

TRINERGY ROOMMAX SERIES

LARGE ROOM PRECISION COOLING



PRODUCT OVERVIEW

TRINERGY RoomMax Series is an advanced cooling solution for medium to large data centers, communication rooms, battery rooms, UPS rooms, and industrial equipment rooms. It provides efficient and reliable temperature control, ensuring a secure and stable environment for critical infrastructure and precision equipment.

APPLICATIONS

Medium to large data centers, communication rooms, battery rooms, UPS rooms, and industrial equipment rooms.

KEY FEATURES

HIGH EFFICIENCY	SIMPLE	RELIABLE
<ul style="list-style-type: none"> Full frequency conversion system design, high sensible heat ratio, high energy efficiency ratio. Efficient DCVF compressor and EC fan provide a stepless dynamic cooling output. Utilize a V or A-shaped evaporator for high heat exchange efficiency. 	<ul style="list-style-type: none"> 7" HMI colour touchscreen for easy operation and real-time display of information. Standard RS485 interface, optional SNMP interface, supports management of at least 64 units. Hierarchical password permissions, facilitating operation and maintenance management. 	<ul style="list-style-type: none"> High-strength structural frame, sturdy and durable. Strict quality control of components to ensure quality. Rigorous testing and validation to guarantee operational safety. Multi-voltage compatibility reduces frequent start-stop operations of the devices.

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TECHNICAL SPECIFICATION - INDOOR UNIT (LRP SERIES)

INDOOR MODEL (LRP SERIES)	LRP025	LRP030	LRP035	LRP040	LRP045	LRP050	LRP060
Total Cooling Capacity (kW)	27.1	30.6	36.3	41.2	45.3	51.2	60.2
Sensible Cooling Capacity (kW)	24.9	27.6	33.4	38.1	41.2	47.1	54.1
Air Volume (m³/h)	8550	9550	11100	12100	12550	13100	14000
Compressor Type	DC Variable Frequency Compressor (Single System)						
Compressor Number (pcs)	1	1	1	1	1	1	1
Fan Type	High Efficiency EC Fans						
Fan Number (pcs)	1	1	1	1	1	1	1
EEV	High Efficiency Electronic Expansion Valve						
Refrigerant	R410A						
Heating Capacity (kW)	6	6	6	9	9	9	9
Humidification Capacity (kg/h)	5	5	5	10	10	10	10
Power Supply Type	380V/3N - 50Hz						
FLA (A)	36.5	40.8	41.6	45.7	50.0	54.5	64.6
Indoor Unit Weight (kg)	320	325	350	370	370	470	470
Dimension W*D*H (mm)	900*995*1975					1100*995*1975	
CA Series Outdoor Unit							
Outdoor Model (Nominal condition)	CA035AP N	CA040AP N	CA050AP N	CA058AP N	CA068AP N	CA068AP N	CA090AP N
Power Supply Type	380V/3N - 50Hz						
Outdoor Weight (kg)	126	135	140	150	166	166	185
Dimension W*D*H (mm)	1376*980*738		1576*1274* 748	1776*1274* 748	1976*1274*738		2576*1274* 748

Note:

1. Nominal condition: indoor return air 24°C, 50% RH, outdoor ambient temp. 35°C.
2. FLA is full load current of the standard model, including outdoor unit current.

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TECHNICAL SPECIFICATION - INDOOR AND OUTDOOR UNITS

Indoor Model (LRP Series)	LRP060	LRP070	LRP080	LRP090	LRP100	LRP110	LRP120
Total Cooling Capacity (kW)	60.9	72.2	82.1	90.5	102.1	110.2	120.0
Sensible Cooling Capacity (kW)	55.0	66.5	76.0	82.1	94.0	100.1	108.0
Air Volume (m³/h)	19000	22000	24000	25000	26000	27000	28000
Compressor Type	DC Variable Frequency Compressor (Dual System)						
Compressor Number (pcs)	2	2	2	2	2	2	2
Fan Type	High Efficiency EC Fans						
Fan Number (pcs)	2	2	2	2	2	2	2
EEV	High Efficiency Electronic Expansion Value						
Refrigerant	R410A						
Heating Capacity (kW)	9	9	12	12	12	12	12
Humidification Capacity (kg/h)	10	10	10	10	10	10	10
Power Supply Type	380V/3N - 50Hz						
FLA (A)	68.6	70.3	78.6	86.8	96.0	106.0	116.0
Indoor Unit Weight (kg)	600	650	690	690	880	880	880
Dimension W*D*H (mm)	1800*995*1975					2200*995*1975	

CA Series Outdoor Unit

Outdoor Model (Nominal condition)	CA090DP N	CA050AP N*2	CA058AP N*2	CA068AP N*2	CA068AP N*2	CA078APN *2	CA090AP N*2
Power Supply Type	380V/3N - 50Hz						
Outdoor Weight (kg)	185	140*2	150*2	166*2	166*2	176*2	185*2
Dimension W*D*H (mm)	2576*1274 *748	(1576*1274 *748)*2	(1776*1274 *748)*2	(1976*1274*738)*2		(2176*1274 *738)*2	(2576*1274 *748)*2
Certifications	CE						
Country of Origin	Malaysia						
Warranty	2 Years						

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Note:

1. The above parameters are based on indoor return air working conditions of 24' C, 50% RH, outdoor ambient temp. 35' C;
2. The upper air supply unit has two air supply methods: Upflow air supply and top front air supply;
3. The default fan of the Downflow supply fan is sunken type, and the recommended net height of the floor is > 400mm;
4. Customized products can be provided if you need more parameters, please contact our company.

OPTIONS & ACCESSORIES

- 7" HMI colour touchscreen for local monitoring and control.
- Standard RS485 interface; optional SNMP interface (supports management of at least 64 units).
- DC variable frequency compressor and high-efficiency EC fans for stepless cooling output.
- High-efficiency electronic expansion valve and R410A refrigerant.
- Hierarchical password permissions for operation and maintenance management.
- Customized configurations available on request.

APPLICATIONS

- Medium to large data centers
- Communication rooms and telecom shelters
- Battery rooms and UPS rooms
- Industrial equipment rooms
- Mission-critical infrastructure environments

ORDERING INFORMATION

Indoor Units (LRP Series)	LRP025, LRP030, LRP035, LRP040, LRP045, LRP050, LRP060, LRP070, LRP080, LRP090, LRP100, LRP110, LRP120
Outdoor Units (CA Series)	CA035APN, CA040APN, CA050APN, CA058APN, CA068APN, CA090APN, CA090DPN
Dual Outdoor Sets	CA050APN*2, CA058APN*2, CA068APN*2, CA078APN*2, CA090APN*2

