CLIMATIZATION OF INDOOR SWIMMING POOL AREAS

cdh industries nv

www.cdh.be

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Preface

An indoor swimming pool is a source of tranquility and relaxation and should not be a source of annoyance. However, due to the temperature difference between swimming pool water and ambient air the relative humidity can reach 95% and more. It causes fungus, discoloring and other inconveniences.

At CDH we want to ensure that you can enjoy this tranquility and relaxation with a correctly dimensioned swimming pool dehumidifier. This provides the perfect humidity and climate control of your room.

CDH has been a manufacturer of these dehumidifiers for more than 30 years and is located in Hasselt (Belgium).

WE STAND FOR:

- High quality Standards and High-Quality Suppliers
- Reliability
- Excellent service
- Made in Belgium
- Fast processing and handling of your quotation and intervention requests
- Fast delivery times
- Customization
- Available service technicians for BE and NL
- An experienced team with seniority between 17 and 32 years
- Personal contact
- Open communication

cdh industries nv

4 Strengths

QUALITY

Our products are well known for their excellent quality. Moreover they are certified according the EU F-gas regulation. Quality does not only translate itself to the products on its own : we also offer training towards installation.

LARGE SCALE

We can answer to each request for dehumidification of indoor swimming pools ! Each unit is customised to the necessities of the end customer.

AFTER SALE SERVICE

An impeccable after sales service* is a priority. We also offer assembly at site and initialization of an operable installation*.

* Belgium and the Netherlands

OWN PRODUCTION

Our products are made in Belgium. As such we follow the manufacturing process very closely, for more than 30 years. And we are proud of it !

Working principle

Swimming pool dehumidifiers

THE PROBLEM

An indoor swimming pool is a source of tranquillity and relaxation and may not be a source of annoyance. The relative humidity in an indoor swimming pool area can increase to 95% and even more. In time this will cause fungus, discolouring ....

THE SOLUTION

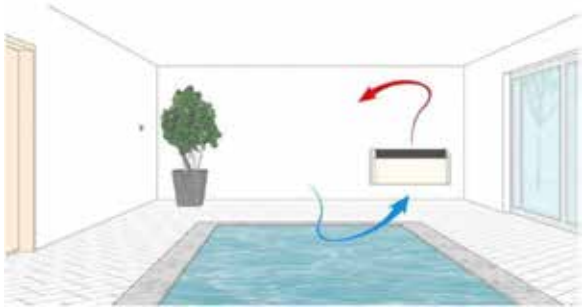
A normal and continuous relative humidity of 60 to 65% can only be guaranteed by a professional, correctly dimensioned dehumidification installation, which can dehumidify, ventilate and reheat the ambient air very fast.
The AIRMASTER works according to the principle of a cooling machine: Moist indoor air is sucked into the unit and is passed over a cold evaporator. Where it gets cooled below the dew point. The air is cooled down considerably. The moisture condenses and gets drained.

At the same time it creates a lot of heat at the condenser. Because we are cooling in one place, heating takes place in another, which is energetically very beneficial. The cooled and dehumidified air passes through the condenser and heats up to a temperature that is a lot warmer than the indoor air. This process is ongoing continuously. Due to the recirculation of air getting out of the indoor swimming pool area the desired humidity will be achieved.

TECHNICAL SPECIFICATIONS

		Vac/ph/Hz = 400/3/50	-	-	100	140
		Vac/ph/Hz = 230/1/50	40	65	92M	142M
BASIC UNIT						
Dehumidification Capacity *		gr/h	1667	2791	3791	6000
	3 x 400V	A/ph	-	-	3,3	4,1
Nominal Current	1 x 230V	A	3,4	5	5,9	8,5
Air Flow		m³/h	400	650	940	1400
Noise Level		dB(A)(NR)	50(45)	54(50)	54(48)	52(50)
	Lenght	mm	1052	1342	1342	1542
Dimensions	Width	mm	346	346	346	346
	Height	mm	670	670	670	670
Weight		kg	53	72	77	115
HOT WATER BATTERY						
Nominal Output **		kW	3,5	7	9	13
ELECTRICAL HEATING						
Output		kW	3	3	3/6	3/6
Control			Single-stage control			
Nominal Current	3 x 400 V	A/ph	-	-	4,33/8,8	8,8
	1 x 230 V	A	13	13	13/26	26
SWIMMING POOL CONDENSER						
Output		kW	-	3,62	4,66	6,63
* At 30 °C LT° and 70% RV		** At 80/60 °C WT° and 20°C LT°			Preliminary Data	

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



An AMT cabinet model is installed in the swimming pool area either on the floor or against a wall.

AMT CABINET/WALL UNIT

AMT-UNIT

An AMT cabinet model is installed in the swimming pool area either on the floor or against a wall and is applied when there is no technical room available.
The unit is made out of a combination of synthetic fiber and galvanized plate and provided with a curved anodized aluminum grid. Both are epoxy lacquer in textured RAL9016 or RAL9005 (by choice)

Suitable for areas from 60 to 230 m³
Dehumidification capacity of 40 up to 140 l/24 h.
For boiler regimes 80°C IN/60°C OUT.

