

The problem

An indoor swimming pool is a source of tranquillity and relaxation and may not be a source of annoyance. However, due to the difference between the pool water and the ambient air, the relative humidity can increase to 95% and even more. This will cause fungus, discoloring and other inconveniences.

The solution

A professional dehumidifier that dehumidifies, heats and ventilates the ambient air sufficiently fast. The AIRMASTER works according to a cooling unit principle: a fan sucks in humid, warm air which is lead over a cold evaporator where the air is cooled to a temperature under the dew point. The moisture condenses and will be evacuated. The dried reheated air will be blown back in the room.

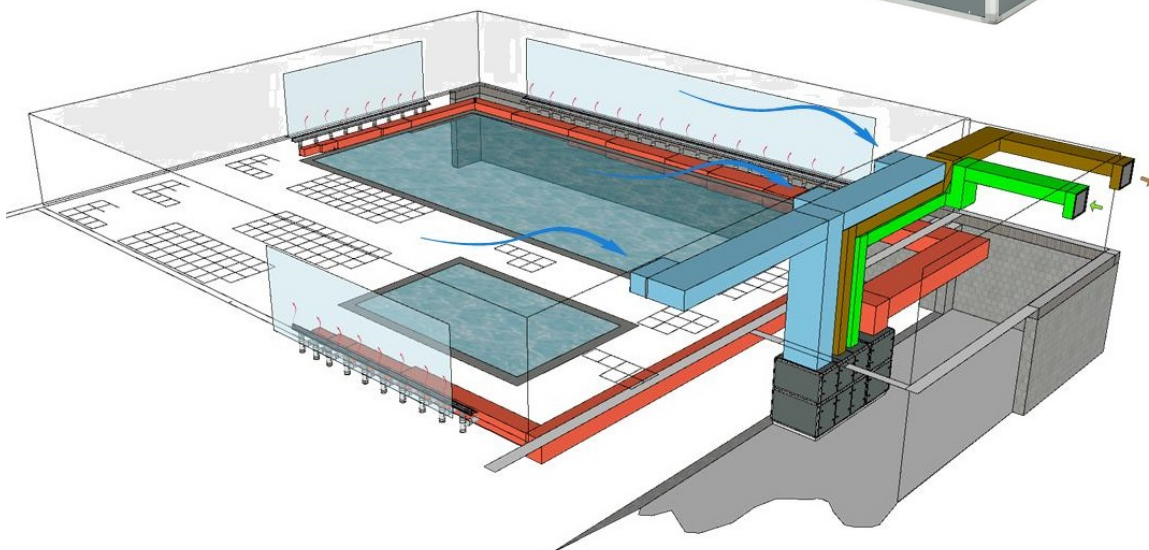
AMKMU+ duct unit

For public applications.

With modulating pre-programmed control. These units with an optional air mixing section provide air dehumidification, either by means of refrigeration drying or by a combination of refrigeration and « free drying », which results in a lower and more rational energy consumption.

For pool areas of 3000 up to 6000 m³.
Ontvochtigingscapaciteit van 960 tot 3000 l/24 h.

A duct unit is installed in a technical room, silent and invisible in the pool area. The only visible elements are the grates – suction and outlet – that are integrated in the floor and the ceiling.



Options

According its size, each unit can be provided with several interchangeable options, which - like the basic unit - are adapted to the needs and wishes of the end user and in the first instance are meant to create an optimal life comfort.

- LPHW B4R which can be provided with a modulating built-in three way valve
- Swimming pool condenser that will discharge excessive heat to the pool water
- Outdoor execution

| Vac/ph/Hz = 400/3/50 | | 960 | 1150 | 1400 | 2000 | 3000 |
|----------------------------------|-----------------------------------|-------|-------|-------|-------|--------|
| Air flow | 20000 m ³ /h = .../200 | • | • | • | | |
| | 24000 m ³ /h = .../240 | • | • | • | • | |
| | 36000 m ³ /h = .../360 | | | | • | • |
| BASIC UNIT | | | | | | |
| Dehumidification capacity * | gr/h | 40400 | 47400 | 50750 | 94500 | 147500 |
| Rated current | 3 x 400 V A/ph | 31,6 | 63,4 | 44,4 | 66,6 | 95,4 |
| Maximum working range at 70% RH | °C | 34 | | | | |
| Minimum working range at 50% RH | °C | 21 | | | | |
| SWIMMING POOL CONDENSER C | | | | | | |
| Output | kW | 42 | 60 | 74 | 83 | 126 |

* At 30 °C AT° and 70% RH

Under restriction of modifications

| | | .../200 | .../240 | .../360 |
|------------------------------------|-------------------|-----------|-----------|-----------|
| Air flow | m ³ /h | 2 x 10000 | 2 x 12000 | 3 x 12000 |
| Conveying height | Pa | 560 | 540 | 540 |
| Dimensions | L mm | 5200 | 5350 | 5350 |
| | D mm | 2200 | 2200 *** | 3300 |
| | H mm | 2200 | 3350 *** | 3050 |
| HOT WATER BATTERY B | | | | |
| Rated output * B4R | kW | 285 | 343 | 506 |
| AIR MIXING SECTION | | | | |
| Extra dehumidification capacity ** | gr/h | 54394 | 64359 | 98850 |
| Air flow | m ³ /h | 2 x 5000 | 3 x 4000 | 4 x 4500 |
| Conveying height | Pa | Max 350 | Max 320 | Max 350 |

* At 80/60 °C WT° and 20 °C AT° ** Dates at 7 °C AT° and 80% RH *** 2000/240: D 3300 - H 2540

Under restriction of modifications