POOL HEATING

INTRODUCTION

When we decide to build a pool, certain questions and doubts may arise about their use and enjoyment by users.

How many months will I be able to enjoy my pool?

Will the water temperature be pleasant in May and June?

Or even in September and October?

Can I swim early in the morning or late at night?

These and other similar questions have just one answer: it depends.
It depends on the weather conditions in your area.

But if you don't wish to depend exclusively on external factors and wish to have a longer swimming season with a water temperature to suit you, then you need to heat your pool. New questions then arise:

How long can we extend the swimming season?

What options exist for heating the water?

What is the best solution?

Is it very expensive?

Once you have reached to this point, the next step is to get advice from AstralPool professionals. Our experience of over 30 years in the pool and pool equipment sector enables us to offer the best solutions to individual needs and always with the guarantee of a market leader.

Introduction

INTRODUCTION

With the expert advice from AstralPool Technical and Commercial departments, you will be in a position to enjoy the best heating conditions adapted to your personal needs.

ASTRALPOOL participates at every stage - from the design of the project to choosing the right equipment, its commissioning and subsequent maintenance.

We would like to offer you some practical advice when building your pool.

Location of the pool:

Choose areas which are sheltered from the wind
Ensure that neighbouring buildings, trees and other elements do not overhang the pool
Build the pool so that it is facing south (in the Northern Hemisphere) and therefore receives more hours of sun

Selecting the heating/cooling equipment:

Select the right equipment for your real needs: neither too much nor too little
Follow this rule: power supplied = power dissipated

Protection of the pool:

Use a thermal cover to prevent water evaporation
Choose propper sealings (windows, walls, insulators, etc.)

Water temperature

Adjust water temperature to the recommended minimums according to its use and type of pool. Consult our technical department to find out the ideal temperature for your pool

Room temperature

Keep the room temperature 2° C above the water temperature up to a maximum of 30ºC - 32ºC
When not in use, reduce the room temperature 2° C below the water temperature

Stop / Start

In periods of inactivity of more than 5 or 6 days disconnect your heating/cooling system

Maintenance

Empty the heating system's water circuit during the winter period outside the swimming season to avoid the possibility of freezing.

Advice

HEAT PUMPS

new

AstralPool Heat

Air/Water heat pump suitable for swimming pools and spas. It will allow you to extend the use of your outdoor pool in the summer season by taking advantage of the air in the atmosphere.

- Strong and light design in injected ABS+UV resistant to sun's radiation. Colour does not degrade.
- Long and hight efficency Evaporation Battery (gas-air exchanger) made of copper and aluminium fins, suitable for corrosive environments and costal locations.
- Axial fan with Engine of direct coupling.
- SCROLL compressors with internal protection.
- Titanium Condensers made with a PVC casing and TITANIUM G2 coil according to ASTM B 338.99 standard. Granted against corrosion.
- R-407_C full charge.
- Nitrogenous, dehydrated and deoxidized copper refrigerating circuit.
- High and low pressure switches (AP/BP) with automatic rearmament.
- Thermostatic valve expansion with external regulation.
- Dehydrating Filter.

- Hydraulic circuit with water inlet flow switch made of PVC, good elasticity and high resistance against fissures, imperative for hot and pressured liquid transportation.
- Electrical cabinet with high sensibility digital regulation and filtering pump control. Keyboard blocking. Display protection cover.
- Intelligent Heat: This system mantains automatically the set temperature of the swimming pool or spa, controlling the filtering system.
- Phase Monitor: Protects the compressor against losses and phase inversion.
- Defrost: Activating the fan, the unit defrosts the evaporator.
- New ECO system: In stopping periods, it maintains the installation at a closer temperature to the set temperature to save energy.

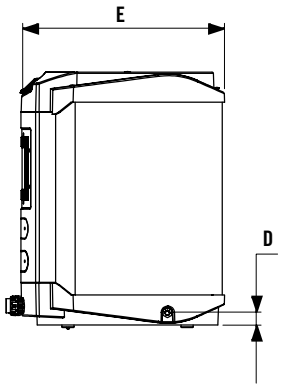
OPTIONAL:

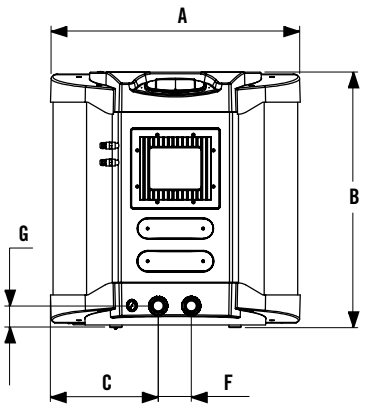
- Gas defrosting: the unit can work at temperatures lower than 5ºC, defrosting the evaporator if needed. Only with the reversible option.
- Remote control: Total heat pump operational control from anywhere by means of control panels..

	Code	Standard Packing	Standard Weight kg	Standard Volume m³
AstralPool Heat B100-M	**41874**	1	-	-
AstralPool Heat B150-M	**41875**	1	-	-
AstralPool Heat B150-T	**41876**	1	-	-
AstralPool Heat B200-M	**41877**	1	-	-
AstralPool Heat B200-T	**41878**	1	-	-
AstralPool Heat B250-M	**41879**	1	-	-
AstralPool Heat B250-T	**41880**	1	-	-
AstralPool Heat B300-T	**41881**	1	-	-
AstralPool Heat Revers. R100-M	**41882**	1	-	-
AstralPool Heat Revers. R150-M	**41883**	1	-	-
AstralPool Heat Revers. R150-T	**41884**	1	-	-
AstralPool Heat Revers. R200-M	**41885**	1	-	-
AstralPool Heat Revers. R200-T	**41886**	1	-	-
AstralPool Heat Revers. R250-M	**41887**	1	-	-
AstralPool Heat Revers. R250-T	**41888**	1	-	-
AstralPool Heat Revers. R300-T	**41889**	1	-	-

Dimens.	MODELOS				
	B100/R100	B150/R150	B200/R200	B250/R250	B300/R300
A	89	89	101	101	101
B	80	80	106	106	106
C	38	38	44	44	44
D	4	4	4	4	4
E	69	69	83	83	83
F	13	13	13	13	13
G	15	15	27	27	27

Nota : dimensiones en cm.





HEAT PUMPS

AstralPool Heat

TECHNICAL FEATURES		MODELS							
Basic		B100-M	B150-M	B150-T	B200-M	B200-T	B250-M	B250-T	B300-T
Code		**41874**	**41875**	**41876**	**41877**	**41878**	**41879**	**41880**	**41881**
Reversible		R100-M	R150-M	R150-T	R200-M	R200-T	R250-M	R250-T	R300-T
Code		**41882**	**41883**	**41884**	**41885**	**41886**	**41887**	**41888**	**41889**
Electrical supply		220/2/50Hz	220/2/50Hz	380/3/50Hz	220/2/50Hz	380/3/50Hz	220/2/50Hz	380/3/50Hz	380/3/50Hz
Heat exchanger		Titanium							
Compressor		Scroll							
Cassing		ABS							
Refrigerant		1,4 Kg R407C	1,4 Kg R407C	1,4 Kg R407C	2,2 Kg R407C	2,2 Kg R407C	2,4 Kg R407C	2,4 Kg R407C	2,9 Kg R407C
Low water flow alarm		18 - 24 bar / 260 - 350 psi							
High water flow alarm		0,7 - 2,2 bar / 10 - 32 psi							
Optimal water flow		12 m^3/h							
Minimum water flow		6 m^3/h							
Air flow		3500 m^3/h			7500 m^3/h				
Sound Level	**1 mts**	67 dB			70 dB				
	3 mts	59 dB			62 dB				
Water connection size		Ø 50 mm							
Weight		103 Kg			118 Kg				120 Kg
27ºC	**Input power kW**	2,4	2,7	2,7	3,9	3,9	5,2	5,2	6,2
	Output kW	11,1	15,1	15,1	20	20	26	26	30
	COP	4,63	5,59	5,59	5,1	5,1	5	5	4,8
15ºC	**Input power kW**	2,3	2,6	2,6	3,7	3,7	4,9	4,9	5,3
	Output kW	8,5	11,6	11,6	15,7	15,7	22	22	26
	COP	3,7	4,46	4,46	4,2	4,2	4,4	4,4	4,9
5ºC	**Potencia absorbida kW**	2,2	2,5	2,5	3,5	3,5	4,8	4,8	5,2
	Input power kW	5,5	7,6	7,6	10,3	10,3	15	15	19
	COP	2,5	3,04	3,04	2,5	2,5	3,1	3,1	3,6

Calculations based on ambient temperature of 27ºC and 60% HR - 15ºC and 60% HR - 5ºC and 60% HR. Water flow of12 m3/h. Water at 24ºC.

AIR/WATER HEAT PUMPS WITH AXIAL VENTILATOR, FOR OUTDOOR INSTALLATION - AMERICAN MODEL

Air Energy

It provides the highest COP (the ratio between energy consumption and heat output) due to the large surface area of the evaporator coil.
All models use a titanium exchanger with a 15-year warranty, the only material which guarantees resistance to chemicals and electrolytes.

General Features:

- Auto Heat: An Air Energy patented system which automatically maintains the pool and/or spa at the desired temperature, controlling the filtration system.
- Phase Monitor: Protects the compressor in the event of phase loss or inversion.
- Air defrost: By activating the ventilator, the unit defrosts the evaporator. Allows the heater to operate at low temperatures.
- Blockable cover: Provides safety and guarantees controlled use.
- PVC housing: Offers full anti-corrosion and UV ray protection.
- Scroll Compressor: Ensures silent, efficient operation.
- Automation Ready: Allows easy connections to computers and/or automatic valve systems.
- Two thermostats: Allows you to control pool and spa independently.
- Optimum performance, without freezing, up to 5ºC.

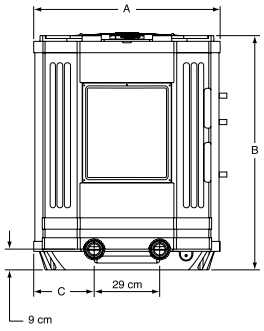
Optional Equipment

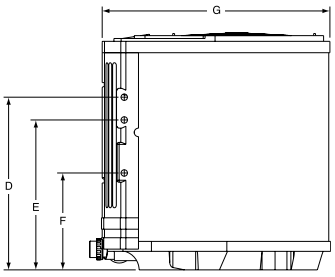
- Remote Control: Total control over heat pump operations from any location via remote control panels.
- Automatic valves: Synchronise your heat pump and filtration system. By simply pressing a button, the heat pump will automatically change valve direction, switch on the filtration pump and change the required temperature of the pool or spa.
- Reversibility: May also be used to cool the water (chiller option). Available only as chiller, or with both functions: heater and chiller.
- Gas Defrosting: Allows the unit to work at temperatures below 0ºC, defrosting the evaporator coil whenever necessary. Simple operation via the reversibility option.

Models available and technical features

Model		200TI-251	300TI-251	300TI-353	400TI-251	400TI-353	500TI-251	500TI-353
Basic code		35824	35825	35826	35827	35828	35831	35832
Reversible code		-	-	-	35829	35830	35833	35834
Electrical supply		208-230/50/1	208-230/50/1	380-420/3/50	208-230/50/1	380-420/3/50	208-230/50/1	380-420/50/3
Required fuse		20A	30A	10A	40A	20A	50A	20A
Heat exchanger		Titanium						
Compressor		24K Scroll	37K Scroll		45K Scroll		68K Scroll	
Cabinet		ABS						
Refrigerant		1.36kg R407C	1.59kg R407C		2.44kg R407C		2.95kg R407C	
Low water flow alarm		6 m³/h						
Optimal water flow		12 m³/h						
Minimum water flow		6 m³/h						
Maximum water flow		28 m³/h						
Air flow		3500 m³/h			7000 m³/h			
Water temperature differential		Adjustable between 1ºC to 5ºC						
Union Size (Delta T)		Ø 50 mm adapter (2" union)						
27ºC	Consumption kW	1.7	2.8	2.8	3.3	3.3	5.3	5.3
	BTU's	37000	54000	54000	71000	71000	111000	111000
	Output kW	11	16	16	21	21	32.5	32.5
	COP	6.47	5.7	5.7	6.36	6.36	6.13	6.13
15ºC	Consumption kW	1.6	2.66	2.66	2.96	2.96	4.57	4.57
	BTU's	28000	41000	41000	52000	52000	76000	76000
	Output kW	8	12	12	15	15	22	22
	COP	5.0	4.5	4.5	5.1	5.1	4.8	4.8
5ºC	Consumption kW	1.5	2.5	2.5	2.8	2.8	4.4	4.4
	BTU's	22000	33000	33000	38000	38000	55000	55000
	Output kW	6.5	9.5	9.5	11.2	11.2	16.11	16.11
	COP	4.33	3.8	3.8	4.0	4.0	3.7	3.66

Calculations based on ambient temperature 27ºC at 60% RH - 15ºC at 60% RH - 5ºC at 60 RH Water flow rate of 12 m³/h. Water at 24ºC.





