



calorex

# Mobile Dehumidifiers

Sole Agents...

**AVON**

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A range of robust fully mobile, high performance dehumidifiers designed to provide rapid drying solutions and humidity control

## CALOREX HIGH PERFORMANCE PORTABLE DEHUMIDIFIERS

Calorex portable dehumidifiers provide affordable solutions to drying problems, ensuring safe levels of dehumidification and humidity control.

### How does a Porta-Dry Dehumidifier work?

Porta-Dry dehumidifiers are fully contained, packaged units which incorporate a fan and a totally CFC-free refrigeration circuit. A fan draws room air through the machine which firstly passes a refrigerated heat exchanger (evaporator) that cools and allows moisture contained within the air to condense. The cooled, dry air then passes across a warm heat exchanger (condenser) where it is reheated as a result of the dehumidification process, before being returned to the room in a dry, warm state. Moisture removed from the air is collected in a reservoir where it is fed away to waste.

Due to the unique nature of a refrigeration circuit, energy removed from the air during dehumidification process is converted into useable heat. Typically for every 1kW of energy that a dehumidifier consumes, it will give out 2.5kW of heat; by removing the moisture from the air rather than heating it to a high temperature, Porta-Dry dehumidifiers will dry in a gentle and more controllable manner, alleviating possible material shrinkage and cracking problems associated with heating methods.

### The Calorex Porta-Dry Dehumidifiers have a wide range of applications in dehumidification:

- Building Drying
- Basement/Cellars
- Paper Stores
- Unheated Premises
- Electrical Sub-stations
- Pump Rooms
- Museums
- Sports Halls
- Storerooms
- Warehouses
- Flood Damage

### Porta-Dry Portable Dehumidifiers

Calorex dehumidifiers are made in the UK, and have a CE Certificate that is valid in NZ, and a NZ "C-Tick" Certification. Because of their high efficiency performance Calorex DH models also has exemption from the NZ Ministry of Energy, MEPS (Minimum Energy Performance Standards (Regulations)). As far as we are aware, no other similar Dehumidifiers marketed in NZ, have all those approvals.

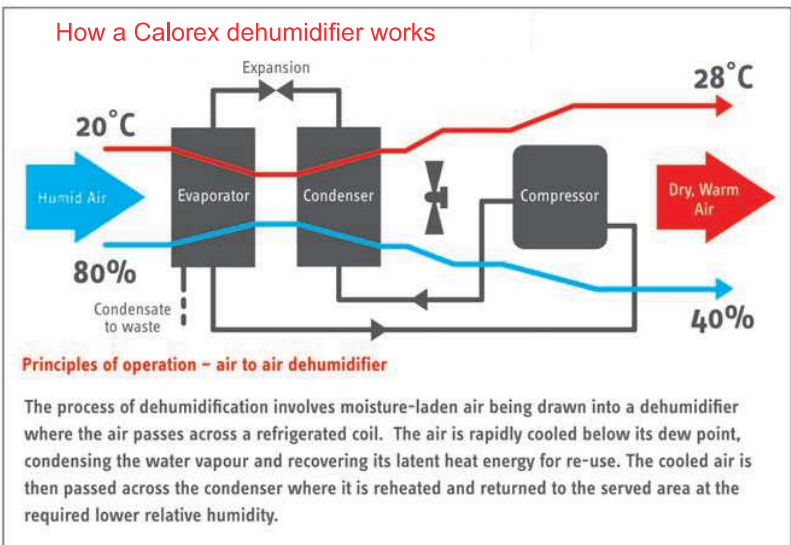
Porta-Dry Dehumidifiers are specifically designed for mobile dehumidification and are built to withstand the rigours of construction sites and hire-related wear and tear. They are supported by a nationwide service network and technical support team to ensure the correct product is selected for your needs

Available options: condensate pump kit, humidistat and hours-run meter.

### Drying by Dehumidification

Dehumidifiers are the only method of positively removing moisture in a controllable, efficient manner from a space, and at a speed that can be dictated to suit the application.

During building construction, dehumidifiers can be used to accelerate the rate of drying wet processes such as concrete floors and plaster, not only allowing the construction work to proceed more rapidly, but in a way that ensures the drying will not encourage cracking and distortion. Further, concrete floors that are dried by dehumidifiers will always settle at the correct moisture content.



# Porta-Dry 300

- CFC free - Porta-Dry uses R407°C
- Wide temperatures from to 0°C - 40°C - hot gas defrost supplied with Porta-Dry units
- Non-marking wheels - no tyre marks left on floors
- High efficiency rotary compressor
- Fully mobile - fitted with robust heavy duty castors
- High level condensate drain



PD300 Dehumidifier in operating position

## Technical data

### Capacities

Maximum  
Nominal 20°C/70%RH  
Nominal 30°C/80%RH

### Electrical data

Voltage (AX model)  
Dual voltage option (AJX model)  
Recommended supply fuse (A)  
Recommended size of dual voltage transformer  
Nominal power consumption

