



CONTINENTAL & TROPICAL CLIMATES
MOBILE, ELECTRICITY AIR CON UNIT
(PCA) 22RT & 45RT

MRO



CCA 22RT and 45RT PCA are the high-pressure type Air Con Unit according to the needs of the airline service and MRO. They can provide heating, cooling and ventilation for the entire aircraft cabin's interior on the high temperature and humidity conditions in hangar. The products are directly connected with 380V high voltage electricity power, and are able to move around by a tow tractor indoors and outdoors.

► **ADVANTAGES**

- Complete stainless-steel construction for anti-corrosion and long life.
- Easy operation, one-click start and stop.
- Strong cooling output.
- Continuous long time stable operation.
- Versatility.
- Low failure rate and low maintenance requirement.
- No emission and low noise.
- Indoor and outdoor both usages.



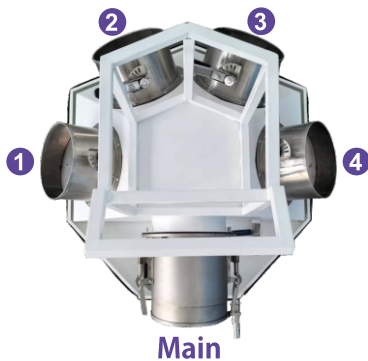
TECHNICAL DATA SHEET

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Item	Parameter Rating	Technical Specification		
Performance	Brand	CCA		
	Model	PCA70	PCA165	
	Function	Cooling, Heating(Optional), Ventilation		
	Standard	IATA AHM 904/905/910/913/914/915/974/968		
	Description	Mobile electricity PC Air		
	Application Scope In Hangar	Aircraft A320,B737, etc.	Aircraft A350,B787,etc.	
	Environment Friendly Refrigerant	R407c		
	Cooling Capacity	22 TON/RT (70 Kw)	45 TON/RT (165 Kw)	
	Heating Capacity (Option)	50 Kw (170,643 BTU)	76 Kw (259,377 BTU)	
	Driving Mode	Industrial electricity power		
	Air Flow		5,000 m ³ /h	4,000-8,000 m ³ /h
			220 lb/min	176-350 lb/min
			108 kg/min	86-160 kg/min
	Air Pressure	5.0 KPa	3.5-7.0 KPa	
	Air Temperature		Cooling: 5~15°C	Cooling: 2~15°C
			Heating: 30~55°C	Heating: 35-55°C
	Noise	≤70 dB@4.5m away	≤75 dB@4.5m away	
	Air Outlet Quantity	1 piece of air hose connecting with aircraft	2 pieces of air hoses connecting with aircraft	
	Dimension (mm)	2,750x1,600x1,950	3,750x2,000x2,150	
Weight	1,470 Kg	2,500 Kg		
Electricity	Voltage	380Vac±10%	380Vac±10%	
	Frequency	50 Hz/ 60 Hz		
	Power	≥ 37 Kw	≥ 67 Kw	
	Cable Length	20m (60ft)		
	Plug and Socket	63 A, 5-Pin	150 A, 5-Pin	
Compressor	Brand	Copeland		
	Type	Scroll compressor		
	Amount	2	3	
Blower	Type	Low noise centrifugal high pressure		
	Motor Brand	ABB		
Condenser	Material	Made of copper tubes and aluminum fins		
Evaporator	Material	Made of copper tubes and aluminum fins		
Expansion Valve	Brand	DANFOSS		
Controller	Brand	Xianda	CAREL	
	Type	Push-button temperature controller	Programmable logic controller (PLC)	
Chassis	Rating Load	4 pieces of solid tires mounted	Trailer mounted, ≤3.5T	
	Turn Radius	≤4.3 m	≤4.8 m	
Air Ducting/Hose	Inner Diameter* length	Φ310mm*210mm*12m (40ft)	Φ310mm*210mm*12m (40ft)	
	Material	Thermal insulation vinyl		
	Color	Yellow		
Air Coupler	Quantity	1	2	
	Material	Stainless Steel / Plastic		
Heating (Option)	Type	Electrical heating (PTC)+heating pump		

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► AIR DUCT DIVIDED CART

The air duct divided cart is a specially designed, that can help to realize multi-function switching from only serving the entire aircraft cabinet, up to four separated working sites where cooling air supplied at the same time.