SRC SERIES

PRECISION AIR CONDITIONER

Intelligent thermal management for critical equipment rooms

pment Rooms



ct Features:

RELIABLE COOLING • HIGH SENSIBLE PERFORMANCE • SMARTER OPERATIONS

When equipment runs continuously, cooling must be engineered for continuity. The HYUN ENERGY SRC Series is positioned for technology rooms where dependable temperature management, equipment protection and operating efficiency matter every day.

Designed for: Data centres • Server rooms • UPS and electrical rooms • Telecom facilities • Banking and ATM rooms • Industrial control rooms

Smarter Power. Greener Planet.

www.hyunenergy.in

01 | WHY PRECISION COOLING?

Standard comfort air-conditioning is designed primarily for people and intermittent occupancy. Critical equipment rooms have a different duty: electronic equipment can generate concentrated sensible heat and may operate around the clock. A precision cooling solution is selected to manage that heat load with controlled airflow, stable room conditions and continuous-operation features.

EQUIPMENT-FOCUSED COOLING

Designed around the heat generated by servers, network devices, UPS systems, drives and control panels—not simply room occupancy.

CONTINUOUS DUTY

Supports critical rooms that require cooling through nights, weekends and seasonal changes, subject to correct sizing and maintenance.

CONTROL & VISIBILITY

Controller functions, alarms and compatible remote monitoring help facility teams identify abnormal conditions and respond sooner.

What is sensible cooling?

Sensible cooling removes heat that raises air temperature. In equipment rooms, much of the load is often sensible heat from electrical and electronic equipment. A high sensible heat ratio (SHR) design directs a greater share of the unit’s cooling capacity toward this temperature-raising heat, rather than unnecessary moisture removal.

Why airflow matters

Well-directed, adequate airflow helps carry heat away from equipment inlets and reduce hot spots. Air distribution should be considered alongside rack layout, equipment orientation, cable openings, return-air paths and the room’s total heat load.

The outcome for the facility

- More stable thermal conditions for sensitive electronic equipment.
- Reduced risk of heat-related alarms, performance throttling and unplanned downtime.
- Cooling capacity aligned more closely to the actual equipment heat load.
- A planned approach to redundancy, monitoring and maintenance.

02 | SRC SERIES — PRODUCT FEATURES

The SRC platform combines equipment-room cooling hardware with control and monitoring functions. The exact feature set depends on the selected model and ordered options.

FEATURE	OPERATIONAL VALUE
High sensible cooling design	Designed for equipment heat loads, with a high-SHR coil concept intended to focus cooling on sensible heat.
High-airflow delivery	Airflow-focused design helps distribute cooling to equipment zones. Final airflow and throw must be checked against the room layout.
EC fan technology	Electronically commutated fan technology can modulate airflow efficiently and support lower fan energy at suitable operating points.
Efficient compressor system	Efficient compressor design supports dependable cooling and helps manage energy use across operating conditions.
Advanced controller	Controller-based operation supports temperature settings, system status, operating logic and alarm indication.
Multi-unit sequencing	Where supported and configured, compatible units can be sequenced to share operating hours and provide standby support.
Remote monitoring interface	Compatible communication options can provide remote visibility of selected operating parameters and alarms.
High-ambient suitability	The platform is intended for demanding ambient conditions; the allowable outdoor temperature is model-specific and must be verified.
Service-friendly construction	Accessible components and diagnostic functions can help simplify inspection, troubleshooting and routine maintenance.
Durable metallic construction	Metallic cabinet construction is intended for equipment-room and commercial/industrial installation environments.

Important: Do not assume that every controller, communication, free-cooling, sequencing or monitoring option is standard on every unit. Confirm the bill of materials and model-specific technical datasheet before final selection.

03 | BUSINESS BENEFITS

Protect critical infrastructure

Maintaining suitable room conditions helps reduce thermal stress on servers, switches, UPS equipment, drives and control electronics.

Support higher availability

Continuous-duty design, alarms and optional multi-unit strategies can help facilities teams manage cooling risks and plan response actions.

Improve energy management

Efficient fan and compressor technologies, correct capacity selection and control logic can help reduce avoidable energy consumption.

Use space intelligently

Compact equipment-room solutions can be useful where floor area is limited. Confirm mounting method, clearances and service access for the selected configuration.

Simplify deployment

A purpose-designed split configuration may reduce the complexity of large duct networks in suitable small-room applications.

Improve maintenance planning

Diagnostic information, accessible service points and alarm history—where provided—can help technicians plan inspection and corrective action.

Support operational visibility

Remote monitoring compatibility can help central teams view equipment status without being physically present at every room.

TYPICAL APPLICATIONS

DATA CENTRES & SERVER ROOMS Servers, storage, networking and edge-computing rooms.	**UPS & ELECTRICAL ROOMS** UPS systems, power distribution, switchgear and electrical panels.
TELECOM & NETWORK FACILITIES Telecom exchanges, communication rooms and network hubs.	**BANKING & ATM LOCATIONS** Small technology rooms supporting banking infrastructure.
INDUSTRIAL CONTROL ROOMS PLC, SCADA, VFD and process-control equipment rooms.	**HEALTHCARE & LABORATORIES** Selected technical rooms requiring controlled environmental conditions.

04 | ENGINEERED FOR THE ROOM — NOT JUST THE UNIT

A successful precision-cooling installation begins with a proper site and heat-load assessment. HYUN ENERGY can work with the customer and project consultant to review the room conditions and propose a suitable configuration.

Information required for selection

- Connected equipment list and actual/estimated heat dissipation (kW).
- Room dimensions, ceiling height, layout and equipment/rack positions.
- Required room temperature and humidity operating range.
- Outdoor ambient conditions and available location for outdoor equipment.
- Power supply, electrical protection and earthing details.
- Airflow arrangement, return-air path, filtration and site constraints.
- Required redundancy philosophy (N, N+1 or other) and future expansion.
- Monitoring requirements, communication protocol and BMS integration needs.

Recommended project workflow

01	Site survey & heat-load review
02	Capacity selection & airflow planning
03	Equipment, controls & monitoring confirmation
04	Installation, piping & electrical checks
05	Commissioning, alarm checks & handover
06	Preventive maintenance & performance review

HYUN ENERGY SUPPORT

Smarter. Greener. Powering Sustainability.

For product selection, project consultation, installation coordination and service support, contact the HYUN ENERGY team.

Website: www.hyunenergy.in

Product: SRC Series Precision Air Conditioner

TECHNICAL & COMMERCIAL NOTE

This catalogue is a product overview for discussion and preliminary evaluation. Cooling capacity, model numbers, dimensions, electrical ratings, refrigerant, airflow, operating limits, sound levels, efficiency figures, communication protocols, warranty and included accessories must be confirmed from the current model-specific manufacturer datasheet and approved quotation. Performance depends on room heat load, installation quality, ambient conditions, airflow design and maintenance. No numerical performance guarantee is made by this overview.

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