### Fan

Air flow

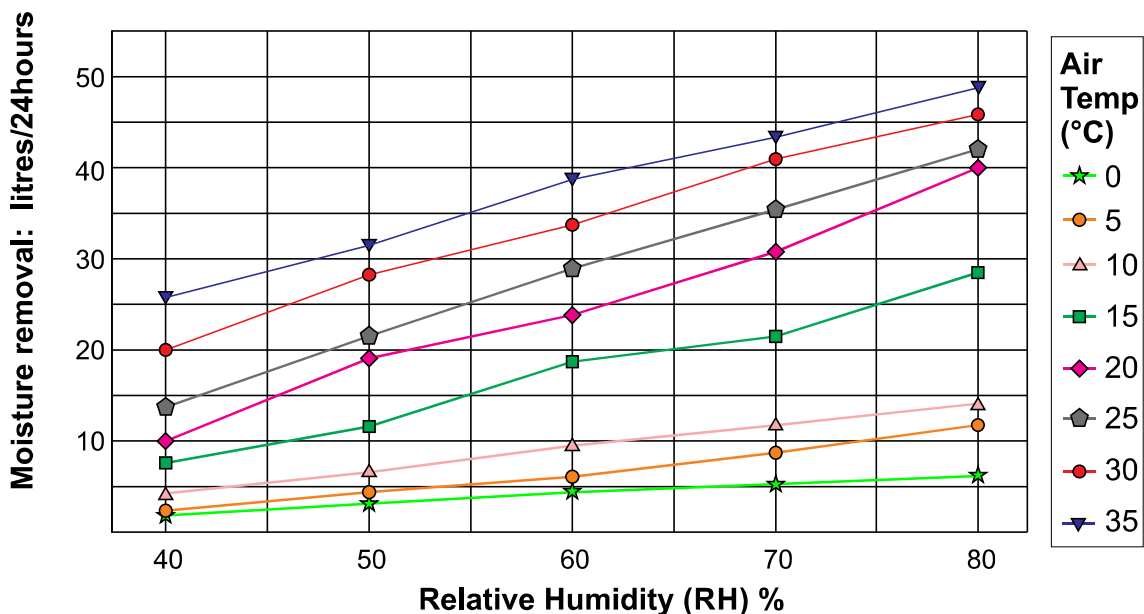
### Sizing

Internal temperature greater than 15°C  
Internal temperature less than 15°C

### Dimensions

Height x width x depth  
Weight

Units	Porta-Dry 300
l/day	53
l/day	31
l/day	46
V/Hz	230/1ph/50
V/Hz	110/230/1ph/50
A	13
VA	800
kW	0.65
m <sup>3</sup> /h	380
m <sup>3</sup>	350
m <sup>3</sup>	300
mm	820 x 363 x 365
kg	38



# Porta-Dry 600

- CFC free - Porta-Dry uses R407°C
- Wide temperatures from to 0°C - 40°C - hot gas defrost supplied with Porta-Dry units
- Design allows storage/transport upright or flat
- High efficiency rotary compressor
- Fully mobile - robust site wheels & handle
- High level condensate drain



PD600 Dehumidifier in operating position

## Technical data

### Capacities

Maximum  
Nominal 20°C/70%RH  
Nominal 30°C/80%RH

### Electrical data

Voltage (AX model)  
Dual voltage option (AJX model)  
Recommended supply fuse (A)  
Recommended size of dual voltage transformer  
Nominal power consumption

### Fan

Air flow

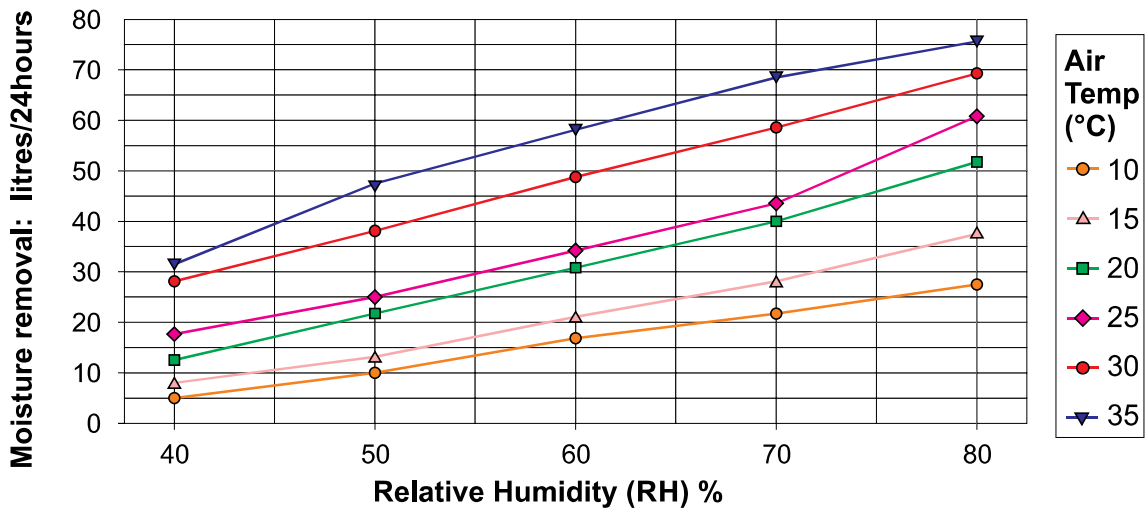
### Sizing

Internal temperature greater than 15°C  
Internal temperature less than 15°C

### Dimensions

Height x width x depth  
Weight

Units	Porta-Dry 600
l/day	100
l/day	46
l/day	70
V/Hz	230/1ph/50
V/Hz	110/230/1ph/50
A	13
VA	1400
kW	1.07
m <sup>3</sup> /h	750
m <sup>3</sup>	700
m <sup>3</sup>	600
mm	1020 x 360 x 585
kg	65



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