



# GT-RACK

Precision Air Conditioning

## INTRODUCTION

GT Rack Mounted Precision Air Conditioner is a cabinet-level temperature control product specially designed for integrated cabinets, micro-modules or high heat density data centers. It can be placed close to the heat source in the cabinet and it can accurately handle the high sensible heat generated by the equipment in the cabinet. It can effectively prevent the generation of local hot spots, reduce the return air distance, increase the return air temperature, improve energy efficiency ratio, have significant energy saving effect and effectively develop green data centers for long term.

## APPLICATIONS

- Micro Data Center
- Single row cabinet
- Modular Computer Rooms
- Medium and high heat density computer room
- Modular Data Center
- IT Rack for Blade Servers



# GT RACK COOLING SYSTEM

Air-cooled rack-mounted precision air conditioner, split design with outdoor unit, 19-inch rack-mounted, compact design, suitable for all types of enclosed rack-mounted micro-module data center.

Capacity:3.5KW-12.5KW



- 1

Prevents localized overheating with high sensible heat ratio design.
- 2

Placed directly inside racks near heat sources for efficient, energy-saving cooling.
- 3

Ensures precise temperature control using intelligent inverter technology (inverter compressor + PID control + electronic valve).
- 4

EC fans automatically adjust airflow speed and volume for efficiency.
- 5

Handles voltage fluctuations (±20 %) with wide-range outdoor fan speed control.
- 6

Features multiple safety protections: prevents water leakage/flooding, warns of refrigerant leaks, and protects servers from condensation.
- 7

Uses environmentally friendly R410A refrigerant.
- 8

Easy to install and maintain with modular design, plug-and-play components, and full front access.

# TECHNICAL PARAMETER

Model	GTRC003	GTRC005	GTRC007	GTRC0012
HP	1.5	2	3	5
Phase	Single	Single	Single	Single
Performance				
Total cooling capacity	3.5kW	5kW	7.5kW	12.5kW
Sensible cooling capacity	3.5kW	5kW	7.5kW	12.5kW
Airflow	800m³/h	1150m³/h	1600m³/h	2300m³/h
Sensible heat ratio	100%	100%	100%	100%
Heating capacity	1kW	1kW	2kW	3kW
Full load current	15A	19A	25A	37A
Power cord and cable specifications	3X2.5mm²	3X2.5mm²	3X4mm²	3X6mm²
Indoor and outdoor unit stopvalve				
Refrigerant air pipe	12.7mm	12.7mm	12.7mm	15.88mm
Refrigerant liquid pipe	9.52mm	9.52mm	9.52mm	9.52mm
Indoor unit dimention (W*D*H)mm	442*714*175 (4U) 442*714*218(5U)	442*714*218 (5U)	442*714*351 (8U)	442*714*440 (10U)
Outdoor Unit Parameters				
Model	GTCH005	GTCH006	GTCH008	GTCH013
Power supply system	220Vac/1Ph/50Hz			
Installation method	Vertical installation			
Speed regulation method	Stepless speed regulation			
Noise(dBA)	54	55	56	58
Rated current	7A	10A	11.5A	15A
Power cord and cable specifications	4X1.5mm²	4X2.5mm²	4X2.5mm²	4X4mm²
Communication line and cable specifications	3X1mm²	3X1mm²	3X1mm²	3X1mm²
outdoor unit dimention (W*D*H)mm	840*285*610	830*310*720	880*360*800	930*385*1260

The above table is only part of the parameters. The specific configuration is subject to the actual nameplate purchased.