

Dehumidification

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DEHUMIDIFICATION

> THE RIGHT DEHUMIDIFIER FOR EVERY POOL

A room or veranda sheltering a pool is a place where **the relative humidity in the air is high**. Water vapour trapped inside condenses on the cold walls, forming water droplets and condensation, while the air is progressively saturated with humidity. There are many consequences of these phenomena: **appearance of mould, peeling, rusting, etc.** To ensure the comfort of bathers and long life of an indoor pool, **it is essential to install a dehumidifier**.

> SWIMMING POOLS IN CONSERVATORIES

Given the large area of glazed surfaces in a conservatory, it is strongly recommended to install a dehumidifier system with a system of ducts fitted around the room.



> COVERED POOLS

- **For use from March to November:** a simple dehumidifier, free-standing or fitted, combined with a cover can ensure a comfortable atmosphere.
The ambient air can be heated as necessary, but it is generally the sun's rays that increase the air temperature.
- **For use throughout the year:** only a gas or oil boiler, accompanied by a dehumidifier unit with a hot water coil installed in a room close to the shelter, can keep bathers comfortable throughout the year.

> SPAS

In a room housing a private pool, there is very often a spa, either integrated or independent of the pool. In this case, the quantity of water evaporated by the spa must be added to that evaporated by the pool and fit the appropriate equipment.



> PROFESSIONAL SWIMMING POOLS

The greater use and higher water temperature of this type of pool causes a much greater level of evaporation. Calculating evaporation here requires complete understanding of the parameters and equipment to conduct a thermal audit.

Important: it is essential to ensure replacement of fresh air at a minimum of 22 m³/hr per person.

3 CRITERIA TO BE MET FOR OPTIMUM COMFORT:

1. **Water temperature:** from 26°C to 30°C, or higher for medical or professional uses.
2. **Air temperature:** from 26°C to 30°C, often set to the same value as the water temperature.
3. **Relative humidity:** between 60% and 70%. Below 60%, it feels too cool when getting out of the water.
Above 70%, it feels too muggy and condensation forms in the room.



DEHUMIDIFICATION

> 3 TYPES OF DEHUMIDIFYING SYSTEMS

Zodiac® offers a wide range of solutions, split into three categories: **free-discharge, through-the-wall and ducted units**. All these systems operate on the principle of the heat pump: drawing in warm, moist air and blowing out warmer, dry air.



Free-discharge systems



Through-the-wall systems



Ducted systems



Ducted systems with air renewal

> FREE-DISCHARGE UNITS

These monoblock DT or Sirocco² systems are **designed for small volumes and require no ducting**. The units can be placed **in the room housing the pool**, more than 2 metres from the pool.

This free-discharge solution is the **simplest and most economical** for maintaining the relative humidity at a comfortable 65% level in the room. However, it is not effective in dealing with condensation on the windows.



DT 850 E



SIROCCO² FREE-DISCHARGE



Through-the-wall DF

> THROUGH-THE-WALL

These Sirocco² or DF monoblock systems are installed **in an adjacent plant room through the walls**. Only an inlet grille and an outlet grille are visible in the pool room.

This simple solution allows the **dehumidifier to be installed outside the pool hall (plant room adjacent to the pool)** but does not deal effectively with condensation on the windows.

> DUCTED MODELS

A ducted system (DF or unit) is the only solution for **dealing effectively with condensation on the windows**, because it is possible to fit outlet grilles along the glazed walls.

Only these grilles are visible in the pool room while the equipment itself can be installed **in the nearby plant room**.



Ducted DF



Ducted CAE



Ducted OMEGA

> DUCTED MODELS WITH AIR RENEWAL

These ducted units, marketed under the SET brand, **also manage air renewal in the pool** (and any surrounding spaces) and heating in the pool room with no need for additional equipment. Introducing fresh air from outside, with or without static energy **means you save energy**. This solution is designed for all pools with large glazed areas and for professional swimming pools.

This solution is designed for all pools with large glazed areas and for professional swimming pools.



We offer an entire series of complementary accessories to enable you to build your complete installation:

- ventilation accessories
- inlet and outlet grilles
- ducts and diffusers



> DEHUMIDIFIERS

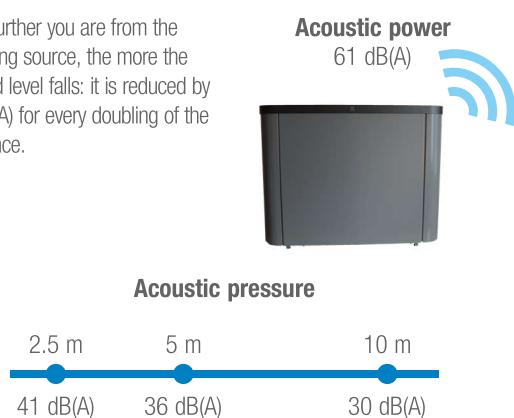
A silent installation

> EXPRESSING THE NOISE LEVEL WITH PRECISION

Sound level is expressed:

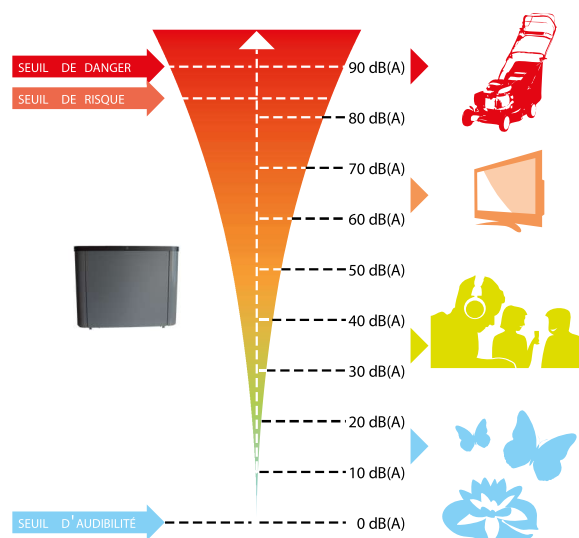
- Either **as acoustic power dB(A)**: this is the unmodified noise level of the emitting source.
- Or **as acoustic pressure dB(A)**: this is the sound level perceived by the human ear.
It depends on the installation environment and distance at which the measurement is made.
It must therefore always include a measuring distance.

The further you are from the emitting source, the more the sound level falls: it is reduced by 6 dB(A) for every doubling of the distance.



To compare the noise level of several machines, check what type of value you have, power or pressure, and if it is pressure then at what distance was it measured!

NOISE SCALE



> REDUCE NOISE TRANSMISSION THROUGH THE DUCTS

Special attention will be given to the aeraulic networks:

- **Size the ducts appropriately for the air flow**, limit turbulent sections, provide straight lines between each turbulent section.
- **Reduce the transmission of vibrations through the ducts:**
 - Install sleeves where they pass through walls,
 - Use anti-vibration collars to support ducts,
 - Use flexible couplings between the equipment and the duct network.
- **Size the inlet and outlet grilles** appropriately for the air flow rates passing through them.
Provide expansion chambers between the grille and the duct.
- **Fit a sound trap**, if necessary, in the outlet ducts, particularly to avoid the noise propagating.



Example of duct installation



> DEHUMIDIFIERS

A silent installation



Support frame



Anti-vibration blocks

> RECOMMENDATIONS FOR INSTALLING A DEHUMIDIFIER

A dehumidifier system includes 'moving' parts (compressor, fan, etc.), vibrations from which can spread and build up. A ducted unit installed in a plant room will provide the best possible noise solution.

However, to avoid or reduce disturbances, a few installation rules should be observed:

- **Install the dehumidifier on suitable anti-vibration blocks.** Renew them if necessary, because they lose effectiveness over time.
- **Install the system** either on a mounting base independent from the building and weighing twice as much as the dehumidifier, or on a very rigid support frame.

> HELPING YOU SELECT AND WORK OUT THE REQUIRED DIMENSIONS OF YOUR EQUIPMENT

> OUR DESIGN OFFICE IS THERE FOR YOU EVERY DAY:

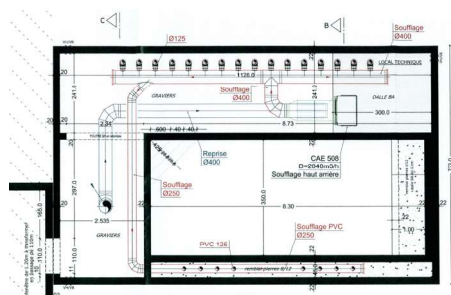
- **A team of technicians will advise you** in selecting products, working out the necessary dimensions, and installing them.
- To help develop your business, **we carry out almost 40,000 surveys each year!**
- **You benefit from unique expertise on dehumidification** for indoor pools, and for all your "Added Value" projects (equipment, accessories, ducted systems, etc.).
- The design office will help you to keep track of **"turnkey" projects** (quotes, plans, advice).



SERVICES

REFERENCE POINT

Zodiac® offers service solutions to help you. Find these services in this catalogue using this pictogram.



Create your plans in AUTOCAD !

Autocad is well-known to architects and others working in construction, and is used to create clear, accurate and versatile plans. Increase your chances of success significantly by using our teams' expertise in this field!



DEHUMIDIFICATION

> HYGRO CONTROL

Simple dehumidification

Hygro Control is a hygro-thermostat designed exclusively by Zodiac® for easy and intuitive control of the dehumidification equipment.



REFERENCE POINT

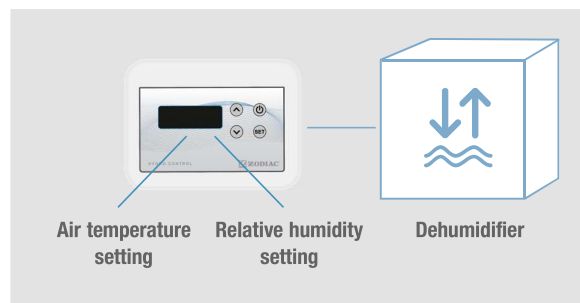
Find Zodiac® dehumidification products equipped with the Hygro Control function by locating this pictogram in the catalogue.

> HOW DOES IT WORK?

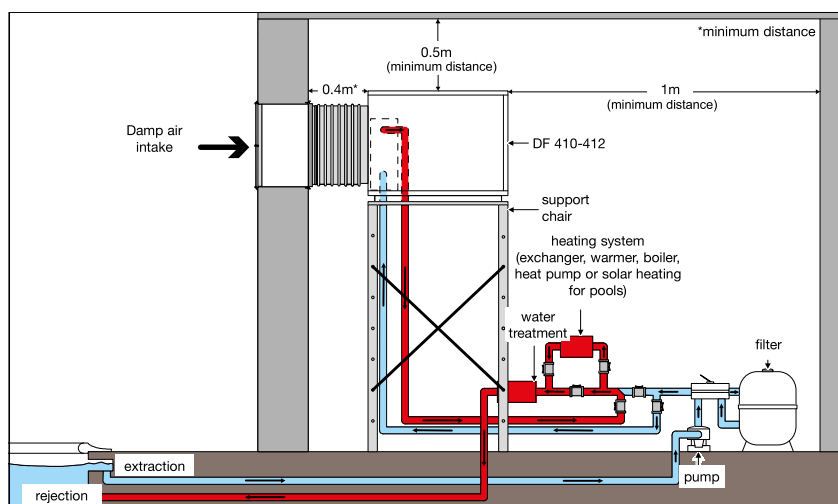
Hygro Control is an accurate and easy to use digital control unit for **setting the desired relative humidity**. Relative humidity characterises the moisture in the air, specifically the quantity of water present as gas in the air in the room or conservatory housing the pool.

If the dehumidifier is fitted with the 'heating' option, Hygro Control can also set the room air temperature.

The unit is supplied with CAE, DF and OMEGA dehumidifiers. Mounted on the wall, it is connected to the dehumidifier.



STANDARD INSTALLATION



Example of an installation with a CAE

- Hygro Control should be installed at least 50cm from the outlet
- Do not put it above the system or above an outlet grille (CAE, DF, OMEGA)
- It should be at least 1.5m from the floor

Equipping a pool with a good roof and a suitable ventilation system for the room increases the efficiency of the dehumidification system.



DT 850 E Free-discharge

Dehumidification > DT 850 E - Free-discharge

2 YEAR
WARRANTY

- + Ideal for small pools
- + All-in-one, free-standing design: easy to install
- + Regulation with digital display



DT 850 E

PRODUCT REFERENCE

Standard model

W28DT850E410

DETAILED DESCRIPTION

- Indoor, single block dehumidifier, to be installed in the area to be treated
- ABS body
- Sealed type thermodynamic circuit
- Very silent centrifugal turbine
- Hermetic compressor with built-in protection
- Thermostatic defrosting using forced ventilation
- Electronic regulation using a built-in hygrometer
- Thermoformed anti-rust casing
- Washable air filter
- 2 ventilation speeds

TECHNICAL SPECIFICATIONS

Capacity (l/h)	2,2
Absorbed power (W)	915
Acoustic pressure at 5m (dB(A))	22
Air flow (m³/h)	500
Electric power supply	220-240V / 1 N~ / 50Hz
Nominal absorbed intensity (A)	4,15

*in the following nominal conditions: air 30°C, humidity 70%.

It is recommended to change the filters every year to allow the maximum performance of the dehumidifier.

DIMENSIONS (MM) AND WEIGHT

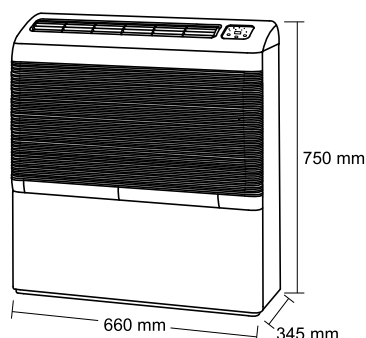
	DT 850 E
Weight (kg, excluding accessories and options)	37

OPTIONAL ACCESSORIES

	Filter DT 850 / DT 850 E
reference	W28FIDT5



Spare parts p.312





DEHUMIDIFICATION



Available in
RAL 9003 (white)
and RAL 7037 (grey)

SIROCCO² COMFORT AND INTELLIGENCE

> OPTIMAL COMFORT

Thanks to its **silence mode** and **vertical air outlet**, the Sirocco² is a discreet dehumidification unit, helping you forget it's here.

