



TELECOM COOLING SOLUTIONS

24×7×365 Intelligent Cooling.
Maximum Network Uptime.



Your **Trusted Partner** for Industrial Cooling Need



Telecommunications



Smart Cities &
Urban Infrastructure



IT & Data Centers



Automation & Mobility



Real Estate &
Construction



Oil & Gas



Transportation
& Railways



Hospitality & Healthcare



Government & Defence

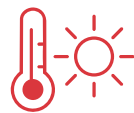
Byteworx Cooling **Advantage**

Reliable. Efficient. Heavy-Duty Cooling

Byteworx delivers intelligent cooling solutions for telecom sites, edge infrastructure, data centers, and critical networks—maximizing uptime, reducing costs, and extending equipment life through reliable and innovative technology.



Energy Efficient



Tropical Ready



Centralised Control



Lowest OPEX

Tailor-made Cooling Solutions

Customised cooling solutions built for demanding telecom environments

Research & Analysis

We assess your site and cooling requirements to identify the right solution for your operational needs.

Design & Manufacturing

We develop the system design and 3D model based on site requirements, capacity and application needs.

Installation & Testing

We install the system, test its performance, and ensure it operates reliably under actual site conditions.

Service & Support

We provide ongoing technical support and maintenance to ensure reliable performance and long-term operation.

Cooling Dynamics For Digital Growth



As digital infrastructure expands to support 5G/6G, edge computing, and high-density workloads, effective cooling dynamics have become a cornerstone of sustainable digital growth. Left unmanaged, the immense heat generated by mission-critical telecom electronics can degrade performance, shorten equipment life, and cause costly service interruptions. Advanced thermal management ensures that hardware operates reliably even in extreme outdoor or tropical conditions, bridging the gap between escalating compute densities and energy efficiency while maximizing overall network uptime.



Product Matrix

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Air Conditioner – BTS Shelter

The Telecom Cooling Air Conditioner for BTS Shelters is a pure DC 48V-powered cooling solution engineered for high SEER efficiency. Designed for extremely hot regions such as India, Southeast Asia, and Africa, it is ideal for hybrid power systems, helping reduce operational costs and achieve lower OPEX. Available in split/wall, split/ceiling, and package configurations, with capacities ranging from 4000W to 5000W.



Features

- Pure DC 48V power driven
- Highest SEER efficiency rating
- Widely deployed in extremely hot areas – India, Southeast Asia, Africa
- Suits hybrid power system cooling scenarios
- Cuts operational cost and meets lower OPEX requirements
- Available in split/wall type, split/ceiling type, and package type
- Capacity range: 4000W – 5000W

Power Supply	P/N	Model No.	Capacity	Dimensions W/O Flanges (mm)	Type
48VDC	721010	ASZB-040-000-010	4000W	1000*315*215 765*530*280	Split/Wall type
	721012	ASZB-043-000-012	4350W	1200*220*500 765*530*280	Split/Wall type
	721011	ASZB-050-000-011	5000W	1000*315*280 765*530*280	Split/Ceiling type
	751010	AWZB-040-000-010	4000W	880*660*450	Package type

Applications & Deployments



BTS shelter cooling in telecom networks



Extremely hot climate deployments – India, Southeast Asia, Africa



Remote and off-grid telecom site cooling



Hybrid power system environments

Air Conditioner – ICT Rack

The Telecom Cooling Air Conditioner for ICT Rack is a 230VAC cooling solution with a built-in inverter for compressor speed regulation and high SEER efficiency. Advanced humidity control, proven in humid countries like Malaysia, Indonesia, and Singapore, prevents condensation on cabinet walls. Ideal for edge computing cabinets, it is available in split and package types at 3500W capacity.

