

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.

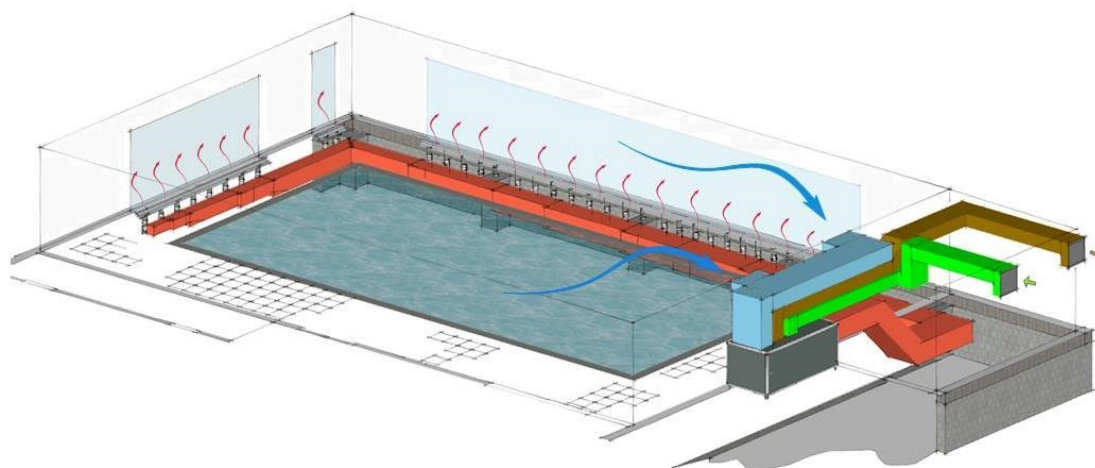
AMKMB duct unit

With modulating pre-programmed control. These units with 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 370 up to 1000 m³.
Ontvochtigingscapaciteit van 65 tot 480 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	200	280	400	480	
	Vac/ph/Hz = 230/1/50	65	102M	142M	202M	-	-	-	
Air flow	2500 m³/h = .../25	•	•	•	•				
	3600 m³/h = .../36		•	•	•	•			
	5000 m³/h = .../50		•	•	•	•	•	•	
BASIC UNIT									
Dehumidification capacity *	gr/h	2791	4041	6000	8791	11850	15700	20200	
Nominal current	3 x 400 V	A/ph	-	3,3	4,1	7,3	9,1	14,6	15,8
	1 x 230 V	A	5	5,98	8,5	16,6	-	-	-
Maximum working range at 70% RH	°C				34				
Minimum working range at 50% RH	°C	10	10	10	10	21	21	21	
SWIMMING POOL CONDENSER C									
Output	kW	3,62	4,66	6,63	7,8	12	16	20	

* At 30 °C AT° and 70% RH

Under restriction of modifications

		.../25	.../36	.../50					
Air flow	m³/h	2500	3600	5000					
Conveying height	Pa	Max 540	Max 510	Max 540					
Dimensions	H	L	mm	2300	B4R/BE	2500	B8R	2670	2900
		D	mm	900	1100	1330	1330		
		H	mm	860	860	1330	1330		
	V	L	mm	1300	1375	1320	-		
		D	mm	900	1100	1330	-		
		H	mm	1740	1670	2030	-		
HOT WATER BATTERY B									
Nominal output B4R *	kW	35	50	68					
Nominal output B8R **	kW	29	42	57					
ELECTRICAL HEATING BE									
Output	kW	9 / 14	14 / 18 / 21	14 / 18 / 21					
Inclusive control			Power control						
Nominal current	3 x 400 V	A/ph	13,2 / 19,8	19,8 / 26,5 / 30,8	19,8 / 26,5 / 30,8				
AIR MIXING SECTION									
Extra dehumidification capacity ***	gr/h	6652	9324	13438					
Air flow ***	m³/h	1250	1800	2500					
Conveying height	Pa	Max 330	Max 380	Max 305					

* 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