

SWIMMING POOL DEHUMIDIFIERS

When moisture is left unchallenged, this can present a major problem for an indoor pool.

Not only does it create an uncomfortable atmosphere for swimmers and bathers, but the growth of mould is encouraged and structural damage can leave your pool area looking less than luxurious. Our pool dehumidifiers physically remove moisture from the air to ensure the environment stays controlled and your home pool projects are protected.



DEHUMIDIFICATION SOLUTIONS FOR: PRIVATE AND COMMERCIAL SWIMMING POOLS

QUICK GUIDE



DH 30-60 MTW

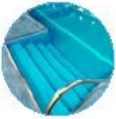


DH 75-110AX



VARIHEAT SYSTEMS

POOL TYPE



INDOOR



INSTALLATION



WALL-MOUNTED



THROUGH-THE-WALL



FLOOR-STANDING



DUCTED



APPLICATIONS



PRIVATE POOLS



SPA & THERAPY



HOLIDAY PARKS &
CAMPSITES



HOTELS, SCHOOLS &
HEALTH CLUBS



WALL-MOUNTED SWIMMING POOL DEHUMIDIFIERS CALOREX DH 30-60 MTW

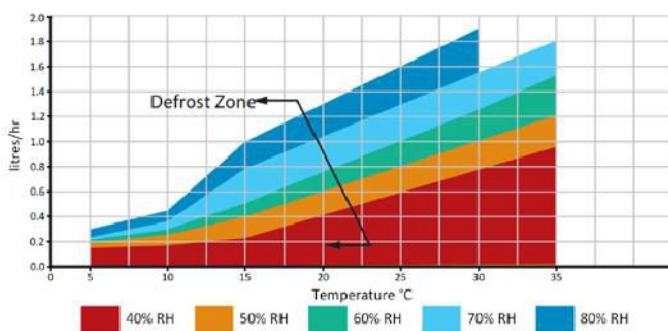


DH 30-60 MTW

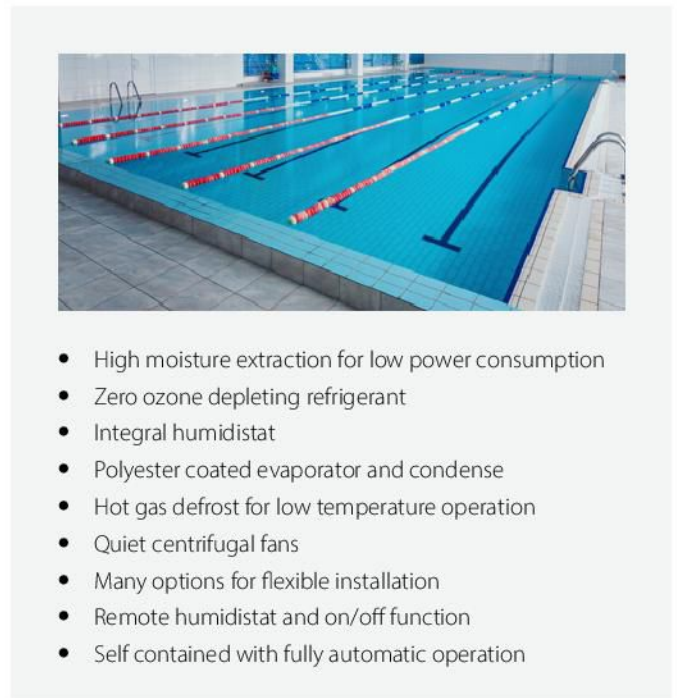
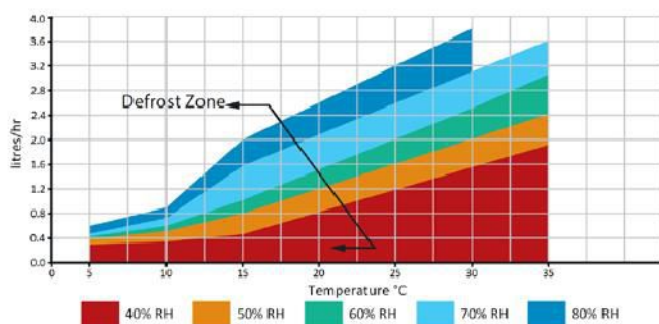
The compact DH 30 MTW and 60 MTW are high performance, low cost wall-mounted dehumidifiers with optional integrated air heating. The units have been designed for small swimming pools or spas and stand out for their ability to maintain a comfortable humidity, minimise condensation and keep heating costs low.

