



## Dehumidifiers

Take control of humidity and condensation with our leading range of dehumidifiers

### Get In Touch

 Call: [0845 6880112](tel:08456880112)  
 Email: [info@adremit.co.uk](mailto:info@adremit.co.uk)

### Our Address

Puravent, Adremit Limited, Unit 5a, Commercial Yard,  
Settle, North Yorkshire, BD24 9RH





**CALOREX DEHUMIDIFIERS**

# The challenge

Atmospheric air contains moisture which is a problem to materials and manufacturing processes.

**Calorex dehumidifiers are ideal for:**

- Cold stores
- Utility buildings
- Computer rooms
- Switching and power stations
- Electronics production
- Pharmaceutical production
- Manufacturing areas
- Process drying
- Bottling and food plants
- Archives, museums and libraries
- Sports halls
- Wet clothes drying rooms
- Ice rinks
- Boiler rooms
- Ship building and offshore
- Underground rooms
- Drying flooded areas or new buildings
- Preservation of buildings, plant, ships, drilling platforms and turbines
- Applying industrial coatings
- Maintaining bridges and locks

**Protect your environment**

Even when you cannot see it, moisture in the form of water vapour is all around us, held in suspension in the air. The relative humidity of the air in many cases determines the extent of corrosion of certain materials, the speed at which moulds develop and the rate of increase of bacteria that cause decay. Most materials and goods are best stored under cool dry conditions.

**A false economy**

Traditionally the problem was disguised by the use of heat or ventilation. This process is exceptionally energy inefficient and reliant on introducing outside air that is generally not suitable unless expensively heated. Drying by traditional heating involves continuously warming a stream of outside air on a constant 'in and out' cycle.

**The challenges of excess moisture:**

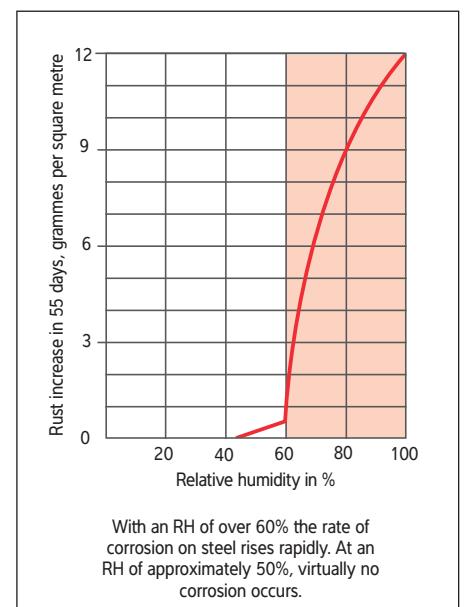
- Corrosion
- Product deterioration
- Condensation
- Damp
- Mould and mildew
- Prolonged drying
- Manufacturing delays
- Discomfort

.....

Heating and ventilation is extremely energy inefficient and expensive. Luckily a solution does exist to make the air drier without heating – Calorex dehumidification

.....

**Corrosion speed of steel**



**Relative humidity**

Relative humidity (RH) is the expression used to define how much water vapour can be held in the air at a given temperature as a percentage of what it could contain at saturation (100% RH). That is when the relative humidity reaches the level at which air can hold no more moisture. The maximum amount can vary according to its temperature – warmer air is capable of holding more moisture than colder air.



**Get In Touch**

Call: 0845 6880112  
 Email: [info@adremit.co.uk](mailto:info@adremit.co.uk)

**Our Address**

Puravent, Adremit Limited, Unit 5a, Commercial Yard, Settle, North Yorkshire, BD24 9RH

# The solution

The Calorex answer to this problem is its wide range of dehumidifiers suitable for every environment from warehouses and sub-stations to museums and garages.

## A better way

Dehumidification is much more sophisticated than heating. It recirculates the same air and physically removes moisture from it. This alleviates the need to continuously reheat incoming air. Not only that, a dehumidifier will cleverly convert energy taken out of the room as moisture (latent energy), to create 'sensible energy' that can be used to heat the room, accelerating the drying process.