AVAILABLE IN THE FOLLOWING COLORS

- RAL 9016 = White
- RAL 9005 = Black

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.

- Hot water battery (B) which can be provided with a built-in three-way valve
- Electrical heating (BE) control included
- Swimming pool condenser that will discharge excessive heat to the pool water

CONTROLS

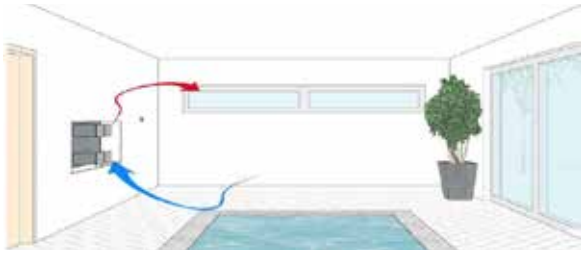
All or nothing" control devices: hygrostat, hygrothermostat, remote display.

TECHNICAL SPECIFICATIONS

		Vac/ph/Hz = 400/3/50	-	-	100	140
		Vac/ph/Hz = 230/1/50	40	65	92M	142M
BASIC UNIT						
Dehumidification Capacity *		gr/h	1667	2791	3791	6000
	3 x 400V	A/ph	-	-	3,3	4,1
Nominal Current	1 x 230V	A	3,4	5	5,98	8,5
Air Flow		m³/h	400	650	940	1400
Noise Level		dB(A)(NR)	49 (44)	50(45)	52(48)	50(45)
	Lenght	mm	1025	1325	1325	1530
Dimensions **H**	Width	mm	310	341	341	341
	Height	mm	531	651	651	651
	Lenght	mm	720	997	997	1197
Dimensions **V**	Width	mm	310	341	341	341
	Height	mm	930	1071	1071	1071
Weight		kg	95	104	109	134
HOT WATER BATTERY						
Nominal Output **		kW	3,5	7	9	13
ELECTRICAL HEATING						
Output		kW	3	3	3/6	6
Control			Single-stage control			
Nominal Current	3 x 400 V	A/ph	-	-	4,33/8,8	8,8
	1 x 230 V	A	13	13	13/26	26
SWIMMING POOL CONDENSER						
Output		kW	-	3,62	4,66	6,63
* At 30 °C LT° and 70% RV		** At 80/60 °C WT° and 20°C LT°			*Under restriction of amendments*	

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

The unit itself is installed in an adjoining technical room. Inlet and outlet are ducted through the wall and only the aluminum grids of inlet and outlet are visible in the pool room.



AMW THROUGH THE WALL MODEL

AMW THROUGH THE WALL MODEL

The unit itself is installed in an adjoining technical room. Inlet and outlet are ducted through the wall and only the aluminum grids of inlet and outlet are visible in the pool room.

The unit is made out of galvanized plates, epoxy lacquer in RAL 7011 with aluminum grids.

Suitable for areas from 60 to 230 m³
Dehumidification capacity of 40 up to 140 l/24 h.
For boiler regimes 80°C IN/60°C OUT.