Model	A	B	C	D	E	F	G
200TI	66 cm	79 cm	18.5 cm	62 cm	55 cm	33 cm	89 cm
300TI	66 cm	79 cm	18.5 cm	62 cm	55 cm	33 cm	89 cm
400TI	84 cm	91.5 cm	27 cm	66 cm	58.5 cm	35.5 cm	104 cm
500TI	84 cm	107 cm	27 cm	76 cm	68.5 cm	46 cm	104 cm

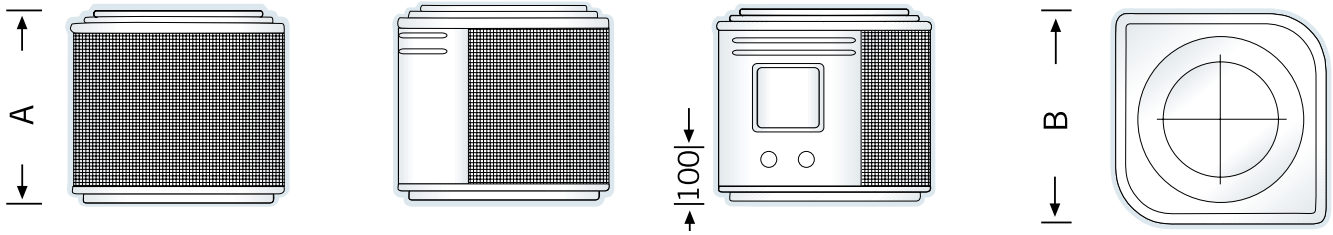
AIR/WATER HEAT PUMPS WITH AXIAL VENTILATOR, FOR OUTDOOR INSTALLATION – AMERICAN STYLE MODEL

Cancun

- Strong but light weight design in heat moulded ABS resistant to solar radiation. The colour will not fade.
- High performance evaporator coil (gas/air heat exchanger) made of copper corrugated tube in the inside and coated aluminium fins, special for corrosive and coastal environments.
- Axial ventilator with direct coupling motor.
- Scroll compressor with internal protection.
- Titanium condensers with PVC shells and in titanium G2 coil according to ASTM B 338.99 standard. Guaranteed against corrosion.
- Filled with refrigerant gas R-407-C with low ecological impact.
- Refrigeration circuit of dehydrated, nitrogenated and deoxidised copper.
- Low and High Pressure (LP/HP) pressure switches with automatic reset.
- Expansion via thermostatic valve with external balancing unit.
- Dehydrating filter.
- Hydraulic circuit with flow switch at the water inlet made in PVC tubing, good elasticity and significant resistance to cracks under pressure, a key characteristic for the transport of hot pressurised liquids.
- Fully fitted control panel with digital high-sensitivity regulation.

MODELS		CANCUN 10	CANCUN 14M	CANCUN 14T	CANCUN 19M	CANCUN 19T	CANCUN 25	CANCUN 30
Electrical supply		220-240/1/50	220-240/1/50	380-420/3/50	220-240/1/50	380-420/3/50	380-420/3/50	380-420/3/50
Heat exchanger		Titanium						
Compressor		Scroll						
Cabinet		ABS						
Optimal Water Flow		12 m³/h						
Minimum Water Flow		6 m³/h						
Air flow		6,200 m³/h			10,000 m³/h			
Hydraulic Connex.		1 1/2"						
27ºC	Consumption kW	2.6	2.9	2.9	3.9	3.9	5.2	5.5
	Output kW	11	15	15	20	20	26	32
	COP	4.2	5.1	5.1	5.12	5.12	5	5.8
15ºC	Consumption kW	2.4	2.6	2.6	4.3	4.3	4.9	4.8
	Output kW	8.5	10.9	10.9	15.7	15.7	22	25
	COP	3.5	4.2	4.2	3.6	3.6	4.4	5
5ºC	Consumption kW	2	2.5	2.5	3.52	3.52	4.8	5
	Output kW	5.5	7.1	7.1	10.3	10.3	15	17
	COP	2.75	2.8	2.8	2.5	2.5	3.12	3.4

Calculations based on ambient temperature 27ºC at 60% RH - 15ºC at 60% RH - 5ºC at 60% RH. Water flow rate of 12 m³/h. Water at 24ºC.



Code	Model	Dimensions (mm)		Total Weight
		A	B	(Kg)
27822	CANCUN 10	850	940	95
27823M	CANCUN 14M	850	940	100
27823T	CANCUN 14T	850	940	100
27824M	CANCUN 19M	910	940	115
27824T	CANCUN 19T	910	940	115
27825	CANCUN 25	910	940	125
27826	CANCUN 30	1000	995	145

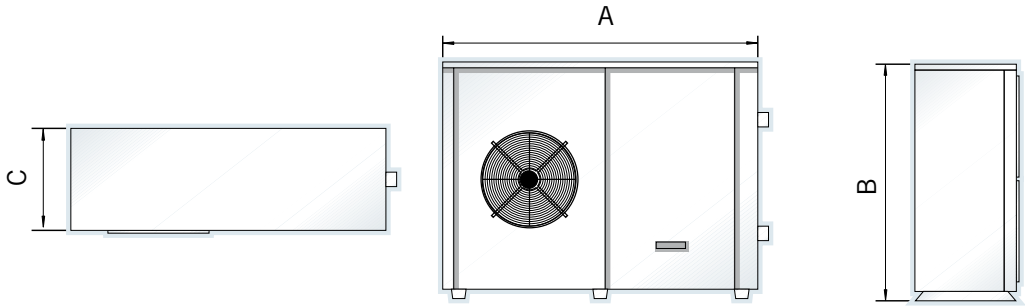
AIR/WATER HEAT PUMPS WITH AXIAL VENTILATOR, FOR OUTDOOR INSTALLATION - WALL MODEL

Maldivas

- Compact design for outdoor installation.
- Made of galvanized, painted and coated steel, or in non-corrosive magnesium coated aluminium.
- High performance evaporator coil (gas/air heat exchanger) made of copper corrugated tube in the interior and coated aluminium fins, special for corrosive and coastal environments.
- One or two axial ventilators with direct coupling motor, according to model.
- Scroll compressor with internal protection.
- Titanium condensers with PVC shells and in G2 titanium coil according to ASTM B 338.99 standard. Guaranteed against corrosion.
- Filled with gas Freon R-407-C with low ecological impact.
- Refrigeration circuit of dehydrated, nitrogenated and deoxidised copper.
- Low and High Pressure (LP/HP) mini-pressure switches with automatic reset
- Expansion by thermostatic valve with external balancing unit.
- Dehydrating filter.
- Hydraulic circuit with flow switch at the water inlet, connections in PVC.
- Defrosting by forced ventilation.
- Control panel fitted with digital high-sensitivity regulation.

Model	Exterior Circuit (air)		Internal Circuit (water)		Cal. Pow.	Cons. pow	Absorbed int. (A)		Lacquered steel	Aluminium magnesium
	Flow (m^3/h)	Num of Vents	Flow (l/h)	Hydraul. Conn.	(W)	(W)	II/220/50	III/380/50	Code	Code
MALDIVAS-7	2000	1	6000	50	7000	1850	9.9	-	**32475**	**32481**
MALDIVAS-12	2000	1	6000	50	12000	3000	16.1	-	**32476**	**32482**
MALDIVAS-13	2000	1	6000	50	13000	3500	18.6	-	**32477**	**32483**
MALDIVAS-15	2500	1	8000	50	15000	3500	-	7.9	**32478**	**32484**
MALDIVAS-23	5000	2	10000	50	23000	4800	-	12.9	**32479**	**32485**
MALDIVAS-25	6000	2	10000	50	25000	6700	-	16	**32480**	**32486**

Calculations based on ambient temperature 27ºC at 60% RH - 15ºC at 60% RH - 5ºC at 60% RH. Water flow rate of 12 m^3/h. Water at 24ºC.



Lacquered steel	Aluminium magnesium	Model	Dimensions (mm)			Total weight
Code	Code		A	B	C	(Kg)
32475	**32481**	MALDIVAS-7	1210	740	450	95
32476	**32482**	MALDIVAS-12	1210	740	450	100
32477	**32483**	MALDIVAS-13	1210	740	450	110
32478	**32484**	MALDIVAS-15	1210	740	450	115
32479	**32485**	MALDIVAS-23	1400	1040	450	125
32480	**32486**	MALDIVAS-25	1400	1040	450	145

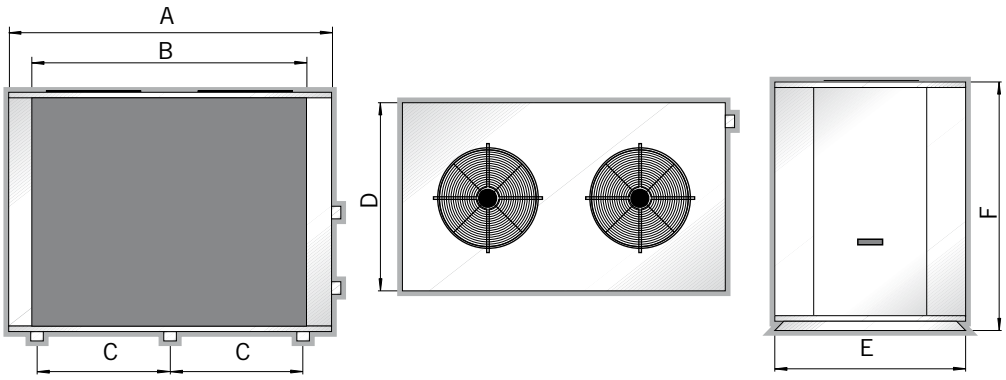
AIR/WATER HEAT PUMPS WITH AXIAL VENTILATOR, FOR OUTDOOR INSTALLATION- WALL MODEL

Bahia

- Compact design for outdoor installation.
- Made of galvanized steel, painted and coated steel, or in non-corrosive magnesium coated aluminium (this option is supplied under special order).
- Interior thermoacoustic insulation.
- High performance evaporator coil (gas/air heat exchanger) made of copper corrugated tube in the interior and coated aluminium fins, special for corrosive and coastal environments.
- Axial ventilators with direct coupling motor.
- Condensation collector tray.
- Sealed compressor with internal protection.
- Titanium condensers with PVC shells and in G2 titanium coil according to ASTM B 338.99 standard. Guaranteed against corrosion.
- Filled with refrigerant gas R-407-C with low ecological impact.
- One or two refrigeration circuits of dehydrated, nitrogenated and deoxidised copper.
- Low and High Pressure (LP/HP) mini-pressure switches with automatic reset.
- Expansion via thermostatic valve with external balancing unit.
- Dehydrating filter.
- Hydraulic circuit with flow switch at the water inlet, connections in PVC.
- Defrosting by forced ventilation.
- Fully fitted control panel with digital high-sensitivity regulation.

