



Humidity control and energy saving for indoor pools and spas

Dehumidifier Models 44 and 66



calorex elegantly controlling humidity and saving energy

The attractive and timeless design of Calorex 44 and 66 conceals a super quiet, high efficiency dehumidification technology which adapts perfectly to the demands of different pool types and configurations. Calorex helps you in two ways – it protects your pool environment and reduces your costs!

Why dehumidify?

An indoor swimming pool is a wonderful leisure and exercise environment but the evaporation from the water surface poses real problems for the building structure. Prolonged exposure to high humidity causes walls, decorative finishes and roofs to deteriorate rapidly. Care must be taken to use correct materials and techniques for the building and a Calorex dehumidifier which will continuously remove excess humidity from the air. Bathes appreciate comfortable humidity in the range 55%-65%.

Energy Saving

Removing humidity from the air enables the Calorex to absorb latent energy and return it to the pool air as useful air heating. Its heat pump technology converts 2.5kW to air heating for every 1kW of electricity consumed – a real bonus to running costs!

Each unit is supplied complete with 2 installation kits so that the best choice of position can be made.

Wall mount - with wall bracket, fixings, and vibration isolation.

Floor mount - with feet which are adjustable in height and are vibration isolated.

The position of the air outlet grille is adjustable to permit horizontal or vertical airflow.

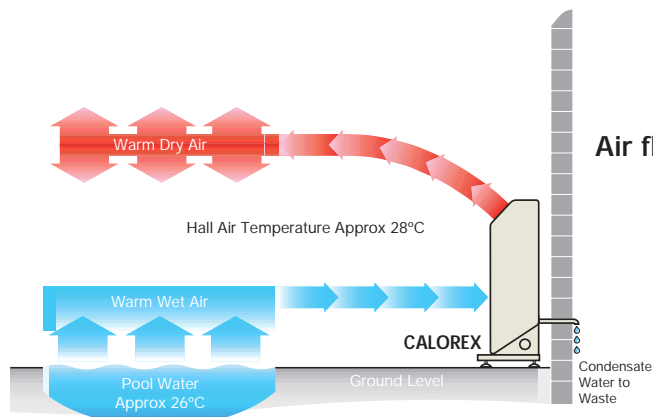


Calorex 44 model

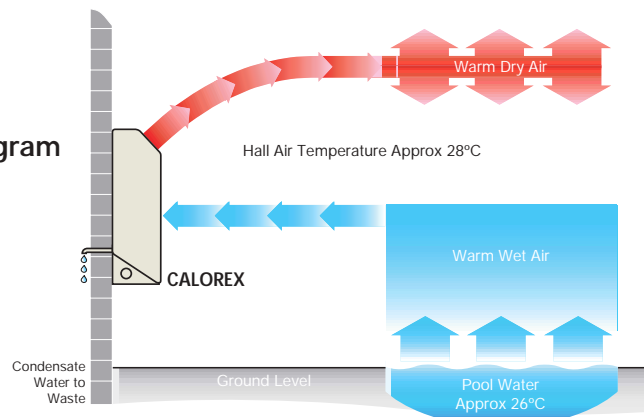


Humidistat control

FLOOR STANDING AIR FLOW DIAGRAM



WALL MOUNTED AIR FLOW DIAGRAM



Air heating

Models 44 and 66 can provide pool hall primary air heating when fitted with optional low pressure hot water batteries (LPHW). Connection of the Calorex to a hot water supply from a boiler permits the dehumidifier to distribute warm air as well as dehumidified air around the pool hall. Selecting this option usually eliminates the need for separate fan heaters or radiators. The DH44/66 provide 3 & 5 kW of air heating respectively.

Calorex LPHW units are supplied with a three way valve internally mounted and wired for control by an optional 12V thermostat. Electric air heating is also available, providing 2kW and 4kW of heat respectively.

Through the wall

When it is more convenient to mount the Calorex units in a plant room adjacent to the pool hall, the TTW variant provides all necessary items including wall grilles and air turning ducts. LPHW option is available with TTW.

Defrost

For maximum operating capacity over a wide range of temperatures the 44/66 are able to operate down to 5°C thus allowing users to reduce the pool hall air temperatures over covered pools during periods of non-use without losing the protection of their dehumidification system. A big plus for the energy conscious!

Condensate connection

Condensate connections can be made on either side of the Calorex - the drip tray is removable for cleaning.

