloads.



They support critical applications, produce constant heat, and require specialized cooling beyond traditional comfort systems.



Rising AI inference workloads demand agile, precise thermal management to handle increasing compute density.



Limited on-site support makes remote monitoring, management, and diagnostics essential.



Airedale by Modine Solutions

- Compact, scalable cooling systems tailored for edge deployments, optimized for space and environmental constraints.
- Precision cooling with built-in redundancy ensures reliability for mission-critical operations.
- Hybrid solutions balance high and variable heat densities, maximizing efficiency across AI and traditional workloads.
- Multi-layer remote management enables real-time control, from device-level access to site automation and centralized oversight.

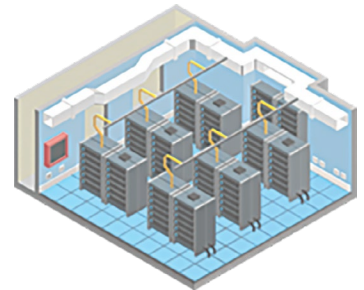
Smart Cooling Solutions for your Agile Edge



Tower Cabinets
(Access Edge)



Modular / Containerized
(Aggregate Edge)



**Small Metro/
Enterprise Edge**

SITE CAPACITY

10kW

100kW

500kW



EdgeCab™
Cabinet Cooler

4-6 Ton
Exterior Wall-Hung
Low GWP R454b
High Efficiency
Integrated Free Cooling
Intelligent Remote Control



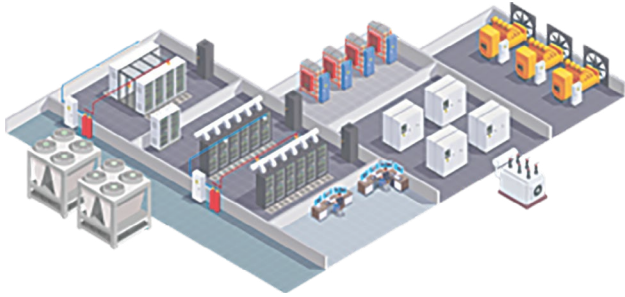
EdgeRow™
InRow Cooling

30-75kW
DX or CW
Low GWP R454b
High Efficiency

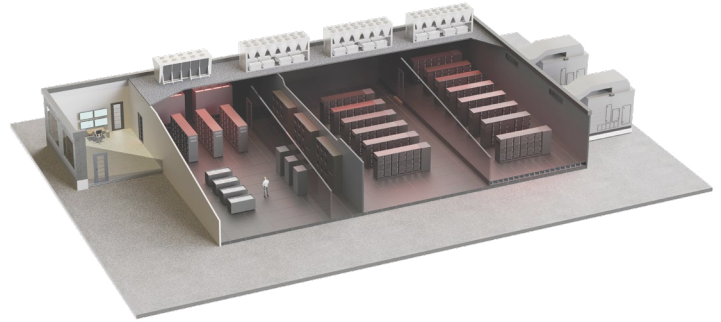


EdgeDX™
DX-Split CRAC

25-105kW
Low GWP R454b
Flexible Air Flows
Compact Footprint
High Efficiency



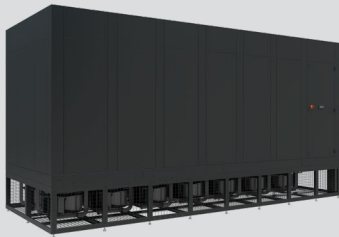
Regional Edge



High Density Applications

1MW

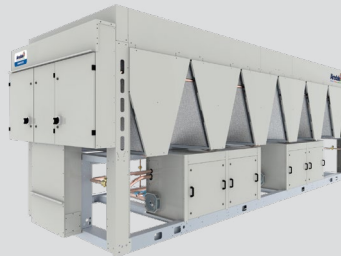
5MW



EdgeAire™

Chilled Water CRAH

50-300kW
Flexible Air Flows
High Efficiency
Compact Footprint
Intelligent Control



EdgeChill™

Free Cooling Chiller

250-1000kW
Low GWP R454b
High Efficiency
Intelligent Control
Integrated Free Cooling



EdgeRak™

Rear Door HX

Agnostic Rack
Highly Adaptive to Heat Load
High Efficiency
Intelligent Control



EdgeDX™

The most compact and flexible DX-CRAC, runs on Low GWP Refrigerant

Best-in-Class Efficiency

- Net Sensible COP up to 3.4
- EEV as standard to optimize refrigeration cycle for better efficiency
- EC Plug fan further improves matching of power with workload

Intelligent Controls

- On unit intelligent load match through compressor and EEV control
- Site-wide load sensing and balancing
- Event log and diagnostics for predictive maintenance, and seamless integration into BMS/DCIM