Performance data

DH 30 MTW



DH 60 MTW



- High moisture extraction for low power consumption
- Zero ozone depleting refrigerant
- Integral humidistat
- Polyester coated evaporator and condense
- Hot gas defrost for low temperature operation
- Quiet centrifugal fans
- Many options for flexible installation
- Remote humidistat and on/off function
- Self contained with fully automatic operation

Options

- Through-the-wall version with optional water heater
- Floor stand kit
- Electric heater

WALL-MOUNTED SWIMMING POOL DEHUMIDIFIERS CALOREX DH 30-60 MTW



Specifications	Units	DH 30AX-MTW	DH 60AX-MTW
Operating temperature range	°C	0-35	0-35
Dehumidification @ 30°C/60% RH	l/24h	30	60
Heat recovered to air @ 30°C/60% RH	kW	1.9	3.5
Air flow	m³/h	490	720
Sound pressure level @ 3m	dB(A)	52	54
Refrigerant		R407C	R407C
R407C gas weight/CO ₂ equivalent	kg/t	0.5/0.89	0.8/1.42
Power supply	V/Hz	230/1ph/50	230/1ph/50
Dehumidifier power input	kW	0.75	1.2
FLA	A	4.4	7.5
Maximum supply fuse	A	10	13
LRA (compressor start)	A	15.8	30
Heater type		Optional Electric	Optional Electric
Heater output	kW	2.0	4.0
Product size (w x d x h)	mm	782 x 270 x 648	1247 x 270 x 648
Weight	kg	40	60
Condensate drain size, ID (flexible plastic hose)	mm	16	16

FLOOR-STANDING SWIMMING POOL DEHUMIDIFIERS

CALOREX DH 75-110AX



DH 110

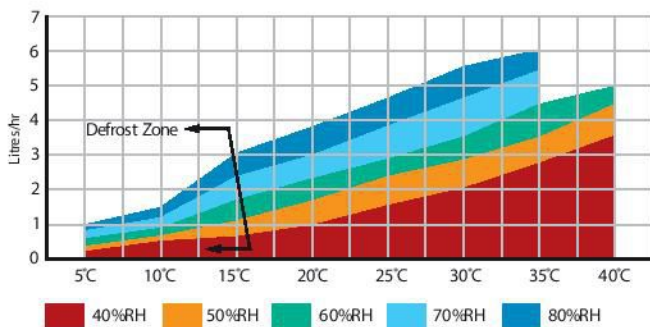
DH 75-110AX are floor-standing high performance and high capacity dehumidifiers. With high moisture extraction for low energy use, as well as being corrosion free and easy to clean, they are ideal for keeping your swimming pool environment healthy and the humidity under control. Options are also available for additional air heating, and through-the-wall installation that can be situated adjacent to the pool hall.



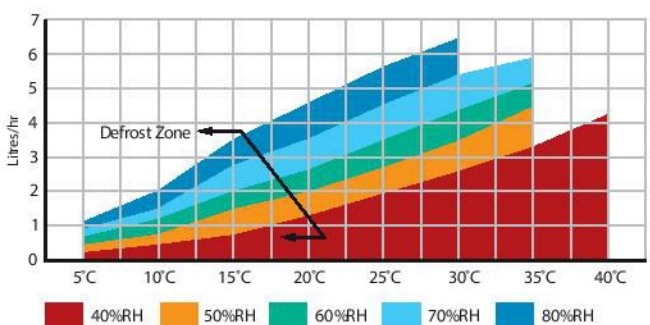
- High moisture extraction for low power consumption
- Corrosion free, easy to clean aluminium air grille with easy clean air filter
- Low internal operating pressures = long useful life
- Adjustable air outlet
- Quiet centrifugal fans, two speeds
- Hot gas defrost (allows operation to 5°C air temperature)
- Remote humidistat and on/off function