> BUILT-IN INTELLIGENCE

With its humidity sensor's self-diagnostic feature, the Sirocco² **ensures the right relative humidity level** in all circumstances to preserve the facility's sustainability. Furthermore, when the pool is inoccupied (closed cover), **it reduces its energy consumption** by lowering the air heating temperature.

> HARMONIOUS DESIGN

With its sleek lines, no visible grid and two available colours, the Sirocco² **fits elegantly and discreetly** into all indoor pool environments.

MODULARITY AIR HEATING SOLUTIONS

WITH ELECTRIC HEATING OPTION



WITH HOT WATER COIL OPTION



OPTIONS ARE MOUNTED INSIDE THE DEHUMIDIFIER, EITHER AT FIRST INSTALLATION OR AS A RETROFIT.

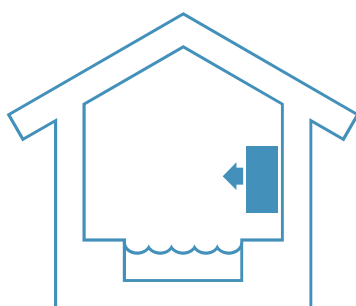


DEHUMIDIFICATION

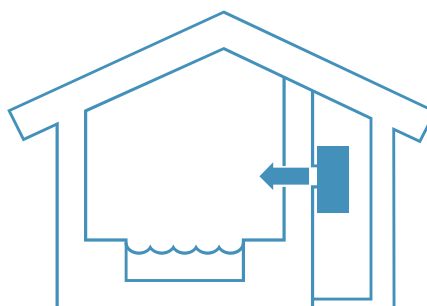
> SIROCCO²

VERSATILITY

2 possible configurations, on-site



FREE-DISCHARGE :
wall-mounted or floor-standing *



THROUGH-THE-WALL

Optional Accessories



REMOTE CONTROL

To keep a control at end, in the pool hall, when the dehumidifier is installed in a technical room.

STANDER

Can be added beneath the dehumidifier, to bear the load of the unit when the wall is too weak.*

*Whatever the configuration, with or without stander, Sirocco² must be attached to the wall to prevent any tilt.

RELIABILITY



NEW HUMIDITY SENSOR

Located in the air flow, with easy access through the side panel.



« TEST » MODE

To check, whether at first installation or during diagnosis, the right configuration of the dehumidifier and its options.



SELF-DIAGNOSTIC

Automatic detection of the humidity measures inconsistencies. Dehumidifying function is always ensured by default.

The maintenance and installation of a dehumidification product must be carried out by a qualified person.
For all your training or upgrading needs, Zodiac® supports you.



SIROCCO² Free-discharge / Through-the-wall unit

Dehumidification > SIROCCO² - Free-discharge / Through-the-wall unit

2 YEAR
WARRANTY

- + Optimal comfort
- + Built-in intelligence
- + Harmonious design



	Sirocco ² 2M	Sirocco ² 3M	Sirocco ² 5M	Sirocco ² 5T
PRODUCT REFERENCE				
WHITE	WD002088	WD002089	WD002090	WD002091
GREY	WD002215	WD002216	WD002217	WD002218

DETAILED DESCRIPTION

- Vertical blowing
- Free-discharge or Through-the wall mounting (with accessories)
- Wall mounted or floor standing (with stander)
- Galvanized, epoxy painted body
- Built-in hygro-sensor
- Embedded LCD (LED) display (remote control as an option)
- 2-speed centrifugal fan with Silence mode
- Energy-saving mode (with pool cover contact)
- Air heating options electric resistance or hot water coil, on-site integrable, into the main body of the dehumidifier (no additional space required).
- Available in 2 colors (grey or white)

ACCESSORIES INCLUDED IN THE PACK

- Wall fixing profile
- Air inlet filter

TECHNICAL SPECIFICATIONS

	Sirocco² 2M	Sirocco² 3M	Sirocco² 5M	Sirocco² 5T
Capacity (l/h)*	2,5	3,8	5,5	5,7
Absorbed power*** (W)	1210	2120	2580	2810
Air flow (m³/h)	600	800	1000	
Electric power supply	220-240V / 1 N~ / 50Hz			380-400V / 3N~ / 50Hz
Nominal absorbed intensity (A)***	5,3	9,5	11,8	4,8
Max. absorbed intensity (A)***	6,9	12,5	16,7	5,7
Refrigerant fluid	R410A			
Refrigerant fluid quantity (kg)	0,93	1,15	1,65	
Evacuation of condensate	Flexible tube Ø12/18			
Acoustic Power (dB(A) in Standard / Silence mode)	61,5 / 58,5	65 / 62	63,5 / 60	64,5 / 61
Acoustic pressure at 5m (dB(A) in Standard / Silence mode)**	36 / 33	40 / 37	38 / 34	39 / 35

* Standard unit, in the following nominal conditions: air 30°C, humidity 70%, Standard mode

** According to EN60704-1:2010+A11:2012 standard. Values measured and certified by the CCTM (Centre de Transfert de Technologie du Mans) on standard units (without options)

*** Excluding the power consumption of electric heating options.

OPTIONAL ACCESSORIES

	Through-the-wall kit Sirocco ²		Electric resistance Sirocco ²				Hot water coil Sirocco ²			Stander Light Grey Sirocco ²		Stander Dark Grey Sirocco ²		Remote control, Sirocco ²
	2M / 3M	5M / 5T	2M	3M	5M	5T	2M	3M	5M / 5T	2M / 3M	5M / 5T	2M / 3M	5M / 5T	
reference	R0829500	R0829600	R0829800	R0829900	R0830000	R0894100	R0830100	R0830200	R0830300	R0893700	R0893800	R0893900	R0894000	R0829700

ELECTRIC RESISTANCE SPECIFICATIONS

	Sirocco ²	Sirocco ²	Sirocco ²	Sirocco ²
Pression acoustique à 5m (dB(A) en mode Standard / Silence)	36 / 33	40 / 37	38 / 34	39 / 35
Puissance acoustique (dB(A) en mode Standard / Silence)**	61,5 / 58,5	65 / 62	63,5 / 60	64,5 / 61

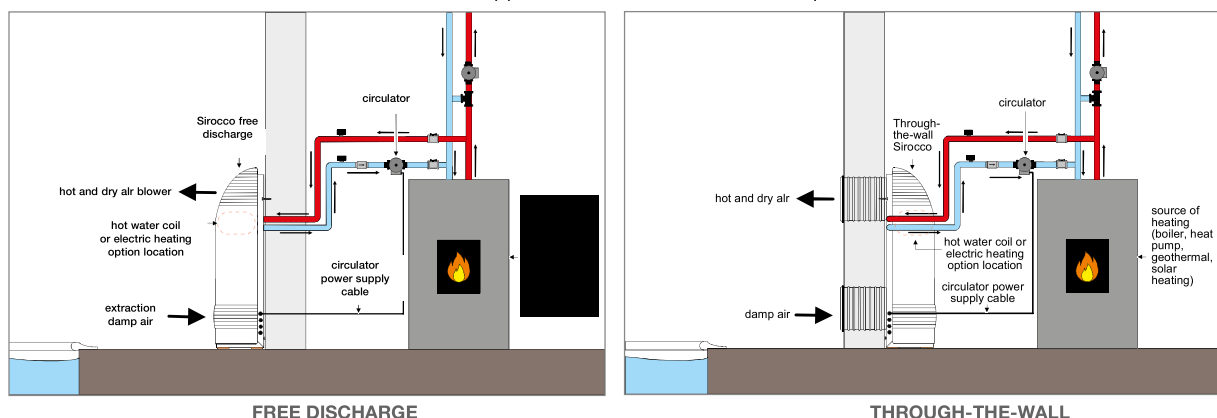
HOT WATER COIL SPECIFICATIONS

Power (kW) with primary at 50-40 °C / 90-70 °C	2,2 / 7,1	3,2 / 8,1	3,7 / 11,1
Water flow (m³/h) with primary at 50-40 °C / 90-70 °C	0,18 / 0,3	0,27 / 0,35	0,31 / 0,47
Load loss (kPa) with primary 50-40 °C / 90-70 °C	16 / 28	23 / 39	17 / 35
Connection (mm)	15 / 21 male thread		

INSTALLATION

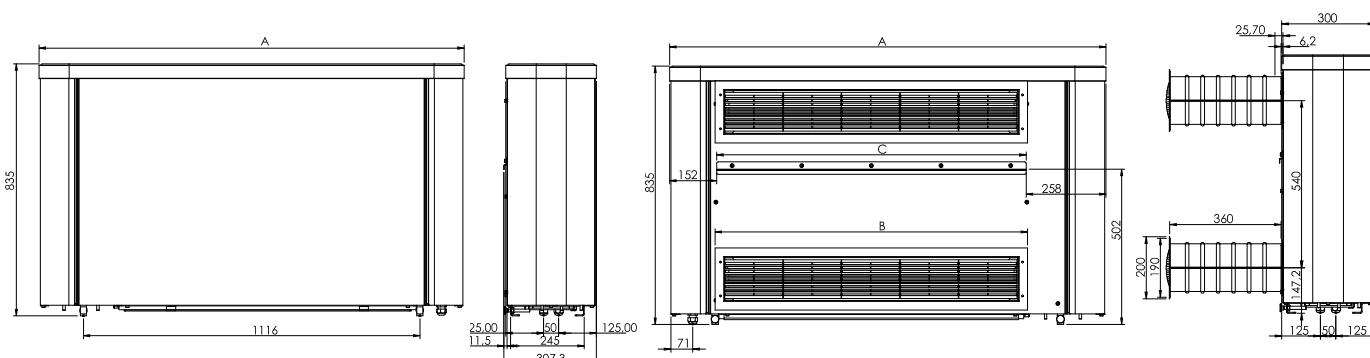
- Operating conditions (ambient air temperature range) : +10°C to +40°C for the dehumidification function; +5°C to +40°C for the air heating function alone
- Air heating options can be added within the unit: electric resistance or hot water coil
- An optional stander can be mounted as an additional support, in particular where the wall cannot withstand the load of the unit
- The unit shall always be attached to the wall in order to prevent any tilt, even when equipped with a stander.
- For more information, read the installation and user guide

Installation of an appliance with the hot water coil option.



DIMENSIONS (MM) AND WEIGHT

	Sirocco ² 2M	Sirocco ² 3M	Sirocco ² 5M	Sirocco ² 5T
A	1060		1410	
B	630		1010	
C : Anchor points	700		1000	
Space: Tolerance +2/-0 mm	580 x 145		998 x 165	
Number of grates	2 x 3		2 x 5	
Weight (kg) (basic model)	70		95	



Spare parts p.310



DF Through-the-wall

Through-the-wall horizontal system

Dehumidification > DF Through-the-wall

2 YEAR
WARRANTY

- + Hidden installation without ducts, for simplified project design
- + Available in 3 capacities (3.5 to 8 l/h)
- + Air heating options (electric heating or hot water coil)



	DF 403M Through-the-wall	DF 405M Through-the-wall	DF 405T Through-the-wall	DF 408M Through-the-wall	DF 408T Through-the-wall
PRODUCT REFERENCE					
Standard model	W28DF403ME	W28DF405ME	W28DF405TE	W28DF408ME	W28DF408TE
Model with electric heating option	W28DF403MEE	W28DF405MEE	W28DF405TEE	W28DF408MEE	W28DF408TEE
	4,5 kW	4,5 kW	4,5 kW	4,5 kW	9 kW
Model with hot water coil option	W28DF403MEB	W28DF405MEB	W28DF405TEB	W28DF408MEB	W28DF408TEB
	12kW	12kW	12kW	14 kW	14 kW

ACCESSORIES INCLUDED IN THE PACK



Hygro control box

TECHNICAL SPECIFICATIONS

	DF 403M Through-the-wall	DF 405M Through-the-wall	DF 405T Through-the-wall	DF 408M Through-the-wall	DF 408T Through-the-wall
Capacity (l/h)*	3,5	5		8	
Absorbed power*** (W)	1500	1860		2600	
Air flow (m³/h)	1300			1700	
Electric power supply	220-240V / 1 N~ / 50Hz		380-400V / 3N~ / 50Hz	220-240V / 1 N~ / 50Hz	380-400V / 3N~ / 50Hz
Max. absorbed intensity (A)**	13,2	16,1	7,3	24,8	9,5
Refrigerant fluid	R407C				
Refrigerant fluid quantity (kg)	1,18	1,21		1,52	
Evacuation of condensate	PVC 1/2 union, Ø 32, glued				

For all DF orders a deposit of 30% will be requested with the order.
 * Standard unit, in the following nominal conditions: air 30°C, humidity 70%.
 *** Excluding the power consumption of electric heating options.