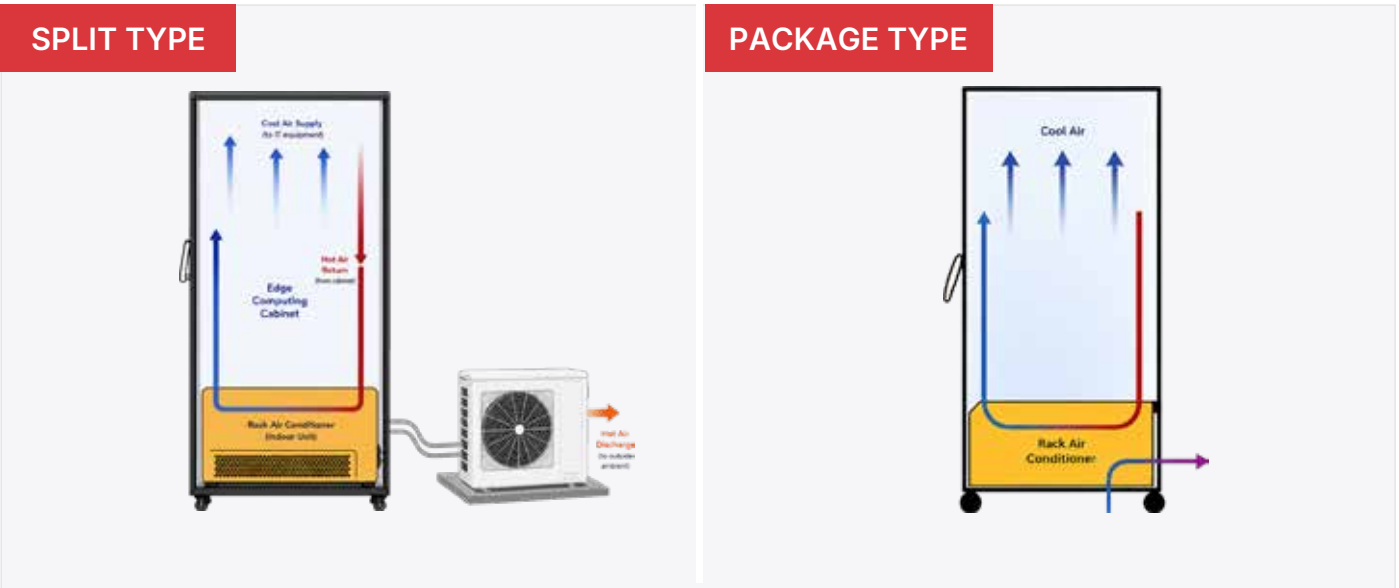


Features

- Power input: 230VAC, with built-in inverter for compressor speed regulation, achieving high SEER efficiency.
- Advanced humidity control logic, proven with customers in humid countries like Malaysia, Indonesia, and Singapore.
- Ideal for edge computing cabinet applications.
- Precise temperature and humidity control eliminates water condensation on the cabinet wall.
- Available in both package and split type configurations.



Power Supply	P/N	Model No.	Capacity	Dimensions W/O Flanges (mm)	Type
230VAC	762010	ASZB-035-000-010	3500W	438 × 222 × 740	Split type
	762310	ASZB-035-000-0310	3500W	438 × 222 × 780	Split type
	762310	ASZB-035-000-0310	3500W	438 × 222 × 940	Package type



Applications & Deployments

- ☒ ICT rack cooling in telecom environments
- ☒ Edge computing cabinet applications
- ☒ High-humidity environment deployments
- ☒ Data centre and server room cabinet cooling

DC Air Conditioner Cabinet

The Telecom Cooling DC Air Conditioner Cabinet is a 48VDC precision cooling solution using R134A or R1234yf refrigerant, engineered for T3 conditions up to 55°C. It supports automatic stop/recovery across the 42–60VDC range, with smart controls, alarm output, temperature management, and MODBUS RTU communication. Available from 300W to 5000W, with applicable CE and UL certifications.



Features

- Rated power supply range: 42~60VDC. The unit automatically stops and resumes operation when the power supply falls outside or returns within the rated range.
- Use R134a or R1234yf refrigerant as cooling gas for T3 (ambient up to 55 degree) environmental conditions.
- Smart control strategy with alarm output, temperature control & communication through MODBUS RTU protocol.

