



Mechanical & Electrical Engineers
Air Conditioning - Heating - Ventilation



AIR CONDITIONING AND EVAPORATIVE COOLERS

edition 3



Air Conditioners

Evaporative Coolers

Dehumidifiers

Heaters

SC14 MINI SPOT COOLER

The SC14 is a unique and versatile unit allowing ducting to be fitted on both cold air and exhaust air outlets at the same time.

This can allow the unit to be situated inside or outside the area you are looking to cool or heat. With an easy clip on grill you can chose which ever option extremely easy.

It is extremely quiet in operation and it will work easily with 6 metres of ducting off either outlet making the SC14 one of the most popular units in the market place.

Product Description:

- Energy class: A/A+ +
- Heating option
- Twin duct system
- Automatic condensate removal
- High temperature alarm
- 3 Speed fan
- Touch control
- 12 Month warranty

Other Data:

- Cooling Capacity: 4.1kW/14000Btu/hr
- Heating Capacity: 4.1kW/14000Btu/hr
- Weight: 30.5kg
- H x W x D: 74 x 30 x 48
- Air Flow: 600 cm/hr
- Suitable Area: 40m²
- Operating Range: 16 - 40°C
- Noise Rating: 52dba
- Hose Length: 1.4m (optional 6m)
- Hose Diameter: 150mm
- Current (A): 7.6
- Power (W): 1700
- Voltage (V): 240



PORTABLE AIR CONDITIONING

AVALANCHE

The Avalanche is the most powerful, flexible portable air conditioning unit available. Whether your application is for a computer suite, offices, hospitals, portable buildings or hospitality the Avalanche delivers 6.7kW cooling all off a standard 13amp supply. With the option of using up to 30 metres of water line it is supremely flexible ensuring it can go into almost any application.

The Avalanche is designed using a self contained chilled water system. The water circulates through a water cooled condenser where the heat is absorbed and then is pumped through the water lines to the outdoor unit where the water is cooled. The cooled water is then pumped back through the flexible lines to the indoor unit and the process starts again.

Product Description:

- The most versatile portable air conditioning unit on the market
- Offering a solution to almost any application
- Site the indoor unit 30 metres from the outdoor unit
- Quick connect couplings on water lines
- 100% Effective cooling
- Easy installation, only requires 13amp plug

Other Data:

- Cooling Capacity: 6.7kW/23000Btu/hr
- Weight: 86kg
- H x W x D: 103 x 82 x 36cm
- Suitable Area: 55m²
- Operating Range: 10 - 35°C
- Noise Rating: 49dba
- Line Length: Up to 30m
- Line Diameter: 50mm
- Tank Capacity (L): No tank
- Current (A): 12
- Power (W): 2700
- Voltage (V): 240



PORTABLE AIR CONDITIONING

BLIZZARD

The Blizzard is one of the most powerful hose type units in the market, delivering 25,000 Btu/hr whilst still working off a 13 amp supply.

Built in Italy the Blizzard is manufactured using the most up to date materials and designed to work with up to 9 metres of exhaust ducting. Simple in operation the Blizzard is suitable for computer rooms, open plan offices, factories and any application where large amounts of cooling is required. Some of the other features include a 15 litre water container for extra continuous use, water tank full indicator, low and high pressure warning indicators. At 55dba the Blizzard is one of the quietest spot coolers in the market place.

Product Description:

- Large spot cooler
- 2 Speed fan motor
- Works with up to 9m exhaust hose
- 15 Litre water container
- Thermostatically controlled
- Low and high pressure switch
- Easy installation, only requires 13amp plug

Other Data:

- Cooling Capacity: 7.3kW/25000Btu/hr
- Weight: 85kg
- H x W x D: 125 x 50 x 62cm
- Suitable Area: 60m²
- Operating Range: 15 - 35°C
- Noise Rating: 55dba
- Line Length: 3m (+ additional 6m)
- Line Diameter: 305mm
- Tank Capacity (L): 15
- Current (A): 12
- Power (W): 2500
- Voltage (V): 240



FR12EC



Product Description:

- Areas up to 12m²
- Integral Heater
- 4 Speed Fan
- Oscillating Louvers
- Ice Compartment
- Low Water Alarm
- Remote Control

