

# TELECOM AIR CONDITIONERS

WITH ECONOMISER (DC & AC VERSION)



**ACME's energy-efficient AIR CONDITIONING SOLUTIONS are optimised for the Telecom Industry.**

The system offers the following unique features:

- **Free Cooling / Emergency cooling option**
- **Filter less technology**

## Advantages

**Free Cooling / Emergency cooling** option in these systems help the operators to run their sites with minimal power consumption. Free Cooling maintains controlled temperature condition at telecom sites for up to 3000 to 7000 hrs in a year without running the compressor depending on ambient conditions. Moreover, systems are featured with emergency cooling during power failures, thereby eliminating the need of running the diesel generators for air conditioning.

**Filter less design** is based on a filter-less technology to withstand harsh environments and to ensure maintenance-free operation. It also comes equipped with a High Sensible Cooling unit.

## ACME Air Conditioners offer:

- **Sleek & compact design. They can be mounted outside the shelter to save valuable space**
- **Ready to install. Wired, piped, charged with refrigerant and fully factory tested to ensure trouble-free installation and start-up**
- **Available in a range of capacities from 0.9 to 2.0 tons models, 50 Hz to accommodate varied cooling requirements**
- **Equipped with controller which can control two units locally**
- **Available in DC operated 24V/ 48V version on request**



Stand Alone Free Cooling Unit

# Designed to optimise precision cooling



## Technical Specifications\*

Model	ACME 230 ACFC 3243°C	Unit
Outdoor design condition	43 (DBT)	°C
Indoor design condition	25 (DBT) / 50 (RH)	°C %
Total cooling capacity**	3200	Watts
Total sensible cooling capacity**	2880	Watts
Operating voltage	230 ± 10%	Volts
Rated current	5.5	Amp.
Power consumption**	1250	Watts
Inside air flow per unit**	600	CFM
Refrigerant	R22	
Damper motor voltage	230 ± 10%	Volts
Controller voltage	230 ± 10%	Volts
Frequency	50	Hz
Expansion device	Thermostatic expansion valve	Type
Controller	Micro-controller-based	
Compressor	Rotary hermetically sealed	Type
Air filter for Eco Cooling	Synthetic woven washable	Type
Overall size (HxWxD) of unit	1475x530x520***	mm
Overall size (HxWxD) of packed unit	1640x700x630 ( Approx.)	mm
Net weight	95	Kgs
Gross weight	115	Kgs
Front clearance (Min.)	500	mm
Side clearance (Min.)	500	mm
Top clearance (Min.)	Not required	mm
Bottom clearance (Min.)	100	mm

Model	ACME 48 ACFC 3235°C	Unit
Outdoor design condition	35 (DBT)	°C
Indoor design condition	27 (DBT) / 50 (RH)	°C / %
Total cooling capacity**	3200	Watts
Total sensible cooling capacity**	2880	Watts
Operating voltage	48 VDC ± 10%	Volts
Rated current	31	Amp.
Power consumption**	1475	Watts
Inside air flow per unit**	525	CFM
Refrigerant	R134a	
Damper motor voltage	48 VDC ± 10%	Volts
Controller voltage	48 VDC ± 10%	Volts
Expansion device	Thermostatic expansion valve	Type
Controller	Micro-controller-based	
Compressor	Hermetically sealed	Type
Air filter for Eco Cooling	Synthetic woven washable	Type
Overall size (HxWxD) of unit	1475x530x520***	mm
Overall size (HxWxD) of packed unit	1640x700x630 ( Approx.)	mm
Net weight	95	Kgs
Gross weight	115	Kgs
Front clearance (Min.)	500	mm
Side clearance (Min.)	500	mm
Top clearance (Min.)	Not required	mm
Bottom clearance (Min.)	100	mm

\* We continue to improve our products through Research & Development. Thus, specifications may change without prior notice.

\*\* Rated performance is specified at indoor & outdoor conditions. Tolerance on performance is as per applicable IS standard.

\*\*\* Excluding Damper Motor Cover Projection