### Maintain storage conditions for:

- Vehicles
- Metals
- Chemical/technical materials
- Electronic and electrical components
- Hygroscopic substances
- Sugar, salt, coffee, cocoa, herbs, tea etc.
- Timber
- Furniture
- Ceramics & textiles
- Paper and cardboard boxes
- Beers, wines & spirits
- Flowers and plants
- Livestock and zoo animals
- Military plant and equipment

## Problem solved

Our wide range of units and operating temperatures ensure there is a system to fit every need. From high tech problems requiring sophisticated 'total loss' or 'keep dry recirculation' systems to a simple off the shelf mobile dehumidifier to plug in and go - Calorex are unique problem solvers in their field.

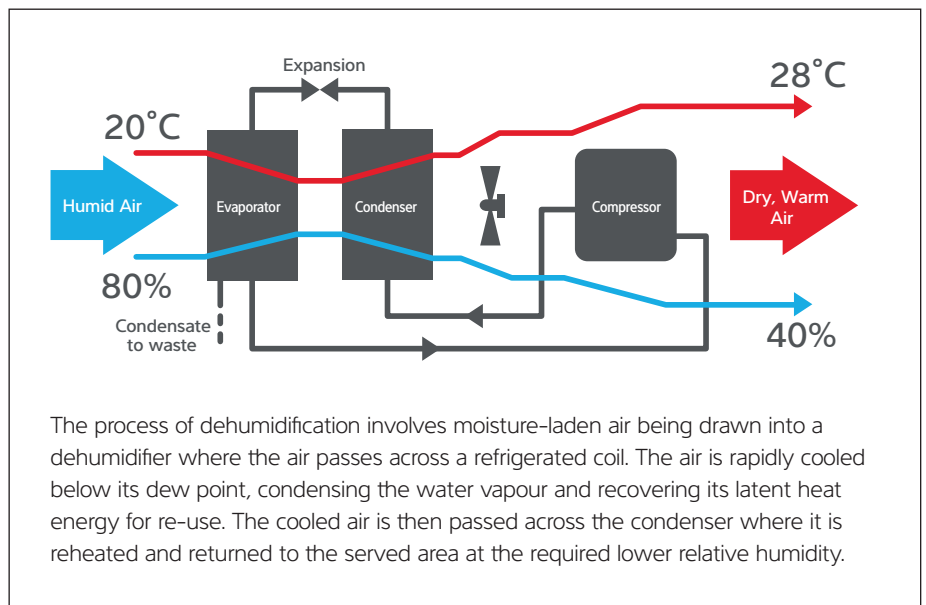
Calorex is the world's leading designer and manufacturer of industrial and commercial dehumidifiers



## Key benefits of a Calorex dehumidifier:

- Flexible design for simple use and installation
- Energy efficient
- Low temperature operation
- Available with air heating option
- Automatic operation
- Quality construction
- Optional features
- Heat recovery to air

## How a Calorex dehumidifier works



### Get In Touch

Call: 0845 6880112  
Email: [info@adremit.co.uk](mailto:info@adremit.co.uk)

### Our Address

Puravent, Adremit Limited, Unit 5a, Commercial Yard, Settle, North Yorkshire, BD24 9RH

# Wall mounted OTW15

Wall mounted compact dehumidifiers.

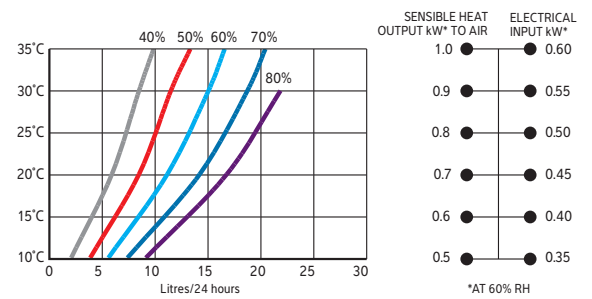
- ✓ Especially for use in:
    - Public buildings
    - Changing rooms
    - Store rooms and stairwells
    - Cellars and basements
- ✓ Self contained with fully automatic operation
  - ✓ Integral humidistat
  - ✓ Tamper proof controls
- ✓ Epoxy polyester painted zintec steel cabinet
  - ✓ Hot gas defrost for low temperature operation
  - ✓ Air filter