OPTIONAL ACCESSORIES

	Double deflector supply grate	DF support frame	Remote control electrical unit
reference	WTT02365	WTO04000	W28DEPORT

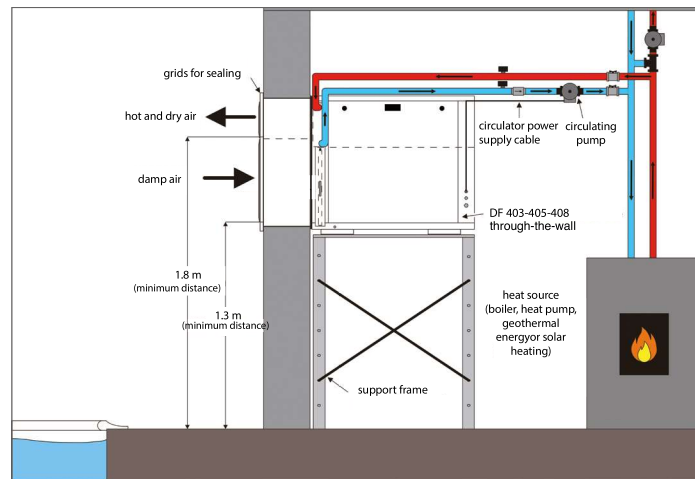
HOT WATER COIL SPECIFICATIONS

	DF 403M Through-the-wall	DF 405M Through-the-wall	DF 405T Through-the-wall	DF 408M Through-the-wall	DF 408T Through-the-wall
Power (kW) with primary at 50-40 °C / 90-70 °C	3,9 / 12,4			4,6 / 14,8	
Water flow (m³/h) with primary at 90/70°C	0,56			0,65	
Load loss (mmCE) with primary 90/70°C	59			81	
Connection (mm)	20 / 27 male thread				

INSTALLATION

- Installation in a technical room nearby the pool hall.
- Blower and intake grates mounted on the part to be mortared included with the appliance.
- Possibility of double deflector grates to direct the hot dry air towards the windows.
- Hot water coil assembled inside the appliance (option).
- Extra electric heating using incorporated electric heating elements (option).
- Filter on the intake.
- Reversible installation: right-hand (standard) or left-hand (optional) access to the technical door.

Installation of an appliance with the hot water coil option.

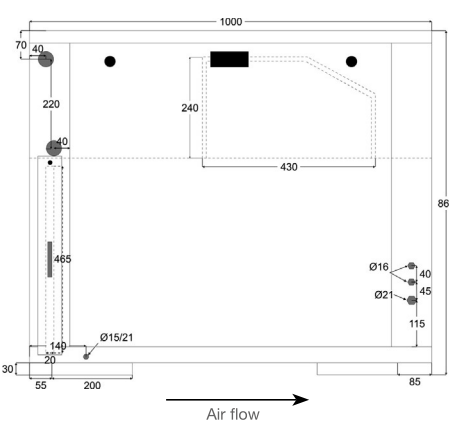
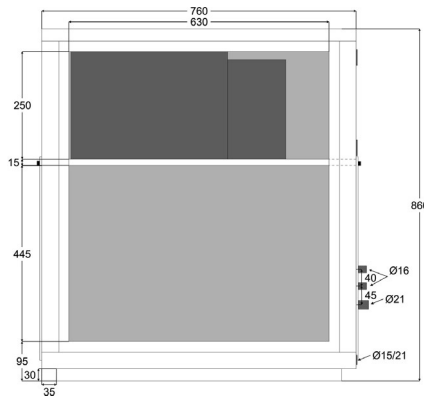


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DIMENSIONS (MM) AND WEIGHT

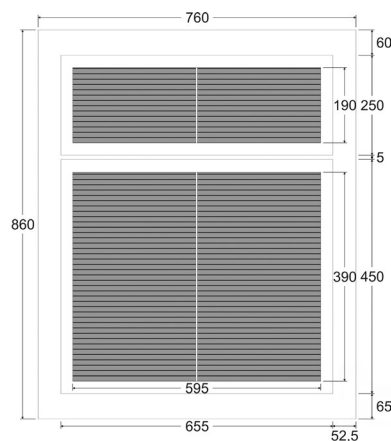
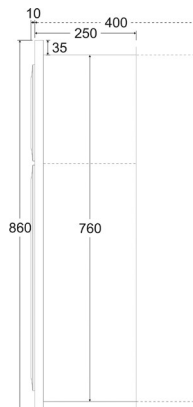
	DF 403M Through-the-wall	DF 405M Through-the-wall	DF 405T Through-the-wall	DF 408M Through-the-wall	DF 408T Through-the-wall
Weight (kg, excluding accessories and options)	129	130		133	

DF



Access panel as standard forelectrical connections

Grate to be mortared





DF ducted 403 - 408 Horizontal ducted system

Dehumidification > DF ducted 403 - 408 - Horizontal ducted system

2 YEAR
WARRANTY

- + Horizontal, ducted installation
- + Available in 5 capacities (3.5 to 12l/h)
- + Air heating options (electric heating or hot water coil)



	DF 403M ducted	DF 405M ducted	DF 405T ducted	DF 408M ducted	DF 408T ducted
PRODUCT REFERENCE					
Standard model	W28DF403MG	W28DF405MG	W28DF405TG	W28DF408MG	W28DF408TG
Model with electric heating option	W28DF403MGE	W28DF405MGE	W28DF405TGE	W28DF408MGE	W28DF408TGE
	4,5 kW	4,5 kW	4,5 kW	4,5 kW	9 kW
Model with hot water coil option	W28DF403MGB	W28DF405MGB	W28DF405TGB	W28DF408MGB	W28DF408TGB
	15 KW	15 KW	15 KW	18kW	18kW

ACCESSORIES INCLUDED IN THE PACK



Hygro control box

TECHNICAL SPECIFICATIONS

	DF 403M ducted	DF 405M ducted	DF 405T ducted	DF 408M ducted	DF 408T ducted
Capacity (l/h)*	3,5	5		8	
Absorbed power*** (W)	1500	1860			2600
Air flow (m³/h)	1300			1700	
Available pressure (mmCE)	10				
Electric power supply	220-240V / 1 N~ / 50Hz		380-400V / 3N~ / 50Hz	220-240V / 1 N~ / 50Hz	380-400V / 3N~ / 50Hz
Max. absorbed intensity (A)***	13,2	16,1	7,3	24,8 ***	9,5 ***
Refrigerant fluid	R407C				
Refrigerant fluid quantity (kg)	1,18	1,21		1,52	
Evacuation of condensate	PVC 1/2 union, Ø 32, glued				
Accoustic Power ((dB(A))**	71,5			73,6	

For all DF orders a deposit of 30% will be requested with the order.

* Standard unit, in the following nominal conditions: air 30°C, humidity 70%.

** Values measured and certified in compliance with EN ISO 3741 & EN ISO 354 standards, by CCTM (Centre de Transfert de Technologie du Mans) on standard units.

*** Excluding the power consumption of electric heating option.

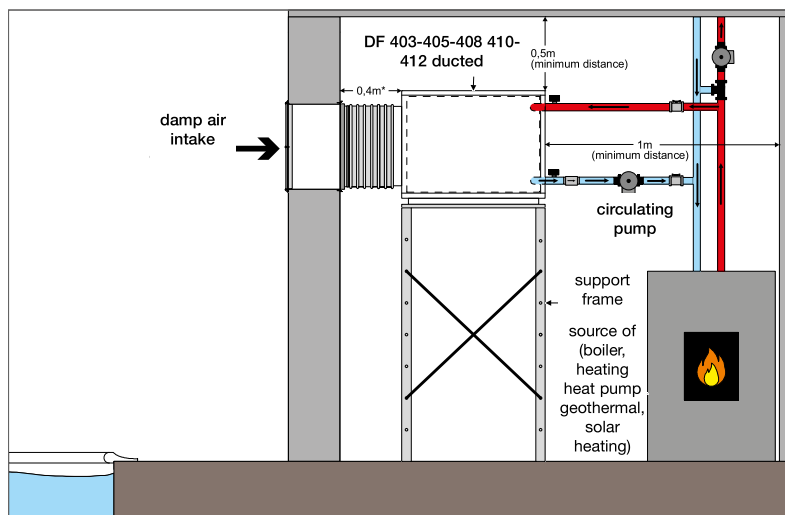
HOT WATER COIL SPECIFICATIONS

	DF 403M ducted	DF 405M ducted	DF 405T ducted	DF 408M ducted	DF 408T ducted
Power (kW) with primary at 50-40 °C / 90-70 °C	4,6 / 14,6			5,5 / 17,6	
Water flow (m³/h) with primary at 90/70°C	0,65			0,78	
Load loss (mmCE) with primary 90/70°C	59			81	
Connection (mm)	20 / 27 male thread				

INSTALLATION

- Installation in a technical room nearby the pool hall.
- Blower and intake grates mounted on the part to be mortared included with the appliance.
- Duct diameter: Ø 315 mini or 400 x 200.
- Possibility of double deflector grates to direct the hot dry air towards the windows.
- Reversible installation: right-hand (standard) or left-hand (optional) access to the technical door.
- Hot water coil and electric heating options are integrated outside the air outlet which adds a thickness to the installation. It is highly recommended to integrate these options during first installation.
- Air heating options (electric resistance and hot water coil) increase the overall dimensions of the units. It is recommended to plan their integration early in the design process. Find out more details in the installation guide.

Installation of an appliance with the hot water coil option (models 403 to 412).

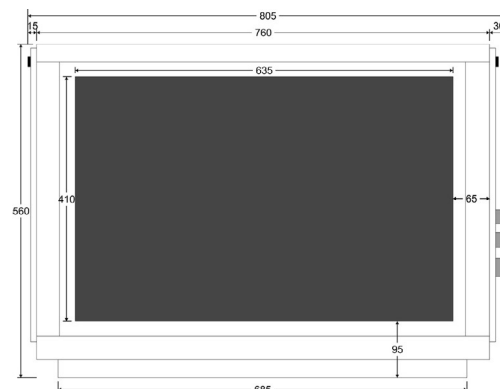
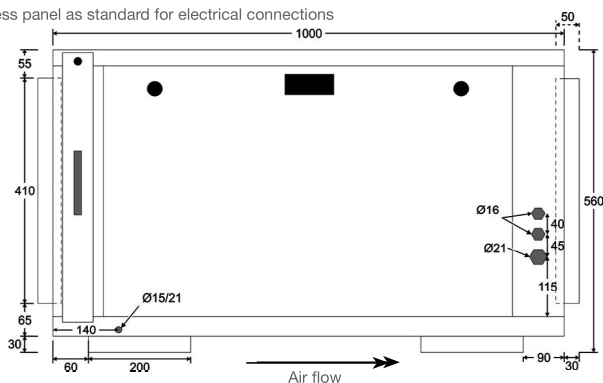


Spare parts p.314

DIMENSIONS (MM) AND WEIGHT

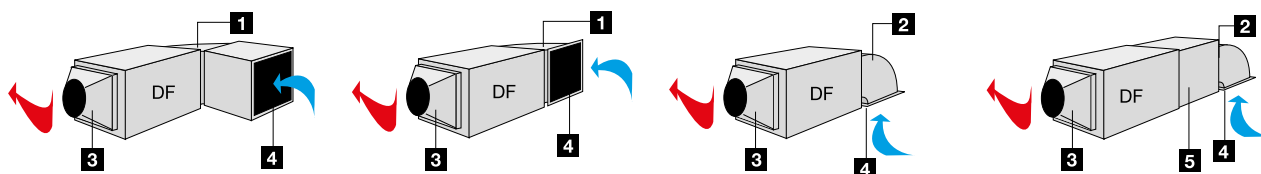
	DF 403M ducted	DF 405M ducted	DF 405T ducted	DF 408M ducted	DF 408T ducted
Weight (kg, excluding accessories and options)	113			117	

Access panel as standard for electrical connections



OPTIONAL ACCESSORIES

	1 Double deflector supply grate	2 Vertical angle 90°	3 Outlet DF Ø 315	3 Outlet DF Ø 400	4 Standard outlet 625 x 425	Circular sound trap with core Ø 315	5 Sound trap rectangular length 500 mm	DF Chassis support	Remote control electrical unit
reference	WCH03716	WCH03717	WCH03715	WCH03729	WTT02355	WCH03681	WCH03718	WTO04000	W28DEPORT





DF ducted 410 - 412 Horizontal ducted system

Dehumidification > DF ducted 410 - 412 - Horizontal ducted system

2 YEAR
WARRANTY

- + Horizontal, ducted installation
- + Available in 5 capacities (3.5 to 12 l/h)
- + Air heating options (electric heating or hot water coil)
- + Titanium water condenser option, enabling to re-use the excess heat to warm the pool



	DF 410M ducted	DF 410T ducted	DF 412T ducted****
PRODUCT REFERENCE			
Standard model	W28DF410MG	W28DF410G	W28DF412G
Model with water condenser option	W28DF410MGC	W28DF410GC	W28DF412GC
Model with electric heating option	W28DF410MGE	W28DF410GE	W28DF412GE
	4,5 kW	9 kW	9 kW
Model with electric heating option and water condenser	W28DF410MGEC	W28DF410GEC	W28DF412GEC
	4,5 kW	9 kW	9 kW
Model with hot water coil option	W28DF410MGB	W28DF410GB	W28DF412GB
	23 kW	23 kW	23 kW
Model with hot water coil option and water condenser	W28DF410MGBC	W28DF410GBC	W28DF412GBC
	23 kW	23 kW	23 kW

ACCESSORIES INCLUDED IN THE PACK



Hygro control box

TECHNICAL SPECIFICATIONS

	DF 410M ducted	DF 410T ducted	DF 412T ducted
Capacity (l/h)*	10		12
Absorbed power*** (W)	3470		4170
Air flow (m³/h)	2000		
Available pressure (mmCE)	10		
Electric power supply	220-240V / 1 N~ / 50Hz	380-400V / 3N~ / 50Hz	
Max. absorbed intensity (A)***	20,5	11,9	14
Refrigerant fluid quantity (kg)	2,7 / 2,82 (1)		2,9 / 3,82 (1)
Evacuation of condensate	PVC 1/2 union, Ø 32, glued		
Acoustic Power ((dB(A))**	-		76,7

For all DF orders a deposit of 30% will be requested with the order.

* Standard unit, in the following nominal conditions: air 30°C, humidity 70%.

** Values measured and certified in compliance with EN ISO 3741 & EN ISO 354 standards, by CCTM (Centre de Transfert de Technologie du Mans) on standard units.

*** excluding the power consumption of electric heating option.

**** DF412 in single phase on request.

(1) for units with water condenser option.

