

DANTHERMGROUP



RUGGED AIR CONDITIONING SOLUTIONS FOR DEMANDING ENVIRONMENTS

MOBILE COOLING AND HEATING

Dantherm[®]
CLIMATE SOLUTIONS

AC-R6000

AC-R6000



- The AC-R6000 is manufactured from 0.9- 2.5mm galvanized and powder coated steel sheet
- Cooling at outside temperatures up to +51°C
- 7.2kW electrical heating coil (optional)
- Environmentally low GWP only 148 friendly R454C refrigerant
- High/low pressure switch ensuring a long compressor lifespan
- The AC-R6000 with a heater connects to the mains power supply or to a separate diesel generator via a 10m power cable with CEE 16 Amp plug IP54
- The AC-R6000 without a heater connects to the mains power supply or to a separate diesel generator via 10m power cable with a CEE 16
- Temperature control carried out by a room thermostat
- Inlet and discharge openings for Ø315mm well insulated, flexible ducts
- Fresh air intake via adjustable dampers
- Coarse filter for fresh air intake and recirculation
- Easy transportation by either forklift or wheels

Optional accessories



Insulated duct
Ø315 x 3m
095852



Uninsulated duct
Ø315 x 5m
428441



Air distribution duct
Ø315 x 5m
428443



Thermostat Cooling/ Heating
064409



Thermostat Cooling
018668

AC-R6000

The function of the AC-R6000 is based on a cooling circuit and two powerful fans. The lower section contains the evaporator and evaporator fan and draws outside or recirculated air through the cold evaporator. The AC-R6000 have fresh air dampers that can supply fresh air to the tent when the air is recirculated.

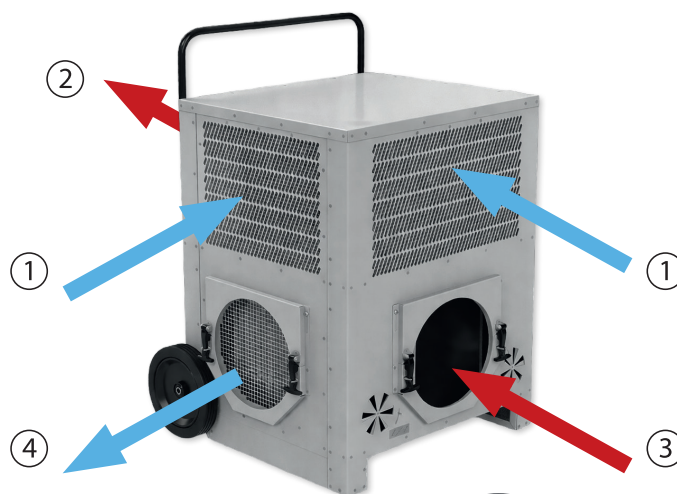
The AC-R6000 air-conditioner is a transportable unit developed primarily to provide air conditioning in temporary or transportable buildings or tents. The AC-R6000 is designed for placement outside with supply air and return air ducted to the tent (Ø315mm).



CEE 16A 3phase



CEE 16A 1phase



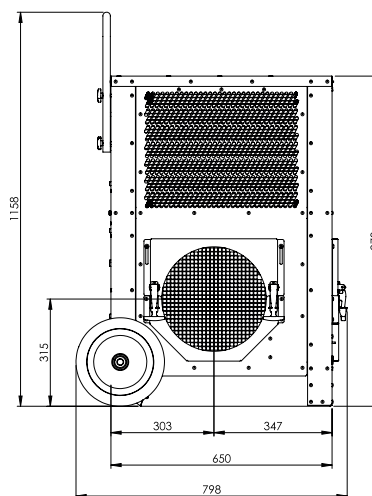
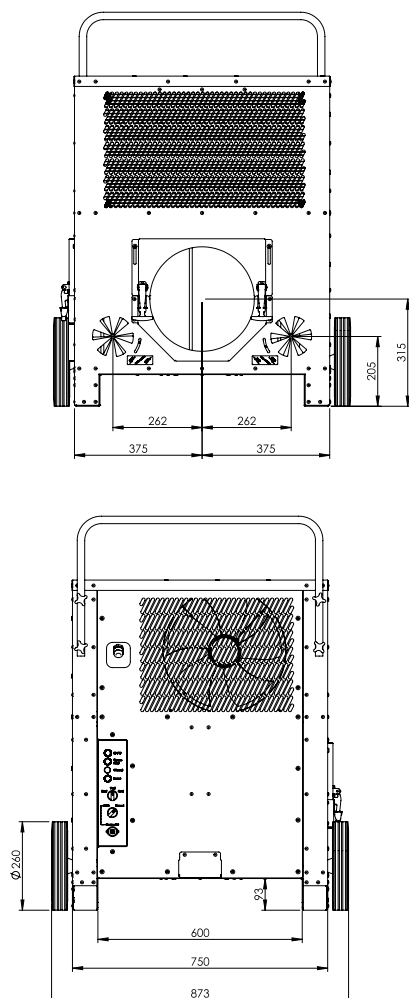
Airflow

