AIRMASTER
DEHUMIDIFIERS

AMKMU

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.

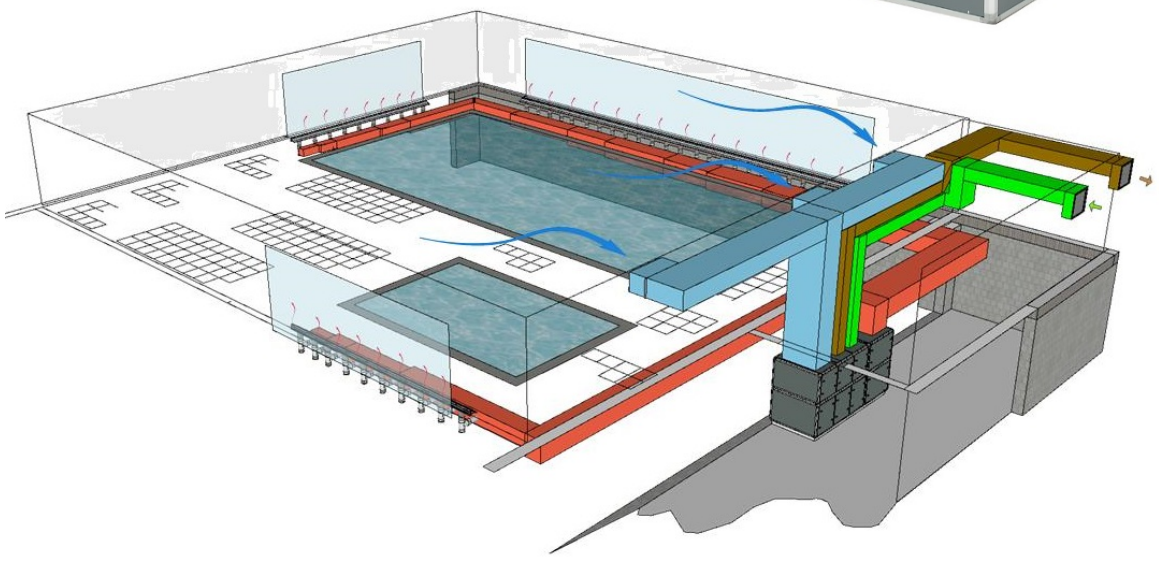
AMKMU duct unit

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 1100 up to 2500 m³.
Ontvochtigingscapaciteit van 280 tot 1150 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.



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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
- Electrical heating (BE) inclusive control
- Swimming pool condenser that will discharge excessive heat to the pool water
- Outdoor execution

	Vac/ph/Hz = 400/3/50		280	400	480	570	760	860	960	1150
Air flow		*7200 m³/h = …/72*	•	•	•	•				
		9200 m³/h = …/92		•	•	•	•	•		
		12000 m³/h = …/120			•	•	•		•	
		15000 m³/h = …/150					•	•	•	•
BASIC UNIT										
Dehumidification capacity *		gr/h	11850	15700	20200	23600	31500	35550	40400	47400
Rated current	3 x 400 V	A/ph	9,1	14,6	15,8	18,2	22,2	27,3	31,6	63,4
Maximum working range at 70% RH		°C	34							
Minimum working range at 50% RH		°C	21							
SWIMMING POOL CONDENSER C										
Output		kW	12	16	20	24	32	38	42	60

* At 30 °C AT° and 70% RH

Under restriction of modifications

			.../72	.../92	.../120	.../150
Air flow		m³/h	2 x 3600	9200	12000	15000
Conveying height		Pa	Max 510	400	400	400
Dimensions	L	mm	3300	3700	4400	4600
	D	mm	1330	1330	1500	2200
	H	mm	1700	2200	2200	2200
HOT WATER BATTERY B						
Rated output * B4R		kW	102	134	172	211
ELECTRICAL HEATING BE						
Output		kW	18 / 21 / 32	18 / 21 / 32	21 / 32	21 / 32
Inclusive control			Power control			
Rated current	3 x 400 V	A/ph	26,5 / 30,8 / 46,4	26,5 / 30,8 / 46,4	30,8 / 46,4	30,8 / 46,4
AIR MIXING SECTION						
Extra dehumidification capacity **		gr/h	19182	24713	32060	40288
Air flow		m³/h	3600	4600	2 x 3000	2 x 3750
Conveying height		Pa	Max 320	Max 350	Max 335	Max 410

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

Under restriction of modifications