AIRMASTER
DEHUMIDIFIERS

AMK CF

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.

AMK CF Duct Unit

These high-quality pool dehumidifiers with air-side heat recovery ensure perfect climate control for your pool area. They control the humidity and temperature of your pool.

The cross-flow exchanger ensures that for a large part of the year, only outside air can be used for dehumidification, which provides a significant energy saving.
By integrating a compressor, we guarantee that your pool area can be maintained at the ideal relative humidity 365 days a year.

In addition, there is the option of free cooling in the summer and the additional option of a DX coil to cool your pool area on hot summer days.

For Pool Areas from 370 up to 1000 m³.
Dehumidification capacity by cooling circuit from 65 up to 480 l/24 h.

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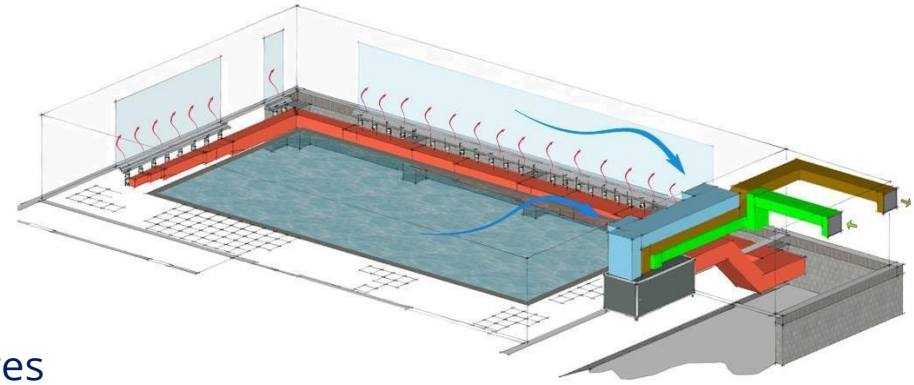
A duct unit is installed in a technical room, silent and invisible in the pool area. The only visible elements are the grills – suction and outlet – that are integrated in the floor and the ceiling.



Features

- Customization possible (e.g., vertical installation) to fit any technical room: Upon request
- Integrated compressor ensures optimal comfort 365 days a year
- Each unit is suitable for on-site assembly
- Optional DX coil for active cooling and heating
- Optional pool condenser that removes excess heat and recovers it to the pool water or to a buffer tank
- Modbus connection
- Cloud connection: With this option, we can remotely manage and monitor the installation.

		Vac/ph/Hz = 400/3/50	-	100	140	200	280	400	480
		Vac/ph/Hz = 230/1/50	65	102M	142M	-	-	-	-
Air Flow		1000-1400 m³/h = CF 10/14	•	•	•	•			
		2000-2500 m³/h = CF 20/25	•	•	•	•			
		3600 m³/h = CF 36	•	•	•	•	•	•	
		5000 m³/h = CF 50		•*	•*	•	•	•	•
	Basic Unit								
Dehumidification Capacity *		gr/h	2791	4041	6000	8791	11850	15700	20200
Nominal Current	3 x 400 V	A/ph	-	4,1	3,4	7,3	9,1	14,6	15,8
	1 x 230 V	A	6	10	8,5	-	-	-	-
Maximum working rage 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
•* Only available in 3ph									

					CF 10/14	CF 20/25	CF 36	CF 50
Air Flow				m³/h	1000 - 1400	2000 - 2500	3600	5000
Max, ESP				Pa	450	580	500	600
Heat recovery efficiency according to EN 308				%	74,7	74,1	70	74,8
Dimensions	Horizontal		L	mm	1900	2400	2670	2900
			B	mm	750	1000	1330	1330
			H	mm	965	1200	1330	1330
Weight				kg	265	310	535	830
Noise Level				dBA	55	53	56	56
	Fresh Air							
Extra Dehumidification Capacity				gr/h	3628	6652	9324	13438
Max. Air Flow				m³/h	700	1250	1800	2500
Max. ESP				Pa	Max 410	Max 330	Max 380	Max 305
	Hot water coil B							
Nominal output B8R				kW	17	30	43	54
Nominal output B4R				kW	18	35	50	68