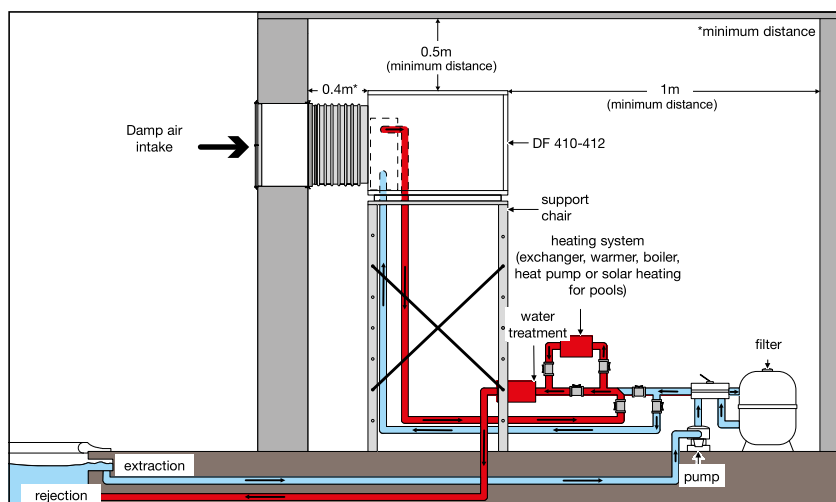
HOT WATER COIL SPECIFICATIONS

	DF 410M ducted	DF 410T ducted	DF 412T ducted
Power (kW) with primary at 50-40 °C / 90-70 °C	7 / 23		
Water flow (m³/h) with primary at 90/70°C	1,1		
Load loss (mmCE) with primary 90/70°C	204		
Connection (mm)	20 / 27 male thread		

INSTALLATION

- Installation in a technical room nearby the pool hall.
- Available pressure 10 mmCE making it possible to install a duct network to carry hot, dry air the length of the window bays.
- Duct diameter: Ø 400 mini or 400 x 300.
- Reversible installation: right-hand (standard) or left-hand (optional) access to the technical door.
- Hot water coil and electric heating options are integrated outside the air outlet which adds a thickness to the installation. It is highly recommended to integrate these options during first installation.
- Air heating options (electric resistance and hot water coil) increase the overall dimensions of the units. It is recommended to plan their integration early in the design process. Find out more details in the installation guide.

Installation of an appliance with the condenser option (models 410 ducted and 412 ducted only).

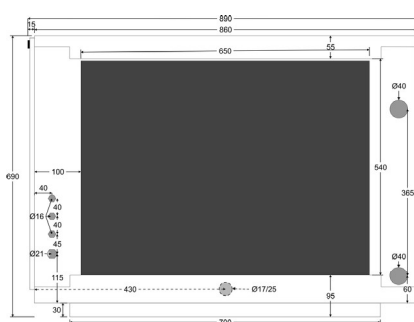
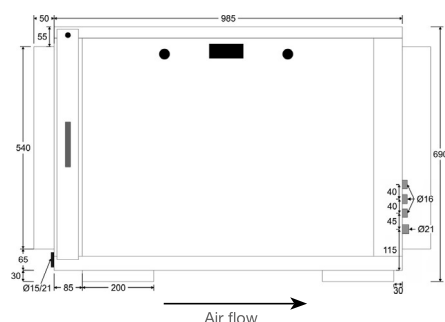


 Spare parts p.314

WEIGHT

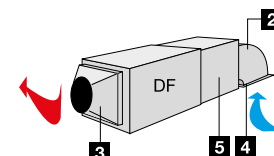
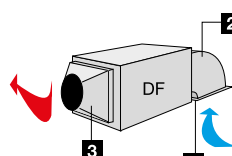
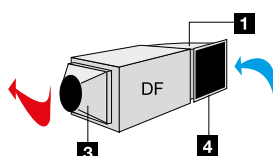
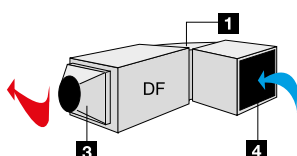
	DF 410M ducted	DF 410T ducted	DF 412T ducted
Weight (kg, excluding accessories and options)	147		149

Access panel as standard for electrical connections



OPTIONAL ACCESSORIES

	1	2	3	4	5		
	Horizontal angle 90°	Vertical angle 90°	Outlet DF Ø 400	Standard outlet 625 x 425	Sound trap rectangular length 635 x 525 long. 500 mm	DF Chassis support	Remote control electrical unit
reference	WCH03698	WCH03699	WCH03700	WTT02355	WCH03709	WTO04000	W28DEPORT





CAE

Dehumidification > CAE - Vertical ducted unit

- + Vertical, ducted installation with modular air intake/outlet configurations
- + Available in 4 capacities (8 to 13.5 l/h)
- + Air heating options (electrical heating or hot water coil)
- + Titanium water condenser option, enabling to re-use the excess heat to warm the pool



2 YEAR
WARRANTY



	CAE 508M ducted****	CAE 508T ducted****	CAE 510T ducted****		CAE 513T ducted****	
PRODUCT REFERENCE						
Standard model	W28CAE8M	W28CAE8	W28CAE10		W28CAE13	
Model with water condenser option	W28CAE8MC	W28CAE8C	W28CAE10C		W28CAE13C	
Model with electric heating option	W28CAE8ME	W28CAE8E	W28CAE10E9	W28CAE10E18	W28CAE13E9	W28CAE13E18
	4,5 kW	9 kW	9 kW	18 kW	9 kW	18 kW
Model with electric heating option and water condenser	W28CAE8MEC	W28CAE8EC	W28CAE10E9C	W28CA10E18C	W28CAE13E9C	W28CA13E18C
	4,5 kW	9 kW	9kW	18kW	9 kW	18 kW
Model with hot water coil option	W28CAE8MB	W28CAE8B	W28CAE10B		W28CAE13B	
	23 kW	23 kW	35 kW		41 kW	
Model with Model with hot water coil option and water condenser	W28CAE8MBC	W28CAE8BC	W28CAE10BC		W28CAE13BC	
	23 kW	23 kW	35 kW		41 kW	

ACCESSORIES INCLUDED IN THE PACK



Hygro control box

TECHNICAL SPECIFICATIONS

	CAE 508M ducted	CAE 508T ducted	CAE 510T ducted	CAE 513T ducted
Capacity (l/h)*	8		10	13,5
Absorbed power*** (W)	2710		4040	5430
Nominal airflow (m³/h)	2040		2720	3400
Air flow (m³/h)	2400		3050	3800
Min. air flow (m³/h)	1780		2380	2970
Available pressure (mmCE)	15		19	23
Electric power supply	220-240V / 1 N~ / 50Hz		380-400V / 3N~ / 50Hz	
Nominal absorbed intensity (A)***	17,5	5,3	8,5	11
Max. absorbed intensity (A)***	37,1	8	14,5	17
Refrigerant fluid quantity (kg)	1,3/1,45 (1)		2,2/2,5 (1)	
Accoustic Power ((dB(A))**	-	77,6	-	77,6

For all CAE orders a deposit of 30% will be requested with the order.

* Standard unit, in the following nominal conditions: air 30°C, humidity 70%.

** Values measured and certified in compliance with EN ISO 3741 & EN ISO 354 standards, by CCTM (Centre de Transfert de Technologie du Mans) on standard units.

*** excluding the power consumption of electric heating option.

**** An annual check of the sealing of the refrigerating circuit must be carried out for all refrigerating equipment with a load in refrigerating fluid >2 kg and < 30 kg (cf. Art 3 7/05/05 regulation, French decree n° 737-2007).

CAE 510 single phase on request.

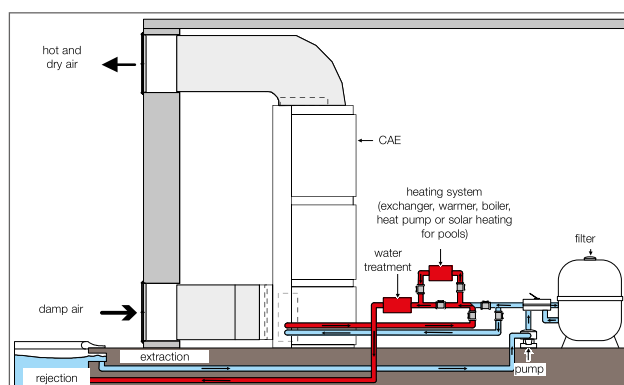
(1) for units with water condenser option.

HOT WATER COIL SPECIFICATIONS

	CAE 508M ducted	CAE 508T ducted	CAE 510T ducted	CAE 513T ducted
Power (kW) with primary at 50-40 °C / 90-70 °C	5,9 / 23		9,8 / 35	11,6 / 41
Water flow (m³/h) with primary at 90/70°C	1		1,6	1,9
Load loss (mmCE) with primary 90/70°C	1250		1900	2500
Connection (mm)	20 / 27 male thread			

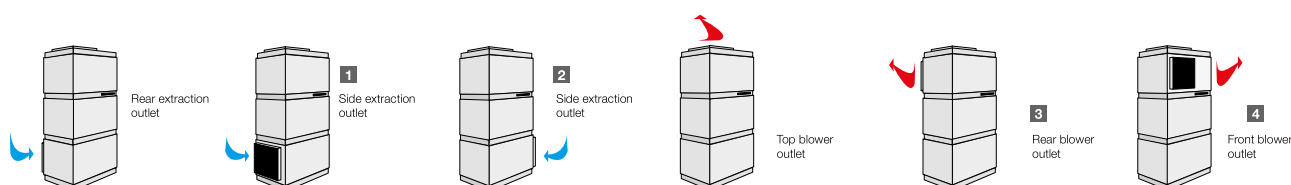
EXTRACTION AND BLOWER OPTIONS

- Installation of an appliance with the TITANIUM water condenser option.
- Damp air intake: the standard intake is installed in the lower part at the rear of the CAE. Optionally, the intake can be installed in the lower part on the left or right hand sides of the CAE.
- Dry air blower: the standard dry air blower is installed in the upper part on the top of the CAE. Optionally the blower can be installed on the top part on the front or rear face of the CAE.



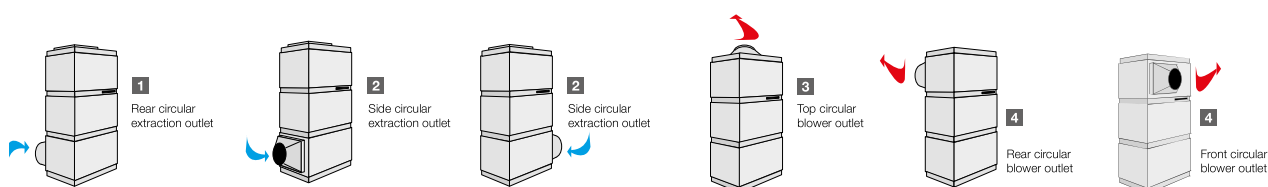
EXTRACTION AND SUPPLY

Extractor on the left (frame + filter)	1	W28REGA
Extractor on the right (frame + filter)	2	W28REDR
Rear blower (frame)	3	W28SOAR
Front blower (frame)	4	W28SOAV





	CAE 508M ducted****	CAE 508T ducted****	CAE 510T ducted****	CAE 513T ducted****
AIR EXTRACTION AND SUPPLY ACCESSORIES				
Diameter	Ø 400		Ø 500	
Circular rear extraction accessories ⁽¹⁾	1	WCH01245	WCH01246	
Circular side extraction accessories ⁽¹⁾	2	WCH01247	WCH01248	
Circular top extraction accessories ⁽²⁾	3	WCH01249	WCH01250	
Circular front/rear blower accessories ⁽¹⁾	4	WCH01249	WCH01250	

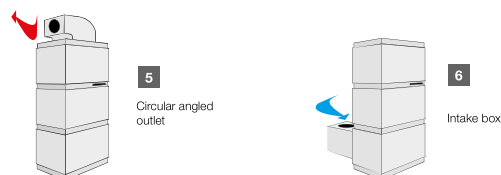


(1) Plan the left or right option

(2) Plan the front or rear blower option. For other metalwork, contact us

EXTRACTION AND SUPPLY BOX		
Diameter	Ø 400	Ø 500
Circular angled outlet	WCH01251	WCH01252
System central intake box	WCH01253	WCH01254
Intake box for 625 x 425 grate	WCH03719	Contact us

Other accessories or casing: contact us



SOUND TRAP		
Diameter	Ø 400	Ø 500
Sound trap	WCH03682	WCH03683

Circular sound trap with Ø 400 central core for CAE 508 et Ø 500 core for CAE 510, 513. Can be mounted on the intake or blower side.

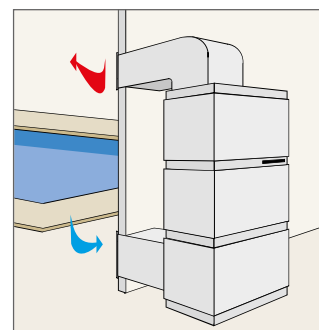
****An annual check of the sealing of the refrigerating circuit must be carried out for all refrigerating equipment with a load in refrigerating fluid >2 kg and < 30 kg (cf. Art 3 7/05/05 regulation, French decree n° 737-2007).

CAE 510 single phase on request.