Advanced DC Cooling
for Telecom

Applications & Deployments

☒ DC-powered telecom cabinet cooling

☒ BTS and outdoor cabinet thermal management

☒ Hybrid power system environments

☒ Remote and off-grid telecom site deployments

Power Supply	P/N	Model No.	Capacity	Dimensions W/O Flanges (mm)	Type
48VDC	711010	ASZB-003-000-010	300W	400*240*150	CE
	711011	ACZB-004-000-011	400W	400*375*135	CE
	711020	ACZB-006-000-020	600W	546*315*175	CE
	711021	ACZB-005-000-020	500W	546*315*175	CE
	711022	ACZB-008-000-022	800W	546*315*175	CE
	711030	ACZB-010-000-030	1000W	793*381*175	CE
	711041	ACZB-015-000-041	1500W	793*381*175	CE
	711040	ACZB-020-000-040	2000W	793*381*175	CE
	711042	ACZB-025-000-042	2500W	793*381*175	/
	711045	ACZB-015-000-045	1500W	1112*412*175	UL
	711046	ACZB-020-000-046	2000W	1112*412*175	UL
	711047	ACZB-025-000-047	2500W	1112*412*175	UL
	711050	ACZB-030-000-050	3000W	1150*485*225	/
	711071	ACZB-040-000-071	4000W	1300*600*300	CE
	711070	ACZB-050-000-070	5000W	1300*600*300	CE
	711091	ACZB-015-000-091	1500W	745*445*200	CE
	711092	ACZB-020-000-092	2000W	745*445*200	CE

AC Air Conditioner Cabinet

The Telecom Cooling AC Air Conditioner Cabinet is a 230VAC-powered mono-block solution using eco-friendly R134a or R1234yf refrigerant, engineered for T3 conditions up to 55°C. Its compact plug-and-play design with flange enables easy through-wall or cabinet-door mounting. Closed-loop cooling protects equipment with an adjustable temperature set point of 20–40°C. CE and UL certified across applicable models, with capacities from 600W to 7000W.



Features

- Uses environmentally friendly refrigerant R134a or R1234yf.
- Compact product line is a mono-block unit with a plug-and-play feature for immediate setup, with flange design for convenient through-wall or cabinet-door mounting.
- Closed-loop cooling protects equipment from the ambient environment, with adjustable indoor temperature set point from 20–40°C. Ventilation is not recommended as the system offers high efficiency.
- Adaptable for T3 conditions up to 55°C in tropical areas.

Applications & Deployments

☒ AC-powered telecom cabinet cooling

☒ Outdoor and indoor telecom enclosure thermal management

☒ Cabinet deployments in hot tropical environments

☒ Edge computing and network equipment cabinet cooling

Power Supply	P/N	Model No.	Capacity	Dimensions W/O Flanges (mm)	Type
230VAC	732010	AIYB-006-000-010	600W	546*315*175	CE
	732011	AIYB-006-000-011	600W	546*315*175	CE
	732020	AIYB-010-000-020	1000W	745*445*200	CE
	732021	AIYB-010-000-021	1000W	745*445*200	CE
	732030	AIYB-020-000-030	2000W	745*445*200	CE
	732031	AIYB-015-000-031	1500W	745*445*200	CE
	732032	AIYB-020-000-032	2000W	745*445*200	CE
	732033	AIYB-015-000-033	1500W	745*445*200	CE
	732120	AIYB-020-000-120	2000W	745*445*200	UL
	732121	AIYB-015-000-121	1500W	745*445*200	UL
	732122	AIYB-025-000-122	2500W	745*445*200	UL
	732040	AIYB-030-000-040	3000W	1150*485*225	CE
	732050	AIYB-050-000-050	5000W	1300*600*300	/
	732051	AIYB-040-000-051	4000W	1300*600*300	/
	732110	AIYC-075-000-110	7000W	1400*650*400	/
	732311	AIYC-060-000-311	6000W	1150*485*435T	/

Combo Unit Cabinet

The Telecom Cooling Combo Unit Cabinet combines compressor-based active cooling with passive HEX/ventilation cooling for an economical, safe, and long-lasting solution. Emergency HEX or DC ventilation cooling reduces compressor runtime and energy consumption by up to 35%, especially at night or under low heat loads. Available with 48VDC, 230VAC, or combined 48VDC & 230VAC power configurations.