## Technical data

Specifications	Units	OTW15AX
<b>Performance</b>		
Operating temperature range	°C	0-35
Dehumidification @ 30°C/60% RH	kg/24h	15
Heat recovered to air @ 30°C/60% RH	kW	0.9
Air flow	m <sup>3</sup> /h	225
External static pressure	Pa	0
Sound pressure level @ 3m	dB(A)	53
Refrigerant		R407c
<b>Electrical data</b>		
Supply	V/ph/Hz	230/1N/50
Nominal power consumption	kW	0.43
FLA	Amp	3.8
Maximum supply fuse	Amp	10
LRA (compressor start)	Amp	18
<b>Dimensions</b>		
Width	mm	825
Depth	mm	363
Height	mm	320
Weight	kg	33
Condensate drain size (flexible plastic hose)	mm ID	10

## Performance data

### OTW15



The OTW15 is tamper proof – ideal for use in public buildings

Free advice from staff qualified by years of experience and strong technical knowledge

## Options

- Through the wall version

### OTW15



Calorex reserve the right to modify this specification at any time

## Get In Touch

- ☎ Call: [0845 6880112](tel:08456880112)
- ✉ Email: [info@adremit.co.uk](mailto:info@adremit.co.uk)

## Our Address

Puravent, Adremit Limited, Unit 5a, Commercial Yard, Settle, North Yorkshire, BD24 9RH

# Wall mounted DH30/60

Wall mounted compact dehumidifiers with air heating options.

- ☑ Ideal for dehumidification in:
    - Clothes drying rooms
    - Warehousing and storage
    - Electrical sub-stations
    - Sports clubs and changing rooms
- ☑ Self contained with fully automatic operation
  - ☑ Integral humidistat
  - ☑ Polyester coated evaporator and condenser
- ☑ Plastisol coated galvanised steel cabinet
  - ☑ Hot gas defrost for low temperature operation (X models)
  - ☑ Quiet centrifugal fans

## Technical data

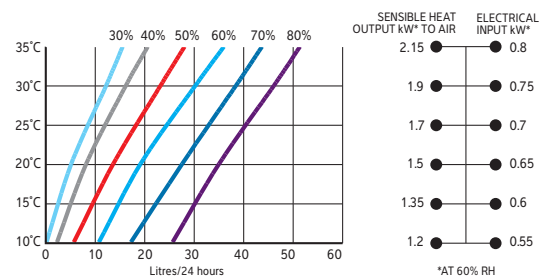
Specifications	Units	DH30A/ DH30AX	DH30AP/ DH30AXP	DH60A/ DH60AX	DH60AP/ DH60AXP
<b>Performance</b>					
Operating temperature range	°C	15-35/ 0-35	15-35/ 0-35	15-35/ 0-35	15-35/ 0-35
Dehumidification @ 30°C/60% RH	kg/24h	30	30	60	60
Heat recovered to air @ 30°C/60% RH	kW	1.9	1.9	3.5	3.5
Air flow	m³/h	700	700	1280	1280
External static pressure	Pa	0	0	0	0
Sound pressure level @ 3m	dB(A)	52	52	54	54
Refrigerant		R407c	R407c	R407c	R407c
<b>Electrical data</b>					
Supply	V/ph/Hz	230/1N/50	230/1N/50	230/1N/50	230/1N/50
Dehumidifier power input	kW	0.75	0.75	1.2	1.2
FLA	Amp	4.4	12.7	7.5	24.2
Maximum supply fuse	Amp	10	20	13	32
LRA (compressor start)	Amp	15.8	15.8	30.0	30.0
<b>Heater</b>					
Type		Optional LPHW	Standard Electric	Optional LPHW	Standard Electric
Heat output	kW	3.0	2.0	5.0	4.0
Flow rate	l/min	5.0	-	5.0	-
<b>Dimensions</b>					
Width	mm	782	782	1247	1247
Depth	mm	270	270	270	270
Height	mm	648	648	648	648
Weight	kg	40	40	60	60
Condensate drain size (flexible plastic hose)	mm ID	16	16	16	16

## Options

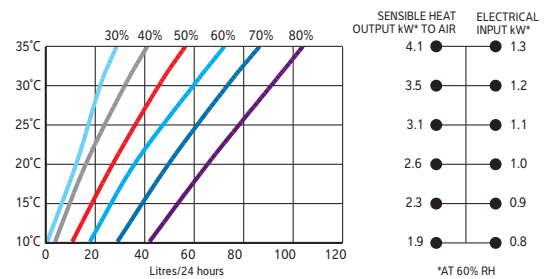
- Through the wall version
- Electric air heater
- LPHW air heater
- Remote humidistat