Model	Exterior Circuit (air)		Internal Circuit (water)		Cal. Pow.	Cons. Pow	Absorbed int. (A)	Lacquered steel	Aluminium magnesium
	Flow (m^3/h)	Num of Vents	Flow (l/h)	Hydraul. conn.	(W)	(W)	III/380/50	Code	Code
BAHIA -30	8000	2	10000	2"	30000	6300	14.6	**32487**	**32493**
BAHIA-45	12000	2	15000	2"	45000	8700	22.2	**32488**	**32494**
BAHIA-51	12000	2	17000	2"	51000	9700	27.6	**32489**	**32495**
BAHIA-60	18000	4	20000	2"	60000	11000	28.5	**32490**	**32496**
BAHIA-102	22000	6	34000	2 1/2"	102000	17500	54	**32491**	**32497**
BAHIA-130	30000	6	43000	2 1/2"	130000	19000	60	**32492**	**32498**

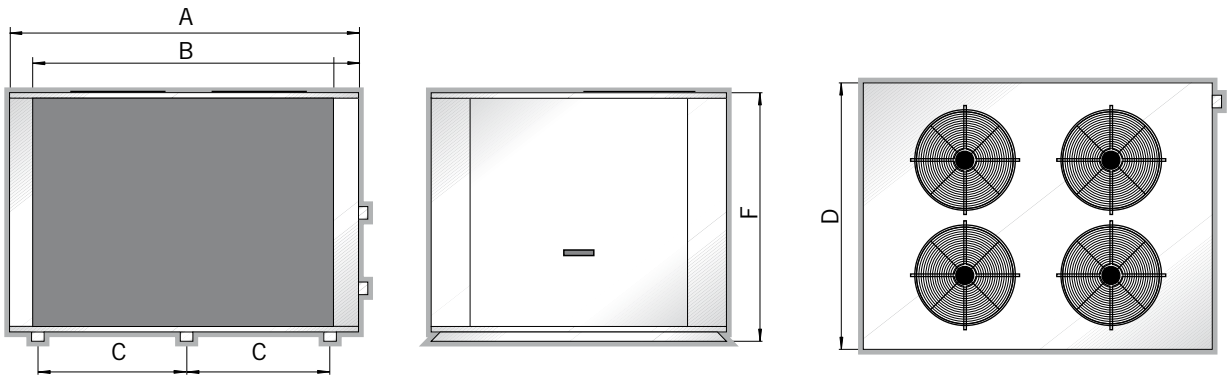
Calculations based on ambient temperature 27ºC at 60% RH - 15ºC at 60% RH - 5ºC at 60% RH. Water flow rate of 12 m^3/h. Water at 24ºC.



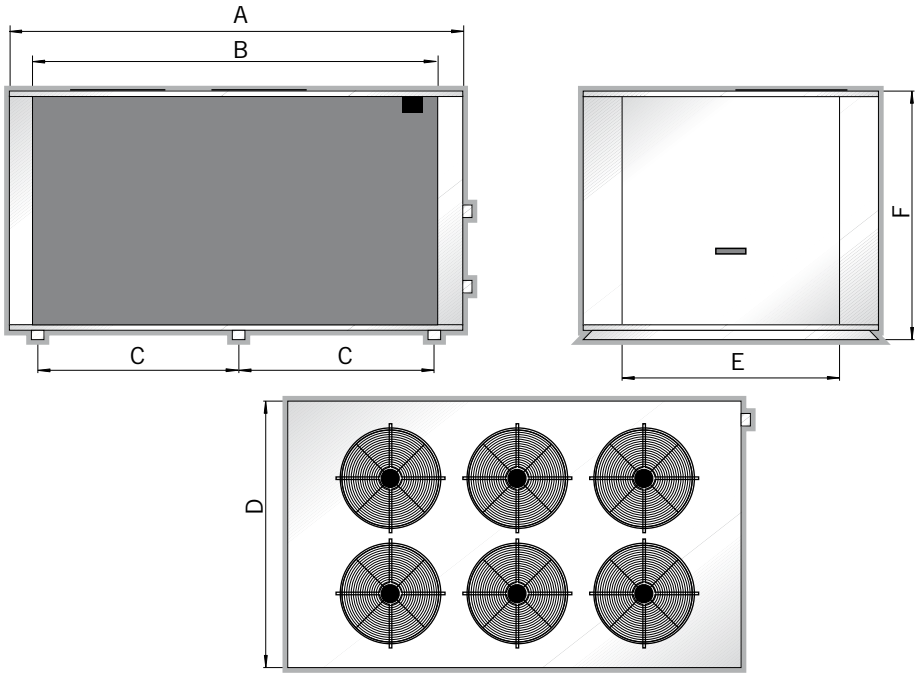
Lacquered steel	Aluminium magnesium	Model	Dimensions (mm)						Total weight
Code	Code		A	B	C	D	E	F	(Kg)
32487	**34493**	BAHIA -30	1700	1450	700	1000	1000	1300	195
32488	**34494**	BAHIA-45	1700	1450	700	1000	1000	1300	290
32489	**34495**	BAHIA-51	1700	1450	700	1000	1000	1300	310

AIR/WATER HEAT PUMPS WITH AXIAL VENTILATOR, FOR OUTDOOR INSTALLATION- WALL MODEL

Bahia



Coated steel	Aluminium magnesium	Model	Dimensions (mm)						Total weight
Code	Code		A	B	C	D	E	F	(Kg)
32490	**34496**	BAHIA -60	2200	1900	925	1500	-	1300	355

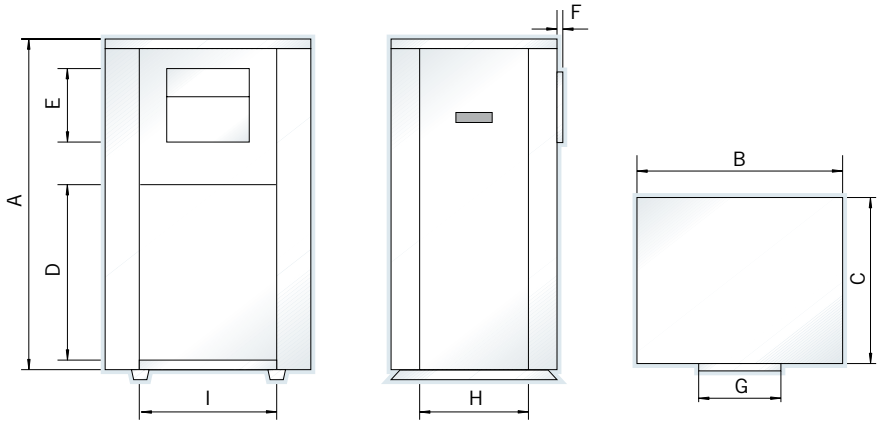


Coated steel	Aluminium magnesium	Model	Dimensions (mm)						Total weight
Code	Code		A	B	C	D	E	F	(Kg)
32491	**34497**	BAHIA -102	2200	1900	925	1500	1100	1300	425
32492	**34498**	BAHIA-130	2300	2000	975	1500	1100	1300	445

AIR/WATER HEAT PUMPS WITH CENTRIFUGAL VENTILATOR, FOR INDOOR INSTALLATION

Vallarta / Reversible Vallarta

- Compact design for installation in a pump room.
- Made of galvanized steel, painted and coated, or in non-corrosive magnesium coated aluminium (this option is supplied under special order).
- High performance evaporator (gas-air heat exchanger) made of corrugated copper pipe in the interior and coated aluminium fins, special for corrosive and sea-side environments.
- Centrifugal ventilator with direct transmission.
- Sealed scroll compressor with internal protection.
- Titanium condensers with PVC shells and G2 titanium coil according to ASTM B 338.99 standard. Guaranteed against corrosion.
- Filled with refrigerant gas R-407-C wih low ecological impact.
- Refrigeration circuit of dehydrated, nitrogenated and deoxidised copper.
- Low and High Pressure (LP/HP) mini-pressure switches with automatic reset.
- Expansion via thermostatic valve with external balancing unit.
- Dehydrating filter.
- Hydraulic circuit with flow switch at the water inlet, connections in PVC.
- Defrosting by forced ventilation.
- There is a reversibility option (reversible pump codes) which allows the unit to defrost the evaporator using hot gas. These units can also operate as chillers.
- Fully fitted control panel with digital high-sensitivity regulation.



Model	Dimensions (mm)									Total weight
	A	B	C	D	E	F	G	H	I	(Kg)
VALLARTA-7	1200	750	600	650	265	30	299	395	510	295
VALLARTA-12	1200	750	600	650	260	30	299	395	510	400
VALLARTA-15	1200	750	600	650	291	30	299	395	510	410
VALLARTA-25	1600	950	700	-	345	30	315	700	690	415

AIR/WATER HEAT PUMPS WITH CENTRIFUGAL VENTILATOR, FOR INDOOR INSTALLATION

Vallarta / Reversible Vallarta

FEATURES	Model							
Models	VALLARTA-7	VALLARTA-7	VALLARTA-12	VALLARTA-12	VALLARTA-15	VALLARTA-15	VALLARTA-25	VALLARTA-25
Finish	Coated steel	Magnesium aluminium	Coated steel	Magnesium aluminium	Coated steel	Magnesium aluminium	Coated steel	Magnesium aluminium
Basic Code	32499	32503	32504	32500	32505	32501	32506	32502
Reversible Code	33895	33899	33896	33900	33897	33901	33898	33902
Calorific power w	7000	7000	12000	12000	15000	15000	25000	25000
Refrigerator power	5150	5150	9000	9000	11500	11500	18300	18300
Absorbed power w	1850	1850	3000	3000	3500	3500	6700	6700
Energy performance COP	3.78	3.78	4	4	4.29	4.29	3.73	3.73
Compressor								
Units	1	1	1	1	1	1	1	1
Type	Hermetic	Hermetic	Hermetic	Hermetic	Hermetic	Hermetic	Hermetic	Hermetic
Ventilator								
Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Units	1	1	1	1	1	1	1	1
Flow (m^3/h)	2000	2000	2000	2000	2500	2500	6000	6000
Available pressure (m.w.h.)	5	5	5	5	5	5	5	5
Hydraulic circuit								
Heat exchanger	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium
Units	1	1	1	1	1	1	1	1
Flow (m^3/h)	6	6	6	6	8	8	10	10
Head loss m.w.h.	2	2	2.2	2.2	2.2	2.2	2.3	2.3
Hydraulic connections	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Refrigerant gas	R-407	R-407	R-407	R-407	R-407	R-407	R-407	R-407
Unit weight (Kg)	295	295	400	400	410	410	415	415
Electrical data								
Voltage	220	220	220	220	380	380	380	380
Frequency	50 HZ	50 HZ	50 HZ	50 HZ	50 HZ	50 HZ	51 HZ	51 HZ
Intensity (Amp)	9.9	9.9	16.1	16.1	7.9	7.9	16	16

Calculations based on an air temperature of 27ºC at 60% RH - 15ºC at 60% RH - 5ºC at 60% RH 12 m^3/h Flow rate. Water at 24ºC.

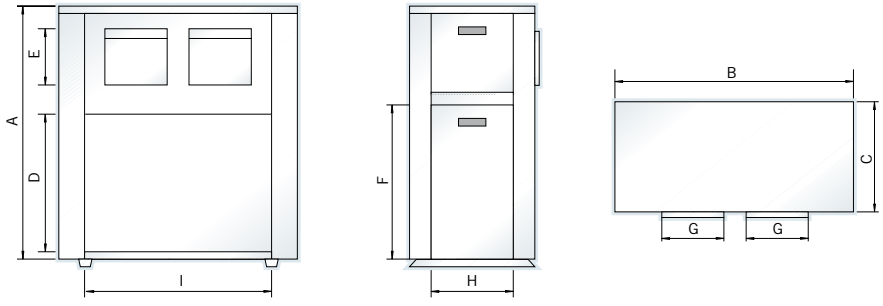
AIR/WATER HEAT PUMPS WITH CENTRIFUGAL VENTILATOR, FOR INDOOR INSTALLATION

Maya

- Compact design for installation in a pump room.
- Made of galvanized steel, painted and coated, or in non-corrosive magnesium coated aluminium (this option is supplied on special orders).
- High performance evaporator (gas-air heat exchanger) made of copper corrugated pipe on the inside and coated aluminium fins, special for corrosive and sea-side environments.
- Centrifugal ventilator with transmission with belts and pulleys.
- Sealed scroll compressor with internal protection.
- Titanium condensers with PVC shells and in G2 titanium coil according to ASTM B 338.99 standard. Guaranteed against corrosion.
- Filled with refrigerant gas R-407-C with low ecological impact.
- One or two refrigeration circuits of dehydrated, nitrogenated and deoxidised copper, according to models.
- Low and High Pressure (LP/HP) mini-pressure switches with automatic reset.
- Expansion by thermostatic valve with external balancing unit.
- Dehydrating filter.
- Hydraulic circuit with flow switch in the water inlet, connections in PVC.
- Defrosting by forced ventilation,
- Fully fitted control panel with digital high-sensitivity regulation.