Features

- Combined active and passive cooling (HEX or ventilation) provides an economical, safe system with extended lifetime. Emergency HEX/ventilation cooling with DC power can operate during night or low heat dissipation, reducing compressor operation and energy consumption by up to 35%.
- Active compressor cooling supports 48VDC or 230VAC power supply, while 50/60Hz passive cooling can be realized through heat pipes or ventilation.

Smarter Cooling,
Integrated Performance

Applications & Deployments

- ☒ Energy-efficient telecom cabinet cooling
- ☒ BTS shelters and outdoor telecom enclosures
- ☒ Sites requiring both active and passive cooling capability
- ☒ Environments where energy consumption reduction is a priority

Power Supply	P/N	Model No.	Capacity	Dimensions W/O Flanges (mm)
48VDC	311010	CHZB-010-000-010	1000W & 50W/K	793*381*250
	311011	CHZB-010-000-011	1000W & 80W/K	793*381*250
	311020	CHZB-020-000-020	2000W & 80W/K	1112*412*250
	311021	CHZB-020-000-021	2000W & 80W/K	1112*412*250 (no flange)
	311030	CHZB-030-000-030	3000W & 120W/K	1150*485*300
	321020	CVZB-010-000-020	1000W	1000*412*275
	321021	CVZB-020-000-021	2000W	1000*412*275
	321022	CVZB-015-000-022	1500W	1000*412*275
230VAC & 48VDC	316010	CHUB-010-000-010	1000W & 50W/K	793*381*250
	316042	CHUB-020-000-042	2000W & 80W/K	745*445*250
	316041	CHUB-015-010-041	1500W & 80W/K	745*445*250
	316040	CHUB-015-010-040	1500W & 80W/K	745*445*250
	316030	CHUB-030-000-030	3000W & 120W/K	1150*485*300
	316031	CHUB-030-015-031	3000W & 110W/K	1150*485*300
	326010	CVUB-035-000-010	3500W	1350*420*325
	326020	CVUB-015-000-020	1500W	1000*412*275
	326021	CVUB-020-000-021	2000W	1000*412*275

Heat Exchanger Cabinet

The Telecom Cooling Heat Exchanger Cabinet is a reliable, efficient, and cost-effective passive cooling solution that keeps the cabinet inside climate clean, dry, and in a comfortable condition. IP55 protected and requiring less maintenance and lower operational cost. the Heat Exchanger Cabinet is powered by 48VDC and available across a capacity range from 60W/K to 260W/K across seven models.



Features

- Reliable, efficient, and cost-effective passive cooling solution
- Cabinet inside climate kept clean, dry, and comfortable
- IP55 protection
- Less maintenance and lower operational cost
- Power supply: 48VDC
- Capacity range: 60W/K – 260W/K

Applications & Deployments

☒ Passive cooling for telecom outdoor cabinets

☒ BTS shelter supplementary cooling

☒ Low heat load cabinet environments

☒ Cost-sensitive deployments requiring minimal maintenance

Power Supply	P/N	Model No.	Capacity	Dimensions W/O Flanges (mm)
48VDC	511200	HCZA-060-000-200	60W/K	545*455*240
	511030	HCZA-120-000-030	120W/K	900*412*200
	511031	HCZA-150-000-031	150W/K	900*412*200
	511033	HCZA-100-000-033	100W/K	900*412*200
	511040	HCZA-180-000-040	180W/K	1245*518*251
	511041	HCZA-150-000-041	150W/K	1245*518*251
	511100	HCZA-260-000-100	260W/K	1360*620*240

Reliable, Efficient and Cost-Effective

Heat Exchanger Core

The Heat Exchanger Core comprises standalone plate heat exchangers for airflows up to 10,000 m³/h (60,000 CFM), delivering high efficiency in compliance with European Ecodesign 2016 and 2018 standards. Available in Cross Flow and Counter Flow configurations with multiple size options, it features a low-pressure-drop sheet profile, aluminum, acrylic-protected aluminum, or stainless-steel construction, and low installation, operating, and maintenance costs.