Other Data:

- Water Tank Capacity: 12 Litre
- Average Power Consumption: 65w
- Air Flow: 460 m³/hr
- Dimensions: L x D x H 38 x 31 x 72cm
- Weight: 8kg

FR30EC



Product Description:

- Areas up to 30m²
- Integral Heater
- 4 Speed Fan
- Oscillating Louvers
- Adjustable Humidity Control
- Ice Compartment
- Low Water Alarm
- Remote Control

Other Data:

- Water Tank Capacity: 30 Litre
- Average Power Consumption: 252w
- Air Flow: 900 m³/hr
- Dimensions: L x D x H 46 x 35 x 86cm
- Weight: 11kg

FR48EC



Product Description:

- Areas up to 57m²
- 3 Speed Fan
- Oscillating Louvers
- Adjustable Humidity Control
- Continuous Water Supply Option
- Water Level Indicator
- Low Water Cut Off

Other Data:

- Water Tank Capacity: 48 Litre
- Average Power Consumption: 140w
- Air Flow: 1800 m³/hr
- Dimensions: L x D x H 62 x 38 x 87cm
- Weight: 13kg

FR60EC



Product Description:

- Areas up to 80m²
- 3 Speed Fan
- Oscillating Louvers
- Adjustable Humidity Control
- Continuous Water Supply Option
- Water Level Indicator
- Low Water Cut Off

Other Data:

- Water Tank Capacity: 60 Litre
- Average Power Consumption: 220w
- Air Flow: 2610 m³/hr
- Dimensions: L x D x H 70 x 47 x 102cm
- Weight: 18kg

REPAIR SERVICE

DO YOU NEED YOUR PORTABLE EQUIPMENT BACK UP AND RUNNING?
 WE CAN REPAIR ALL LEADING BRANDS OF PORTABLE EQUIPMENT

FAULT & FIX SERVICES

- ✓ Collection
- ✓ P.A.T. (Portable Appliance Testing)
- ✓ Free-of-charge quote
- ✓ Cleaning
- ✓ Full repair
- ✓ Delivery
- ✓ Full service
- ✓ 12 month warranty (on all repairs)

USEFUL CONVERSIONS

COOLING (measurement in feet)

$$\text{width} \times \text{height} \times \text{length} = \text{volume of area} \times 5 = \text{btu/hr}$$

This allows for up to 4 people and 1 piece of electrical equipment. For additional people or electrical units, add 400 Btu/hr.

HEATING (measurement in feet)

Establish the required interior temperature (f) and the current external temperature (f).

$$\text{width} \times \text{height} \times \text{length} = \text{volume of area}$$

$$\text{volume of room} \times \text{difference between required and external temperature} \times 0.133 = \text{btu/hr}$$

SOUND ADVICE...

Sound level	Decibels	Example
No sound	0	Essentially no sound
	10	Breathing
	20	Whisper
Very quiet	25	Recording studio
	45	Typical neighbourhood
Quiet	50	Quiet conversation
	60	Normal conversation
Annoying	70	Vacuum cleaner
	75	Car interior in transit
Loud	80	Telephone dial tone
	85	City traffic
Very loud	100	Jet take off at 300 ft
Pain threshold	120	Thunderclap
	180	Jet engine at 1 ft
	194	Air particle distortion

TALK TO THE CONVERTED!

Btu/hr to kW Btu / 3.412	kW to Btu/hr kW x 3.412	Cubic Ft to Litres F ³ x 28.317	Litres to Cubic Ft L / 28.317
Celsius to Fahrenheit c x 1.8 + 3.2	Fahrenheit to Celsius f - 32 / 1.8	Pints to Litres P x 0.568	Litres to Pints L / 0.568
Feet to Metres F x 0.3048	Metres to Feet M / 0.3048	US Pints to Litres P x 0.568	Litres to US Pints L / 0.473
Sq Ft to Sq M F ² x 0.0929	Sq M to Sq Ft M ² / 0.0929	Gallons to Litres G x 4.546	Litres to Gallons L / 4.546
Cubic M to Cubic Ft M ³ x 35.3	Cubic Ft to Cubic M F ³ / 35.3	Grains to Grams G x 0.0648	Grams to Grains Gr / 0.0648