(1) for units with water condenser option

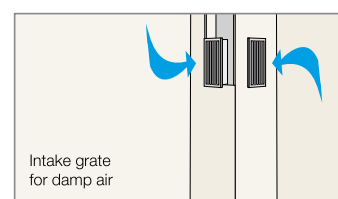
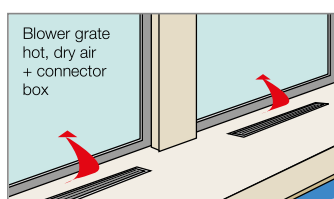
OPTIONAL ACCESSORIES

	625 x 425 grate (plan for 2 grates)	Double 625 x 425 deflector (blower)	Sound trap	Blower angle	Remote regulator box for the dehumidifier	Remote regulator box for 2 dehumidifiers
reference	WTT02355	WTT02366	WCH01234	WCH01255	R0771000	R0771100



CAE TECHNICAL ROOM + DUCTS

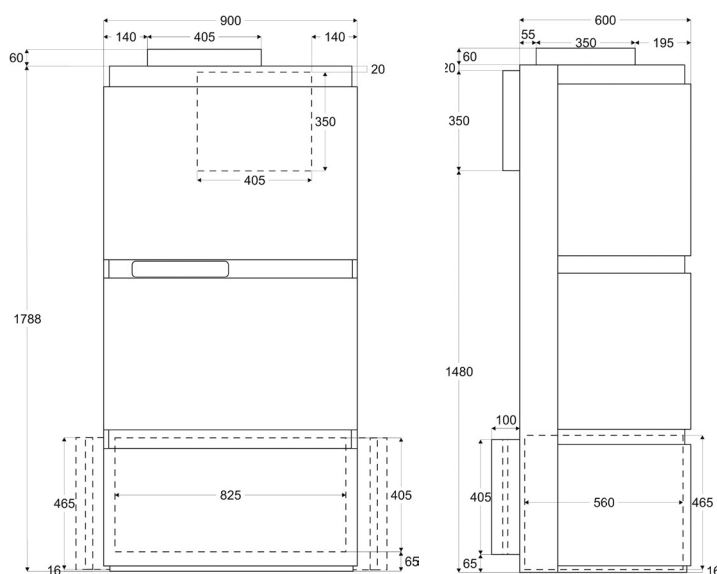
- Installation of an appliance with the TITANIUM water condenser option.
- Damp air intake: the standard intake is installed in the lower part at the rear of the CAE. Optionally, the intake can be installed in the lower part on the left or right hand sides of the CAE.
- Dry air blower: the standard dry air blower is installed in the upper part on the top of the CAE. Optionally the blower can be installed on the top part on the front or rear face of the CAE.



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DIMENSIONS (MM) AND WEIGHT

	CAE 508M ducted	CAE 508T ducted	CAE 510T ducted	CAE 513T ducted
Weight (kg, excluding accessories and options)	228		235	240





OMEGA Central unit

Dehumidification > OMEGA - Central unit

- + Vertical, ducted installation with modular air intake/outlet configurations
- + Available in 5 capacities (10 to 28 l/h)
- + Air heating options (electrical heating or hot water coil)
- + Titanium water condenser option, enabling to re-use the excess heat to warm the pool



2 YEAR
WARRANTY



	OMEGA 10T ducted	OMEGA 14T ducted	OMEGA 16T ducted	OMEGA 20T ducted	OMEGA 28T ducted
PRODUCT REFERENCE					
Standard model	W28OM10	W28OM14	W28OM16	W28OM20	W28OM28
Model with water condenser option	W28OM10C	W28OM14C	W28OM16C	W28OM20C	W28OM28C
Model with electric heating option	W28OM10E	W28OM14E	W28OM16E	W28OM20E	W28OM28E
	9 kW	9 kW	18 kW	18 kW	18 kW
Model with electric heating option and condenser	W28OM10EC	W28OM14EC	W28OM16EC	W28OM20EC	W28OM28EC
	9 kW	9 kW	18 kW	18 kW	18 kW
Model with hot water coil option	W28OM10B	W28OM14B	W28OM16B	W28OM20B	W28OM28B
	24 kW	34 kW	42 kW	53 kW	76 kW
Model with hot water coil option and condenser	W28OM10BC	W28OM14BC	W28OM16BC	W28OM20BC	W28OM28BC
	24 kW	34 kW	42 kW	53 kW	76 kW

ACCESSORIES INCLUDED IN THE PACK



Hygro control box

	OMEGA 10T ducted****	OMEGA 14T ducted****	OMEGA 16T ducted****	OMEGA 20T ducted****	OMEGA 28T ducted****
TECHNICAL SPECIFICATIONS					
Capacity (l/h)*	10	14	16	20	28
Absorbed power*** (W)	3 840	4 390	5 830	6 430	9 900
Air flow (m³/h)	3 000	4 000	5 000	6 000	8 500
Available pressure (mmCE)	20				
Electric power supply	380-400V / 3N~ / 50Hz				
Nominal absorbed intensity (A)***	7,6	9	12	16,4	19
Max. absorbed intensity (A)***	13	16	18,5	20,1	23,8
Refrigerant fluid	R407C				
Refrigerant fluid quantity (kg)	3,5/3,8 (1)		3,5/3,9 (1)	3,5/3,8 (1)	8,2/8,5 (1)
Acoustic Power ((dB(A))**	-	83,6	-	82	-

For all OMEGA orders a deposit of 30% will be requested with the order.

* Standard unit, in the following nominal conditions: air 30°C, humidity 70%.

** Values measured and certified in compliance with EN ISO 3741 & EN ISO 354 standards, by CCTM (Centre de Transfert de Technologie du Mans) on standard units.

*** excluding the power consumption of electric heating option.

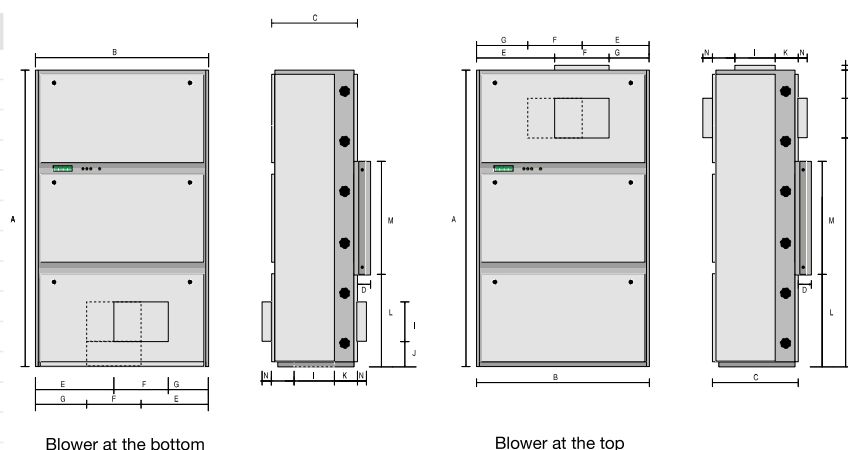
**** An annual check of the sealing of the refrigerating circuit must be carried out for all refrigerating equipment with a load in refrigerating fluid >2 kg and < 30 kg (cf. Art 3 7/05/05 regulation, French decree n° 737-2007).

(1) for units with water condenser option.

HOT WATER COIL SPECIFICATIONS					
Power (kW) with primary at 50-40 °C / 90-70 °C	9,5 / 24	11,6 / 34	13,6 / 42	15,2 / 53	23 / 76
Water flow (m³/h) with primary at 90/70°C	1,66	2,03	2,35	2,64	3,98
Load loss (mmCE) with primary 90/70°C	930	1340	1760	2170	1410
Connection (mm)	20 / 27 male thread				

DIMENSIONS (MM) AND WEIGHT					
	OMEGA 10T ducted	OMEGA 14T ducted	OMEGA 16T ducted	OMEGA 20T ducted	OMEGA 28T ducted
Weight (kg, excluding accessories and options)	342	344	346	397	505

	Oméga 10 to 20	Oméga 28
A	1940	2170
B	1150	1734
C	625	652
D	70	102
E	445	413
F	410	908
G	295	413
H	240	190
I	345	387
J	75	240
K	225	216
L	655	673
M	630	824
N	60	50
O	20	0
Extractor Width	1060	1650



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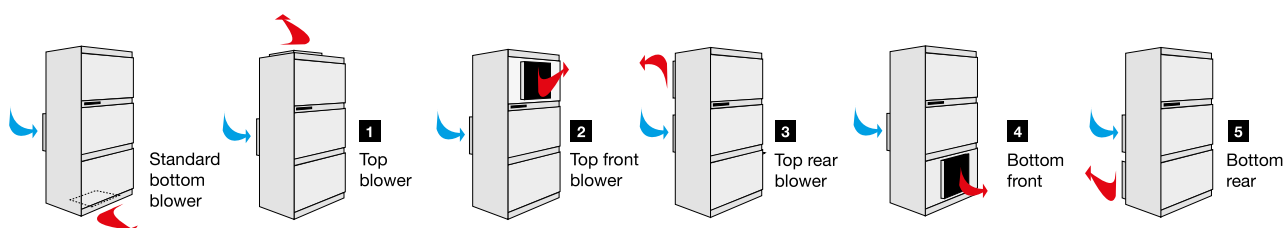


OMEGA Central unit

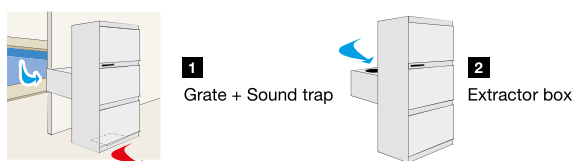
Dehumidification > OMEGA - Central unit

		OMEGA 10T ducted	OMEGA 14T ducted	OMEGA 16T ducted	OMEGA 20T ducted	OMEGA 28T ducted
BLOWER OPTIONS						
Blower on the top	1		W28SODE		W28SODE20	W28SODE28
Blower on the top to the front	2		W28SOHAV		W28SOHAV20	W28SOHAV28
Blower on the top to the rear	3		W28SOHAR		W28SOHAR20	W28SOHAR28
Blower on the bottom to the front	4			W28SOBAV		
Blower on the bottom to the rear	5			W28SOBAR		

The standard blower on the OMEGA systems is installed under the system (blower inversed compared to the CEA). Optionally, blower can be installed on the top or bottom and either to the front of the rear.



		OMEGA 10T ducted	OMEGA 14T ducted	OMEGA 16T ducted	OMEGA 20T ducted	OMEGA 28T ducted
OMEGA INTAKE						
Extractor grate 1000 x 600 (4000 à 6000 m³/h) with counter frame	Grate			WFA01477		
	Counter frame			WFA01479		
Sound trap 600 mm (for direct intake from 100 X 600 grate)	1			WCH01236		
Extraction box for Omega systems	2	Caisson	WCH02822		WCH03048	WCH03049
		Diameter	Ø500		Ø630	Ø500
Intake box for 1000 x 600 grate		Caisson	WCH02822		WCH03048	WCH03049
		Diameter	Ø500		Ø630	Ø500

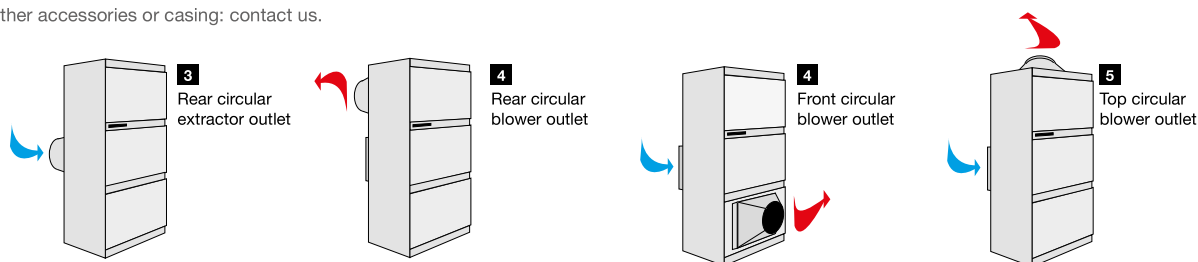


OMEGA 10T ducted	OMEGA 14T ducted	OMEGA 16T ducted	OMEGA 20T ducted	OMEGA 28T ducted
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EXTRACTION AND SUPPLY ACCESSORIES

Diameter	Ø500	Ø630	2 x Ø500
Rear circular extractor accessories 3	WCH03701	WCH03702	WCH03703
Front/rear circular blower accessories 4	WCH03595	WCH03331	WCH03704
Upper circular blower accessories 5	WCH03705	WCH03706	WCH03707

Other accessories or casing: contact us.



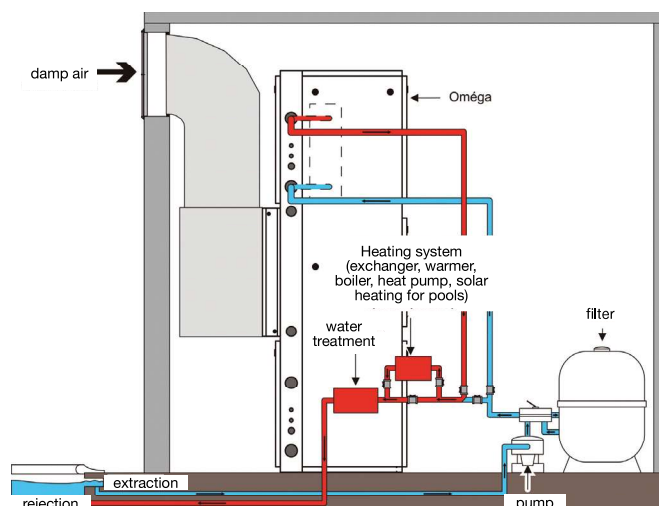
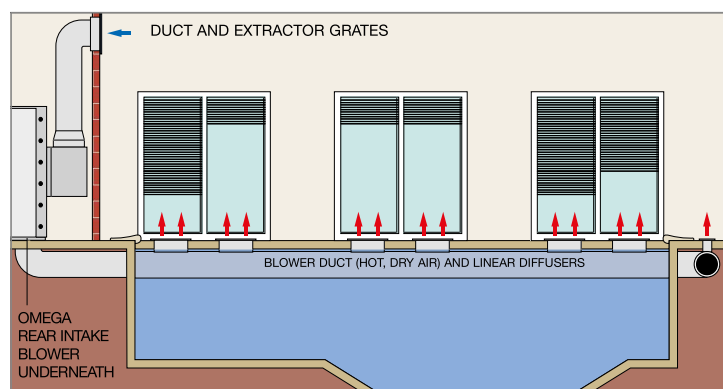
OPTIONAL ACCESSORIES

	Filters for OMEGA 10, 14, 16 et 20 tri	Filters for OMEGA 28 tri	Remote regulator box for the dehumidifier
reference	WSD01916	WSD03350	R0771000



INSTALLATION

- Installation in a technical room nearby the pool hall.
- Damp air extractor frame on the rear face for connection to wall or ceiling extractor duct.
- Hot, dry air blower either under or over the system for direct assembly on buried ducts or ceiling service area ducts.
- Simplified aeraulic assembly with very little load loss making it possible to keep the available ventilator pressure for the duct network.
- Hot water coil or extra electric heating fitted inside the system (see options).
- A remote regulator box, temperature sensor and humidity sensor in a duct and box enable you to adjust the operation of one unit or two dehumidifier units.