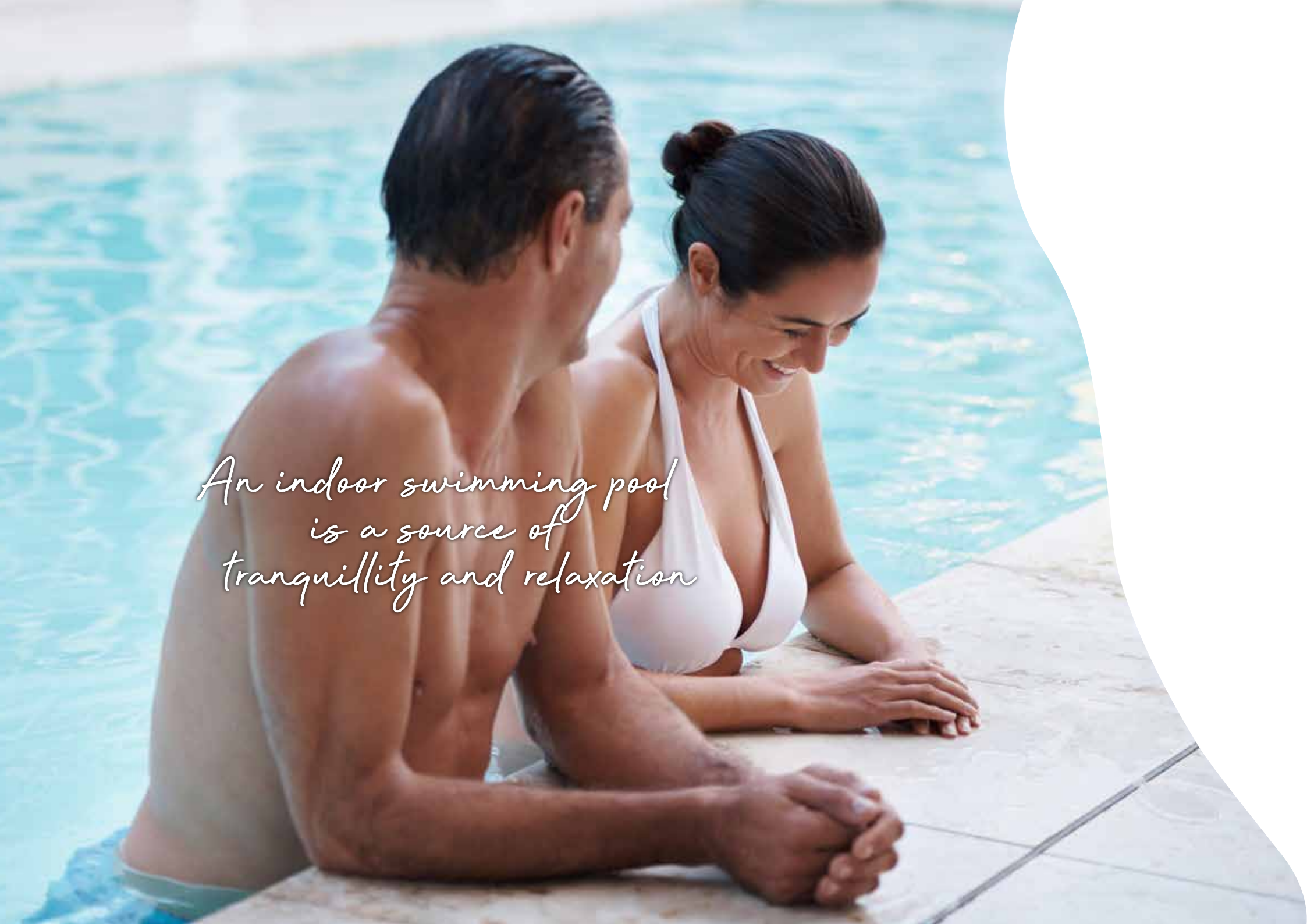
OPTIONS

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.

- Hot water battery (B) which can be provided with a built-in three-way valve
- Electrical heating (BE) control included
- Swimming pool condenser that will discharge excessive heat to the pool water
- Outdoor execution - horizontal and vertical
- L-console for vibration-free mounting against the wall

CONTROLS

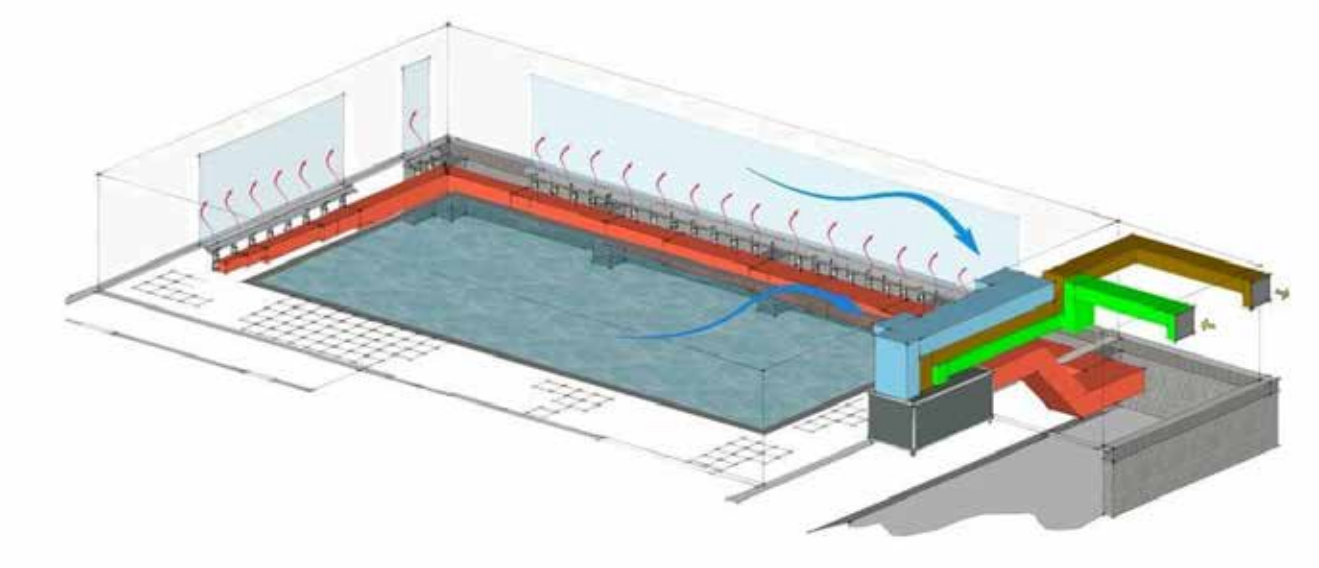
All or nothing" control devices: hygrostat, hygrothermostat, remote display.


