



calorex®

Drying rooms

Dehumidifiers for the armed forces and coastguards

CALOREX DEHUMIDIFIERS

Dehumidification for drying rooms

Calorex dehumidifiers provide an energy-efficient alternative to having just a heated drying room. They are a preferred cheaper option for modular buildings, fire stations/fire training centres, lifeboat stations, offices, outdoor pursuit centres, armed forces bases and many other similar establishments.

Why Calorex?

With over 20 years of experience developing dehumidifiers specifically for drying rooms, Calorex is the number one go to company for any size drying room facility. Calorex is renowned for its innovation, range and quality of products with an expert sales and services team dedicated to meeting our customer's requirements. Our presence is international with thousands of Calorex units operating in over 40 countries worldwide.

How a Calorex dehumidifier works

The high-performance dehumidifiers recirculate the air and physically remove moisture from it. This alleviates the need to continuously reheat incoming air. Not only that, the units convert energy taken out of the room as moisture to provide useful heat to warm the room, accelerating the drying process.

Cost savings

Calorex dehumidifiers provide an efficient and cost effective alternative to drying using heat alone. The potential energy savings are huge as every unit of energy that a Calorex dehumidifier consumes, it will convert 2.5 times this amount to usable heat. In fact, compared to traditional heat and ventilation energy, cost savings of 75% are not unusual.



Installation

You can turn any room into a drying room just by using a Calorex dehumidifier. Installations can be straightforward, as it only requires positioning, connecting a power supply and drain. The units have combined heating and drying so there is no need for separate heaters, thermostats, fans and extraction systems.

Our sales team can

- Provide sizing guidelines
- Provide dehumidifiers suitable for every size of drying room
- Provide measuring equipment

Features

- High performance level, even in unheated rooms
- Powerful centrifugal fan
- Professional hot gas automatic defrost
- Automatic hygrostat controlled dehumidification
- Can connect to an external condensation drain or condensate pump
- Self contained

Applications

- Modular portable buildings
- Electrical sub-stations
- Archives and libraries
- Basements and cellars
- Sports clubs and changing rooms
- Warehousing and storage
- Museums and art galleries
- Public buildings and offices
- Garages and car storage facilities

Calorex manufactures dehumidifiers in a range of sizes from the smaller wall unit to the large floor standing industrial sized system. Whatever you need, Calorex will have the solution.

All products are supported by an in-house applications department and nationwide service network.



A Calorex DH60 installed in the drying room of Orpington fire station

DH60

DH30

DH30/60

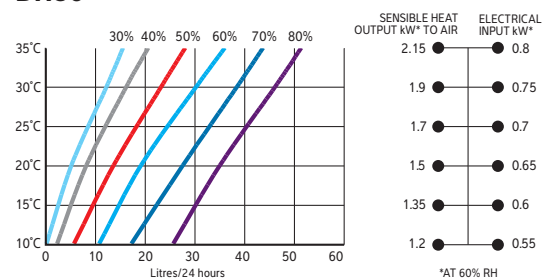
Wall mounted compact dehumidifiers with air heating options.

Technical data

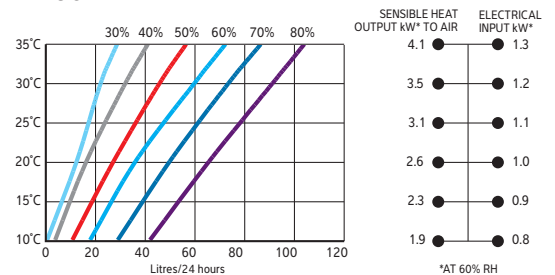
Specifications	Units	DH30A/ DH30AX	DH30AP/ DH30AXP	DH60A/ DH60AX	DH60AP/ DH60AXP
Performance					
Operating temperature range	°C	15-35/ 0-35	15-35/ 0-35	15-35/ 0-35	15-35/ 0-35
Dehumidification @ 30°C/60% RH	kg/24h	30	30	60	60
Heat recovered to air @ 30°C/60% RH	kW	1.9	1.9	3.5	3.5
Air flow	m ³ /h	700	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
Electrical data					
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
Heater					
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	-
Dimensions					
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

Performance data

DH30



DH60



Options

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

DH150

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

Technical data

Specifications	Units	DH150AX	DH150BX
Performance			
Operating temperature range	°C	0-35	0-35
Dehumidification @ 30°C/60% RH	kg/24h	150	150
Heat recovered to air @ 30°C/60% RH	kW	7.4	7.4
Air flow	m³/h	2500	2500
External static pressure	Pa	0-200	0-200
Sound pressure level @ 3m	dB(A)	58	58
Refrigerant		R407c	R407c
Electrical data			
Supply	V/ph/Hz	230/1N/50	400/3N/50
Nominal power consumption	kW	2.5	2.5
FLA	Amp	21	11
Maximum supply fuse	Amp	30	16
LRA (compressor start)	Amp	61	30
LRA (compressor soft-start)	Amp	28	13
Heater			
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
Dimensions			
Width	mm	660	660
Depth	mm	660	660
Height	mm	1313	1313
Weight	kg	130	130
Condensate drain size (flexible plastic hose)	BSPM	¾	¾



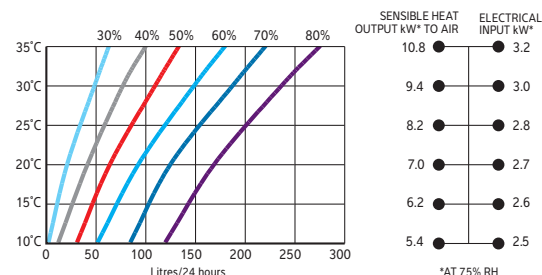
DH150



For other specifications you can use our **NEW** online sizing tool at www.calorex.com or contact us at sales@calorex.com

Performance data

DH150



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

Sizing guide

Typical unit selections for a fire station drying room

Heavy duty clothing

Dehumidifier model	Number of people using drying room
OTW15	Approx. 6-7 sets of clothing
DH30	Approx. 12-15 sets of clothing
DH60	Approx. 25-30 sets of clothing

Normal duty clothing

Dehumidifier model	Number of people using drying room
OTW15	Approx. 9-10 sets of clothing
DH30	Approx. 18-22 sets of clothing
DH60	Approx. 37-45 sets of clothing

These unit selections are based on the following assumptions:

- Drying time – overnight period of 12-16 hours
- Room temperature – heated to a minimum of 18°C
- Ventilation – no additional mechanical ventilation

* small extract fan to be fitted for dilution of odours