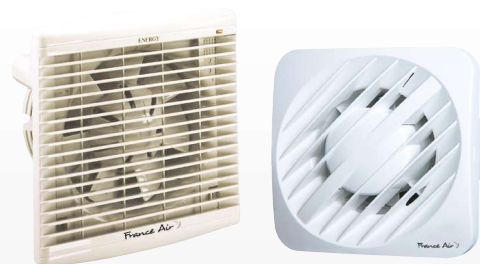


ENERGY Fan

Dehumidification > ENERGY Fan -

2 YEAR
WARRANTY

- + Air renewal: better pool hall hygiene
- + Wall-mounted fan with backdraft damper
- + Aesthetic finish and silent working



	ENERGY 150 FAN	ENERGY 500 FAN	ENERGY 900 FAN	ENERGY 1800 FAN
PRODUCT REFERENCE				
Standard model	WD001208	WD001209	WD001210	WD001211

ACCESSORIES INCLUDED IN THE PACK

- Through-the-wall duct
- Outdoor grate

EQUIPMENT

- Plan a fresh air intake (featuring an incoming airflow lower or equal to the fan's extraction airflow so as to guarantee a slight underpressure in the pool hall.)
- Axial fan
- ABS body
- 150 Model : 1 speed extract fan, control with switch or servo control (cord included)
- 500, 900 and 1800 Models : variable speed, start only with RC4M control box (sold as accessory)

TECHNICAL SPECIFICATIONS

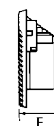
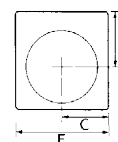
Max. extraction airflow	280	445	918	1820
Eco extraction airflow	-	245	820	1341
Max. absorbed power	33	38	50	100
Eco absorbed power	-	20	37	70
Max. sound pressure at 3 m	43	45	49	51
Eco sound pressure at 3 m	-	27	46	45
Electric power supply	220-240V / 1 N~ / 50Hz	220-240V / 1 N~ / 50Hz	220-240V / 1 N~ / 50Hz	220-240V / 1 N~ / 50Hz

DIMENSIONS (MM) AND WEIGHT

Weight (kg)	0,99	4,6	4,9	9,5
A x B	200 x 200	269 x 272	342 x 342	420 x 420
C	100	134,5	171	206,5
D	100	737,5	175	214,5
E	200	269	337	413
F	114,5	128	130	169,4
Wall opening	Ø160	260 x 260	330 x 330	410 x 410
Wall width (min/max)	100/375	200/380	200/380	200/380

OPTIONAL ACCESSORIES

	RC4M control box for Energy 500, 900 and 1800 Box to control up to 5 fans
reference	WD001212





CANAL FAST Fan

Dehumidification > CANAL FAST Fan -

2 YEAR
WARRANTY

- + Air renewal: swimming pool hygiene maintained
- + Centrifugal fan motor in duct
- + Easy to install with quick-fix system



CANAL FAST 125

CANAL FAST 160

CANAL FAST 200

PRODUCT REFERENCE

Standard model	WFA03484	WFA03485	WFA03486
----------------	----------	----------	----------

EQUIPMENT

- Use a fresh air inlet (fresh air flow less than or equal to the ventilator flow rate) to slightly reduce pressure in the pool room
- Install horizontally or vertically at all points along the duct
- Housing: polypropylene body and flanges - IPX4 protection
- Turbine: centrifugal reaction, ABS helix, mounted directly onto the body of the engine, polypropylene flanges - IPX4 protection
- External 2-speed rotary engine, IPX4
- Built-in mounting system with locking collars

TECHNICAL SPECIFICATIONS

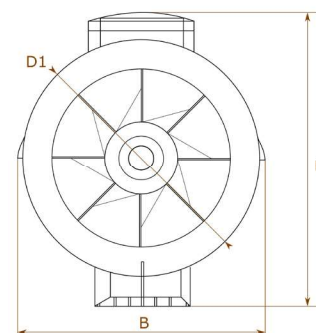
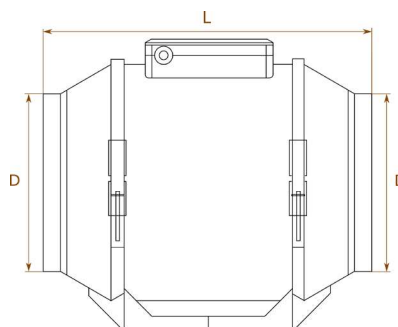
Max. extraction airflow	285/345	467/552	830/1040
Power (W)	47/65	54/76	90/125
Max. sound pressure at 3 m	31 / 42	33 / 44	45 / 52
Electric power supply	220-240V / 1 N~ / 50Hz	220-240V / 1 N~ / 50Hz	220-240V / 1 N~ / 50Hz

DIMENSIONS (MM) AND WEIGHT

Weight (kg)	3	3,4	6,5
D	123	158	197
D1	185	185	209
H	250	250	261
B	220	220	239
L	295	295	296

OPTIONAL ACCESSORIES

	Variable speed driver
reference	WFA03488





Floor slot diffusers

Dehumidification > Floor Slot diffusers

- + Attractive and discreet design : perfect integration flush with the level of the floor
- + Ideal air supply distribution : solution specially adapted for bay windows (air supply along the bay window)
- + New products, new heights, and new kits to make installation easier



Minimum manufacturing time : 3 weeks

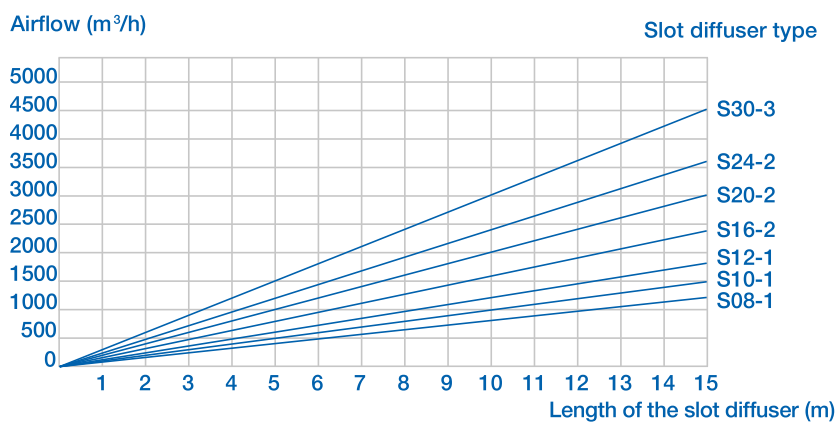
Height (mm)	S08-1	S10-1	S12-1	S16-2	S20-2	S24-2	S30-3
100-150	WD001422	WD001424	WD001426	WD001429	WD001431	WD001433	WD001435
150-200	WD001423	WD001425	WD001427	WD001430	WD001432	WD001434	WD001436

*The height corresponds to that between the concrete slab and the finished level. It must not be less than 10 cm.

Floor slot diffusers can be cut straight across or at a 45° angle to the desired length (within dimension limits).
Floor slot diffusers are provided with any Zodiac dehumidifier unit order.
Contact our Design Office (BE@zodiac.com) for design and quotation.

TECHNICAL SPECIFICATIONS

The slot diffuser selection (number of slots) depends on the airflow and on the length of the diffuser.

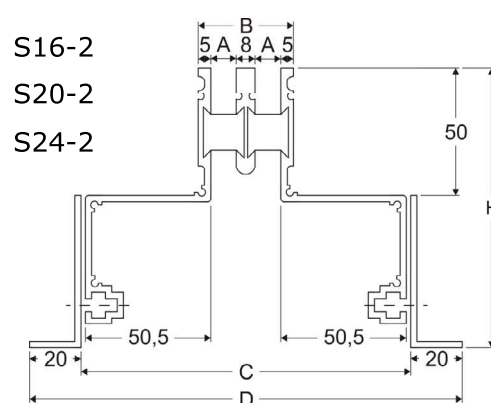
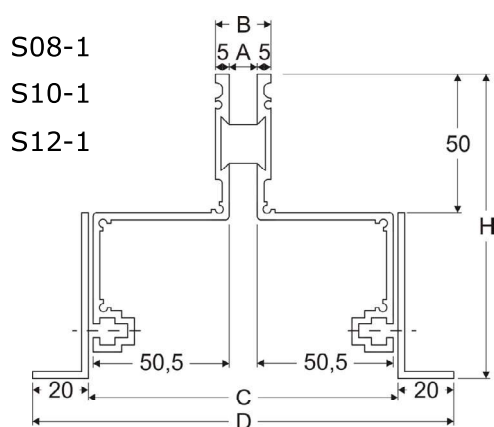


Type and quantity of tapping to order for each metre of floor slot diffuser

Type of floor slot diffuser	S08-1	S10-1	S12-1	S16-2	S20-2	S24-2	S30-3
Tapping/linear metre	2xD100	2xD100	2xD100	3xD100 or 2xD125	3xD100 or 2xD125	2xD160	2xD160

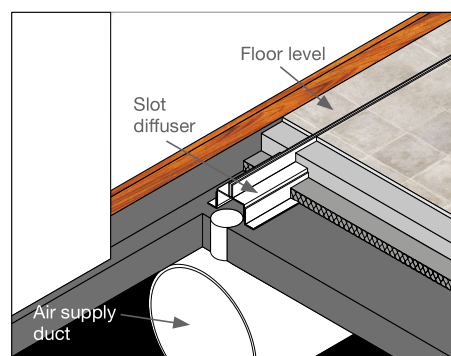
DIMENSIONS (MM)

	A	B	C	D	H
S08-1	8	18	109	149	2 possible heights: • 100 to 150 mm • 150 to 200 mm
S10-1	10	20	111	151	
S12-1	12	22	113	153	
S16-2	8	34	125	165	
S20-2	10	38	129	169	
S24-2	12	42	133	173	
S30-3	10	56	147	187	



INSTALLATION

Example with a hollow block floor





Ventilation accessories

Dehumidification > Ventilation accessories

FRESH AIR ACCESSORIES

Fresh air grate with weather protection grate and wall duct (wall thickness 250 to 400mm)
Canal Fast : compact fan to be installed in a duct

Designation / Model	Reference
grate PA160 (200 m³/h)	WFA03480
grate PA200 (300 m³/h)	WFA03481
grate PA250 (400 m³/h)	WFA03482
grate PA315 (700 m³/h)	WFA03483
Damper Ø160	WCH03758
Damper Ø200	WCH03759
Damper Ø250	WCH03760
Damper Ø315	WCH03761

EXTRACTOR OR BLOWER GRATE

Natural anodised aluminium grate with sealing frame. Plan to use standard grates for the intake and double deflector option grates for the blowers. Plan for adjusters when there are several blower grates. Wall or ceiling mounted. Galvanised adapters can be used to connect the grate directly to the circular duct. Res.: 610 x 210 or 610 x 410.

Position	Designation / Model	Reference
6	Damper + double deflection 625 x 225	WTT02369
	Damper + double deflection 625 x 425	WTT02370
	625 x 225 grate (flow 500 to 1250 m³/h)	WTT02354
	625 x 225 counter frame	WTT02358
	625 x 425 grate (flow 1250 to 2500 m³/h)	WTT02355
	625 x 425 counter frame	WTT02359
	Double deflector 625 x 225	WTT02365
	Double deflector 625 x 425	WTT02366
	Regulator 625 x 225	WTT02367
	Regulator 625 x 425	WTT02368
7	Adapter 600 x 200 (Ø 315)	WCH01226
	Adapter 600 x 200 (Ø 400)	WCH03684
	Adapter 600 x 400 (Ø 500)	WCH01227
	Adapter 600 x 400 (Ø 630)	WCH03685



GRATE FOR CIRCULAR DUCT

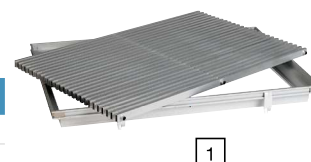
Steel grey painted blower grate, double deflector flow regulator. Direct assembly onto circular ducts.

Designation / Model	Reference
grate 625 x 75 on Ø 160 to 400 (250 m³/h)	WFA03467
grate 625 x 125 on Ø 315 to 900 (400 m³/h)	WFA03309
Regulator 625 x 75	WFA03468
Regulator 625 x 125	WFA03310

REINFORCED 600 X 400 GROUND ATE

Reinforced natural aluminium ground grate. Sealing frame supplied. Reinforced frames and profiles.

Position	Designation / Model	Reference
1	Floor grate 600 x 400 (flow 1000 to 2500 m³/h)	WPA01804



CEILING SLOT DIFFUSER

Anodised natural aluminium ceiling slot diffuser with adapter and regulator. Installation in ceiling service area. Height 285 mm. Ø 160 connection prepared.

Position	Designation / Model	Reference
8	2 Slot diffuser L 900 mm (250 m³/h)	WAL03030
9	Flexible duct Ø 160 (linear m)	WCH01183
10	Connection 45°, Ø 160/315	WCH01256
	Connection 45°, Ø 160/315	WCH01256
	Punching 45° Ø 160/400	WCH01260

FLEXIBLE DUCT

Position	Designation / Model	Reference
9	Flexible duct Ø 160 (linear m)	WCH01183
	Flexible duct Ø 200 (linear m)	WCH01185
	Flexible duct Ø 315 (linear m)	WCH01186
	Flexible duct Ø 400 (linear m)	WCH01187
	Flexible duct Ø 500 (linear m)	WCH01188

BLOWER GRATE

Natural anodised aluminium, fixed wing, flow regulation included. Connection, rectangular and connecting boxes: galvanised metal box fitted between the grate and the blower duct, see diagram below.