An indoor swimming pool
is a source of
tranquillity and relaxation

For an

Optimal comfort

an **AMK duct unit** is an absolute must.



A duct unit is installed in a technical room, almost 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.

By correctly dimensioning and setting up the ducts and grilles a good air circulation can be achieved, which increases the living comfort.

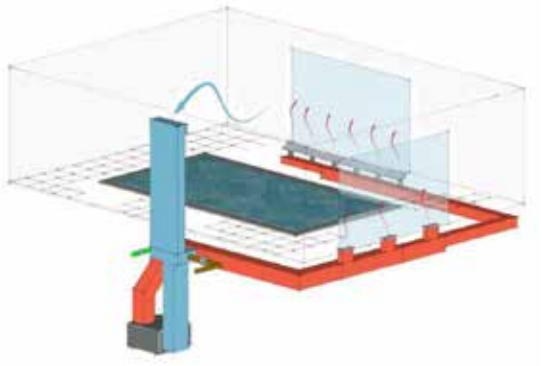
TECHNICAL SPECIFICATIONS

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
	3 x 400V	A/ph	-		3,3	3,3	4,1	4,1	7,3
Nominal Current	1 x 230V	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	Lenght	mm	1000	1340	1000	1340	1000	1340	1340
H	Width	mm	1000	950	1000	950	1000	950	950
	Height	mm	570	700	570	700	570	700	700
Dimensions	Lenght	mm	850	950	850	950	850	950	950
V	Width	mm	760	700	760	700	760	700	700
	Height	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 LT° and 70% RV ** At 80/60 °C WT° and 20°C LT° *Under restriction of amendments*

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

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.



AMK DUCT UNIT

AMK DUCT UNIT

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

Suitable for areas from 100 to 340 m³
Dehumidification capacity of 65 up to 200 l/24 h.
For boiler regimes 80°C IN/60°C OUT.

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.

- 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

ACCESORIES

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

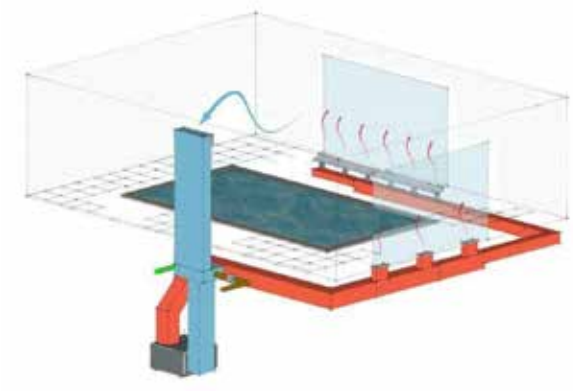
TECHNICAL SPECIFICATIONS

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
	3 x 400V	A/ph	-		3,3	3,3	4,1	4,1	7,3
Nominal Current	1 x 230V	A	5	5	5,98	5,98	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
	Lenght	mm	1160	1340	1160	1340	1160	1340	1340
Dimensions **H**	Width	mm	950	950	950	950	950	950	950
	Height	mm	610	860	610	860	610	860	860
	Lenght	mm	900	950	900	950	900	950	950
Dimensions **V**	Width	mm	760	950	760	950	760	950	950
	Height	mm	1230	1530	1230	1530	1230	1530	1530
Weight		kg	142	174	148	184	175	217	238
HOT WATER BATTERY B									
Nominal output ** B8R		kW	12	24	14	24	17	24	24
ELECTRICAL HEATING BE									
Output		kW	3,62	3,62	4,66	4,66	6,63	6,63	7,8

* At 30 °C LT° and 70% RV ** At 80/60 °C WT° and 20°C LT° *Under restriction of amendments*

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

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.



AMKB8R DUCT UNIT

WITH BUILT-IN B8R HOT WATER COIL

AMKB8R DUCT UNIT

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

AMKB8R Duct Units are suitable for areas from 100 to 340 m³ and dehumidification capacity of 65 up to 200 l/24 h. These units are equipped as standard with an B8R hot water battery for lower water regimes to be able to work with heat pumps.

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.

- Built-in three-way valve
- Swimming pool condenser that will discharge excessive heat to the pool water
- Vertical execution
- Outdoor execution - horizontal and vertical

ACCESORIES

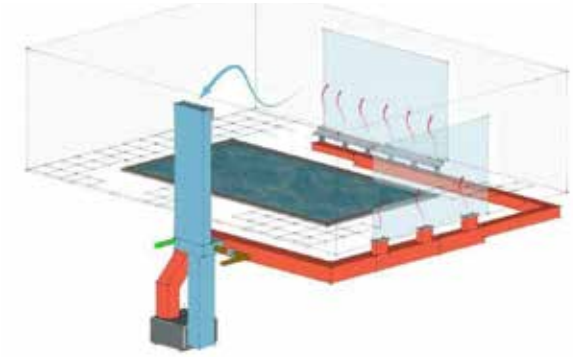
- "All or nothing" control devices: hygrostat, hygrothermostat, remote display.
- EC tube fan - including control and gravity valve - for extra fresh air and underpressure