## Performance data

### DH30



### DH60



### DH30/DH60



Calorex reserve the right to modify this specification at any time

## Get In Touch

Call: 0845 6880112  
Email: [info@adremit.co.uk](mailto:info@adremit.co.uk)

## Our Address

Puravent, Adremit Limited, Unit 5a, Commercial Yard, Settle, North Yorkshire, BD24 9RH



# High capacity DH75/110

Floor standing high performance dehumidifiers with additional air heating options.

- ☑ For a wide range of applications:
    - Warehousing and storage
    - Museums and art galleries
    - Offices and archives
    - Sports halls and gyms
- ☑ Self contained with fully automatic operation
  - ☑ Integral humidistat
  - ☑ Polyester coated evaporator and condenser
- ☑ Stove enamelled aluminium cabinet
  - ☑ Hot gas defrost for low temperature operation
  - ☑ Quiet centrifugal fans

## Technical data

Specifications	Units	DH75AX	DH110AX	DH110BX
<b>Performance</b>				
Operating temperature range	°C	5-35	5-35	5-35
Dehumidification @ 30°C/60% RH	kg/24h	86	108	108
Heat recovered to air @ 30°C/60% RH	kW	4.0	5.2	5.2
Air flow	m <sup>3</sup> /h	1180	1180	1180
External static pressure	Pa	0	0	0
Sound pressure level @ 3m	dB(A)	53	53	53
Refrigerant		R407c	R407c	R407c
<b>Electrical data</b>				
Supply	V/ph/Hz	230/1N/50	230/1N/50	400/3N/50
Nominal power consumption	kW	1.5	2.1	2.0
FLA	Amp	9.5	12	5.5
Maximum supply fuse	Amp	13	20	10
LRA (compressor start)	Amp	55	66	30
<b>Heater</b>				
Type		Optional LPHW	Optional LPHW	Optional LPHW
Heat output @ 80°C flow	kW	8.9	8.9	8.9
Flow rate	l/min	9.6	9.6	9.6
<b>Dimensions</b>				
Width	mm	1520	1520	1520
Depth	mm	385	385	385
Height	mm	796	796	796
Weight	kg	143	144	144
Condensate drain size (brass compression)	mm	15	15	15

## Options

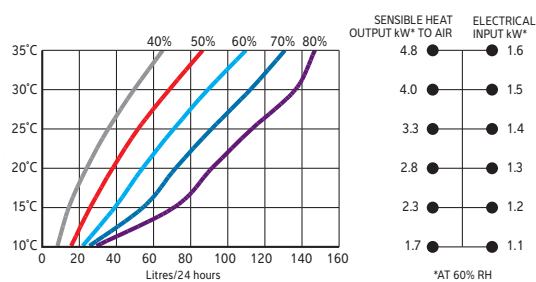
- Through the wall version
- LPHW air heater
- Remote humidistat

## DH75/DH110

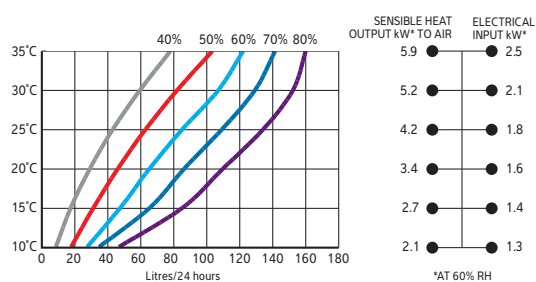


## Performance data

### DH75



### DH110



Calorex reserve the right to modify this specification at any time

## Get In Touch

Call: 0845 6880112  
 Email: [info@adremit.co.uk](mailto:info@adremit.co.uk)

## Our Address

Puravent, Adremit Limited, Unit 5a, Commercial Yard, Settle, North Yorkshire, BD24 9RH

# High capacity DH150/300/600

Floor standing high performance dehumidifiers for commercial premises and industrial environments.

