

The problem

An indoor swimming pool is a source of tranquility 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.

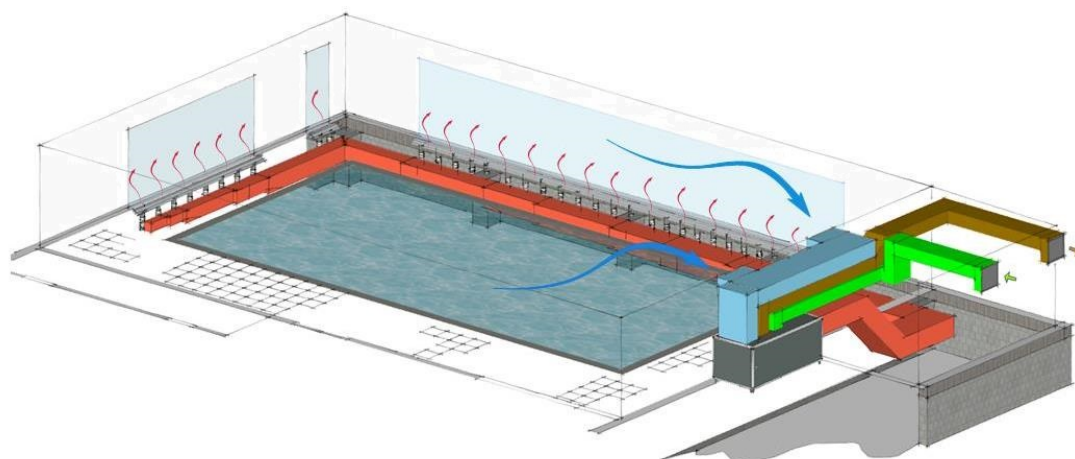
AMKMB duct unit

With modulating pre-programmed control. These units with a – standard integrated – 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 160 up to 340 m³.
Dehumidification capacity of 65 up to 140 l/24 h.



A duct unit is installed in a technical room, silent and invisible in the pool area, and consequently a dream for those who love aesthetics and design. 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 or B8R – which can be provided with a modulating built-in three way valve
- Electrical heating (BE) inclusive control
- Swimming pool condenser that will discharge excessive heat to the pool water
- Outdoor execution – horizontal as well as vertical

		Vac/ph/Hz = 400/3/50	-	100	140	
		Vac/ph/Hz = 230/1/50	65	102M	142M	
BASIC UNIT						
Dehumidification capacity *		gr/h	2791	4041	6000	
Nominal current	3 x 400 V	A/ph	-	3,3	4,1	
	1 x 230 V	A	5	5,98	8,5	
Dimensions	H	L	mm	1820	1820	
		D	mm	900	900	
		H	mm	860	860	
	V	L	mm	1200	1200	1200
		D	mm	900	900	900
		H	mm	1670	1670	1670
SWIMMING POOL CONDENSER C						
Output		kW	3,62	4,66	6,63	

* At 30 °C AT° and 70% RH

Under restriction of modifications

		1400 up to 2000 m³/h			
Air flow	m³/h	1400	1600	1800	2000
Conveying height	Pa	Max 450	Max 430	Max 400	Max 380
HOT WATER BATTERY B					
Nominal output B4R *	kW	22	24	26	28
Nominal output B8R **	kW	17	20	22	24
ELECTRICAL HEATING BE					
Output	kW	9 / 12	9 / 12	9 / 12	9 / 12
Inclusive control	Stages	2	2	2	2
Nominal current	3 x 400 V	A/ph	13,2 / 19,8	13,2 / 19,8	13,2 / 19,8
AIR MIXING SECTION UP TO 50% OUTDOOR AIR					
Extra dehumidification capacity ***	gr/h	3628	4257	4558	5422
Air flow	m³/h	700	800	900	1000
Conveying height	Pa	Max 410	Max 400	Max 380	Max 365

* At 80/60 °C WT° and 20 °C AT° ** At 60/40°C WT° and 20°C AT° *** Dates at 7 °C AT° and 80% RH

Under restriction of modifications

Minimum working range at 50% RH	10 °C
Maximum working range at 70% RH	34 °C
Control	24 VDC