Performance data

DH 75



DH 110



Options

- Through-the-wall version
- LPHW air heater complete with 3 way valve and 12V thermostat interlock
- 400V-3ph option for DH 110

Each Calorex unit includes an adjustable humidistat controlling relative humidity (RH) in the ideal range of 55% – 65%. With RH under control, condensation can be minimised by selecting the most appropriate installation from the schematics shown on the next page. Note: vulnerable areas such as windows, roof lights or other cold bridges may form condensation at low external air temperatures unless dry air is blown directly onto them.

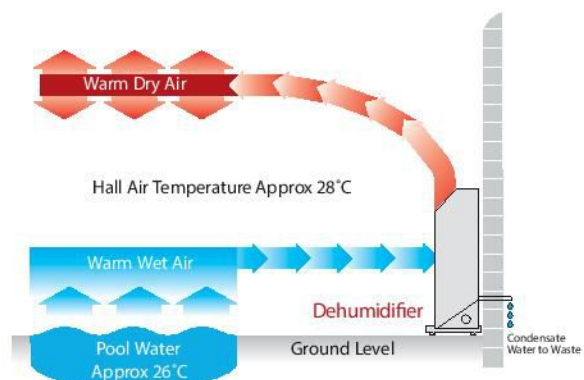


FLOOR-STANDING SWIMMING POOL DEHUMIDIFIERS CALOREX DH 75-110AX

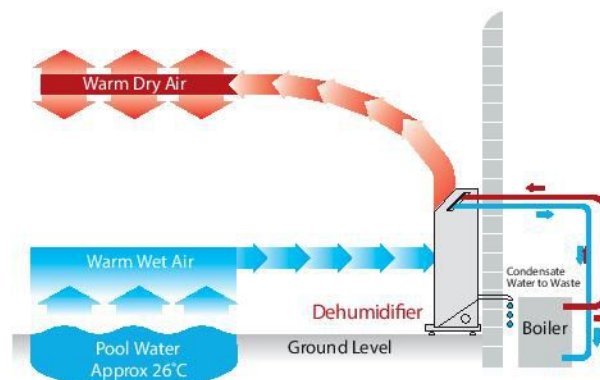


INSTALLATION OPTIONS

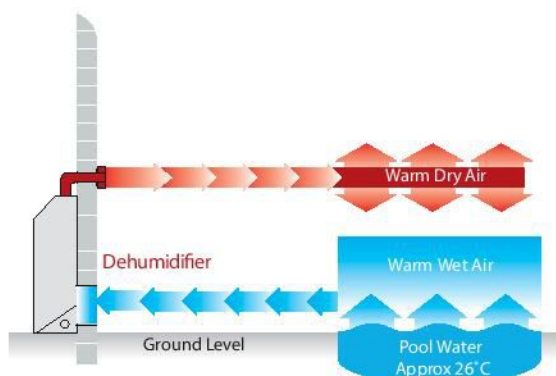
Floor-standing air flow



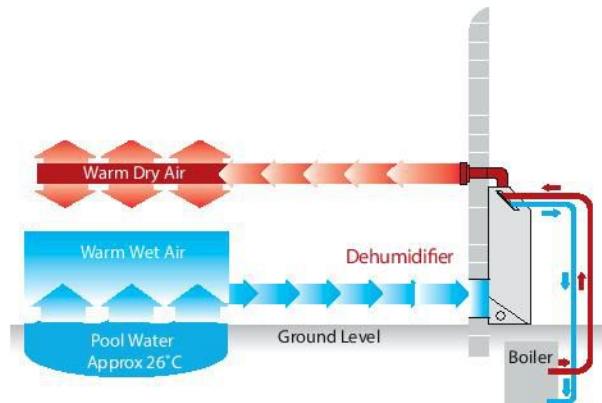
Floor-standing with air heating



Through-the-wall



Through-the-wall with air heating



Specifications	Units	DH 75AX	DH 110AX
Operating temperature range	°C	5-35	5-35
Dehumidification @ 30°C/60% RH	l/h	3.6	4.5
Heat recovered to air @ 30°C/60% RH	kW	4.0	5.2
Air flow	m³/h	1,180	1,180
External static pressure	Pa	0	0
Sound pressure level @ 3m	dB(A)	53	53
R407C gas weight/CO2 equivalent	kg/t	2/3.55	2/3.55
Power supply	V/Hz	230/1ph/50	230/1ph/50
Nominal power consumption	kW	1.5	2.1
FLA	A	9.5	12
Maximum supply fuse	A	13	20
LRA (compressor start)	A	55	66
Heater type		Optional LPHW	Optional LPHW
Heat output @ 80°C flow	kW	8.9	8.9
Flow rate	l/min	9.6	9.6