1. Condenser in
2. Condenser out
3. Return air from tent
4. Supply air to tent



Control panel

AC-R6000 dimensions in mm



Specifications	Units	AC-R6000 with heater	AC-R6000 w/o heater
Operating temperature range, cooling	°C	+25to+ 51	+25to +51
Operating temperature range, heating	°C	-32 to +25	N/A
Air flow	m³/h	1,400	1,400
Cooling capacity @ 41°C 30% RH	kW	6.1	6.1
Cooling capacity @ 27°C 38% RH	kW	3.7	3.7
Heating capacity	kW	7.2	-
Power supply	V/Hz	400/3ph/50	230/1ph/50
Max. current (heating/cooling)	A	12.2 /11.6	14.9
Locked rotor amperage (LRA)	A	35.5	35.5
Refrigerant/quantity	Type/kg	R454C / 1.2	R454C / 1.2
Max. system pressure	bar	28	28
GWP (Global Warming Potential)	AR4	148	148
Protection class (electrical panel)	IP	IPX5	IPX5
Sound level @ 1.5m	dB(A)	60	60
Fresh air intake	m³/h	0 to 200	0 to 200
Filter (fresh air intake + recirculation)	Type	Coarse	Coarse
Handling	-	On wheels or by forklift	On wheels or by forklift
Power cable with plug	-	10m with CEE 5P 6H IP54, 400V, 16A	10m with CEE 3P 6H-IP54,230V,16A
Hose connection	mm	Ø315	Ø315
Room thermostat	-	Optional	Optional
Safety		CE/UKCA	CE/UKCA
Product size (h x w x l)	mm	1158 X 872 X 798	1158 X 872 X 798
Weight	kg	114	109



AC-R11000



AC-R11000
with trolley



- The AC-R11000 is capable of maintaining the shelter temperature at +20 -25°C when the shelter is built accordingly
- The AC-R11000 is built into a strong metal frame with insulated panels where relevant, powder coated
- Designed for air conditioning when the temperature is above 20°C. It can provide cooling at ambient temperatures up to +60°C. Option with built in heating will heat when ambient temperature is below 20°C
- Scroll compressor for a high degree of reliability and low noise level
- Automatic phase surveillance
- Sequential start of units possible
- Environment-friendly R134a refrigerant
- HP/LP pressostat switches ensuring long compressor lifetime
- Controlled by a room thermostat placed inside the tent (accessory)
- ISO coarse 80% (G4) filtration of the internal air
- Dual filters in front of internal air intake as an option
- Fresh air intake
- Four way fork lift handling
- Easy strap down on air cargo pallets and stackable (two units on top of each other)
- Insulated flexible ducts Ø315mm for exhaust and return air openings
- Low voltage control circuit
- CE-marked
- ErP 2015 compliant
- Designed for optimal utilization of a standard 20" ISO container

Optional accessories



**Remote thermostat
with cable**
15m
064409



**Insulated flexible
air duct including
storage bag**
Ø315mm x 3m
039732



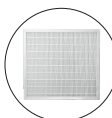
**Uninsulated flexible
air duct**
Ø315mm x 5m
428441



Air distribution duct
Ø315mm x 5m
428443



**Trolley with
wheels**
068459



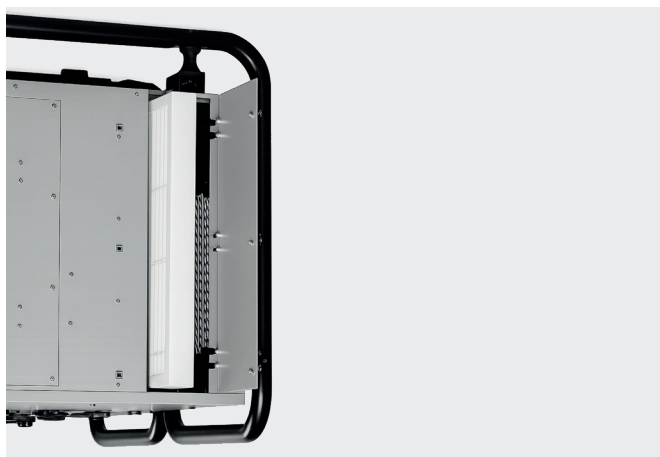
Filter ePM1 60% (F7)
068532

AC-R11000

The AC-R11000 unit is primarily designed to provide air conditioning and heating in temporary or transportable buildings or tents. It is a small light weight unit made out of aluminium and built into a rigid steel frame. The unit is designed to be placed outside, with supply air and return air ducted to the tent.