TECHNICAL SPECIFICATIONS

	Vac/ph/Hz = 400/3/50		-	100	140	200	280
	Vac/ph/Hz = 230/1/50		65	102M	142M	202M	-
	2500 m³/h = .../25		-	-	-	-	
Air Flow	3600 m³/h = .../36			-	-	-	-
	5000 m³/h = .../50			-	-	-	-
BASIC UNIT							
Dehumidification Capacity *		gr/h	2791	4041	6000	8791	11850
	3 x 400 V	A/ph	-	3,3	4,1	7,3	9,1
Nominal Current	3 x 230 V	A	5	5,98	8,5	16,6	-
Maximum working range at 70% RH		°C	34 °C				
Minimum working range at 50% RH		°C	10	10	10	10	21
SWIMMING POOL CONDENSER C							
Output		kW	3,62	4,66	6,63	7,8	12
* At 30 °C LT° and 70% RV	** At 80/60 °C WT° and 20°C LT°					*Under restriction of amendments*	

			.../25	.../36		.../50
Air Flow	m³/h		2500	3600		5000
Available pressure	Pa		Max 610	Max 470		Max 940
				B4R	B8R	
	Lenght	mm	2300	2500	2670	2900
Dimensions H	Width	mm	900	1100	1330	1330
	Height	mm	860	860	1330	1330
	Lenght	mm	1200	1375	1320	-
Dimensions V	Width	mm	900	1100	1150	-
	Height	mm	1670	1670	2030	-
HOT WATER BATTERY B						
Nominal output B4R *		kW	35	50		68
Nominal output B8R **		*kW*	*30*	*43*		*54*
** At 80/60 °C WT° and 20°C LT°	** At 60/80 °C WT° and 20°C LT°			*Under restriction of amendments*		

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.



AMK+ DUCT UNIT

FOR BIGGER SWIMMING POOL AREAS

AMK+ DUCT UNIT

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

AMKB8R Duct Units are suitable for areas from 370 to 600 m³ and dehumidification capacity of 65 up to 280 l/24 h.

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.

- Hot water battery - B4R or B8R- with an optional built-in three-way valve
- Swimming pool condenser that will discharge excessive heat to the pool water
- Outdoor execution - horizontal and vertical

ACCESORIES

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


Swim comfortably
and breathe
sustainability

A good

Sustainable

operation is key

The latest generation of CDH dehumidifiers use a cross-flow exchanger where the swimming pool air is dehumidified with 50% fresh air. The compressor will have less operating hours, resulting in a enormous energy savings.

We don't just focus on compressor operating hours, but also on heating capacity, given warm pool air is mixed with outside air.

Considering the changes in our current climate we offer you the certainty that you can enjoy 365 days a years a perfectly air-conditioned swimming pool area. Therefore, the compressor is always integrated into our systems, so that on stormy days the fresh air valves closes and the compressor will keep your room at the right humidity

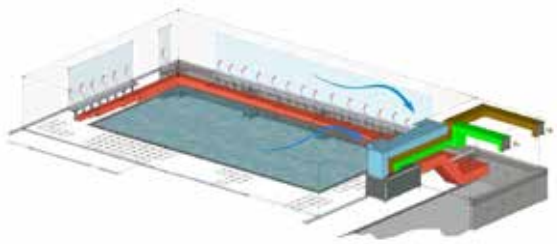
TECHNICAL SPECIFICATIONS

	Vac/ph/Hz = 400/3/50		-	100	140	200	280	400	480
	Vac/ph/Hz = 230/1/50		65	102M	142M	-	-	-	-
	1000-1800 m³/h = CF 10/18		•	•	•	•			
Air Flow	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 range at 70% RH		°C	34 °C						
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