Model	Exterior Circuit (air)		Internal Circuit (water)		Cal. Pow.	Cons. Pow	Absorbed Int. (A)	Coated steel	Magnesium aluminium
	Flow (m^3/h)	Num of Vents	Flow (l/h)	Hydraul. Conn.	(W)	(W)	III/380/50	Code	Code
MAYA-30	8000	1	9000	2"	30000	6300	14.6	**32507**	**32512**
MAYA-45	12000	1	14000	2"	45000	8700	22.2	**32508**	**32513**
MAYA-51	12000	1	15000	2"	51000	9700	27.6	**32509**	**32514**
MAYA-60	18000	1	19000	2"	60000	12000	28.5	**32510**	**32515**
MAYA-102	22000	1	30000	$2^1/_2$"	102000	17200	54	**32511**	**32516**

Calculations based on an air temperature of 27ºC at 60% RH - 15ºC at 60% RH - 5ºC at 60% RH 12 m^3/h Flow rate. Water at 24ºC.



Coated steel	Magnesium aluminium	Model	Dimensions (mm)									Total weight
Code	Code		A	B	C	D	E	F	G	H	I	(Kg)
32507	**32512**	MAYA-30	2000	1700	1000	1200	341	1250	309	795	1450	450
32508	**32513**	MAYA-45	2000	1700	1000	1200	341	1250	286	795	1450	475
32509	**32514**	MAYA-51	2000	1700	1000	1200	341	1250	386	795	1450	580
32510	**32515**	MAYA-60	2000	2200	1000	1200	402	1250	467	795	1900	650
32511	**32516**	MAYA-102	2150	2200	1000	1200	480	1250	566	795	1900	1150

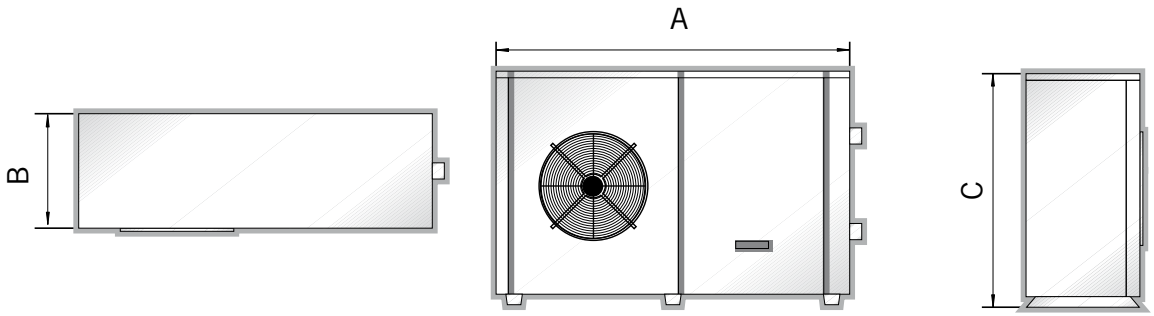
AIR/WATER CHILLERS WITH AXIAL VENTILATOR, FOR OUTDOOR INSTALLATION

Alaska

- Compact design, for outdoor installation.
- Made of non-corrosive magnesium coated aluminium.
- Titanium evaporators with PVC shells and in G2 titanium coil according to ASTM B 338.99 standard. Guaranteed against corrosion.
- Condenser made of copper pipe with coated aluminium fins (special for corrosive environments).
- Sealed scroll compressor.
- Refrigeration circuit of dehydrated, nitrogenated and deoxidised copper.
- Helicoidal ventilators with direct coupling motor.
- Refrigerant expansion via thermostatic expansion valve.
- Anti-acid dehydrating filter.
- Hydraulic connections in PVC.
- Low and High Pressure (LP/HP) mini-pressure switches with automatic reset.
- Defrosting thermostat in evaporator.
- Earth connection.
- Filled with gas Freon R407C with low ecological impact.
- Full adjustment of all the items included.

Model	External Circuit (air)		Internal Circuit (water)		Cal. Pow.	Cons. Pow	Absorbed int. (A)		Code
	Flow (m^3/h)	Num. of Vents	Flow (l/h)	Hydraul. Conn.	(W)	(W)	II/220/50	III/380/50	
ALASKA-4	3500	1	761	$1^1/_2$"	5531	1900	10.47	-	**32535**
ALASKA-6	3800	1	1088	$1^1/_2$"	8307	2500	11.06	-	**32536**
ALASKA-8	5400	1	1531	$1^1/_2$"	11594	3400	-	6.39	**32537**
ALASKA-10	8500	2	1945	$1^1/_2$"	15445	4400	-	8	**32538**
ALASKA-12	8500	2	2227	$1^1/_2$"	17358	5000	-	9	**32539**
ALASKA-15	10500	2	2774	2"	21024	6100	-	11	**32540**
ALASKA-17	10500	2	3116	2"	29756	6700	-	12	**32541**

Calculations based on an air temperature of 27ºC at 60% RH - 15ºC at 60% RH - 5ºC at 60% RH 12 m^3/h Flow rate. Water at 24ºC.



Code	Model	Dimensions (mm)			Total weight
		A	B	C	(Kg)
32535	ALASKA-4	1200	450	740	80
32536	ALASKA-6	1200	450	740	84
32537	ALASKA-8	1500	450	840	96
32538	ALASKA-10	1650	650	890	98
32539	ALASKA-12	1650	650	890	110
32540	ALASKA-15	2000	700	840	115
32541	ALASKA-17	2000	700	840	120

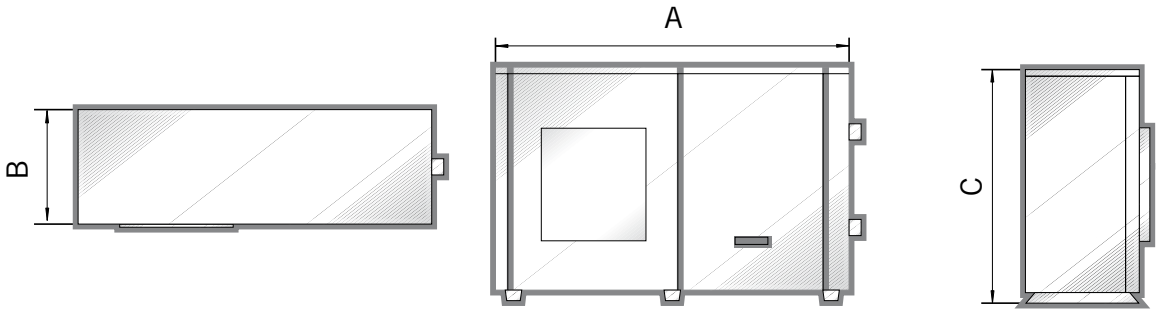
AIR/WATER CHILLERS WITH CENTRIFUGAL VENTILATOR, FOR INDOOR INSTALLATION

Siberia

- Compact design, for installation in a pump room.
- Made of non-corrosive magnesium coated aluminium.
- Titanium evaporators with PVC shells and in G2 titanium coil according to ASTM B 338.99 standard. Guaranteed against corrosion.
- Condenser made of copper tube with coated aluminium fins (special for corrosive environments).
- Sealed scroll compressor.
- Refrigeration circuit of dehydrated, nitrogenated and deanodised copper.
- Centrifugal direct transmission ventilator.
- Refrigeration expansion via thermostatic expansion valve.
- Anti-acid dehydrating filter.
- Hydraulic connections in PVC.
- Low and High Pressure (LP/HP) mini-pressure switches with automatic reset.
- Defrosting thermostat in evaporator.
- Earth connection.
- Filled with gas Freon R407C with low ecological impact.
- Full adjustment of all the items included.

Model	External Circuit (air)		Internal Circuit (water)		Cal. Pow.	Cons. Pow	Absorbed int. (A)		Code
	Flow (m^3/h)	Num of Vents	Flow (l/h)	Hydraul. Conn.	(W)	(W)	II/220/50	III/380/50	
SIBERIA-4	3500	1	760.50	1 1/2"	5531	1900	10.47	-	**33301**
SIBERIA-6	3800	1	1088	1 1/2"	8307	2500	11.06	-	**33302**
SIBERIA-8	5400	1	1531	1 1/2"	11594	3400	-	6.39	**33303**
SIBERIA-10	8500	2	1945	1 1/2"	15445	4400	-	8	**33304**
SIBERIA-12	8500	2	2227	1 1/2"	17358	5000	-	9	**33305**
SIBERIA-15	10500	2	2774	2"	21024	6100	-	11	**33306**
SIBERIA-17	10500	2	3116	2"	29756	6700	-	12	**33307**

Calculations based on an air temperature of 27ºC at 60% RH - 15ºC at 60% RH - 5ºC at 60% RH 12 m^3/h Flow rate. Water at 24ºC.



Code	Model	Dimensions (mm)			Total weight
		A	B	C	(Kg)
33301	SIBERIA-4	1200	550	740	80
33302	SIBERIA-6	1200	550	740	84
33303	SIBERIA-8	1500	550	840	96
33304	SIBERIA-10	1650	850	890	98
33305	SIBERIA-12	1650	850	890	110
33306	SIBERIA-15	2000	900	840	115
33307	SIBERIA-17	2000	900	840	120

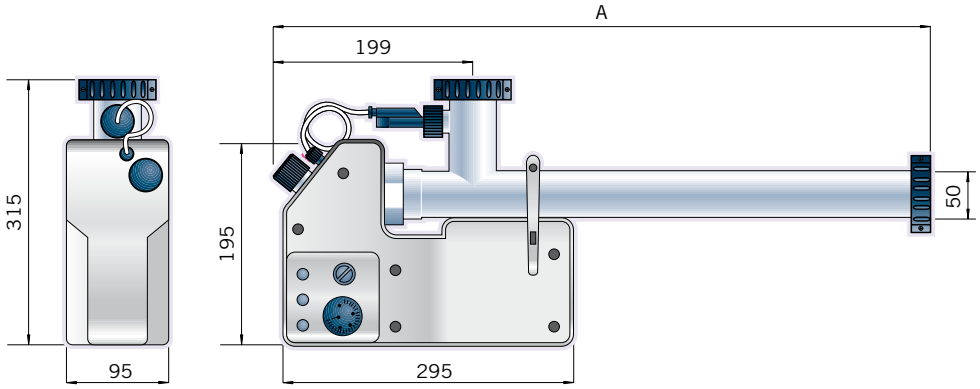
HEAT EXCHANGERS

Compact

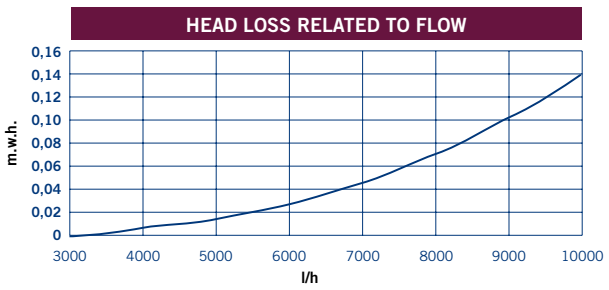
- Body made of Stainless Steel AISI-316.
- Sealed resistances in INCOLOY 825.
- Housing in fireproof plastic.
- Connections included.
- Fixing brackets included.
- High temperature safety switch (60ºC).
- Manual reset system.
- Temperature regulation thermostat from 0 to 45 ºC.
- Control buttons.
- Terminal for electrical connection.

