Room-Based
Air-Cooled CRAC

GENERAL CHARACTERISTICS

- LMA Room-based Air-cooled Air conditioner provides precise temperature and humidity control for large and medium-size data rooms. It adopts high efficiency compressor and EC centrifugal fan to meet the requirements of 24 X 7 all-weather continuous operation. It is the ideal choice for green and energy-saving data centers and various electronic equipment rooms. It's is manufactured with the world's leading technologies and the most advanced components. Every product is fully tested before ex-factory to ensure performances and reliability.
- Application scenarios: data center, communication equipment and computer room, MRI and CT room, other precision equipment environment, such as precision processing, electronic instrument workshop, museum, archives, high-end wine cellar,medical equipment room, constant temperature and humidity laboratory, etc.

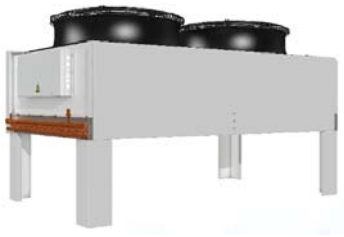
MAIN COMPONENTS

- Adopt fully enclosed inverter driven compressors and EC fans to minimize vibration and noise.
- Heat exchanger is using high-efficiency inner grooved copper tubes and Hydrophilic fins. Large heat exchanging area for better performances and efficiency.
- Two totally independent refrigerant circuits for 100% redundancy, automatically balances the wear of every component to guarantee longer lifespan and more reliable operation. In case of one of circuit malfunction, the unit can still provide 50% cooling capacity.
- Multiple integrated protections, such as high/low pressure and high discharge temperature protection, unit will shutdown automatically for protection, to avoid damages to the compressors.
- Adopt self-developed intelligent monitoring system, 7-inch LCD touch screen, friendly human-machine interface. It provides simple, convenient and real-time control and management of all the product functions, parameters query. Parameters display in graphic curve, with self diagnostic function to assures reliable and smooth operation.



*2230mm*996mm*1975mm*

CRAC Indoor Unit Downflow | **CRAC Indoor Unit Upflow**



*2171mm*817mm*1216mm*

Flat-type Outdoor Unit LMT088SP



*1275mm*1100mm*2130mm*

V-type Outdoor Unit LMT088SF

Product Specification

Parameter		Specification			
		LMA4100U1E	LMA4100D1E	LMA4100U3E	LMA4100D3E
Cooling Capacity					
Total	kW	100.2	100.2	100.2	100.2
Sensible	kW	90.18	90.18	90.18	90.18
EER	-	3.0	3.0	3.0	3.0
Refrigerant	-	R410A	R410A	R410A	R410A
Indoor temp.	°C/RH	24.0/50%	24.0/50%	24.0/50%	24.0/50%
Outdoor temp.	°C	35.0	35.0	35.0	35.0

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Parameter		Specification			
		LMA4100U1E	LMA4100D1E	LMA4100U3E	LMA4100D3E
Fan	N°	2	2	2	2
Brand	-	ZIEHL-ABEGG	ZIEHL-ABEGG	ZIEHL-ABEGG	ZIEHL-ABEGG
Type	-	EC	EC	EC	EC
Air flow	m³/h	27000	27000	27000	27000
External static pressure	Pa	100	100	100	100
Air supply	-	Upflow	Downflow	Upflow	Downflow
Compressors	N°	2	2	2	2
Brand	-	GMCC	GMCC	GMCC	GMCC
Type	-	Inverter	Inverter	Inverter	Inverter
Connection Pipes *(Base on pipes of 30m)*					
Liquid pipe diameter	mm	22	22	22	22
Gas pipe diameter	mm	28	28	28	28
Max equivalent length	m	100	100	100	100
Height Difference					
	m	-5~20	-5~20	-5~20	-5~20
Air Filters					
Efficiency		G4	G4	G4	G4
Electric Heater					
Capacity	kw	-	-	15.0	15.0
Humidifier					
Type	-	-	-	Wet-film	Wet-film
Capacity	kg/h	-	-	10.0	10.0
Outdoor Model					
	-	LMT088SP*2	LMT088SP*2	LMT088SP*2	LMT088SP*2
		LMT088SF*2	LMT088SF*2	LMT088SF*2	LMT088SF*2
Dimensions					
Indoor unit (W*D*H)	mm	2230*996*1975	2230*996*1975	2230*996*1975	2230*996*1975
Flat-type outdoor unit (L*W*H)	mm	2171*817*1216	2171*817*1216	2171*817*1216	2171*817*1216
V-type outdoor unit (L*W*H)	mm	1275*1100*2130	1275*1100*2130	1275*1100*2130	1275*1100*2130
Net Weight					
Indoor unit	kg	880	880	880	880
Flat-type outdoor unit	kg	245	245	245	245
V-type outdoor unit	kg	240	240	240	240
Electrical					
Power supply	-	380V~415V/3Ph/50Hz			
		380V~415V/3Ph/60Hz			
		460V~480V/3Ph/60Hz			
Unit max current	A	106.4 (380V~415V)			
		87.9 (460V~480V)			

Ordering Information

Part Number	Description
LMA4100U1E	Room Based Air-Cooled CRAC Indoor Unit Upflow (100kW)
LMA4100D1E	Room Based Air-Cooled CRAC Indoor Unit Downflow (100kW)
LMA4100U3E	Room Based Air-Cooled CRAC Indoor Unit Upflow with Electric Heater + Wet Film Type Humidifier (100kW)
LMA4100D3E	Room Based Air-Cooled CRAC Indoor Unit Downflow with Electric Heater + Wet Film Type Humidifier (100kW)

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