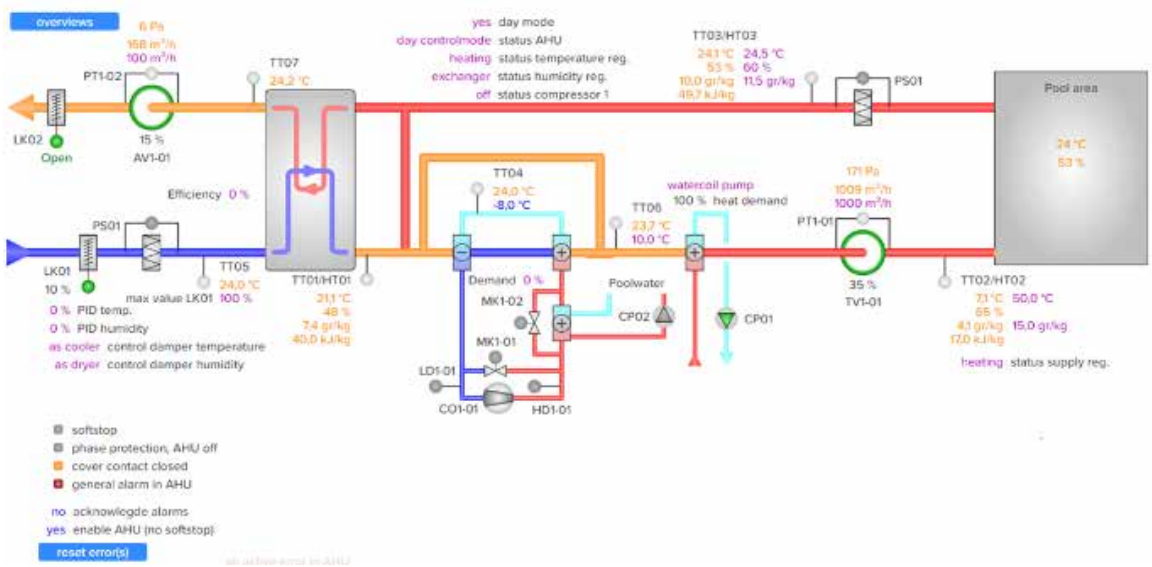
• * Only available in 3ph

			CF 10/18	CF 20/25	CF 36	CF 50
Air Flow	m³/h		1000-1800	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
	Lenght	mm	1900	2400	2670	2900
Dimensions H	Width	mm	750	1000	1330	1330
	Height	mm	965	1200	1330	1330
Weight			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 BATTERY B						
Nominal output B8R		kW	17	30	43	54
Nominal output B4R		kW	18	35	50	68

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.



AMK CF
DUCT UNIT
WITH CROSSFLOW



AMK CF DUCT UNIT.

These high-quality swimming pool dehumidifiers with air side heat recovery ensure perfect climate control of your swimming pool area. It controls the moisture and temperature of your swimming pool area.

The cross-flow exchanger ensures that , for a large part of the year, there can only be dehumidified with outside fresh air, which provides a huge energetic benefit. In addition there is the possibility to use free cooling in the summer and the additional option of a DX battery to cool down your indoor area on hot summer days.

FEATURES AMK CF

- Horizontal installation allows placement in low cellars < 2m
- Integrated compressor ensures 365 days of optimal comfort
- Each unit is suitable for On-Site Assembly
- Customization possible, so that the unit can be adapted to any technical requirements space fits
- Optional DX coil for active cooling and heating
- Optional Swimming pool condenser that will discharge excessive heat to the pool water
- Modbus or Bacnet connection
- Cloud Connection: With this option we can remotely take over and view your entire installation.

MODE 1:

Operation with max 50% fresh outside air. The fresh air valve is modulating depending on Enthalpy and absolute-moisture. The air of the indoor swimming pool merges with max 50% fresh outside air over the crossflow. The fresh air will dry the moist pool air.
When there is a heating demand, the heating battery will heat up the dry air and blow it into the indoor swimming pool area.

In summer operation mode the heating battery will be no longer necessary, given the dry air will be preheated by the cross-flow exchanger.

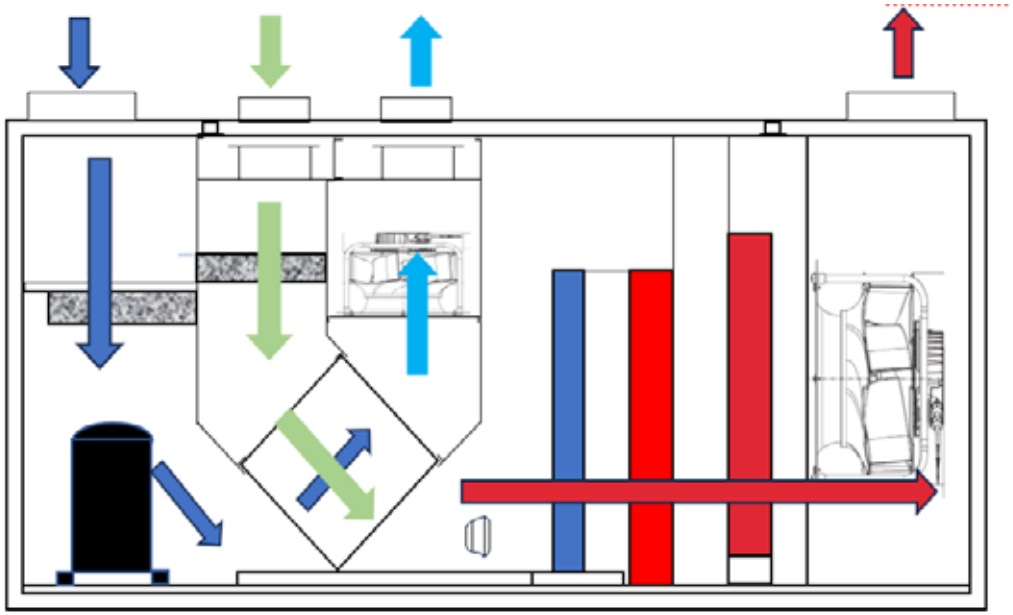
If the desired RH% has not been achieved in the indoor swimming pool area, the compressor will not start and the dehumidification will only happen with fresh outside air.