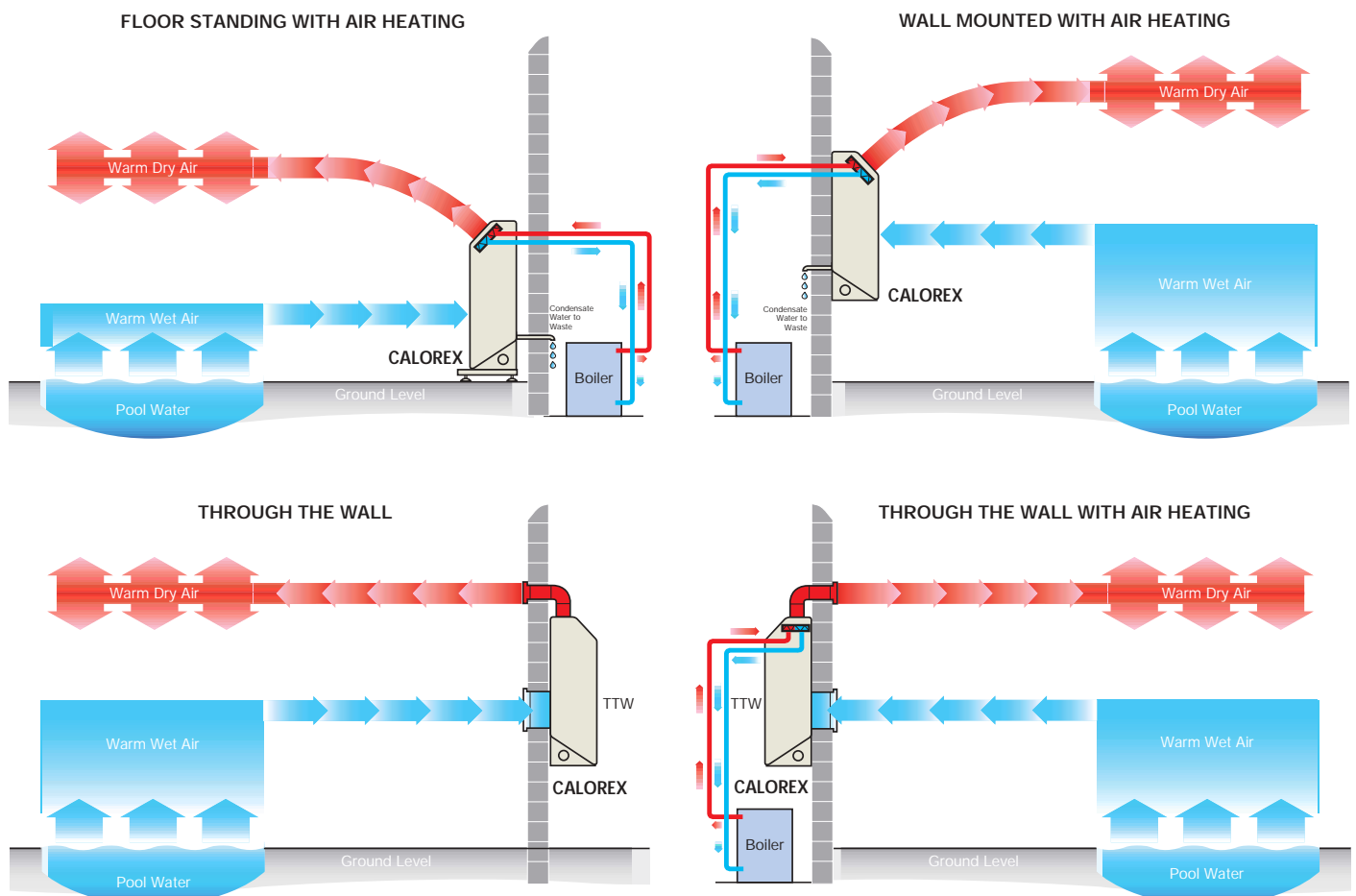
Instructions and controls

Installation of the two units and their TTW variants should be carried out in accordance with the current electrical regulations governing swimming pools. DH44/66 are certified to IP45 and may be fitted adjacent to the pool provided that they are located no closer than 2 metres from the waters edge and are fitted with an earth leakage circuit breaker.

Each unit is equipped with a built in humidistat providing all the required control to operate the dehumidifier. The client may prefer to fit a remote 12V humidistat - the connection terminals are already provided in the machine cabinet for easy connection.

Where LPHW option is specified the client must fit a remote thermostat 12V to control operation of the three way valve - the connection terminals are already provided. Clients can choose whether the fan runs permanently or only when the compressor operates. Fan operation is controlled automatically when LPHW option fitted.