Model	Hydraulic circuit			Pressure (bar)		Cal. Pow.	Maxi. Absorbed Intensity (A)			Code
	Min.Flow (l/h)	Maxi.Flow (l/h)	Hydr. Conn.	Serv.	Maxi.	kW	I/220/50	III/220/50	III/380/50	
COMPACT 3 KW	1200	10000	1 1/2"	2	3	3	14	-	4*	**08756**
COMPACT 6 KW	1200	10000	1 1/2"	2	3	6	28	-	9*	**08757**
COMPACT 9 KW	1200	10000	1 1/2"	2	3	9	41	-	13*	**08758**
COMPACT 12 KW	1200	10000	1 1/2"	2	3	12	-	-	17*	**08759**
COMPACT 18 KW	1200	10000	1 1/2"	2	3	18	-	-	26*	**08760**

* Standard voltage



Code	Model	Dimensions (mm) A
08756	COMPACT 3	477
08757	COMPACT 6	552
08758	COMPACT 9	552
08759	COMPACT 12	647
08760	COMPACT 18	837



Electric Heater RTI-U

The titanium electric heater measures water temperature and automatically control the temperature desired. Easy installation. Electronic thermostat with digital panel. For pools of 60 up to 120 m². Body made of TITANIUM. Daily programming clock. Wall bracket. Drain plug. Security thermostat with manual reset which prevents the temperature from exceeding 60ºC. Protection IP-65. Power supply 230V 50Hz or 400 V 50 Hz.

	Code	Standard Packing	Standard Weight kg	Standard Volume m³
RTI-U 12 kW	**45738**	1	12	0.005
RTI-U 15 kW	**45739**	1	12	0.005
RTI-U 18 kW	**45740**	1	12	0.005

HEAT EXCHANGERS

Electric Heater RTI-EZ

new

The titanium electric heater measures water temperature and automatically control the temperature desired. Electronic thermostat without digital panel. For pools of 30 up to 80 m². Body made of TITANIUM. Installation directly to the piping. Daily programming clock. Protection IP-43. Power Supply 230V 50Hz or 400 V 50 Hz.

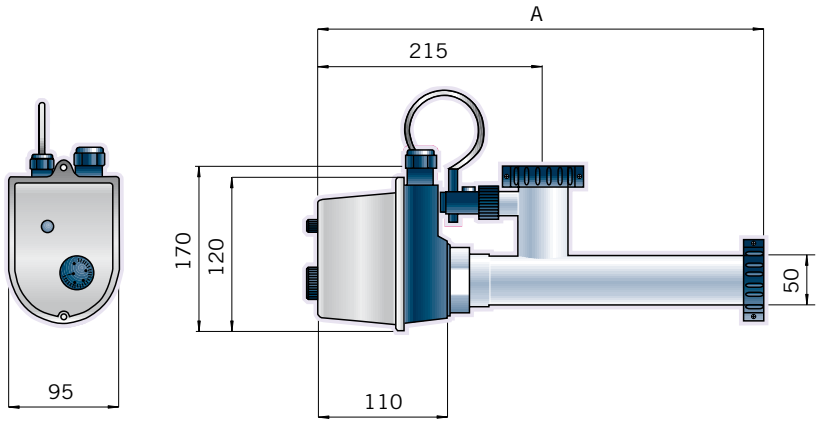
	Code	Standard Packing	Standard Weight kg	Standard Volume m³
RTI-EZ 3 kW	**45741**	1	4.3	0.019
RTI-EZ 6 kW	**45742**	1	4.3	0.019
RTI-EZ 9 kW	**45743**	1	4.3	0.019

Eco

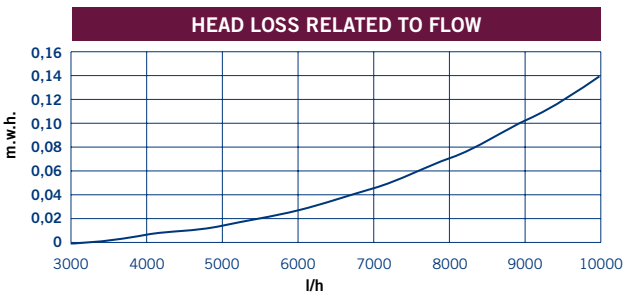
- Body made of stainless steel AISI-316.
- Electrical resistances with protection against corrosion.
- Connections included.
- Fixing brackets included.
- Protection against lack of water with a water flow switch.
- There are two thermostats: one for regulation and the other for safety with manual reset which prevents the temperature from exceeding 65°C.

Model	Hydraulic circuit			Pressure (bar)		Cal. Pow.	Maxi absorbed intensity (A)			Code
	Min. Flow (l/h)	Maxi Flow (l/h)	Hydraul. Conn.	Serv.	Maxi.	kW	I/220/50	III/220/50	III/380/50	
ECO 3 KW	1200	10000	1 1/2"	2	3	3	14	-	4*	**27831**
ECO 6 KW	1200	10000	1 1/2"	2	3	6	28	-	9*	**27832**
ECO 9 KW	1200	10000	1 1/2"	2	3	9	41	-	13*	**27833**
ECO 12 KW	1200	10000	1 1/2"	2	3	12	-	-	17*	**27834**
ECO 18 KW	1200	10000	1 1/2"	2	3	18	-	-	26*	**27835**

* Standard Voltage



Code	Model	Dimensions (mm) A
27831	ECO 3	450
27832	ECO 6	528
27833	ECO 9	528
27834	ECO 12	620
27835	ECO 18	810



HEAT EXCHANGERS

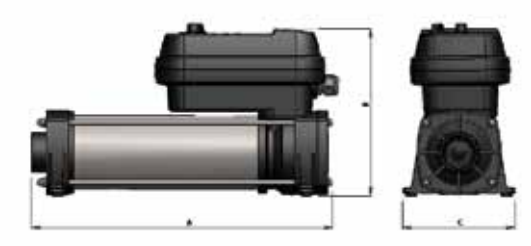
new

Titanium ElectricHeat

New generation of Titanium electric heaters for heating the water of swimming pool and spas, by means of armed titanium resistances.

- Body made of stainless steel AISI-316.
- Sealed titanium resistances.
- Temperature regulation thermostat from 0° to 45°C.
- Flow Switch.
- Housing in fireproof plastic.
- Connections included.
- Fixing brackets included.
- High temperature safety switch (60°C).
- Manual reset system.
- Contactos de maniobra.
- Terminal for electrical connection.

	Code	Standard Packing	Standard Weight kg	Standard Volume m^3
TIT-3 kW	**41429**	1	-	-
TIT-6 kW	**41430**	1	-	-
TIT-9 kW	**41431**	1	-	-
TIT-12 kW	**41432**	1	-	-
TIT-18 kW	**41433**	1	-	-



Model	Code	W	Flow		Hydr. Conn. Ø [mm]	Hz	P [bar]		I [A]		Dimensions mm		
			Min. [l/h]	Maxi. [l/h]			Serv.	Maxi.	II / 220 V	III / 380 V	A	B	C
TIT-3 KW	**41429**	3000	1.200	10.000	50	50	2	3	14	4	410	235	158
TIT-6 KW	**41430**	6000	1.200	10.000	50	50	2	3	28	9	410	235	158
TIT-9 KW	**41431**	9000	1.200	10.000	50	50	2	3	41	13	410	235	158
TIT-12 KW	**41432**	12000	1.200	10.000	50	50	2	3	-	17	410	235	158
TIT-18 KW	**41433**	18000	1.200	10.000	50	50	2	3	-	26	410	235	158

WATER/WATER PLATE HEAT EXCHANGER

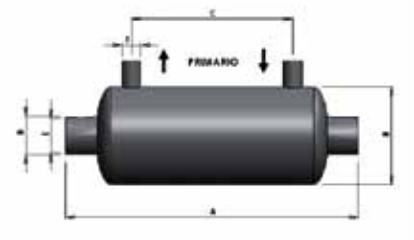
Waterheat

new

Heat exchanger suitable for warming the temperature of swimming pools and SPAS, thanks to the heat exchange between primary circuit and the secondary one.

- Casing built in ABS + Alucoil, body made in polished steel Inox. AISI-316.
- Coils made in titanium.

	Code	Standard Packing	Standard Weight kg	Standard Volume m³
TIT-20 kW	**41426**	1	-	-
TIT-40 kW	**41427**	1	-	-
TIT-60 kW	**41428**	1	-	-



Code	[kW]		Primary		Secondary		Dimensions [mm]					
	90/70°C	60/40°C	m³/h	mca	m³/h	mca	A	B	C	D	E	F
41426	20	10	1,6	0,09	10	0,01	293	129	120	55	1 1/2"	3/4"
41427	40	20	1,6	0,14	15	0,01	388	129	215	55	1 1/2"	3/4"
41428	60	30	2,5	0,17	20	0,01	509	129	336	55	1 1/2"	3/4"

Equiped Waterheat

new

Heat exchanger suitable for warming the temperature of swimming pools and SPAS, thanks to the heat exchange between the primary circuit (warm area) and the secondary one (cold area that we want to warm).

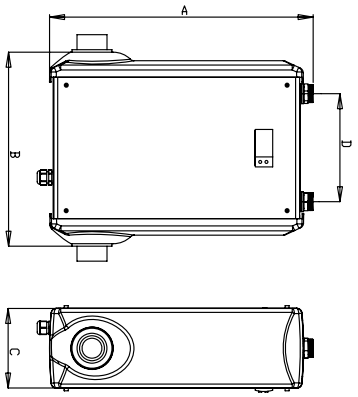
- Casing built in ABS + Alucoil.
- Body made in polished steel Inox. AISI-316 (secondary, swimming pool water).
- Coils made in alloy of titanium (primary, water from boiler).
- Supplied totally equipped with 3 Ways Valve, Recirculation pump and Thermostat.
- Primary pressure work 10 bars.
- Secondary pressure work 3 bars.

CONNECTIONS:

- Primary (heating): 1" ó 1-1/2"
- Secondary (swimming pool): 50 mm.

	Code	Standard Packing	Standard Weight kg	Standard Volume m³
TIT-20 kW	**43506**	1	-	-
TIT-40 kW	**43507**	1	-	-
TIT-60 kW	**43508**	1	-	-

Code	[kW]		Primary		Secondary		Dimensions [mm]			
	90/70°C	60/40°C	m³/h	mca	m³/h	mca	A	B	C	D
43506	20	10	1,6	0,09	10	0,01	530	395	160	215
43507	40	20	1,6	0,14	15	0,01	530	490	160	225
43508	60	30	2,5	0,17	20	0,01	530	585	160	305



WATER/WATER PLATE HEAT EXCHANGER

Etna

- Corrugated plates in AISI-316 or Titanium.
- EPDM gaskets.
- Housing in epoxy painted carbon steel.
- In "unequipped" heat exchangers, stainless steel connections AISI-316 or polypropylene in ISO G2 direct thread.
- In "equipped" heat exchangers, primary connections in copper, and secondary in PVC.
- In "equipped" heat exchangers, full regulation, with control of the filtering pump. Double display (setpoint and current reading).
- Recirculating pump in the primary circuit is optional.