The function of the AC-R11000 is based on a cooling circuit and two powerful fans. The evaporator section contains the evaporator and a radial fan, which draws warm internal air of the tent through the cold evaporator and blows out the cooled air through the side or the top of the unit. The condenser section contains two condenser coils and a large axial fan, returning the heat taken from the internal air to the outside atmosphere.

All sheet metal parts are protected against corrosion by 60 to 80µm top coat.



Filter ePM1 60% (F7)



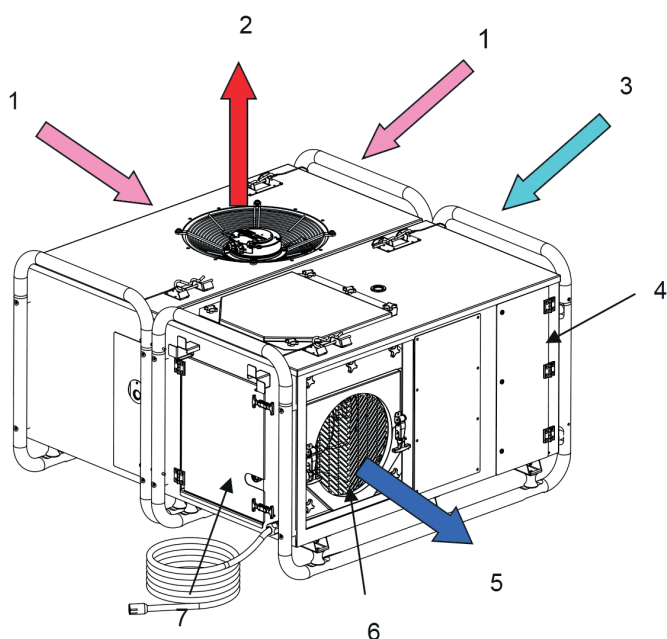
Control panel



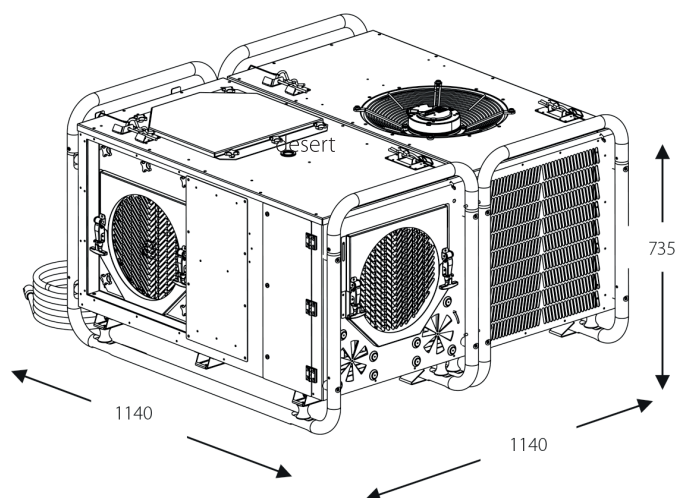
Installation with the air ducts



Trolley with robust wheels

**Unit components and airflow**

- | | |
|----------------------------------|--------------------------------|
| 1. Condenser air intake | 5. Cooled air discharge |
| 2. Condenser air discharge | 6. Duct coupling (Ø315mm) |
| 3. Warm air intake | 7. Electrical panel with cover |
| 4. Dual filter system (optional) | |

AC-R11000 dimensions in mm**10m power cable with CEE 16 plug**

Specifications	Units	AC-R11000
Operating temperature range, cooling	°C	20 to 60
Operating temperature range, heating	°C	-32 to 20
Air flow	m³/h	1,700
Fresh air intake (two adjustable dampers)	m³/h	0 to 200
Sound level @ 1m	dB(A)	55
Protection class	IP	IPX5
Refrigerant/quantity	kg	R134a/2.0
Global Warning Potential	AR4	1,430
Nominal cooling capacity	kW	11
Heating capacity (optional)	kW	8
Power supply	V/Hz	400/3ph/50
Max. running current, cooling/heating	A	14 / 13.8
Locked rotor amperage (LRA)	A	48
Max inrush current with soft starter	A	37
Max. power consumption cooling/heating	W	5,600 / 8,700
Power cable length	m	10
Hose connection	mm	315
Product size (h x l x w)	mm	735 x 1,140 x 1,140
Weight	kg	162