Features

- Plate heat exchangers for air flows up to 10,000 m³/h (60,000 CFM)
- Conforms to European Ecodesign 2016 and 2018 standards
- Low pressure drop sheet profile
- Constructed in aluminum, acrylic protected aluminum, or stainless steel
- Cross flow type – mainly for ventilation, heat recovery
- Counter flow type – mainly for cabinet level cooling applications
- Low installation and running costs

Applications & Deployments

☒ Swimming pool, hospital, and industry ventilation

☒ Data centre non-contact evaporative cooling

☒ Pre-heating and pre-cooling in ai handling units

☒ Air replacement with recovery

☒ Heat recovery in very low energy consumption houses

☒ Heatsink into shelters and cabinets of the telecom industry

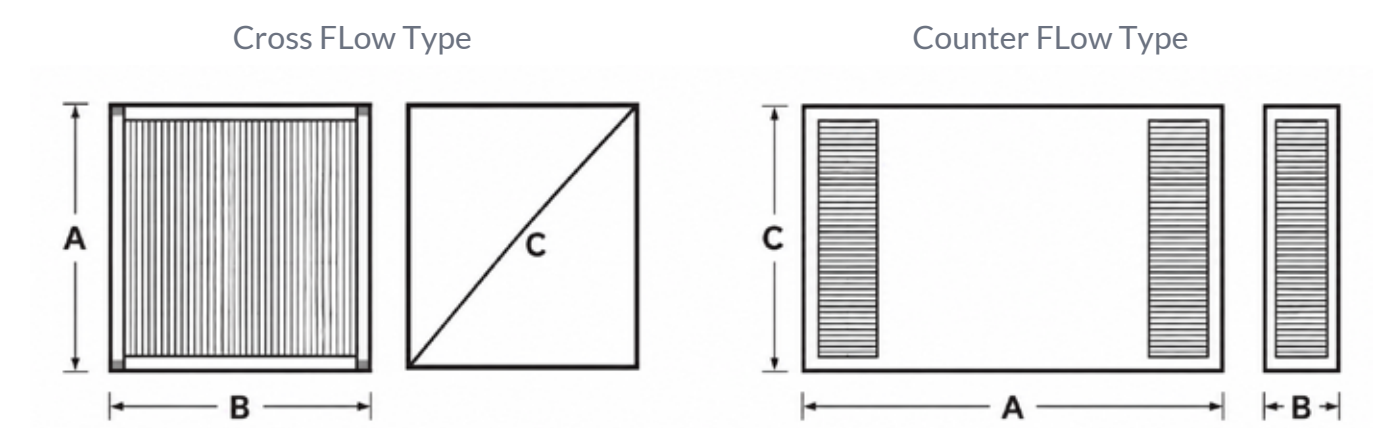
Cross Flow Type

Model No.	A (mm)	B (mm)	C (45 angle mm)	Plate distance (mm)
200	200	max.600	282	2.0/2.5/3.0
300	300	max.800	424	2.0/2.5/3.0/4.0
400	400	max.800	565	3.0/4.0/5.0/6.0
600	600	max.1000	850	3.0/4.0/5.0/6.0

Counter Flow Type

Model No.	A (mm)	B (mm)	C (45 angle mm)	Plate distance (mm)
300	300	100/140	200-800	2.0/2.5/3.0
400	400	100/140	200-800	2.0/2.5/3.0/4.0
460	460	190	200-800	3.0/4.0/5.0/6.0
500	500	140	200-800	3.0/4.0/5.0/6.0
600	600t	140/190/235	200-800	3.0/4.0/5.0/6.0

For further option please contact DBS



Industrial Cabinet Cooling - Air Conditioner

The Industrial Cabinet Cooling Air Conditioner is a heavy-duty cooling solution designed for industrial and mining enterprises requiring indoor equipment cooling, heat dissipation, and effective isolation from temperature changes, humidity, salt spray, and high corrosion application scenarios. The internal refrigeration devices and pipelines are all protected by high anti-corrosion electrophoresis or optional nano-specialised coating — providing anti-corrosion and self-cleaning function that greatly improves service life.