Basic model

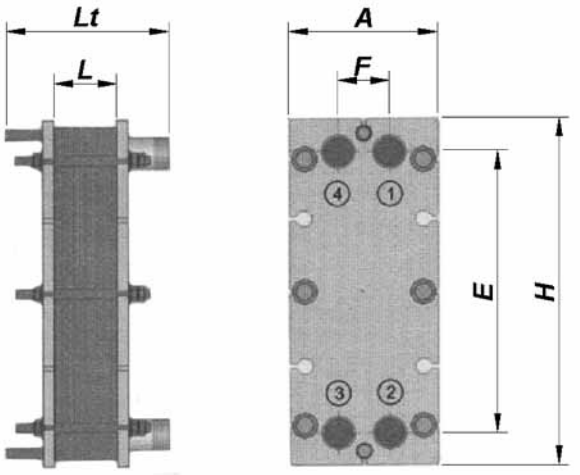
Equipped model

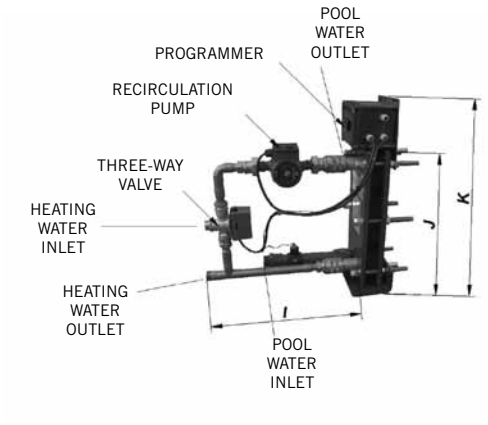
Equipped model + recirculating pump

Model	Power kcal/h.	Nº Plates	Primary Circuit			Secondary Circuit			Consumption (A)
			m^3/h	Head loss m.w.h.	Connections	m^3/h	Head loss	Connections	
ETNA-15 HEAT EXCHANGER	15000	5	0.8	3	3/4"	1.1	3	3/4"	0.30
ETNA-35 HEAT EXCHANGER	35000	9	1.8	3	3/4"	1.76	3	3/4"	0.40
ETNA-50 HEAT EXCHANGER	50000	13	2.6	3	1"	2.51	3	1"	0.40
ETNA-60 HEAT EXCHANGER	60000	15	3.1	3	1"	3.01	3	1"	0.85
ETNA-90 HEAT EXCHANGER	90300	21	4.6	3	1 1/4"	4.3	3	1 1/4"	1.4
ETNA-120 HEAT EXCHANGER	120000	25	6.2	3	1 1/2"	6.02	3	1 1/2"	1.45
ETNA-150 HEAT EXCHANGER	150000	27	7.7	3	1 1/2"	7.53	3	1 1/2"	1.45
ETNA-160 HEAT EXCHANGER	160000	29	8.2	3	1 1/2"	8.02	3	1 1/2"	1.45
ETNA-180 HEAT EXCHANGER	180600	31	9.3	3	2"	9.03	3	2"	1.45
ETNA-200 HEAT EXCHANGER	200000	33	10.3	3	2"	10.04	3	2"	1.5
ETNA-250 HEAT EXCHANGER	250000	39	12.9	3	2"	12.54	3	2"	1.6
ETNA-270 HEAT EXCHANGER	270000	47	13.9	3	2"	13.55	3	2"	1.6
ETNA-300 HEAT EXCHANGER	300000	15	15.4	3	2"	15.05	3	2"	1.7
ETNA-350 HEAT EXCHANGER	350000	17	18	3	2 1/2"	17.56	3	2 1/2"	1.7
ETNA-400 HEAT EXCHANGER	399900	18	20.5	3	2 1/2"	20.09	3	2 1/2"	1.7
ETNA-460 HEAT EXCHANGER	460100	19	23.6	3	2 1/2"	23.2	3	2 1/2"	2.45
ETNA-500 HEAT EXCHANGER	500000	21	25.6	3	2 1/2"	24.8	3	2 1/2"	2.45
ETNA-580 HEAT EXCHANGER	580500	25	29.7	3	3"	28.6	3	3"	2.45

WATER/WATER PLATE HEAT EXCHANGER

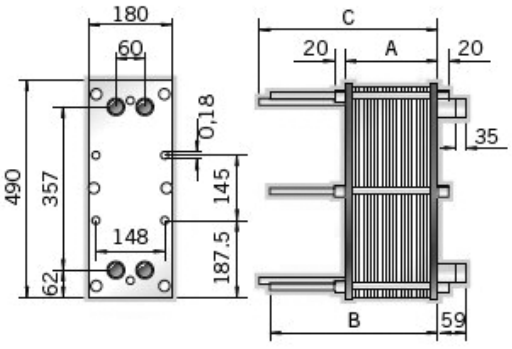
Etna



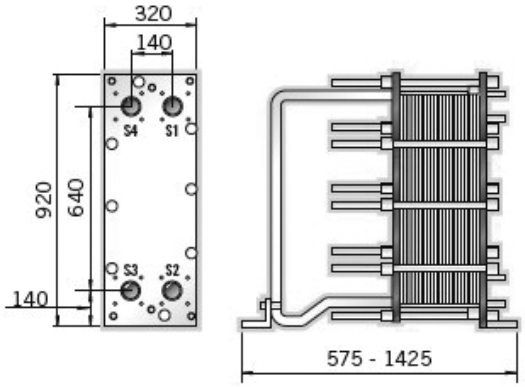


Model	Dimensions (mm)								
	H	A	E	F	Lt	L	I	J	K
Basic model									
15-270	460	200	357	60	220 370	Nº PLATES X 2.9 + 3	-	-	-
300-580	745	310	603	124	630	Nº PLATES X 3.42 + 3.5	-	-	-

Models from INT-35 to INT-270



Models from INT-300 to INT-580



Model	Dimensions (mm)								
	H	A	E	F	Lt	L	I	J	K
Equipped model / Equipped model with recirculating pump									
15-270	460	200	357	60	220 370	Nº PLATES X 2.9 + 3	540	H+10	620
300-580	745	310	603	124	630	Nº PLATES X 3.42 + 3.5	540	H+10	905

WATER/WATER PLATE HEAT EXCHANGER

Etna

Code AISI-316	Description Plate heat exchanger	Code Titanium
Basic model		
43237	INT-15 WATER/WATER PLATE HEAT EXCHANGER	**43233**
32542	INT-35 WATER/WATER PLATE HEAT EXCHANGER	**43238**
32543	INT-50 WATER/WATER PLATE HEAT EXCHANGER	**43234**
32544	INT-60 WATER/WATER PLATE HEAT EXCHANGER	**43235**
33113	INT-90 WATER/WATER PLATE HEAT EXCHANGER	**43236**
32545	INT-120 WATER/WATER PLATE HEAT EXCHANGER	**43239**
32546	INT-150 WATER/WATER PLATE HEAT EXCHANGER	**33133**
32547	INT-160 WATER/WATER PLATE HEAT EXCHANGER	**33134**
32548	INT-180 WATER/WATER PLATE HEAT EXCHANGER	**33135**
32549	INT-200 WATER/WATER PLATE HEAT EXCHANGER	**33136**
32550	INT-250 WATER/WATER PLATE HEAT EXCHANGER	**33137**
32551	INT-270 WATER/WATER PLATE HEAT EXCHANGER	**33138**
32552	INT-300 WATER/WATER PLATE HEAT EXCHANGER	**33139**
32553	INT-350 WATER/WATER PLATE HEAT EXCHANGER	**33140**
33114	INT-400 WATER/WATER PLATE HEAT EXCHANGER	**33141**
33115	INT-460 WATER/WATER PLATE HEAT EXCHANGER	**33142**
32554	INT-500 WATER/WATER PLATE HEAT EXCHANGER	**33143**
33116	INT-580 WATER/WATER PLATE HEAT EXCHANGER	**33144**
Equipped model		
33117	INT-15 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33145**
32555	INT-35 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33146**
32556	INT-50 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33147**
32557	INT-60 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33148**
33118	INT-90 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33149**
32558	INT-120 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33150**
32559	INT-150 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33151**
32560	INT-160 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33152**
32561	INT-180 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33153**
32562	INT-200 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33154**
32563	INT-250 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33155**
32564	INT-270 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33156**
32565	INT-300 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33157**
32566	INT-350 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33158**
33119	INT-400 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33159**
33120	INT-460 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33160**
32567	INT-500 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33161**
33121	INT-580 EQUIPPED WATER/WATER PLATE HEAT EXCHANGER	**33162**
Equipped model + Recirculation pump		
33122	INT EQUIPPED+RECIR-15 WATER/WATER PLATE HEAT EXCHANGER	**33163**
32568	INT EQUIPPED+RECIR-35 WATER/WATER PLATE HEAT EXCHANGER	**33164**
32569	INT EQUIPPED+RECIR-50 WATER/WATER PLATE HEAT EXCHANGER	**33165**
32570	INT EQUIPPED+RECIR-60 WATER/WATER PLATE HEAT EXCHANGER	**33166**
33123	INT EQUIPPED+RECIR-90 WATER/WATER PLATE HEAT EXCHANGER	**33167**
32571	INT EQUIPPED+RECIR-120 WATER/WATER PLATE HEAT EXCHANGER	**33168**
32572	INT EQUIPPED+RECIR-150 WATER/WATER PLATE HEAT EXCHANGER	**33169**
32573	INT EQUIPPED+RECIR-160 WATER/WATER PLATE HEAT EXCHANGER	**33170**
32574	INT EQUIPPED+RECIR-180 WATER/WATER PLATE HEAT EXCHANGER	**33171**
32575	INT EQUIPPED+RECIR-200 WATER/WATER PLATE HEAT EXCHANGER	**33172**
32576	INT EQUIPPED+RECIR-250 WATER/WATER PLATE HEAT EXCHANGER	**33173**
32577	INT EQUIPPED+RECIR-270 WATER/WATER PLATE HEAT EXCHANGER	**33174**
32578	INT EQUIPPED+RECIR-300 WATER/WATER PLATE HEAT EXCHANGER	**33175**
32579	INT EQUIPPED+RECIR-350 WATER/WATER PLATE HEAT EXCHANGER	**33176**
33124	INT EQUIPPED+RECIR-400 WATER/WATER PLATE HEAT EXCHANGER	**33177**
33125	INT EQUIPPED+RECIR-460 WATER/WATER PLATE HEAT EXCHANGER	**33178**
33580	INT EQUIPPED+RECIR-500 WATER/WATER PLATE HEAT EXCHANGER	**33179**
33126	INT EQUIPPED+RECIR-580 WATER/WATER PLATE HEAT EXCHANGER	**33180**

POOL & SPA GAS HEATERS

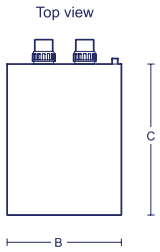
MX and HX Electronic Gas Heaters

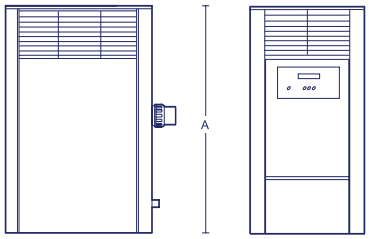
Electronic Ignition - 220V-240V input, 24 Tranformer, LCD temperature display, pool & spa separate set points, corrosion resistant copper nickel heat exchanger, glass reinforced nylon headers, glue in plastic connections, outdoor weatherproof, marine grade powder coated inside and out.
Ordering: For indoor installation, order Draught Diverter, specify plumbing connection size (EUR or USA), specify Gas Type.
Please inquire with your nearest branch for other options available:
MX Millivolt Standing Pilot Gas Heaters with mechanical thermostat
MX Commercial Grade Gas Heaters with bronze headers
MX Heaters suitable for LPG
Draught Diverters for Indoor Installation of MX Gas Heaters

	kW Input	kW Output	Code	Standard Packing	Standard Weight kg	Standard Volume m³
HX 70 Cupro Nickel	20	-	**41356**	1	25	0.174
HX 120 Cupro Nickel	32	-	**41357**	1	35	0.266
MX 125 Cupro Nickel	35	25	**41358**	1	54	0.310
MX 150 Cupro Nickel	44	35	**41359**	1	61	0.361
MX 200 Cupro Nickel	54	43	**41360**	1	75	0.460
MX 250 Cupro Nickel	67	55	**41361**	1	85	0.507
MX 300 Cupro Nickel	82	70	**41362**	1	89	0.542
MX 400 Cupro Nickel	106	85	**41363**	1	95	0.624
MX 500 Cupro Nickel	133	114	**41364**	1	125	0.818

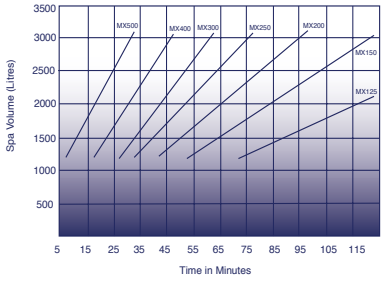
Model	Dimensions (mm)			Gas (mm)	Weight (Kg)
	A	B	C		
HX 70/WX75	720	320	415	15	21
HX 120/WX120	820	390	515	15	25
MX 125	370	790	-	20	42
MX 150	460	790	-	20	50
MX 200	640	790	-	20	58
MX 250	710	790	-	20	66
MX 300	775	790	-	20	74
MX 400	910	790	-	20	90
MX 500	1100	930	-	25	110

HX HEATERS

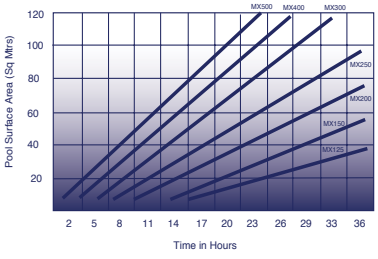




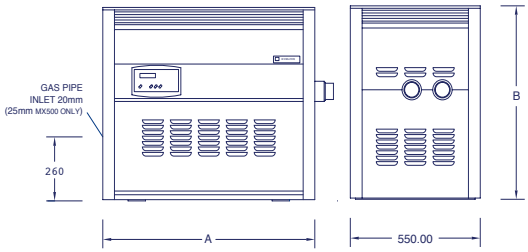
SPA HEATING
20 DEGREE TEMP RISE



POOL HEATING
12 DEGREE TEMP RISE



MX HEATERS



SOLAR HEAT COLLECTORS

Polypropylene solar collectors

Solar heating system which operates with polypropylene (PP) solar collectors, a material very resistant to corrosion. It is very easy to install and can be placed anywhere, always facing the sun for optimum performance. It does not need any additional hydraulic installation to work as it can be used with the same filtration pump. The water is heated as it circulates through the solar collectors tubes and returns to the pool. A system with a suitable installation size will increase the temperature between 6 and 8°C. The necessary collector surface is the equivalent of 50% of the water surface.