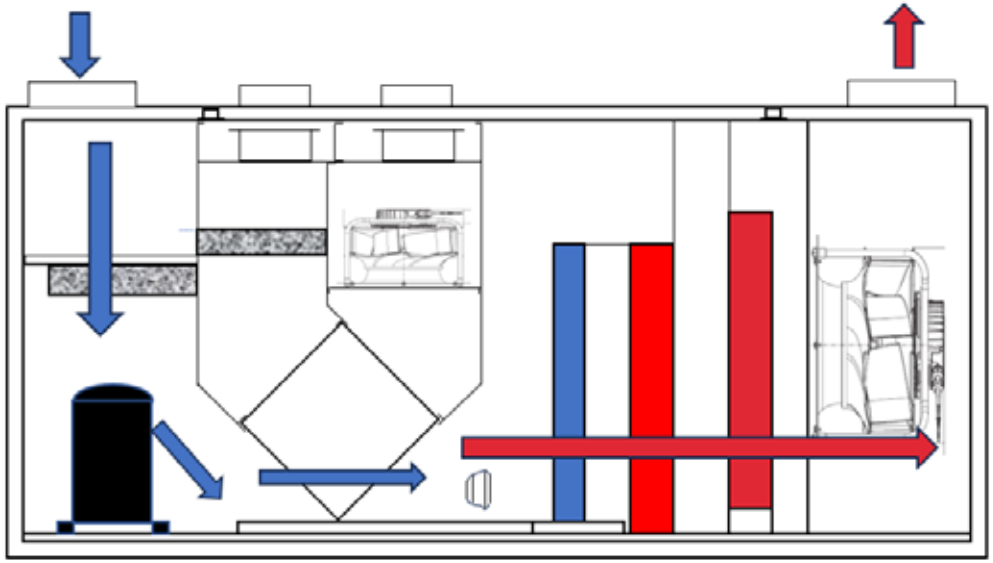
MODE 2:

If the RH% is not achieved with the max of 50% fresh outside air, then the compressor will start to ensure that the desired RH% is achieved.

MODE 3:

If the RH% of the outside air is too high to dehumidify the indoor swimming pool area, the fresh air valves will go to minus 10% and the room will be dehumidified with the compressor. In this way we guarantee a perfect RH% of your indoor swimming pool area for 365 days a year.



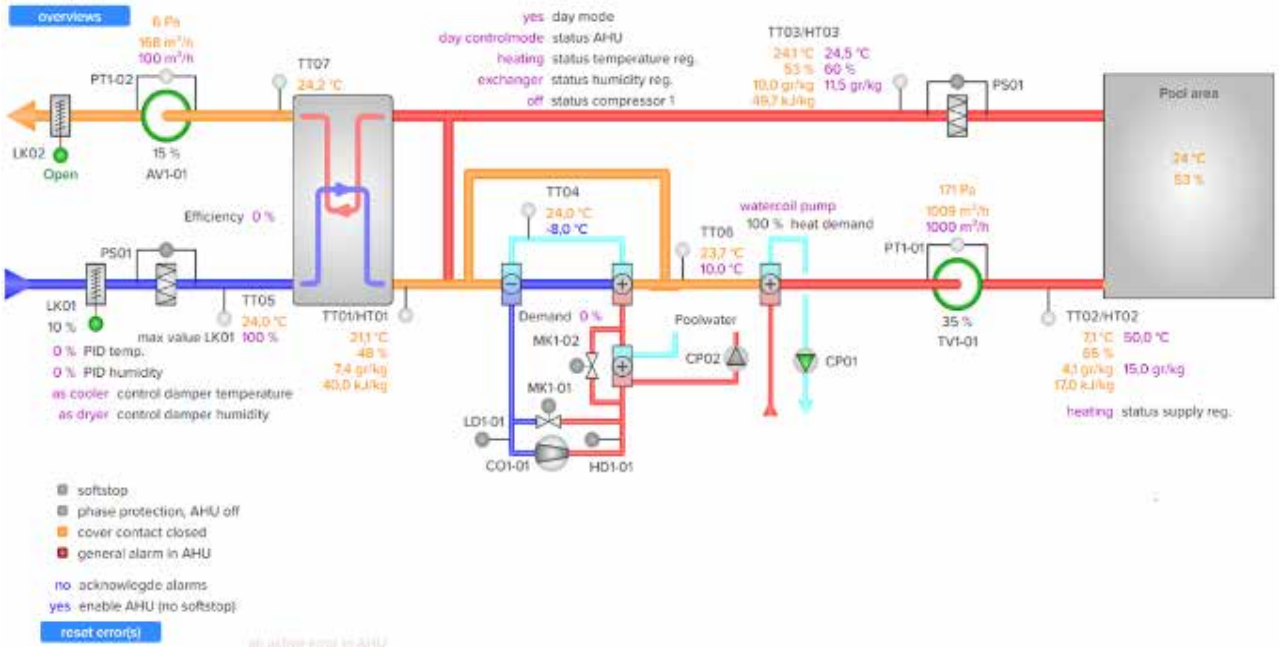


ALWAYS AN EYE ON YOUR INSTALLATION: CLOUD CONNECTION

With real-time insight into your installation, we can manage your installation remotely:

