

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.

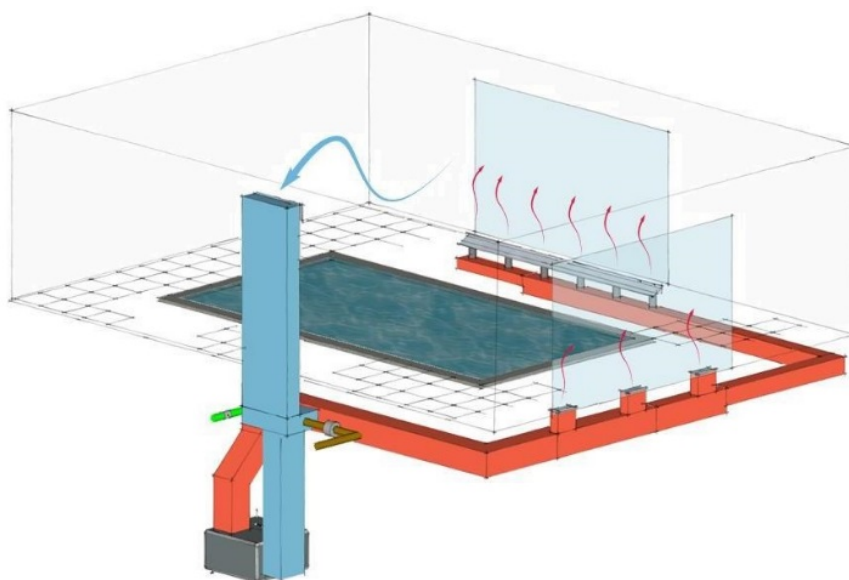
AMK duct unit

For an optimal comfort, an AMK duct unit is an absolute must.
Anodized, chamfered aluminum profiles and corners. Galvanized plates, epoxy lacquer in RAL 7011.

AMK duct units for pool areas of 100 up to 340 m³.
Dehumidification capacity of 65 up to 200 l/24 h.
For boiler regimes 80°C IN/60°C UIT.



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 to 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.

- Hot water battery (B4R) with an optional built-in three-way valve
- Electrical heating (BE) control included
- Swimming pool condenser that will discharge excessive heat to the pool water
- Vertical execution
- Outdoor execution - horizontal and vertical

Accessories

- "All or nothing" control devices: hygrostat, hygrothermostat, remote display.
- EC tube fan - including control and gravity valve - for extra fresh air and underpressure
- Condensate pump

		Vac/ph/Hz = 400/3/50	-	-	100	100/20	140	140/20	200/20	
		Vac/ph/Hz = 230/1/50	65	65/20	102M	102M/20	142M	142M/20	202M/20	
BASIC UNIT										
Dehumidification capacity *		gr/h	2791	2791	4041	4041	6000	6000	8791	
Nominal current	3 x 400 V	A/ph	-	-	3,3	3,3	4,1	4,1	7,3	
	1 x 230 V	A	5	5	5,9	5,9	8,5	8,5	16,6	
Air flow		m ³ /h	1000	2000	1200	2000	1400	2000	2000	
Available pressure		Pa	115	250	105	250	115	250	250	
Dimensions	H	L	mm	1000	1340	1000	1340	1000	1340	1340
		D	mm	1000	950	1000	950	1000	950	950
		H	mm	570	700	570	700	570	700	700
	V	L	mm	850	950	850	950	850	950	950
		D	mm	760	700	760	700	760	700	700
		H	mm	1050	1370	1050	1370	1050	1370	1370
Weight		kg	111	143	116	148	141	180	198	
HOT WATER BATTERY B										
Nominal output ** B4R		kW	14	29,5	16	29,5	18	29,5	29,5	
ELECTRICAL HEATING BE										
Output		kW	3 / 6	9 / 12	3 / 6	9 / 12	6	9 / 12	9 / 12	
Inclusive control		Stages	1	2	1	2	1	2	2	
Nominal current	3 x 400 V	A/ph	-	13,2 / 19,8	4,4 / 8,8	13,2 / 19,8	8,8	13,2 / 19,8	13,2 / 19,8	
	1 x 230 V	A	13 / 26	-	13 / 26	-	26	-	-	
SWIMMING POOL CONDENSER C										
Output		kW	3,62	3,62	4,66	4,66	6,63	6,63	7,8	

* At 30 °C AT° and 70% RH ** At 80/60 °C WT° and 20 °C AT°

Under restriction of amendments

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