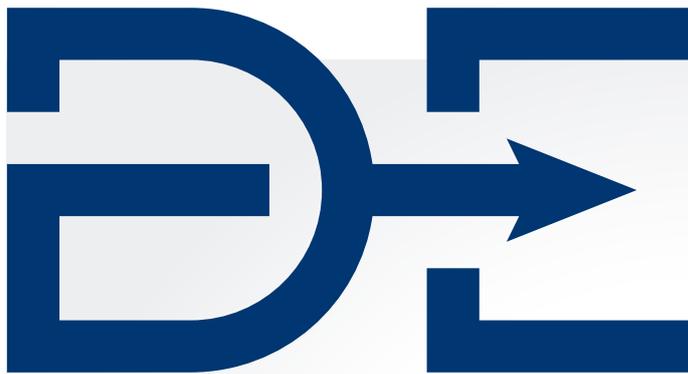


DH dehumidifiers

Horizontal units for use in pools, sports complexes, leisure centres, spas or health resorts



DEHUMIDIFIER
UNITS



DH dehumidifiers are units with a heating pump and a Free Cooling outside air heat recovery stage

The water vapour that is generated through natural evaporation in any application where a high level of humidity is present causes damage to construction materials and furniture in the surrounding area and also has adverse effects on personnel that are present inside the space. In accordance with RITE, the air extracted from an indoor pool must be recovered at a rate of 9 m³/h for each m² of pool.



OPTIONS

- Control built-in to the unit.
- UVc germicidal chamber.
- Different filtering stages and characteristics.
- Hatches module with heat recovery unit.
- Different communication protocols.

MAIN CHARACTERISTICS

- Flow rates from 3,000 m³/h to 17,000 m³/h.
- Plug Fan EC Fans.
- Extruded aluminium profile with thermal bridge break.
- Rubber seal for water-tight panels.
- 25 to 45 mm thick sandwich type panels with a lacquered outer panel.
- Evaporator with direct expansion exchanger, copper pipes and aluminium fins with a special anti-corrosive finish.
- Condenser with exchanger and cooling circuit that uses hermetic scroll compressors.
- High-efficiency cross-flow heat recovery units.
- Filtering stages for retaining particles.
- Built-in electrical panel.
- Support frames adapted to the needs of the installation.

STANDARD FINISHES

- Galvanised steel interior.
- Lacquered sheet exterior.
- Aluminium modular structure.

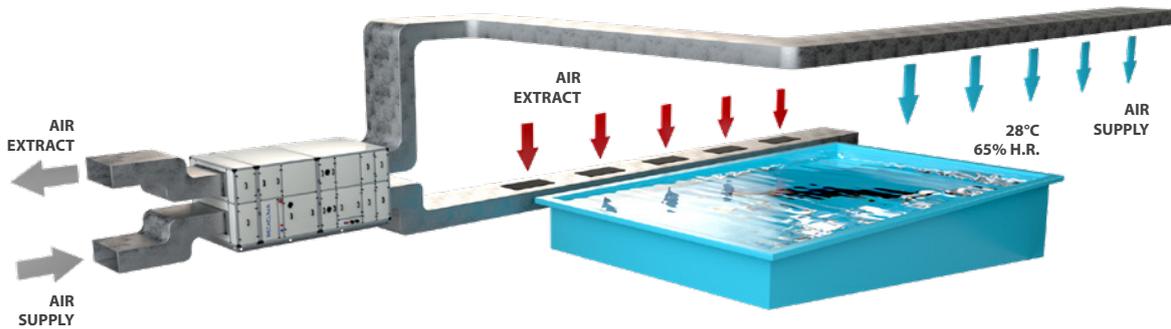
OPERATION

DH dehumidifiers have been designed for controlling the heating and dehumidifying of a space, ensuring the necessary air is renewed as well as a good quality air that is ideal for keeping personnel comfortable as well as ensuring the durability of construction materials and furniture.

These units are designed to create a machine with a fully independent operation including all the necessary features for reaching and maintaining the pre-set comfort conditions.

DH dehumidifiers are capable of maintaining the desired temperature and humidity values in any installation such as indoor pools or sports complexes, including a hot water coil to raise the temperature of the air and a cooling circuit that is used to dehumidify while also heating the air.

The units incorporate a cross-flow heat recovery unit to improve the efficiency of the machine.



CONSTRUCTIVE DETAILS

EXTERNAL PANELS

Sandwich type panels with a steel surface finish and polyurethane foam interior of a thickness between 25 mm and 45 mm depending on the size. Designed to achieve an optimum thermal insulation with thermal conductivity values of 0.024 w/m°C and also ensuring a great acoustic insulation with a great mechanical strength is achieved.

HOT WATER COIL

Coil with heat exchangers via the energy provided by the hot water generated by a boiler.

EXTERNAL STRUCTURE

Extruded aluminium profiles with nylon corners to ensure a perfect closure



FILTERS

Filtering stages for capturing particles is required in order to improve the conditions of the indoor air and improve the health of personnel breathing this air.

COOLING CIRCUIT

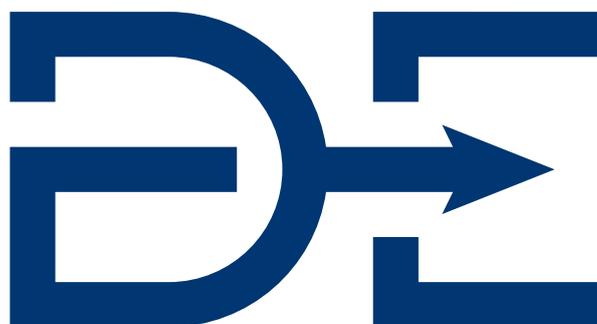
Cooling circuit comprised of a sealed or semi-sealed compressor with internal protection and evaporator battery and condenser made of copper pipes and aluminium fins.

CONTROL

Different controllers and communication protocols may be used depending on the needs of each installation.

REFRIGERATION BATTERIES

They are heat exchangers used for transferring energy to or from the air. Using R410A refrigerant gas we can provide the energy required for heating and cooling the air through its stage changes.



INNOVATION IN AIR CONDITIONING
AND AIR QUALITY EQUIPMENT

DECACLIMA

DECACLIMA COMFORT SOLUTIONS, S.L.
Avda. del Castell, 31
08570 Torelló (Barcelona)
Tel. +34 930 130 703
info@decaclima.com
www.decaclima.com

SODECA Group