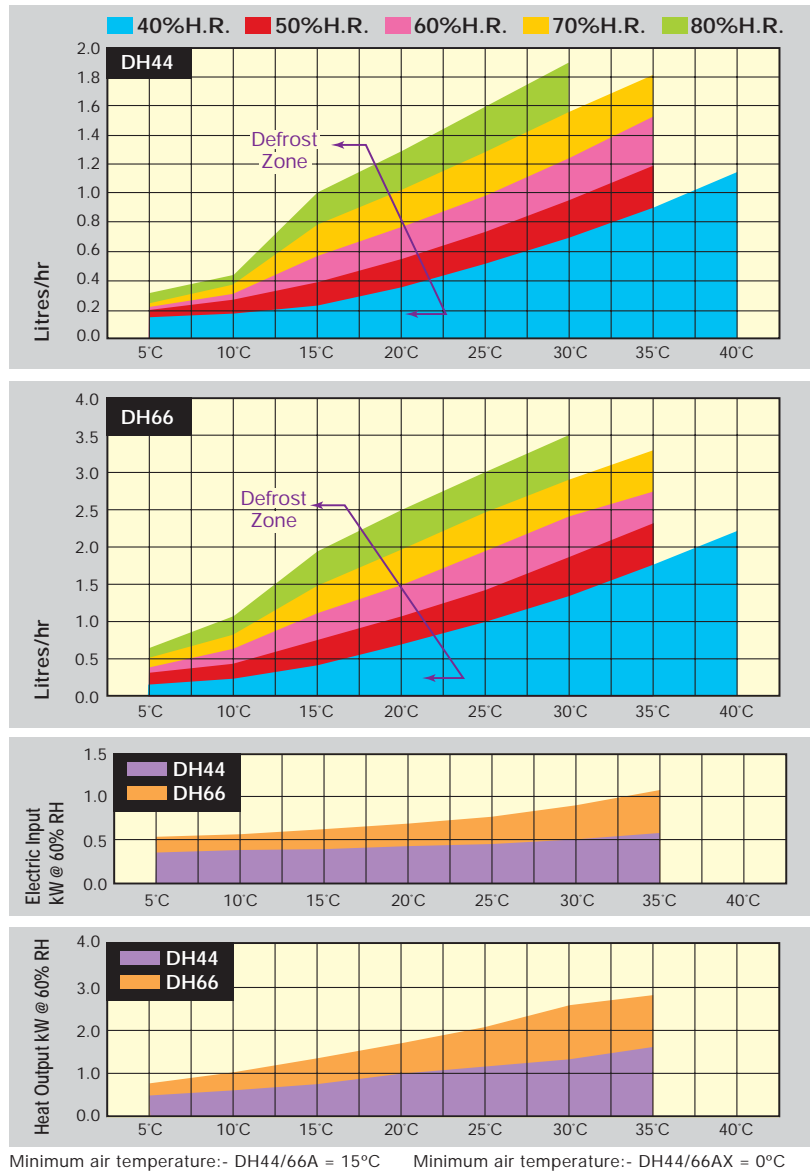
Calorex can supply individual or combined controls for remote operation of the 44/66 units.



Our product is our reputation. And both are the best.

Calorex DH44/66 technical specifications

- High moisture extraction for low power consumption - the Calorex bonus
- Corrosion free, easy to clean aluminium cover with easy-clean air filter. All heat exchange surfaces polyester coated
- Super quiet operation, scroll compressor
- Zero ozone depletion refrigerant
- Low internal operating pressures ensure long useful life
- High/low pressure and delay timer protections
- Air outlet adjustable to horizontal or vertical
- 'X' option provides automatic low temperatures operation to 0°C
- LPHW option complete with 3 way control valve and thermostat connection terminals
- Condensate connection at either side, drip tray removable for cleaning
- Remote humidistat and thermostat options



| MODEL | | DH44 | DH66 |
|---|--------------------|----------|----------|
| Water removal @ 30°C/60%RH | l/hr | 1.25 | 2.41 |
| Water removal @ 30°C/70%RH | l/hr | 1.58 | 2.82 |
| Air flow | m ³ /hr | 440 | 740 |
| Power absorbed | kW | 0.51 | 0.98 |
| Nominal amps | A | 2.6 | 4.2 |
| Power supply | V/ph/H | 230/1/50 | 230/1/50 |
| Heat recovered | kW | 1.6 | 3.0 |
| LPHW battery (kW) (water at 80°C) optional | kW | 3.3 | 5.8 |
| Condensate pipe | Ø mm | 19 | 19 |
| Temperature operating range | * °C | 17-35 | 17-35 |
| Maximum sound level @ 1m | dB(A) | 42 | 44 |
| Dimensions (mm) std model (unpacked) | | | |
| Width | mm | 880 | 1345 |
| Depth | mm | 340 | 340 |
| Height | mm | 1000 | 1000 |
| Weight | kg | 57 | 74 |

* 'X' option 0°C - 35°C



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