

DEFENSE AIR CONDITIONING UNIT (DACU 3.5TR)

(AVAILABLE MODELS :1TR/1.5TR/2TR/3.5TR/5TR)



SERVING DEFENSE AND AVIATION FOR FIVE DECADES

DEFENSE AIR CONDITIONING UNIT (DACU 3.5TR)

MAK Defense Air Conditioning Unit (DACU) 3.5TR is designed and developed for maintain the cabin temperature within the communication shelters, Power source operating cabin, Military tent and other defense shelter requirements. The unit shall be mounted on shelter wall.

The DACU is user friendly with Remote Control panel and user HMI. The System can be operated either through manual or auto mode, from the user interface. The user requirement shall be received by an intelligent micro controller that process the operation with Cooling/Heating/Ventilation. Blower speed selection is available in the remote panel and it shall be selected by the user based on the requirement. In addition, the system includes built in Fresh Air Assembly (With EMI shielding/ Dust Filter).

SALIENT FEATURES

- ▶ Designed for 3 modes of operation (ie.) Cooling, Heating, Ventilation.
- ▶ Incorporated with heating coil arrangement to cater hot air requirement during cold weather operation.
- ▶ Meets MIL STD – 461G EMI/EMC
- ▶ Qualified for JSS 55555 environmental test
- ▶ Capable of maintaining desired shelter temperature at all ambient condition.
- ▶ Efficient cooling with minimal power consumption.
- ▶ Common remote panel for 4xDACU's

TECHNICAL SPECIFICATIONS

Model	MAK DACU 3.5 TR
Power supply	400V, 3 Ph, 50Hz
Type	Wall mounted
Air flow	1200 CFM
Shelter cabin temperature	18 to 27°C
Designed return air temp.	28°C
Cooling capacity	42,000 Btu/Hr
Heating capacity	7000 Watt
Operating temperature	-20 to +55°C
Storage temperature	-30 to +70°C
Compressor	Scroll
Refrigerant	R407c

Condensing temp.	67°C (152.6°F)
Evaporating temp.	7°C (44.6°F)
Max. Current (Cooling Mode)	12 A ±3.5A
Max. Starting Current	~42 A
Control System	Micro controller based
Operating mode	I. Cooling
	II. Heating
	III. Ventilation
Dimension & Weight	I. Height : 1580 ± 10mm
	II. Width : 560 ± 10mm
	III. Depth : 546 ± 10mm
	IV. Weight : 170 ± 10 Kgs

Note: Dimension and weight are approximate and subject to change due to continuous product improvement.

DACU OPERATIONS MONITORING:

The following parameters are displayed through digital display interface.

- ▶ Shelter temperature ▶ Set temperature
- ▶ System Status ▶ System Fault ▶ Fault Log

DACU OPERATIONS PROTECTIONS:

- ▶ Refrigerant High discharge pressure shutdown
- ▶ Refrigerant low suction pressure shutdown
- ▶ Phase reversal ▶ Heater over temperature

For detailed technical specifications or any other queries please contact us

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