AC-R18000



AC-R18000



AC-R18000
with trolley



- Designed for optimal utilization of a standard 20" ISO container
- The AC-R18000 is built into a strong metal frame with insulated panels where relevant, powder coated
- Option with built in heating will heat when ambient temperature is below 20°C
- Scroll compressor for a high degree of reliability and low noise level
- Automatic phase surveillance
- Sequential start of units possible
- HP/LP pressostat switches ensuring long compressor lifetime
- Fresh air intake
- Four way fork lift handling
- Easy strap down on air cargo pallets and stackable (two units on top of each other)
- Filter class: ISO coarse 80% (G4)
- HEPA filter unit optional

Optional accessories



**Remote thermostat
with cable**
15m
064409



**Insulated flexible
air duct including
storage bag**
Ø400mm x 3m
030774



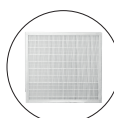
**Uninsulated flexible
air duct including
storage bag**
Ø400mm x 5m
033223



Air distribution duct
Ø400mm x 6m
033224



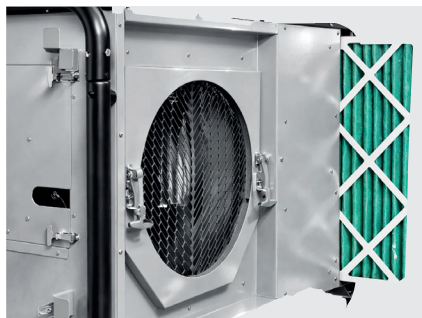
Trolley with wheels
075770



Filter ePM1 60% (F7)
090973

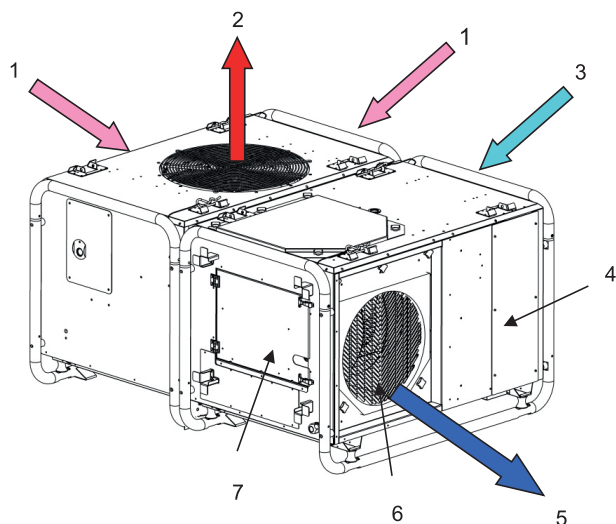


HEPA filter
323041

**Control panel****Filter ePM1 60% (F7)****Control panel open****Trolley with robust wheels****Condenser view**

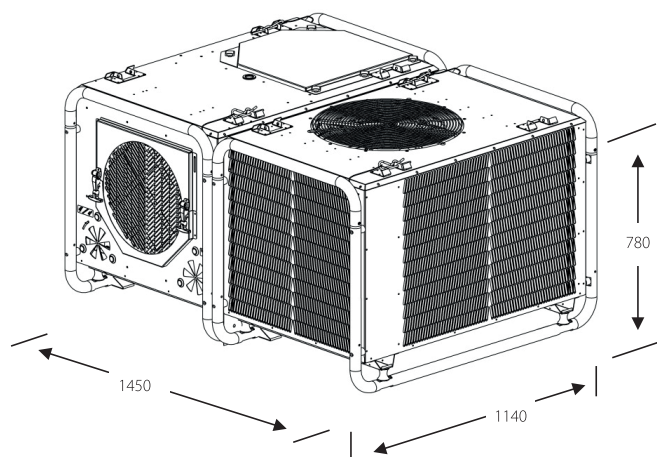
Specifications	Units	AC-R18000
Operating temperature range, cooling	°C	+20 to +60
Operating temperature range, heating	°C	-32 to +20
Air flow	m³/h	2,500
Sound level @ 1m	dB(A)	59
Protection class	IP	IPX5
Refrigerant/quantity	kg	R134a/3.0
Global Warming Potential	AR4	1,430
Nominal cooling capacity	kW	17.5
Heating capacity (optional)	kW	6/16
Power supply	V/Hz	400/3ph/50
Max. running current, cooling/heating	A	16/26
Locked rotor amperage (LRA)	A	73
Inrush current with soft starter	A	56
Max. power consumption cooling/heating	W	8,300/variable
Power cable length	m	10
Hose connection	mm	400
Product size (h x l x w)	mm	780 x 1,450 x 1,140
Weight	kg	204

AC-R18000



Unit components and airflow

- 1. Condenser air intake
- 2. Condenser air discharge
- 3. Warm air intake
- 4. Dual filter system (optional)
- 5. Cooled air discharge
- 6. Duct coupling (Ø400mm)
- 7. Electrical panel with cover



AC-R18000 dimensions in mm

10m power cable with CEE 32 plug



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