Model	Code
SOLAR INGROUND POOL HEATING: BOX WITH TWO 0.61 X 6.10 M PANELS	**32870**
SOLAR INGROUND POOL HEATING: CONNECTION KIT FOR EVERY 4 PANELS (2 BOXES)	**32871**
SOLAR ABOVEGROUND POOL HEATING: BOX WITH ONE 0.61 X 6.10 M PANEL	**32872**

DEHUMIDIFIERS

CDP LINE Dehumidifier

The CDP LINE dehumidifier (a pool dehumidification unit) is used in installations where individual humidity and temperature control of the area is required. It takes advantage of the latent heat of porisation and the equipment performance itself in heating the room air of small pools, tubs, changing rooms and bathrooms.

Equipment descrition
- Body in ABS and ALUCOIL.
- Thermal-acoustic inside insulation.
- Monoblock evaporation and condensation batterymadeout of copper pipes with lacquered aluminium fins (specially designed for corrosive environments).
- Airtight compressor with an internal protection mechanism, carter resistance and a muffler.
- A copper-nitrogen, dehydrated and deoxidized refrigerated circuit.
- Centrifugal ventilator with different flows.
- Ozone-safe R407C gas charge (ecological).
- Condensation collection gutter.
- Wall or floor machine to be placed inside the pool or behind the wall (built-in model, comes with wall bushing and grilles).
- Pressure-balancing expansion valve.
- Electric or hot water post-heating battery.

CONTROL:
- Control of humidity and temperature with Hygro-thermostat, with humidity and temperature probe.
- Automatic reset mini-pressure switches.
- Defrost thermostat.

ASSEMBLY AND MAINTENANCE:
- Easy and quick assembly and maintenance access.
- Outside load shell sockets to connect manifold gauges.
- Easy to clean filters and machinery.

General Operating Conditions
- Installation air temperature: 28ºC.
- Humidity: 65 %.
- Minimum installation air temperature: 18ºC

Code	Description
41493	CDP-2+E (220) Dehumidification Capacity 2.1 l/h + Electrical Battery 4 Kw
41494	CDP-2+E (220) 2.1 l/h + Electrical Battery 4 Kw. Built-in model
41495	CDP-2+A (220) Dehumidification Capacity 2.1 l/h + hot water post-heating 6 Kw
41496	CDP-2+A (220) 2.1 l/h + hot water battery 6 Kw. Built-in model
41497	CDP-3+E (220) Dehumidification Capacity 3.1 l/h. + Electrical Battery 4 KW
41498	CDP-3+E (220) 3.1 l/h. + Electrical Battery 4 Kw. Built-in model
41499	CDP-3+A (220) 3.1 l/h + hot water battery 9 Kw
41500	CDP-3+A (220) 3.1 l/h + hot water battery 9 Kw. Built-in model
41501	CDP-4+E (220) Dehumidification Capacity 4.2 l/h. + Electrical Battery 5 Kw
41502	CDP-4+E (220) 4.2 l/h. + Electrical Battery 5 Kw. Built-in model
41503	CDP-4+A (220) Dehumidification Capacity 4.2 l/h + hot water post-heating 12 Kw
41504	CDP-4+A (220) 4.2 l/h + hot water battery 12 Kw. Built-in model
41505	CDP-5+E (220) Dehumidification Capacity 5.1 l/h. + Electrical Battery 5 Kw
41506	CDP-5+E (220) 5.1 l/h. + Electrical Battery 5 Kw. Built-in model
41507	CDP-5+A (220) Dehumidification Capacity 5.1 l/h + hot water battery 12 Kw
41508	CDP-5+A (220) 5.1 l/h + hot water battery 12 Kw. Built-in model

DEHUMIDIFIERS

CDP LINE Dehumidifier

	CDP-2	CDP-3	CDP-4	CDP-5
Dehumidification capacity	2.1 lts/h	3.1 lts/h	4.2 lts/h	5.1 lts/h
Calorific power (water condenser)	4,277 W	5,313 W	7,068 W	8,473 W
COMPRESSOR				
Units	1	1	1	1
Type	Hermetic			
Voltage	220V II	220V II	220V II	220V II
Frequency	50 HZ	50 HZ	50 HZ	50 HZ
Consumption. (Amp)	6.01	7.04	9.91	9.4
Nominal power (kW)	1-F	1 1/4-F	1 5/8-F	2-F
VENTILATOR				
Type	Centrífugal			
Units	1	1	1	1
Flow rate (m^3/h)	700	800	1.000	1.200
Consumption. (Amp)	1.1	1.1	1.1	1.1
Voltage	220 V	220 V	220 V	220 V
OTHER DATA				
Nominal consumption	7.1 Amp	8.2 Amp	11.01 Amp	10.5 Amp
Refrigerant gas	R-407C	R-407C	R-407C	R-407C
Weight in kg + Electrical Battery	74	74	92	92
Weight in Kg + A.C. battery	78	78	102	102

Calculations based on an air temperature of 28ºC at 70% de RH.

Optional

OPTIONAL		UDP-2+E	UDP-3+E	UDP-4+E	UDP-5+E
Electrical Resistance Battery	Kw	4	4	5	5

HOT WATER BATTERY		UDP-2+A	UDP-3+A	UDP-4+A	UDP-5+A
Hot water battery	Kw	6	9	12	12
Primary Flow rate	l/h	270	400	600	600
Water pressure drop	m.w.h.	0.27	0.30	0.35	0.35
Collector Diameter	inches	¾"	¾"	¾"	¾"

Dimensions

DIMENSIONS	CDP-2	CDP-3	CDP-4	CDP-5
Length (A) (mm)	1200	1200	1500	1500
Height (mm)	900	900	900	900
Width (mm)	300	300	300	300

DEHUMIDIFIERS

Confort Compisa BDP dehumidifying unit

The COMPISA BDP heat pump is used for the dehumidification of indoor pools, using the latent heat of evaporation and the performance of the system itself to heat the pool water and the room air.
The energy savings achieved with these systems compared to traditional climatization systems mean that they are virtually essential when you wish to heat an indoor pool. The wide range of models covers all requirements of the market.

- Body made out of painted and lacquered galvanised steel sheet. Self supporting chassis and demountable access panels. Closing panels with rubber gasket to ensure water-tightness.
- Thermal-acoustic inside insulation.
- Direct transmission single centrifugal ventilator.
- Changeable and cleanable air filter, with 83% to 90% gravimetric efficiency.
- Condensation collection gutter with drainpipe.
- A copper nitrogen, dehydrated and deoxidised refrigerated circuit. Air condensation.
- Ozone-safe R407C refrigerant gas charge (ecological).
- Evaporation, condensation and hot water batteries made of copper pipes with lacquered aluminium fins (specially-designed for corrosive environments).
- Airtight compressor mounted onto anti-vibration mounts.
- Pressure balancing expansion valve.
- High and low pressure switch.
- General door switch.
- Power source, compressor and ventilator motor protection mechanisms.
- Complete regulation of all equipment elements.
- Three-way valves and their regulation when a hot water battery is incorporated.

OPTIONAL:

- 1 or 2 stage electrical resistance to support air heating.
- Hot water battery to support air heating, with three-way valve, temperature probe and regulation.
- (ask about primary temperatures that are different than the standard equipment)
- Mixture chamber and shutter to bring in outside air.
- Titanium water condenser.

General Operating Conditions

- The thermal hygrometric conditions for these facilities that are considered optimal for materials and people include:
- Air 28ºC - 30ºC
- 65% HR
- Water 2ºC below the air temperature

Code	Model
41422	COMPISA BDP-4 AIR/LOW AIR SILHOUETTE DEHUMIDIFIER + 10,000 KCAL/H WATER BATTERY
41423	COMPISA BDP-4 AIR/LOW AIR SILHOUETTE DEHUMIDIFIER 5 KW ELECTRICAL BATTERY
41424	COMPISA BDP-5 AIR/LOW AIR SILHOUETTE DEHUMIDIFIER + 10,000 KCAL/H WATER BATTERY
41425	COMPISA BDP-5 AIR/LOW AIR SILHOUETTE DEHUMIDIFIER 5 KW ELECTRICAL BATTERY
41539	COMPISA BDP-06 DEHUMIDIFYING HEAT PUMP CONFORT
41540	COMPISA BDP-08 DEHUMIDIFYING HEAT PUMP CONFORT
41541	COMPISA BDP-10 DEHUMIDIFYING HEAT PUMP CONFORT
41542	COMPISA BDP-12 DEHUMIDIFYING HEAT PUMP CONFORT
41543	COMPISA BDP-16 DEHUMIDIFYING HEAT PUMP CONFORT
41592	COMPISA BDP-06 COMFORT MIXTURE CHAMBER
41593	COMPISA BDP-08 COMFORT MIXTURE CHAMBER
41594	COMPISA BDP-10 COMFORT MIXTURE CHAMBER
41595	COMPISA BDP-12 COMFORT MIXTURE CHAMBER
41596	COMPISA BDP-16 COMFORT MIXTURE CHAMBER
26514	ELECTRIC POST-HEATING+REGULATION Pow. 5 KW
26515	ELECTRIC POST-HEATING+REGULATION Pow. 6 KW
26516	ELECTRIC POST-HEATING+REGULATION Pow. 9 KW
26517	ELECTRIC POST-HEATING+REGULATION Pow. 12 KW
26518	ELECTRIC POST-HEATING+REGULATION Pow. 15 KW
26519	ELECTRIC POST-HEATING+REGULATION Pow. 20 KW
26520	POST-HEATING (WATER BOILER) + 3 WAY V. BDP - 06
26521	AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 20000KH FOR BDP-08
26522	AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 28000KH FOR BDP-10
26523	AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 32000KH FOR BDP-12
26524	AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 48000KH FOR BDP-16

DEHUMIDIFIERS

Confort Compisa BDP dehumidifying unit

Characteristics	MODELS						
	BDP-4 AIR/LOW AIR SILHOUETTE	BDP-5 AIR/LOW AIR SILHOUETTE	BDP-6	BDP-8	BDP-10	BDP-12	BDP-16
Dehumidification capacity	4.2 lts/h	5.8 lts/h	5.9 lts/h	8.3 lts/h	11 lts/h	12.5 lts/h	17.35 lts/h
Calorific power (w) (Water condenser)	-	-	-	-	-	-	-
Calorific power (w) (Air condenser)	7,068	8,473	-	-	-	-	-
CONDENSER							-
Num. of condensers (Water)	-	-	-	-	-	-	-
Flow (l/h)	-	-	-	-	-	-	-
Head loss (m.w.h.)	-	-	-	-	-	-	-
Num. of condensers (Air)	-	-	1	1	1	1	1
Num. of circuits	-	-	1	1	1	1	1
COMPRESSOR							
Units	1	1	1	1	1	1	1
Type	Hermetic						
Voltage	220V II	220V II	220V II	380V II	380V II	380V II	380V II
Frequency	50 HZ	50 HZ	50 HZ	50 HZ	50 HZ	50 HZ	50 HZ
Nominal Power (kW)	1.8	2.4	2.39	3.45	4.12	4.52	5.3
VENTILATOR							
Type	Centrifugal						
Units	1	1	1	1	1	1	1
Flow rate (m^3/h)	1,000	1,200	1,800	2,800	3,800	4,300	5,500
Available pressure m.w.h.	15	15	20	20	20	20	20
Absorbed power (kW)	0.2	0.2	0.25	0.55	1.1	1.1	1.1
Vent. Absorb. Pressure Return – free-cooling (Kw)	-	-	0.20	0.35	0.55	0.55	0.75
EVAPORATOR							
Type	Cu-Al (lacado)						
Units	1	1	1	1	1	1	1
Front surface (m^2)	0.2	0.2	0.3	0.3	0.5	0.5	1.0
OTHER DATA							
Calorific Power (w)	-	-	10599	14900	19500	22302	37097
Dimensions (mm)	1200, 700, 400	1200, 700, 400	1450,750,740	1450,750,740	1450,875,840	1450,875,840	1500,1800,1100
Weight (Kg)	-	-	234	240	350	450	700
Weight with batt. heating (Kg)	90	95	-	-	-	-	-
Weight con electric batt. (Kg)	75	80	-	-	-	-	-
Pool water connections	¾"	¾"	¾"	¾"	¾"	¾"	¾"
Refrigerant gas	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C

Calculations based on an air temperature of 28ºC at 70% RH.