Position	Designation / Model	Reference
2	Supply grate 500 x 50 (flow 75 to 125 m³/h) reservation	WAL03029
	Supply grate 500 x 75 (flow 125 to 175 m³/h) reservation	WAL02750
	Supply grate 1000 x 50 (flow 150 to 250 m³/h) reservation	WAL02748
	Supply grate 1000 x 75 (flow 250 to 350 m³/h) reservation	WAL02751
	Supply grate 1000 x 100 (flow 350 to 500 m³/h) reservation	WAL03028
3	Rectangular Connection 500 x 50 Adjustable height 200 to 340 mm	WCH03691
	Rectangular Connection 500 x 75 Adjustable height 200 to 340 mm	WCH01219
	Rectangular Connection 1000 x 50 Adjustable height 200 to 340 mm	WCH01220
	Rectangular Connection 1000 x 75 Adjustable height 200 to 340 mm	WCH01221
	Rectangular Connection 1000 x 100 Adjustable height 200 to 340	WCH03692
4	Connection box 500 x 50 Connection Ø 160 mm	WCH03693
	Connection box 500 x 75 Connection Ø 160 mm	WCH01222
	Connection box 1000 x 50 Connection Ø 160 mm	WCH01223
	Connection box 1000 x 75 Connection Ø 160 mm	WCH01224
	Connection box 1000 x 100 Connection Ø 200 mm	WCH03000
5	Under-floor connection box 500 x 50 Connection Ø 160 mm	WCH03710
	Under-floor connection box 500 x 75 Connection Ø 160 mm	WCH03711
	Under-floor connection box 1000 x 50 Connection Ø 160 mm	WCH03712
	Under-floor connection box 1000 x 75 Connection Ø 160 mm	WCH03713
	Under-floor connection box 1000 x 100 Connection Ø 200 mm	WCH03714

2 + 3



2 + 4



5



FITTING ACCESSORIES

Complete set including: perforated fixing band (2 25 m rolls), cement (3 cartridges), adhesive (2 50 m rolls), suspenders with washers and fixtures.

Position	Designation / Model	Reference
9	Fixing accessories set	WCH03728
	Fixing accessories set	WCH03728
	Flexible anti-vibration sleeve width 150 mm (price per metre)	WCH03409
	Flexible anti-vibration sleeve width 150 mm (price per metre)	WCH03409



9



Ventilation accessories

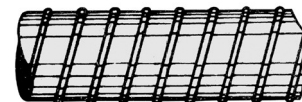
Dehumidification > Ventilation accessories

Ø 315 DUCTS AND ACCESSORIES

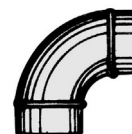
Galvanised metal elements thickness 6/10. Diameter Ø 315 for connection to DF 403, 405, 408. Ducts to be installed in galleries, ceiling service area, technical facility. Plan to use PVC for buried ducts.

Designation / Model	Reference
Flange (flat punching 90°) Ø 315	WCH01231
Galvanised duct Ø 315 (lm) shipped in 2m lengths	WCH01179
Galvanised elbow 90°, Ø 315	WCH01201
Galvanised elbow 45°, Ø 315	WCH01207
Male sleeve Ø 315	WCH01191
Female sleeve Ø 315	WCH03050
Cap Ø 315	WCH01196
T 90° equal Ø 315	WCH01211
Reduction Ø315/250	WCH03755

Circular duct



Elbow 90°



Ø 400 DUCTS AND ACCESSORIES

Galvanised metal elements thickness 6/10. Diameter Ø 400 for 410, 412 CAE 508. Ducts to be installed in galleries, ceiling service area, technical facility. Plan to use PVC for buried ducts.

Designation / Model	Reference
Punching 45° Ø 160/400	WCH01260
Galvanised duct Ø 400 (ml) shipped in 2m lengths	WCH01180
Galvanised elbow 90° Ø 400	WCH01203
Galvanised elbow 45° Ø 400	WCH01208
Male sleeve Ø 400	WCH01192
Female sleeve Ø 400	WCH03051
Cap Ø 400	WCH01197
T 90° equal Ø 400	WCH01212
Reducer Ø 400/315	WCH01215

Elbow 45°

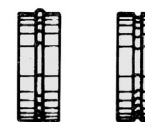


Ø 500 DUCTS AND ACCESSORIES

Galvanised metal elements thickness 6/10. Diameter Ø 500 for CAE 510-513 and OMEGA. Ducts to be installed in galleries, ceiling service area, technical facility. Plan to use PVC for buried ducts.

Designation / Model	Reference
Galvanised duct Ø 500 (ml) shipped in 2m lengths	WCH01181
Galvanised elbow 90° Ø 500	WCH01204
Galvanised elbow 45° Ø 500	WCH01209
Male sleeve Ø 500	WCH01193
Female sleeve Ø 500	WCH03052
Cap Ø 500	WCH01198
T 90° equal Ø 500	WCH01213
Reducer Ø 500/400	WCH01216
Reducer Ø 500/315	WCH01217

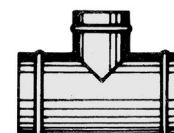
Sleeve



Cap



T 90° equal



Ø 630 DUCTS AND ACCESSORIES

Galvanised metal elements thickness 6/10. Diameter 630, for Omega 16-20. Ducts to be installed in galleries, ceiling service area, technical facility. Plan to use PVC for buried ducts.

Designation / Model	Reference
Galvanised duct Ø 630 (ml) shipped in 2m lengths	WCH01182
Galvanised elbow 90° Ø 630	WCH03329
Galvanised elbow 45° Ø 630	WCH03424
Male sleeve Ø 630	WCH03325
Female sleeve Ø 630	WCH03720
Cap Ø 630	WCH03330
T 90° equal Ø 630	WCH03326
Reducer Ø 630/500	WCH03327
Reducer Ø 630/400	WCH03328

Reducer





SET

INTRODUCTION

- Z600 Silent

p.132

p.133

DESHUMIDIFICATION SET

p.135

- SA 1

p.136

- SA 2

p.138

- SA 3

p.140

> A RANGE OF PREMIUM PRODUCTS



Since 2013, Zodiac has strengthened its top range with products from SET, relying on their recognized expertise and know-how in the field of dehumidification and heating of swimming pools. Designed for the most demanding consumers, products in the SET range are **made to order, for ultra-specific production with cutting-edge performance.**

> SET HEATING

A true gold standard in heat pumps, SET has designed an ultra-silent heat pump to heat the water in outdoor swimming pools.

Using **an optimised design combined with a variable-speed 'Green-Tech' fan**, Z600 Silent makes less noise than even the quietest dishwasher. It also meets the strictest standards relating to noise in the Swiss Canton of Basel.



> SET DEHUMIDIFICATION

SET dehumidification systems are cutting-edge solutions, designed to **dehumidify the air in indoor swimming pools**, whether private or public, small or large, luxury or functional.

In addition to dehumidifying the pool hall, they also renew the air while ensuring performance and energy savings.

The range of Zodiac® SET dehumidification systems is particularly recommended for hotels, medical facilities or sports and leisure centres.

> GERMAN HIGH QUALITY

Founded at Hemmingen in Germany over 30 years ago, SET has offered avant-garde products right from the very start, promoting **the unequalled quality and robustness of its equipment, 'Made in Germany'.**

Designed to operate sustainably, Zodiac® SET solutions comprise Titanium heat exchangers, anodised aluminium casings and a very high quality finish.



> A SIZING SERVICE AVAILABLE TO HELP YOU

Benefit from **the support of the Zodiac®** design office or size Zodiac® systems yourself on the internet using the **'BiPI' software**. To find out more, see the 'Services' section in the introduction to this catalogue.



REFERENCE POINT

Zodiac® offers service solutions to help you. Find these services in this catalogue using this pictogram.

- + Always the quietest
- + Industrial design, reflecting its strenght
- + Made to order in Germany



2 YEAR
WARRANTY

5 YEAR
CONDENSER
WARRANTY
ANTI-CORROSION





DETAILED DESCRIPTION

- Horizontal blowing
- Aluminum body with reinforced acoustic protection
- LCD (LED) display
- Variable speed (DC) fan with automatic noise reduction
- Automatic defrosting (cycle inversion)
- Anti-freeze thermostat
- HP & LP safety pressure switch
- Water flow switch
- Titanium water exchanger, compatible with salt water treatment
- On-off, Rotary vane compressor
- DC fan, variable speed (inverter)
- Thermostatic expansion valve

ACCESSORIES INCLUDED IN THE PACK

- Condensate drain kit
- Anti-vibration feet (MD7, TD7, MD9) or pads (TD9, TD12)

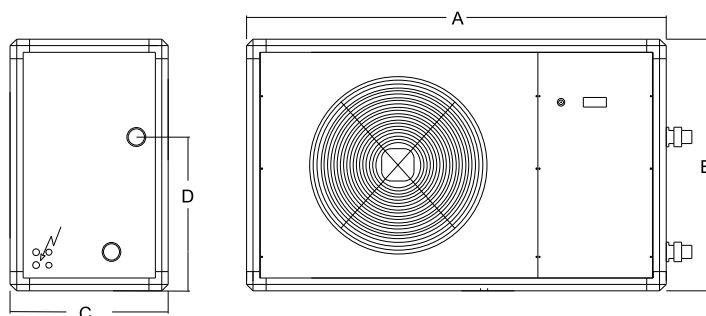
OPTIONAL ACCESSORIES

		
	Cleaning kit HP	New Remote control, Z600
Description	Specifically formulated for evaporator cleaning. Kit includes a 5L can and a spray bottle.	Transfers information and commands of the embedded interface. (Cable not provided).
Reference	WMA03491	R0871200

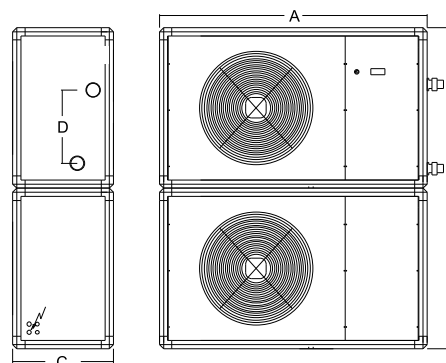
DIMENSIONS (MM) AND WEIGHT

	Z600 Silent MD5	Z600 Silent MD7	Z600 Silent TD7	Z600 Silent TD9	Z600 Silent TD12
Weight (kg)	95	106		180	212
A	1300	1450		1300	1450
B	780	970		1560	1840
C			490		
D			384		

Z600 Silent MD5 MD7 and TD7



Z600 Silent TD9 and TD12



	Z600 Silent MD5	Z600 Silent MD7	Z600 Silent TD7	Z600 Silent TD9	Z600 Silent TD12
PRODUCT REFERENCE					
Standard model	WH000377	WH000378	WH000379	WH000380	WH000381

PERFORMANCE: AIR AT 24°C / WATER AT 27°C / HUMIDITY 80%					
Operating power (kW)	12,4	16,2		25,7	34,7
Consumed power (kW)	1,83	2,38	2,35	3,93	5,18
COP	6,7	6,8		6,5	6,6
PERFORMANCE: AIR 15°C / WATER 26°C / HUMID. 70%					
Operating power (kW)	10,2	13,8		20,6	27,9
Consumed power (kW)	1,8	2,51	2,4	3,7	5,0
COP	5,6	5,5	5,8	5,5	5,6

TECHNICAL SPECIFICATIONS					
Recommended water flow (m³/h)	8	9		15	17
Hydraulic connection	PVC unions, ø 50 , glued				
Electric power supply	220-240V / 1 N~ / 50Hz		380-400V / 3N~ / 50Hz		
Nominal operating power (A)	9,2	12,7	5,2	8,3	10,8
Recommended power cable size*	3 x 2.5	3 x 4	5 x 2.5		5 x 4
Electrical protection	1P+N 16A		3P+N 16A		
Refrigerant fluid	R410A				
Refrigerant fluid quantity (kg)	0,8	1,65		1,8	2,8
Acoustic power	58,00			60,00	
Acoustic pressure at 10m (dB(A))**	27			29	

*Cable not provided. Recommended section for a maximum length of 20 meters.
 ** According to EN60704-1:2010+A11:2012 standard

CLIMATE ZONES	
Pool Volume (m3)	0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160
With cover	
Zone 7	
Zone 6	
Zone 5	
Zone 4	
Zone 3	
Zone 2	
Zone 1	
Without cover	
Zone 7	
Zone 6	
Zone 5	
Zone 4	
Zone 3	
Zone 2	
Zone 1	

This table is a sizing help tool. It is given for a private pool, from 15 may to 15 september, depth 1,5m, with a maximum temperature rise time of 4 days to heat the pool from 15°C to 28°C, 14h filtration time. Climatic zones details can be found in the introduction pages of the Heating chapter p.61.
 To get a customized sizing, please consult BILPI configurator: <https://pro.zodiac-poolcare.com/bilpi>

> DEHUMIDIFICATION SYSTEMS

SET dehumidification systems treat the air of indoor swimming pools, private or public, small or large, luxury or functional, in hotels, medical facilities or sports and leisure centres.

They provide:

- **Dehumidification,**
- **Air heating,**
- **Air replacement (or ventilation):** extraction of stale air and introduction of fresh air into the pool hall and, if necessary, adjoining spaces.

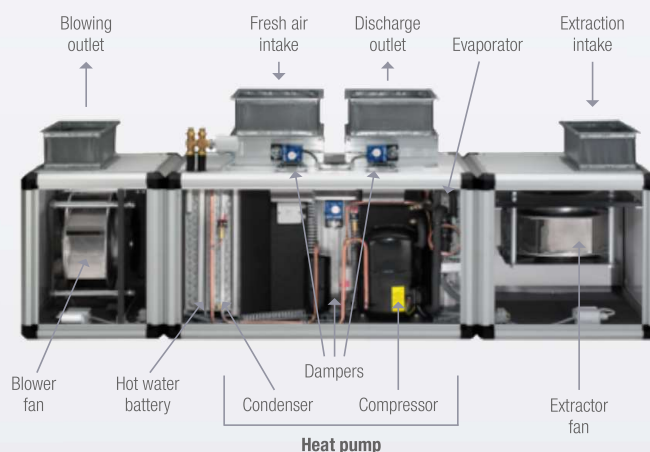
As an option, they can also be equipped with a **water-cooled condenser** to heat the water in the pool.