Product size (w x d x h)	mm	1520 x 385 x 796	1520 x 385 x 796
Weight	kg	143	144
Condensate drain size (brass compression)	mm	15	15



AW 1200



- Pool hall dehumidification
- Dynamic heat pump heat recovery to pool and air
- Constant flow EC fan (models 600, 900, 1200)
- Speed controllable EC fan (model 1500)
- PLC control with 3.5" touchscreen user interface
- Remote monitoring/control

AA+LPHW models add:

- Integral LPHW heat exchanger for air heating

AW models add:

- Dynamic heat pump heat recovery to pool and air
- Integral LPHW heat exchangers for pool and air

The Variheat range are sophisticated air handling units incorporating heat pump dehumidification technology. With dynamic heat recovery using a heat pump, the Variheat is the essential choice for a domestic or light commercial indoor swimming pool. Over 3000 configurations offer the ultimate flexibility for tight plant room spaces. This range is purpose designed for swimming pool environmental control, providing the necessary comfort, moisture related structural protection and economical operation.

Options

- Fresh air module
- Upgraded LPHW heat exchanger for air
- Electric resistance air heaters (6/12/18kW)

Electrical heater option notes

- In lieu of LPHW heat exchangers
- 6kW or 12kW is available for 600 and 900 models
- 12kW or 18kW is available for 1200 and 1500 models



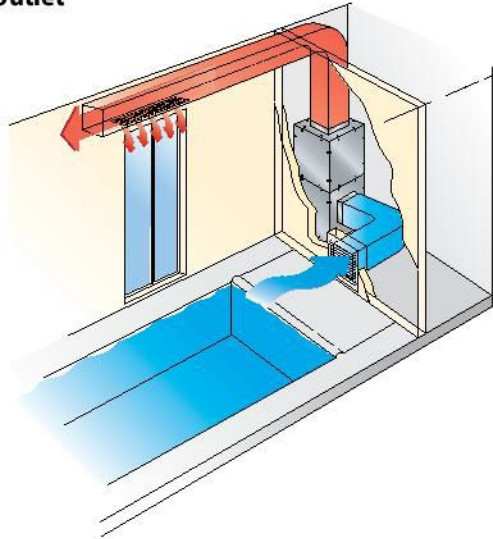
Variheat touchscreen controls

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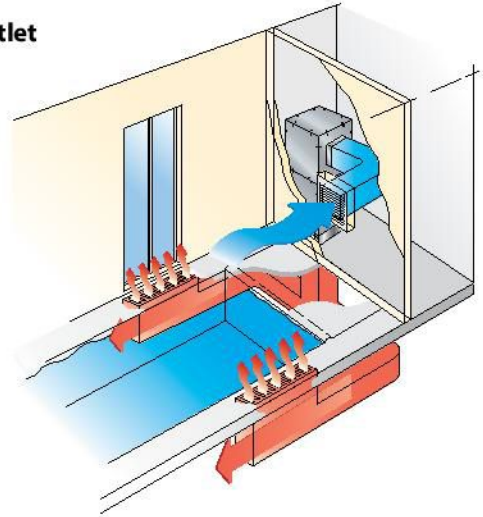