- Manage, control and adjust
- RESET remotely
- Plan interventions better
- Prevent interventions

This increases operational reliability and prevents unnecessary visits from service technicians



OPTIONAL DX COIL

Due to the increasingly strict construction requirements, heating of your swimming pool area is no longer a problem. However, it is overheating that must be countered.

Many swimming pool areas are used as multi-purpose rooms or are equipped with movable floors. To fully enjoy this, active cooling is needed to get these rooms to the right temperatures.

There is an option available for this with a DX battery that allows you to heat or cool the indoor swimming pool area.

Our groups are then equipped with a built-in DX battery. The refrigeration connections are then made by a certified company.

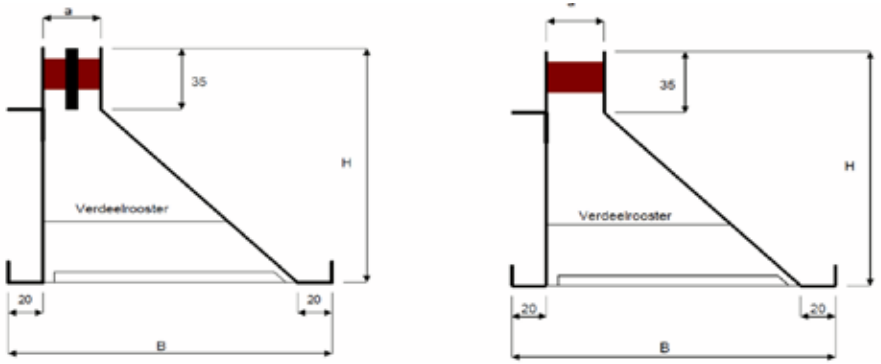
This option is available for the entire AMK range.

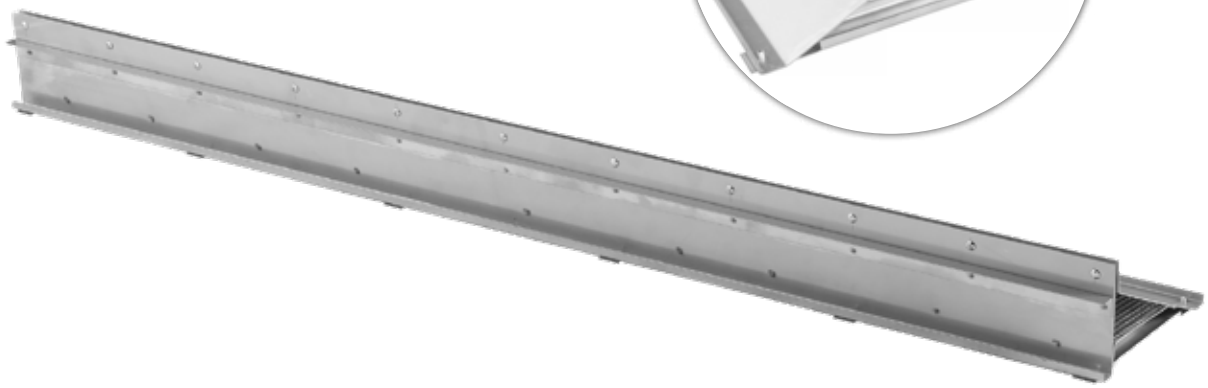
TECHNICAL SPECIFICATIONS

TYPE	65	100	140	.../20	.../25	.../36	.../50
Air Flow	1000	1200	1400	2000	2500	3600	5000
SLOT GRILLS – DISCHARGE SIDE							
GAP WIDTH	NUMBER OF CURRENT METER SLOT GRILLS						
1 x 10 mm	13,5	16,5	19,5	nvt	nvt	nvt	nvt
1 x 16 mm	9	10,5	12,5	17,5	22	nvt	nvt
1 x 20 mm	7	8,5	10	14	17,5	25	35
2 x 16 mm	4,5	5,5	6,5	9	11	16	22

The slot grills have a free passage of 10% and the specified current meters are those that most closely approximate an air speed of 2m/s

H(Height) Max. H = 180 mm • H > 180 mm = additional m² surcharge
B(Width) Max. B = 250 mm • H > 250 mm = additional m² surcharges





SLOT GRILLS

For a very sleek finish you can use our slot grills. They are almost invisibly concealed in the floor with only a 10mm opening. The grills are placed below the windows to blow on them directly with warm air.

We will help you with the correct selection of these grills, depending on the required air flow.

These are then custom-made in our production facility.

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