Environmental Leadership & Safety

- First Low GWP Refrigerant CRAC for North America
- Certified for UL60335-2-40 safety standard with A2L refrigerant

Most Compact Design

- 29.5" depth provides 5"-10" extra critical maintenance corridor space
- 15% to 20% narrower than competitors
- 33%-53% lighter weight than major competitors, easy installation, flexible layout

Most Flexible Air Flow Direction

- Works with or without raised floor
- Up or down supply air
- Return with or without ductwork



EdgeCab™

First wall hung that meets DOE's efficiency requirement for CRAC

Best-in-Class Efficiency

- Certified to meet DOE's CRAC standard of Net Sensible COP above 2.58
- Built-in free cooling

Intelligent Controls

- Comprehensive event log and diagnostics for predictive maintenance
- Seamless integration into remote control system with multiple protocols ensures reliable unmanned operation

Environmental Leadership & Safety

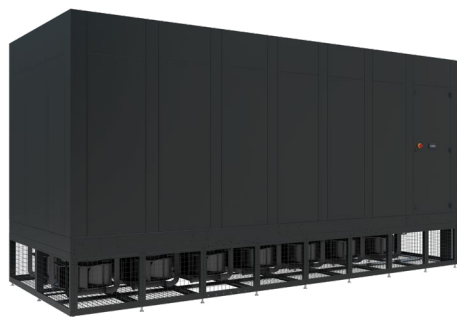
- Low GWP refrigerant
- Certified for UL60335-2-40 safety standard with A2L refrigerant

Ruggedized & Reliable Design

- Rugged enclosure to handle tough weather conditions outdoor
- Anti-vandalism enclosure and internal sensors
- UPS-backed 48VDC power for blower ensures free cooling in AC power loss

Easy & Flexible Installation

- Works with most standard wall cut out layouts
- Up or down supply air
- Exterior top hot air discharge to minimize impact to surroundings



EdgeAire™

Compact CRAH tailored for edge data facilities' required agility

Best-in-Class Efficiency

- Slab coils for optimal air flow to achieve best efficiency
- EC Plug fan further improves matching of power with workload
- Water side Delta T and approach optimized for high density IT workload

Intelligent Controls

- Multiple PID control logic based on customer needs
- Site-wide load sensing and capacity matching through Optimizer
- Event log and diagnostics for predictive maintenance
- Seamless integration into BMS/DCIM through flexible choice of communication protocols

Uptime & Durability

- EPOXY coated coil for longevity
- On-coil-surface air filter installation for simplest service
- Dual power source auto switch-over option ensures availability
- Internal backup power for controllers

Compact & Flexible

- Left-hand or right-hand liquid piping connections
- Installation with or without raised floor; return with or without ductwork
- 35"-41" depth, providing ~6" extra critical maintenance corridor space
- Up to 30% narrower footprint for flexible data floor layout
- 30%-50% lighter than major competitors, easier to install, less structure load



EdgeChill™

Chiller optimized for efficient and quiet cooling to edge data facilities

Best-in-Class Efficiency

- Up to 9 stages of compressors operation to achieve best-in-class partial load efficiency
- EEV for efficient refrigeration cycles
- EC plug fan improves matching of power with workload
- Optimized for maximum free cooling

Intelligent Controls

- Continuous compressor, EEV and head pressure control to ensure best performance at all time and quick response to local work loads
- Site-wide load sensing and balancing through Optimizer
- Event log and diagnostics for predictive maintenance
- Seamless integration into BMS/DCIM through flexible choice of communication protocols

Environmental Leadership & Safety

- Low GWP Refrigerant
- Minimizes water use in system
- Certified for UL60335-2-40 safety standard
- Quiet operation with <65db sound pressure at 10m and extra quiet version further reduce noise by 5-6db

Built-in Redundancy & Durability

- Multiple compressors working in groups and sequence to ensure backup
- Up to 3 independent circuits and standby pumps to provide in-unit redundancy
- Multiple chillers controlled through intelligent sequencer to provide system level redundancy
- Epoxy coated MCHX for best performance and longevity

Compact for Agile Deployment

- 38% smaller coil footprint
- Up to 20% lighter weight than competitors

Why work with Airedale by Modine



We equip sales reps and distributors with everything they need to sell smarter, faster, and with confidence in the growing edge cooling market.

Proven, Competitive Products

Leverage our trusted, innovative solutions to deliver reliable performance and stand out in technical sales conversations.

Frictionless Sales Process

Speed up quoting, ordering, and delivery with user-friendly tools, short lead times, and strong U.S.-based manufacturing.

Sales-Ready Support

Access on-demand marketing assets, expert guidance, and practical training to boost confidence and close rates.

Responsive, Ongoing Partnership

Count on us for fast technical support, streamlined commissioning, and longterm service success—helping you strengthen customer loyalty and grow repeat business.



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NADC09-103

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