INSTALLATION OPTIONS

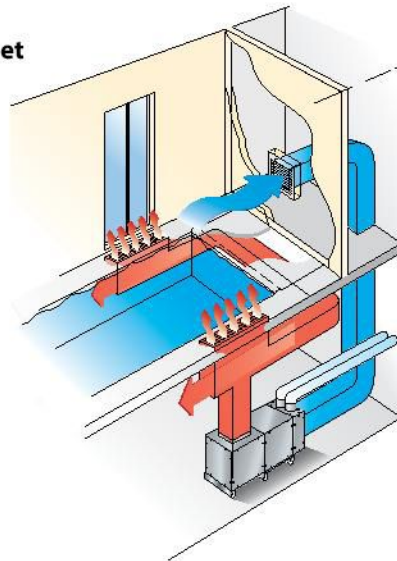
Top outlet



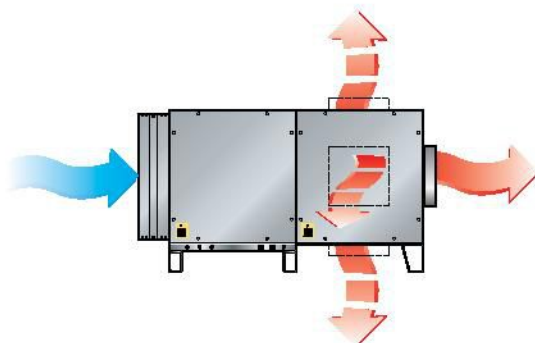
Bottom outlet



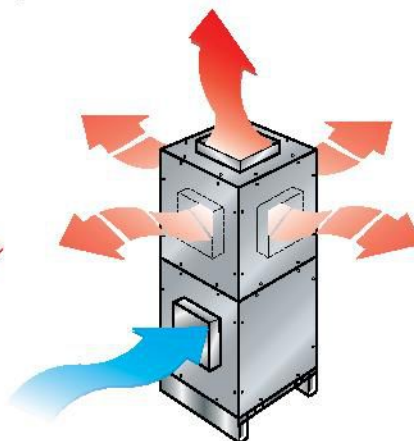
Basement outlet



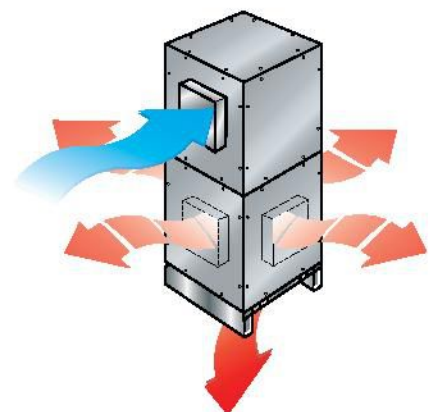
Horizontal outlet



Top outlet

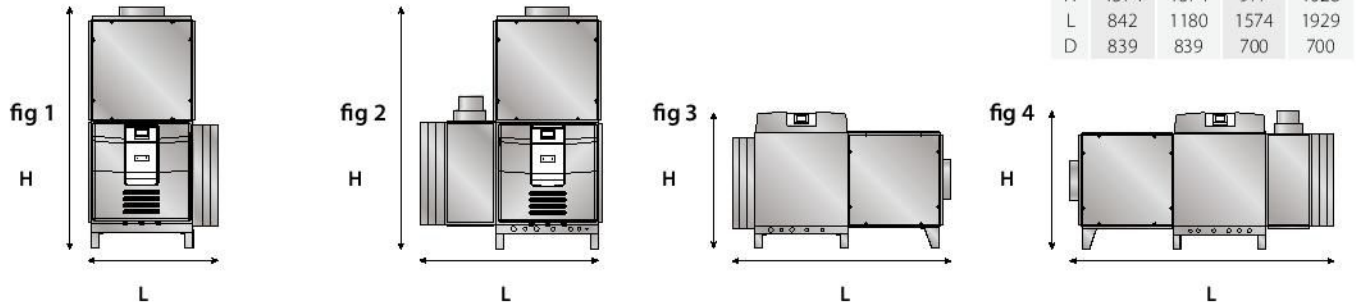


Bottom outlet

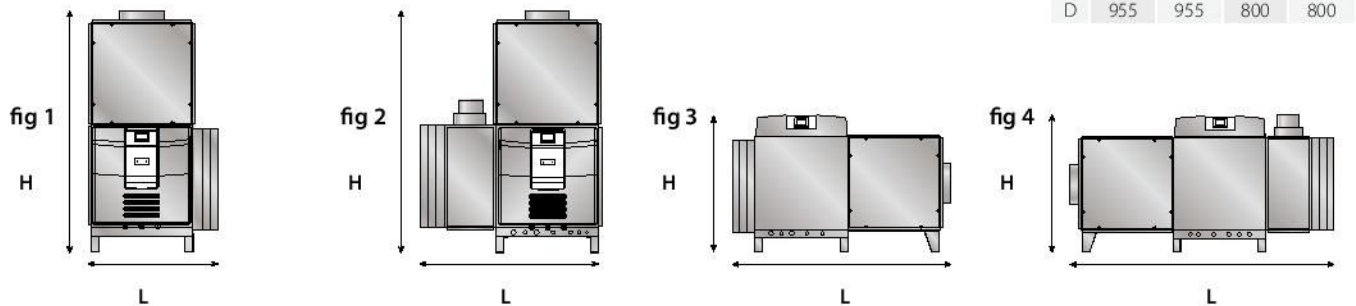


CONFIGURATIONS

Variheat 600/900



Variheat 1200/1500



Example configurations are shown but there are over 3000 configurations available offering the ultimate flexibility for tight plant room spaces. This range is purpose designed for swimming pool environmental control, providing the necessary comfort, moisture related structural protection and economical operation.



Specifications	Units	AW 600	AA 600	AW 900	AA 900	AW 1200	AA 1200	AW 1500	AA 1500
Air flow	m ³ /h	2,000	2,000	2,500	2,500	3,500	3,500	4,300	4,300
External available static pressure	Pa	330	330	220	220	290	290	350	350
Fresh air flow (option)	m ³ /h	0-900	0-900	0-900	0-900	0-900	0-900	0-900	0-900
External available static pressure	Pa	100	100	100	100	100	100	100	100