Features

- For various industrial and mining enterprises, indoor equipment cooling and heat dissipation application, effective isolation: temperature changes, humidity changes, salt spray changes, high corrosion application scenarios, escort for high-value equipment.
- The internal refrigeration devices and pipelines are all protected by high anti-corrosion electrophoresis or optional nano-specialized coating, anti-corrosion and self-cleaning function, which greatly improves the service life.
- Absolute dehumidification and relative humidity control follow the trend intelligently, effectively controlling the relative humidity in the cabinet.
- The inner/outer interface meets IP44+ protection level. Outdoor side dustproof net plug-in design, easy to replace.
- It has the functions, self-starting when incoming calls, and provides a variety of alarm and protection functions. It adopts RS485 interface and passes international standards.
- The MODBUS RTU protocol realizes the remote monitoring function of upper computer, and the alarm dry contact supports DC220V, AC250V.
- R134a or R1234yf environmentally friendly refrigerant

	Power Supply	P/N	Model No.	Capacity	Dimentions W/O Flanges (mm)
For General Cabinet	230VAC	732018	AIYB-006-000-018	600W	546*315*175
	230VAC	732078	AIYB-010-000-078	1000W	793*381*175
	230VAC	732039	AIYB-015-000-039	1500W	1112*412*175
	230VAC	732038	AIYB-020-000-038	2000W	1112*412*175
	230VAC	732049	AIYB-025-000-049	2500W	1150*480*225
	230VAC	732048	AIYB-030-000-048	3000W	1150*480*225
For offshor cabinet C4 C5 corrosion resistant level	230VAC	732210	AIYB-020-010-210	2000W	950*400*280
	230VAC	732220	AIYB-015-010-210	1500W	790*490*200
For food & corrosion application	230VAC	722010	ASYC-100-020-010	1000W	1500*600*300 924*900*320
For super-precision temperature control in manufacturing process	230VAC	732330	AIYB-020-006-330	2000W	1240*618*586
	380VAC	735320	AIVC-100-045-320	10000W	/
Others	380VAC	735020	AIVB-050-000-020	5000W	1300*500*300
	380VAC	735030	AIVB-010-000-030	1000W	421*500*472
	380VAC	735040	AIVB-007-000-040	700W	423*500*372
	380VAC	735060	AIVB-050-000-060	5000W	1330*600*300



Automotive



Infrastructure



Data Centers



EV Charging



Food & Beverage



Manufacturing



Marine & Ports



Minings



Oil & Gas



Power



Pulp & Paper



Renewables



Transportation



Water & Wastewater

ODC (Outdoor Cabinets)

At Byteworx | Custom Wraps, every ODC is engineered and configured to the deployment site — enclosure size, mounting type, cooling method, power backup and cable entry are built around what the project actually needs, not a fixed catalogue spec. Our cabinets combine weatherproof structural integrity, integrated thermal management, secure equipment housing and flexible power configurations into a single field-ready enclosure.



Features

- IP55 rated outdoor protection (IEC 60529 compliant) — sealed against dust, water and harsh weather so equipment stays safe year-round
- Compact enclosure, typically around 626 x 375 x 650 mm (H x W x D) in aluminium or steel, with 5U to 6U of 19-inch rack space — sized up or down to your equipment load
- Fan-based thermal management (2 x 190 CFM DC fans as standard), with air-conditioned cooling available for higher heat-load deployments
- Heavy-duty 2- or 3-point locking with an in-built, flush-fitted padlock — built to deter tampering in unmanned field locations
- Outdoor-grade RAL 7035 matt finish with 80–100 micron PP coating — built to withstand India's coastal, high-humidity and high-temperature environments
- Integrated lithium-ion battery backup (typically 48V/15Ah, ~720Wh) — compact, rack-mountable and sized to the backup duration your site requires
- Optional redundant, IP67-rated power modules (up to 500W each) with wide input voltage tolerance — built for unstable grid power in remote and rural sites
- Built-in fibre management support (up to 24-core FMS as standard) for clean, protected fibre termination
- Customisable cable gland plate (typically 4 to 6 glands) — size and count adapted to each site's cabling
- Flexible mounting — floor, wall or pole-mount
- DC and AC power system compatibility