- ✓ Humidity and dew point control for:
    - Warehousing and equipment storage
    - Metal and spare parts storage
    - Electrical sub-stations
    - Museums and furniture storage

  - ✓ Self contained with fully automatic operation
  - ✓ Integral humidistat
  - ✓ Polyester coated evaporator and condenser

  - ✓ Plastisol coated galvanised steel cabinet
  - ✓ Hot gas defrost for low temperature operation (X models)
  - ✓ Reverse cycle defrost for very low temperature operation (Y models)

## Technical data

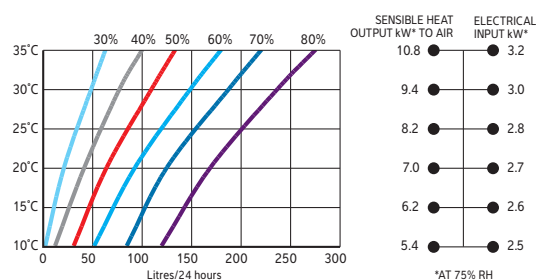
Specifications	Units	DH150AX	DH150BX	DH300BY	DH600BY
<b>Performance</b>					
Operating temperature range	°C	0-35	0-35	-15-35	-15-35
Dehumidification @ 30°C/60% RH	kg/24h	150	150	300	600
Heat recovered to air @ 30°C/60% RH	kW	7.4	7.4	14.7	29.7
Air flow	m <sup>3</sup> /h	2500	2500	5000	9000
External static pressure	Pa	0-200	0-200	60	80
Sound pressure level @ 3m	dB(A)	58	58	66	63
Refrigerant		R407c	R407c	R407c	R407c
<b>Electrical data</b>					
Supply	V/ph/Hz	230/1N/50	400/3N/50	400/3N/50	400/3N/50
Nominal power consumption	kW	2.5	2.5	6.7	10.0
FLA	Amp	21	11	19	26
Maximum supply fuse	Amp	30	16	24	35
LRA (compressor start)	Amp	61	30	101	135
LRA (compressor soft-start)	Amp	28	13	34	55
<b>Heater</b>					
Type	Optional	Top box Electric	Top box Electric	-	-
Heat output	kW	9	9	-	-
Power supply	V/ph/Hz	230/1N/50	400/3N/50	-	-
FLA	Amp	36	12	-	-
Maximum fuse size	Amp	50	16	-	-
<b>Dimensions</b>					
Width	mm	660	660	980	1730
Depth	mm	660	660	826	1250
Height	mm	1313	1313	1475	1600
Weight	kg	130	130	220	497
Condensate drain size (flexible plastic hose)	BSPM	¾	¾	1½	1½

## Options

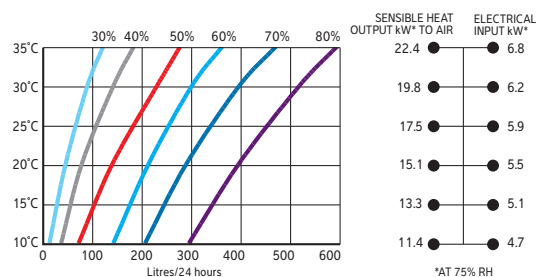
- Top or rear fan outlet
- High pressure fan (standard on DH150)
- Return air filter
- Condensate pump
- Compressor soft start
- Top discharge box with heater options
- LPHW heater
- Heat recovery to water
- External condenser unit
- Remote humidistat

## Performance data

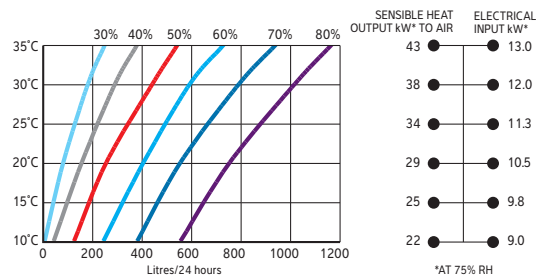
### DH150



### DH300



### DH600



### DH150/DH300/DH600



Calorex reserve the right to modify this specification at any time

## Get In Touch

Call: 0845 6880112  
Email: [info@adremit.co.uk](mailto:info@adremit.co.uk)

## Our Address

Puravent, Adremit Limited, Unit 5a, Commercial Yard, Settle, North Yorkshire, BD24 9RH