Dehumidification @ 30°C/60% RH	l/h	4.6	4.6	6.5	6.5	8.5	8.5	10.5	10.1
Dehumidification @ 30°C/70% RH	l/h	5.5	5.5	7.8	7.8	10.8	10.8	13.2	13.2
Heat to air									
Net via heat pump (Mode B)	kW	5.1	5.1	7.1	7.1	10.0	10.0	14.0	14.0
Via standard LPHW @ 80°C	kW	11.0	11.0	13.5	13.5	24.0	24.0	28.0	28.0
Max. available (Mode B + standard LPHW)	kW	14.0	14.0	18.6	18.6	30.0	30.0	36.0	36.0
Via upgraded LPHW @ 55°C	kW	9.4	9.4	11.5	11.5	20.4	20.4	23.8	23.8
Max. available (Mode B + upgraded LPHW)	kW	12.7	12.7	16.9	16.9	27.0	27.0	36.8	36.8
Heat to water									
Net via heat pump (Mode A)	kW	5.5	0	7.4	0	10.0	0	12.5	0
Via LPHW @ 80°C	kW	18.0	0	30.0	0	30.0	0	40.0	0
Max. available (Mode A + LPHW)	kW	23.5	0	37.4	0	40.0	0	52.5	0
Refrigerant		R454C	R454C	R454C	R454C	R407C	R407C	R407C	R407C
Gas weight/CO2 equivalent	kg/t	1.8/0.26	1.8/0.26	2.0/0.29	1.85/0.27	2.85/5.06	2.7/4.79	3.0/5.32	2.65/4.70
Nominal power consumed	kW	2.1	2.1	2.8	2.8	2.9/5.14	2.9/5.14	3.0/5.32	3.0/5.32

AW denotes heat recovery to air/water and LPHW heaters for air/water
AA denotes heat recovery to air and optional LPHW heater for air only