Applications & Deployments

- | | |
|---|---|
| ☒ Telecom, Solar Energy, Power & Industrial Automation | ☒ BTS shelter and outdoor telecom equipment housing |
| ☒ 5G small cell and micro-cell outdoor deployments | ☒ Fiber aggregation and distribution points in outdoor environments |
| ☒ Remote and off-grid telecom site power and equipment housing | ☒ Smart city infrastructure nodes |
| ☒ Highway and road-side telecom infrastructure | ☒ Urban rooftop and pole-mounted telecom equipment housing |
| ☒ BharatNet and government broadband last-mile outdoor infrastructure | ☒ Coastal and high-humidity environment telecom installations |
| ☒ Industrial and utility outdoor network deployments | |

Ruggedised, weatherproof outdoor telecom enclosure — IP55/IP65, integrated power & cooling.

OEM Tailored Solutions

At BYTEWORX, we partner with OEMs to transform application-specific requirements into reliable, production-ready solutions. From product design and tooling to manufacturing and validation, our capabilities are tailored to meet your technical, quality, regulatory and commercial objectives.

OEM Engineering Principles



Compliance & Standards

Industry standards, regulatory requirements and customer specifications



Engineering & Technology

Engineering built on proven technologies, validated methods & licensed tools



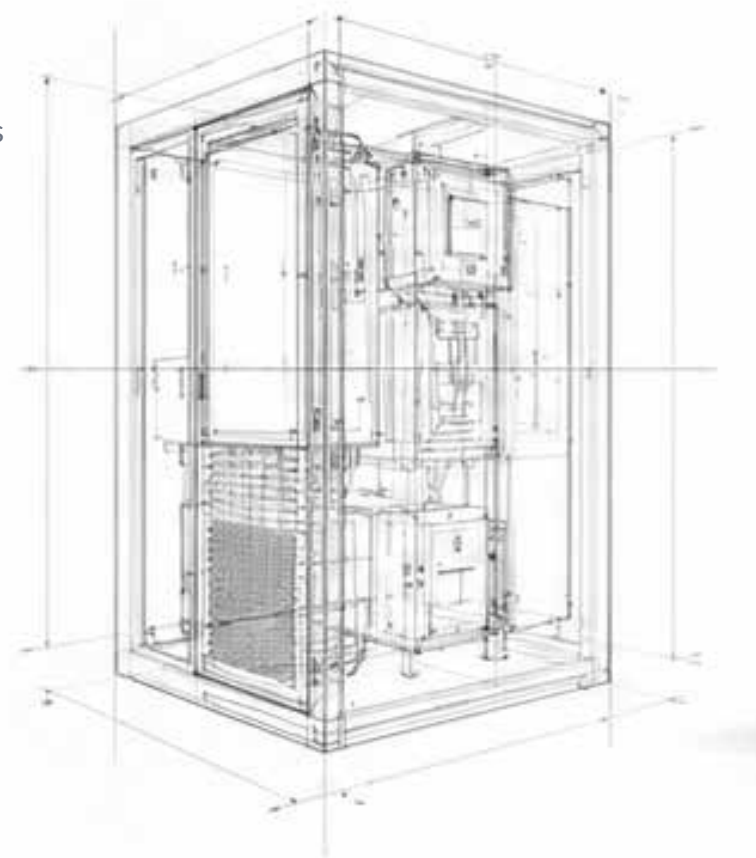
IP & Confidentiality

Customer designs, data & IP handled with strict confidentiality.



Quality & Reliability

Quality built into design, manufacturing & validation for lasting reliability.



Design & Manufacturing Capabilities

We support OEMs across the complete product journey—from product design and tooling to machinery development and manufacturing, delivering solutions tailored to specific application and production requirements.

PRODUCT DESIGN — TOOLING & MACHINE DESIGN — MANUFACTURING — DEPLOYMENT

Global Cooling Deployments

Proven engineering expertise, demonstrated through successful case studies delivered across global markets.