> DESCRIPTION

With modular construction (easy to transport) and an aluminium profile frame with insulated panels, dehumidification systems are equipped with:

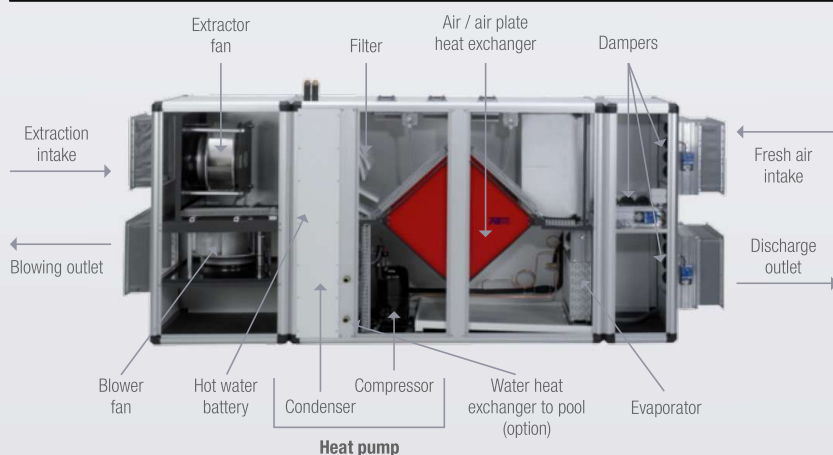
- A heat pump,
- A hot water battery,
- Low power direct current EC fans,
- Filters,
- Motorised dampers,
- Complete regulation performing control and regulation functions, with LCD screen.

SA1 SYSTEM



Heat pump

SA2 / SA3 SYSTEM



Heat pump

> DESCRIPTION

The SA2 and SA3 ranges are **also equipped with a EUROVENT-certified counter-current heat exchanger**, recovering up to 75% of the energy in the extracted air and so reducing the energy consumption needed to dehumidify, heat and renew the air in the swimming pool.

SELECTION GUIDE	SA1	SA2	SA3
Dehumidification capacity	< 38 L / h	< 38 L / h	< 159 L / h
Air renewal	•	•	•
Air / air heat exchanger	•	•	•
Integrated hot water battery	•	•	•
Swimming pool condenser (option)	•	•	•



- + Modular unit available for 6 capacities (6 to 38 L/h)
- + Operating mode managed automatically, including fresh air introduction
- + Top-of-the-range equipment
- + Water heating option (water condenser)

2 YEAR
WARRANTY



	SA1010	SA1020	SA1028	SA1040	SA1050	SA1060
PRODUCT REFERENCE						
Standard model	WD001006	WD001010	WD001014	WD001018	WD001022	WD001026
Standard model with water condenser	WD001007	WD001011	WD001015	WD001019	WD001023	WD001027
Mirror model	WD001008	WD001012	WD001016	WD001020	WD001024	WD001028
Mirror model with water condenser	WD001009	WD001013	WD001017	WD001021	WD001025	WD001029
Filter detection model	WD001055A					

Our design office is ready to propose the dehumidification unit, specifically dimensioned for your project, with its equipment. You'll gain a complete calculation of your installation and the best dehumidification solution on request : BE@zodiac.com

EQUIPMENT

- Heat pump, R407C refrigerant
- Low energy, direct current fans (EC)
- Aluminium profile frame with insulated panel
- Microprocessor control and regulation unit
- Motorised dampers to control air flow
- Temperature and humidity sensors
- Hot water battery with regulating valve
- Noise-suppressing mounts
- As fitted option:
 - Titanium condenser to heat the pool water, clock
 - Clock to program bathing and resting times
 - Filter detection to indicate filter clogging

TECHNICAL SPECIFICATIONS

Capacity as per VDI2089 liters /hr	6.3	12.7	17.8	25.4	31.8	38.1
Recycling capacity liters /hr	3.3	4.1	6.1	10.1	11.5	13.8
Air flow rate (m³/h)	1000	2000	2800	4000	5000	6000
Proportion of fresh air (%)	0-100					
Available pressure at air outlet	240			350		
Available pressure at the air intake	260	240		400		
Maximum absorbed power (kW)	2.5	3.3		5.2	5.9	6.4
Power returned in recycling (kW)	3.9	4.8	7.1	9.7	11.4	13.6
Power of hot water battery (80/60°C) (kW)	10	17.3	20.2	45.8	53	58
Flow rate of hot water battery (80/60°C) (m³/h)	0.45	0.9		2	2.3	2.6
Pressure drop of hot water battery (80/60°C) (kPa)	5	10		16		
Electricity supply	400V / 3N / 50Hz					
Current fuse (A)	3 x 10	3 x 16	3 x 20			3 x 25
Sound pressure at 1m (dB(A))	55	61	63	81		84

* characteristics under the following nominal conditions: air 30°C, hygrometry 60-80%

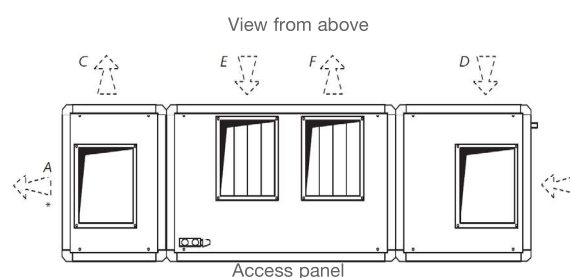
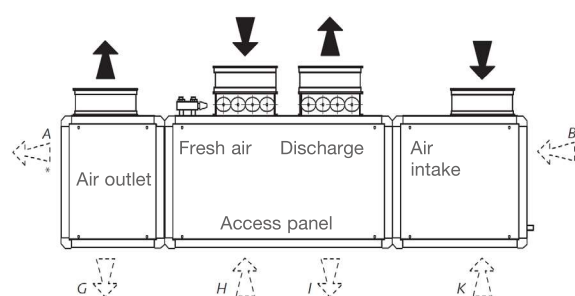
DIMENSIONS AND WEIGHT

	SA1010	SA1020	SA1028	SA1040	SA1050	SA1060
Overall dimensions (L x W x H in mm)	2240x740x640	2880x790x740		3825x985x985	3825x1185x985	
Maximum delivery dimensions (L x W x H in mm)	1100x740x640	1400x790x740		2100x985x985	2100x1185x985	
Model weight (kg) without options fitted	130	210	220	420	450	470

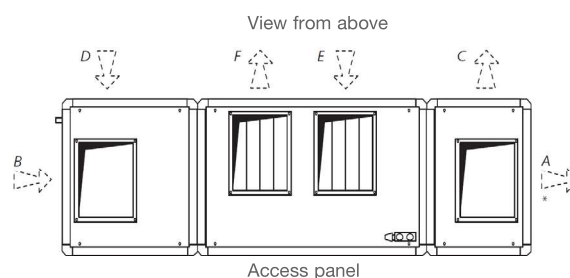
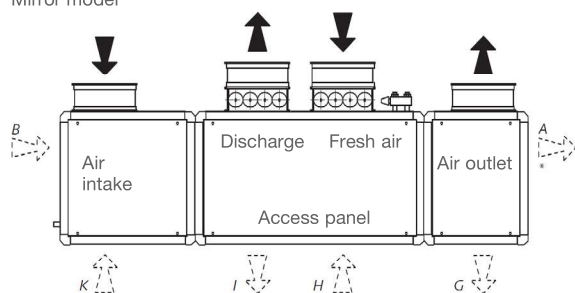
TAPPING OPTIONS

Intake, outlet, fresh air intake and air discharge tappings can be connected in different positions. To be specified with the order.

Standard model



Mirror model



* +150 mm length

	side	rear	bottom
Air outlet	A	C	G
Fresh air	-	E	H
Air intake	B	D	K
Discharge		F	I

- + Modular unit with double air intake/air outlet heat exchanger available for 6 capacities (7 to 38 L/h)
- + Operating mode managed automatically, including fresh air introduction
- + Top-of-the-range equipment
- + Water heating option (water condenser)

2 YEAR
WARRANTY



	SA2012	SA2028	SA2032	SA2040	SA2050	SA2060
PRODUCT REFERENCE						
Standard model	WD001030	WD001032	WD001034	WD001036	WD001038	WD001040
Standard model with water condenser	WD001031	WD001033	WD001035	WD001037	WD001039	WD001041
Filter detection model	WD001055A					

Notre bureau d'études est à votre service pour vous proposer la centrale de déshumidification, dimensionnée spécifiquement pour votre projet, et ses équipements. Vous disposerez ainsi d'une étude complète de votre installation et de la solution de déshumidification adaptée en nous contactant : BE@zodiac.com

EQUIPMENT

- Heat pump, R407C refrigerant
- Low energy, direct current fans (EC)
- Aluminium profile frame with insulated panel
- Double reverse-flow plate heat exchanger, EUROVENT certified, with plastic-coated aluminium plates and bypass
- Microprocessor control and regulation unit
- Motorised dampers to control air flow
- Temperature and humidity sensors
- Hot water battery with regulating valve
- Noise-suppressing mounts
- As fitted option:
 - Titanium condenser to heat the pool water, clock
 - Clock to program bathing and resting times
 - Filter detection to indicate filter clogging

TECHNICAL SPECIFICATIONS

Capacity as per VDI2089 liters /hr	7.6	17.8	20.3	25.4	31.8	38.1
Recycling capacity liters /hr	3.6	6.4	9.6	10.1	11.5	13.8
Air flow rate (m³/h)	1200	2800	3200	4000	5000	6000
Proportion of fresh air (%)	0-100					
Reverse-flow heat exchanger efficiency (8°C/80%-28°C/60%)	61	69			66	
Available pressure at air outlet	220	240			400	
Available pressure at the air intake	270	260			400	
Maximum absorbed power (kW)	2.2	3.4	3.8	5.2	5.9	6.4
Power returned in recycling (kW)	3.7	6.4	9.3	9.7	11.4	13.6
Power of hot water battery (80/60°C) (kW)	11.2	21	24	45.8	53	58
Flow rate of hot water battery (80/60°C) (m³/h)	0.43	1		2	2.3	2.6
Pressure drop of hot water battery (80/60°C) (kPa)	5	14			16	
Electricity supply	400V / 3N / 50Hz					
Current fuse (A)	3x10	3x16	3x20			3x25
Sound pressure at 1m (dB(A))	55	75		81		84

* caractéristiques aux conditions nominales suivantes : air 30°C, hygrométrie 60-80%

DIMENSIONS AND WEIGHT

	SA2012	SA2028	SA2032	SA2040	SA2050	SA2060
Overall dimensions (L x W x H in mm)	2640x740x1236	2845x790x1436		3170x985x1970	3170x1185x1970	
Maximum delivery dimensions (L x W x H in mm)	1500x740x1236	1700x790x1436		1970x985x1970	1970x1185x1970	
Model weight (kg) without options fitted	330	350	400	420	450	470

- + Modular unit with double air intake/air outlet heat exchanger available for 6 capacities (44 to 159 L/h)
- + Operating mode managed automatically, including fresh air introduction
- + Top-of-the-range equipment
- + Water heating option (water condenser)

2 YEAR
WARRANTY



	SA3070	SA3100	SA3125	SA3160	SA3190	SA3250
PRODUCT REFERENCE						
Standard model	WD001042	WD001044	WD001046	WD001048	WD001050	WD001052
Standard model with water condenser	WD001043	WD001045	WD001047	WD001049	WD001051	WD001053
Filter detection model	WD001055A					

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EQUIPMENT

- Heat pump, R407C refrigerant
- Low energy, direct current fans (EC)
- Aluminium profile frame with insulated panel
- Double reverse-flow plate heat exchanger, EUROVENT certified, with plastic-coated aluminium plates and bypass
- Microprocessor control and regulation unit
- Motorised dampers to control air flow
- Temperature and humidity sensors
- Hot water battery with regulating valve
- Noise-suppressing mounts
- As fitted option:
 - Titanium condenser to heat the pool water, clock
 - Clock to program bathing and resting times
 - Filter detection to indicate filter clogging

TECHNICAL SPECIFICATIONS

Capacity as per VDI2089 liters /hr	44.5	63.6	79.5	101.7	120.8	159
Recycling capacity liters /hr	14	21.2	23	33.3	38.7	55.8
Air flow rate (m³/h)	7000	10000	12500	16000	19000	25000
Proportion of fresh air (%)	0-100					
Reverse-flow heat exchanger efficiency (8°C/80%-28°C/60%)	76	69	72	73		
Available pressure at air outlet	400					
Available pressure at the air intake	400					
Maximum absorbed power (kW)	8.7	15	16.5	23	31	39.5
Power returned in recycling (kW)	12.9	18.9	21.2	30.6	36.6	51.6
Power of hot water battery (80/60°C) (kW)	58	91	114	146	174	228
Flow rate of hot water battery (80/60°C) (m³/h)	3.9	4.9	6.2	7.4	9.8	
Pressure drop of hot water battery (80/60°C) (kPa)	11	20	24			
Electricity supply	400V / 3N / 50Hz					
Current fuse (A)	3x35	3 x 50	3x50	3x63	3x100	3x125
Sound pressure at 1m (dB(A))	86	88	87	90	96	90

* caractéristiques aux conditions nominales suivantes : air 30°C, hygrométrie 60-80%

DIMENSIONS AND WEIGHT

	SA3070	SA3100	SA3125	SA3160	SA3190	SA3250
Overall dimensions (L x W x H in mm)	5550x1050x2200		5550x1350x2200	5790x1350x2800	5910x1680x2800	7110x1680x3460
Maximum delivery dimensions (L x W x H in mm)	2730x1050x2200		2730x1350x2200	2970x1350x2800	2970x1680x2800	3210x1680x3460
Model weight (kg) without options fitted	1400	1760	1950	2100	2300	3550

