

DC AIR CONDITIONER 450 FOR ELECTRONICS



Dantherm DC Air Conditioner 450 is a compact, high efficiency, DC powered air conditioner. It meets your requirements for electronics cooling in challenging indoor and outdoor environments. It is a closed loop, compact, mono-block air conditioner for through wall mounting on a cabinet or enclosure. It has capabilities far beyond those of conventional comfort cooling systems. The design is optimized for applications with limited space, but where functionality and performance are of extreme importance.

The DC Air Conditioner is a closed loop, compact, mono-block air conditioner for a cabinet or enclosure with capabilities far beyond those of conventional comfort cooling systems.

Dantherm DC Air Conditioner 450 is widely installed in radio base stations, telecom cabinet & shelters, battery compartment/cabinets, and indoor/outdoor cabinets.



FEATURES AND BENEFITS

Energy efficiency and environment

- Reliable and energy-efficient cooling. Energy-efficient fans with long lifetime and minimal power consumption. Efficient compressor using environmental friendly refrigeration R134a.
- Protection for high and low voltage

Cabinet

- Mono-block plug and play unit ensure an easy installation.
- Closed loop cooling protects equipment against ambient environment.
- Design with flange for convenient through wall mounting.
- Constructed of sheet metal (EN 10143 & EN 10327), power coated with RAL 7035.
- Environment protected components in ambient air circuit for prolonged air stream.

Heat Management

- Temperature sensor placed in return air stream on evaporator coil- for the most reliable temperature measurement and security of operation.
- Constant recirculation of internal air to generate optimum internal conditions and avoid hotspot.
- The unit works in extreme temperatures from -10°C to +55°C, internal working humidity range: 0%-80%.

Optional Features

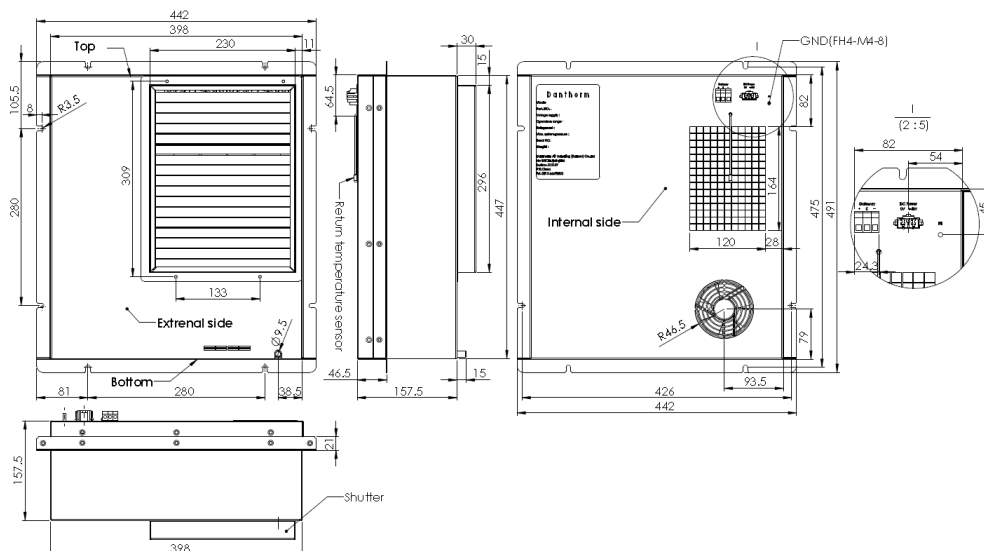
- Optional Gateway and software for Danfoss Gateway.

TECHNICAL DATA

DC AIR CONDITIONER 450

Dimensions, weight & mounting		
Item number		366210
Unit dimensions (height×width×depth)	mm	491×442×157.5
Single packing dimensions (height×width×depth) (cardboard)	mm	540×482×240
Multi packing dimensions (height×width×depth) (20pcs per pallet)	mm	1262×1012×1260
Net weight	kg	18.5
Single package weight incl. unit (multi package, ask Dantherm)	kg	20.5
Mounting method		Through wall or door
Controller location/interface		Built into fan
Environmental protection & performance		
Operational temperature range	°C	-10 ~ +55
Storage temperature	°C	-20~ +70
Storage relative humidity	RH	5~80%
Noise level, outside 2m distance at 35°C internal and 35°C ambient	dB(A)	65
Protection from dust, water and wind driven rain according to EN 60529	IP Class 2	54
Refrigerant / amount	Kg	R134a 0.2
CE, RoHS, and WEEE compliant, UL and cUL pending		Yes
Expected service life		Min. 10 years
Cooling capacity & operational data		
Cooling capacity at 25°C internal and 50°C ambient	W	250
Cooling capacity at 35°C internal and 35°C ambient	W	450
Internal airflow	m ³ /h	210
External airflow	m ³ /h	310
Power consumption at 25°C internal and 50°C ambient	W	200
Power consumption at 35°C internal and 35°C ambient	W	190
Efficiency ratio at 35°C internal and 35°C ambient	COP/EER	2.4
Power, frequency & range		
Input voltage range	VDC	45-57
Key components		
Compressor		Danfoss
Fans		48V
Sheet metal parts		Aluzinc + powder coating
colour	RAL	7035

DIMENSIONS



Subject to change without notice