Nuclear Industry
Water-cooled Aircon



Chillers For
Medical Device



Aircon For Energy Storage
Battery Cabinet



Precision Aircon
For Apple



In-Row Aircon For
Germany Customer



Thailand Cabine
Project



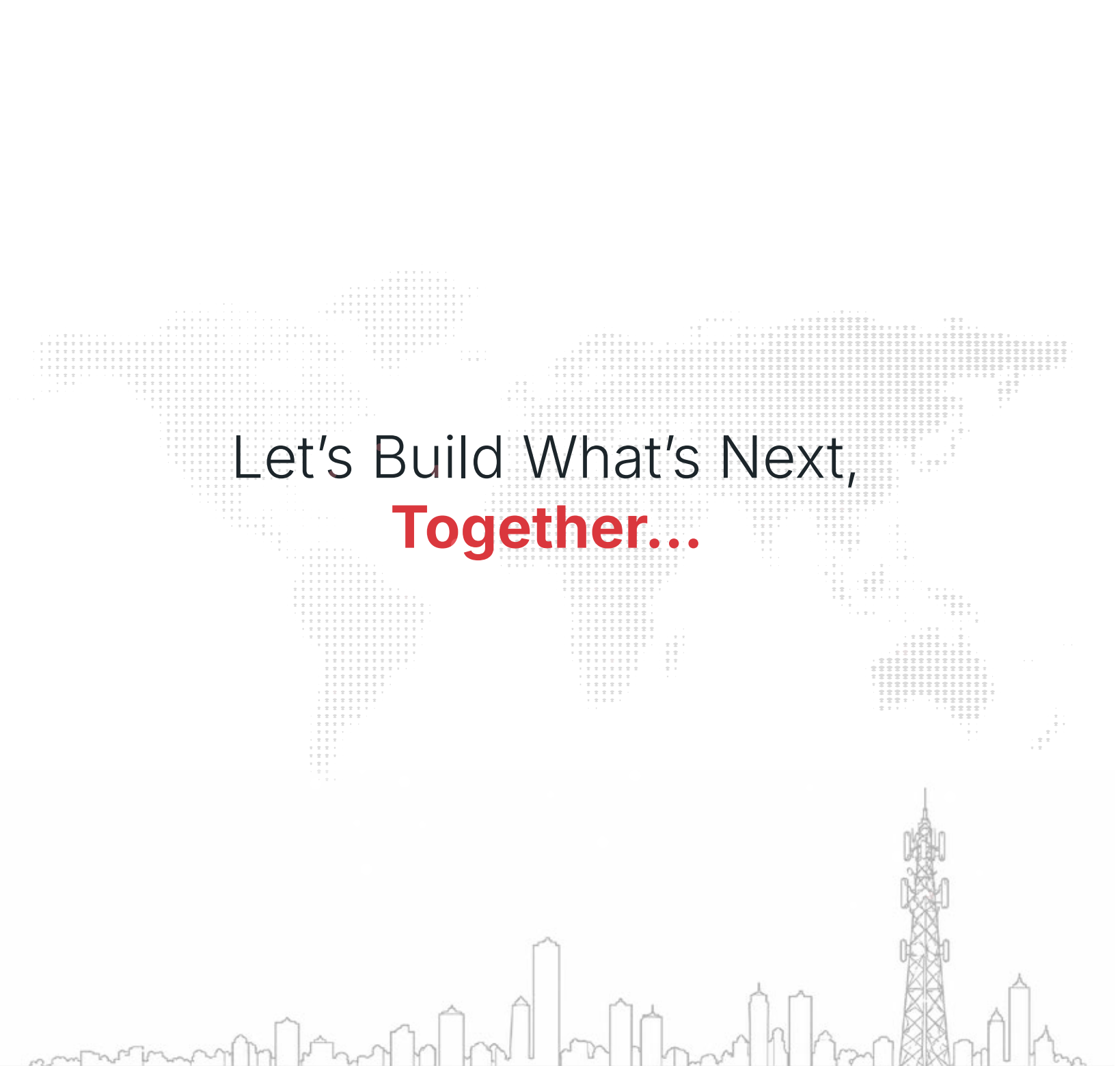
Energy Storage Cabinets
In North America



Nissin Energy Inverter
Cabinet Cooling



Southern Power Grid
Cooling



Let's Build What's Next,
Together...



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Connectivity, Simplified

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