Optional

HOT WATER BATTERY		BDP-6	BDP-8	BDP-10	BDP-12	BDP-16
Hot Water coil	w	17.433	23.244			
Primary temperature	ºC	85-65	85-65	85-65	85-65	85-65
Primary Flow rate	l/h	750	1.000	1.400	1.600	2.400
Water Pressure drop	m.w.h.	6,2	2,6	1,5	1,8	1,8
Collector diameter	inches	1"	1"	1"	1"	1 ¼"

DEHUMIDIFIERS

Compisa BDP dehumidifying unit

The COMPISA BDP heat pump is used for the dehumidification of indoor pools, using the latent heat of evaporation and the performance of the system itself to heat the pool water and the room air, and to control the three parameters which define comfort in a swimming pool: water, air and relative humidity.
The energy savings achieved with these systems compared to traditional climatization systems mean that they are virtually essential when you wish to heat an indoor pool. The wide range of models covers all requirements of the market.

- Monoblock design.
- Construction with dismountable panels of galvanized steel, plastified on their outer surface (PVC plastic film) and with non-corrosive protection (5µ primer paint, with thermosetting Epoxy resin base and oven-dried), and thermoacoustic protection (sound-absorbing panel in expanded polyurethane) on their inner walls joined with profiles of coated aluminium.
- Removable and cleanable air filter, with 83% to 90% gravimetric efficiency.
- Stainless steel condensation collection tray with drain pipe of 13, 16 and 23 mm according to model.
- Titanium water condenser.
- Evaporator, condenser, and hot water unit, made of copper tube with coated aluminium fins (special for corrosive environments).
- Hermetic compressor.
- One or two refrigeration circuits of nitrogenated, dehydrated and deoxidised copper, according to models.
- Centrifugal motor-fans, with direct transmission or by belts, pulleys and electric motor mounted on adjustable tensioner, with the possibility of varying flows and standard available pressures (this option on order).
- Free-cooling made up of three gates and recovery ventilator. This option must be ordered.
- Filled with refrigerant gas R407C with low environmental impact.
- Expansion valve with pressure balancing unit.
- Possibility of condensing 100% water or 100% as an option which must be ordered especially.
- Possibility of including water-water plate heat exchangers in series with water condensers to back-up the heating of the pool (this option must be ordered; contact the Sales Department).
- Possibility of adding external condenser to expel excess heat from the installation. (This option must be ordered especially).
- Full regulation of all elements of the unit.
- Three-way valves and a hot water unit and a water-water heat exchanger are built-in.
- Hydraulic connections in PVC.

DEHUMIDIFIERS

Compisa BDP dehumidifying unit

Characteristics	Model						
Model	**BDP-6**	**BDP-8**	**BDP-10**	**BDP-12**	**BDP-16**	**BDP-21**	**BDP-25**
Dehumidification capacity	5.9 l/h	8.3 l/h	11 l/h	12.5 l/h	17.35 l/h	21.95 l/h	26.2 l/h
Calorific power (w) (Water condenser)	6360	8940	11700	13381	22259	22259	26700
Calorific power (w) (Air condenser)	4239	5960	7800	8921	14838	14838	17800
CONDENSER							
Num. of condensers (Water)	1	1	1	1	1	1	1
Flow (l/h)	4000	4000	6000	6000	8000	8000	10000
Head loss (m.w.h.)	2.5	2.5	3.6	3.6	3.5	3.6	3.5
Num. of condensers (Air)	1	1	1	1	1	1	1
Num. of circuits	1	1	1	1	1	1	1
COMPRESSOR							
Units	1	1	1	1	1	1	1
Type	Hermetic	Hermetic	Hermetic	Hermetic	Hermetic	Hermetic	Hermetic
Voltage	220 V II	380 V III	380 V III	380 V III	380 V III	380 V II	380 V II
Frequency	50 HZ	50 HZ	50 HZ	50 HZ	50 HZ	50 HZ	50 HZ
Consumption (Amp)	12	6.5	8	9	11.45	15.9	20.79
Nominal Power (kW)	2.39	3.45	4.12	4.52	5.3	7.78	9.39
VENTILATOR							
Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Units	1	1	1	1	1	1	1
Flow rate (m^3/h)	1800	2800	3800	4300	5500	5500	7000
Available pressure m.w.h.	20	1.1	1.1	1.1	1.1	1.1	1.1
Absorbed power (kW)	0.25	0.55	1.1	1.1	1.1	1.1	2.2
Voltage	220/2/50 Hz	220/2/50 Hz	380/3/50 Hz	380/3/50 Hz	380/3/50 Hz	380/3/50 Hz	380/3/50 Hz
EVAPORATOR							
Type	Cu-Al (lacqu.)	Cu-Al (lacqu.)	Cu-Al (lacqu.)	Cu-Al (lacqu.)	Cu-Al (lacqu.)	Cu-Al (lacqu.)	Cu-Al (lacqu.)
Units	1	1	1	1	1	1	1
Front surface (m^2)	0.3	0.3	0.5	0.5	1	1	1
OTHER DATA							
Calorific Power (w)	10599	14900	19500	22302	37037	37097	44500
Refrigerant gas	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C
Weight (Kg)	234	240	350	450	700	1.100	720
Pool water connections	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
OPTIONAL	**BDP-6**	**BDP-8**	**BDP-10**	**BDP-12**	**BDP-16**	**BDP-21**	**BDP-25**
Hot Water coil w	17433	23244	32541	37190	55785	55785	69732
Primary Flow rate l/h	750	1000	1400	1600	2400	2400	3000
Water Pressure drop m.w.h.	3.8	1.5	0.9	1.1	1.9	1.9	1.9
Collector diameter inches	1"	1"	1"	1"	1"	1"	1"

DEHUMIDIFIERS

Compisa BDP dehumidifying unit

Characteristics	Model								
Model	**BDP-30+F**	**BDP-35+F**	**BDP-44+F**	**BDP-50+F**	**BDP-60+F**	**BDP-82+F**	**BDP-110+F**	**BDP-140+F**	**BDP-160+F**
Dehumidification capacity (l/h)	37.3	36.6	43.7	53.3	65.6	87.7	112.7	140	163.4
Calorific power (W) (water condenser)	3198	36421	53582	53582	67201	87597	108001	143997	167999
Calorific power (W) (air condenser)	20798	24280	35721	35721	44800	58398	72000	95997	111998
CONDENSADOR									
Num. of condensers (Water)	1	1	2	2	2	2	2	2	2
Flow (l/h)	5000	6000	10200	10200	10400	10400	20000	26000	26000
Head loss (m.w.h.)	3.6	3.4	3.4	3.4	3.6	3.6	4.4	5.5	5.5
Num. of condensers (Air)	1	1	2	2	2	2	1	1	1
Num. of circuits	1	1	2	2	2	2	1	1	1
COMPRESSOR									
Units	1	1	1	1	1	1	2	2	2
Type	Hermetic	Hermetic	Hermetic	Hermetic	Semi-Hermetic	Semi-Hermetic	Semi-Hermetic	Semi-Hermetic	Semi-Hermetic
Voltage	380 V III	380 V III	380 V III	380 V III	380 V III	380 V II	380 V II	380 V II	380 V II
Frequency	50 HZ	50 HZ	50 HZ	50 HZ	50 HZ	50 HZ	50 HZ	50 HZ	50 HZ
Nominal power (kW)	10.77	13.3	2X7.78	2X9.39	2X10.82	2X15.54	2x15.90	2x23.62	2x29.20
VENTILATOR									
Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Units	2	2	2	2	2	2	2	2	2
Flow rate (m^3/h)	7000	7000	12000	12000	18000	22000	22000	30000	35000
Available pressure m.w.h.	20	20	20	20	20	20	20	20	20
Absorbed power (kW)	2.2/1.1	2.2/1.1	3/1.5	3/1.5	5.5/3	7.5/4	5.5/4	9.2/7.5	11/7.5
Voltage	380/3/50 Hz	380/3/50 Hz	380/3/50 Hz	380/3/50 Hz	380/3/50 Hz	380/3/50 Hz	380/3/50 Hz	380/3/50 Hz	380/3/50 Hz
EVAPORATOR									
Type	Cu-Al (lacqu.)	Cu-Al (lacqu.)	Cu-Al (lacqu.)	Cu-Al (lacqu.)	Cu-Al (lacqu.)	Cu-Al (lacqu.)	Cu-Al (lacqu.)	Cu-Al (lacqu.)	Cu-Al (lacqu.)
Units	1	1	2	2	2	2	2	2	2
Front surface (m^2)	1	1	2	2	2	2.4	2.8	3.8	3.8
OTHER DATA									
Calorific power (w)	51996	60701	89303	89303	112001	145995	180000	239994	279997
Refrigerant gas	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C
Weight (Kg)	1270	1290	2600	2650	2720	3150	3450	3700	3900
Pool water connections	2"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
OPTIONAL	**BDP-30+F**	**BDP-35+F**	**BDP-44+F**	**BDP-50+F**	**BDP-60+F**	**BDP-82+F**	**BDP-110+F**	**BDP-140+F**	**BDP-160+F**
Hot Water battery w	69732	69732	116220	116220	150993	180141	234996	237928	349996
Primary Flow rate l/h	3000	3000	5000	5000	6500	7750	10110	12000	15060
Water pressure drop m.w.h.	1.3	1.3	2.8	2.8	3.9	1.4	1.5	1.5	3.4
Collector Diameter inches	1"	1"	1 1/4"	1 1/2"	1 1/2"	2"	2"	2"	2"

Calculations based on an air temperature of 27ºC at 60% RH - 15ºC at 60% RH - 5ºC at 60% RH 12 m^3/h Flow rate. Water at 24ºC.

DEHUMIDIFIERS

Compisa BDP dehumidifying unit

Steel sheet model	Steel Sheet Code
COMPISA BDP-06 DEHUMIDIFYING HEAT PUMP	**26498**
COMPISA BDP-08 DEHUMIDIFYING HEAT PUMP	**26499**
COMPISA BDP-10 DEHUMIDIFYING HEAT PUMP	**26500**
COMPISA BDP-12 DEHUMIDIFYING HEAT PUMP	**26501**
COMPISA BDP-16 DEHUMIDIFYING HEAT PUMP	**26502**
COMPISA BDP-21 DEHUMIDIFYING HEAT PUMP	**26503**
COMPISA BDP-25 DEHUMIDIFYING HEAT PUMP	**26504**
COMPISA BDP-30 DEHUMIDIFYING HEAT PUMP	**26505**
COMPISA BDP-35 DEHUMIDIFYING HEAT PUMP	**26506**
COMPISA BDP-44 DEHUMIDIFYING HEAT PUMP	**26507**
COMPISA BDP-50 DEHUMIDIFYING HEAT PUMP	**26508**
COMPISA BDP-60 DEHUMIDIFYING HEAT PUMP	**26509**
COMPISA BDP-82 DEHUMIDIFYING HEAT PUMP	**26510**
BDP-06 DEHUMIDIFIER + WATER CONDENSER +FREE COOLING	**28311**
BDP-08 DEHUMIDIFIER + WATER CONDENSER +FREE COOLING	**28312**
BDP-10 DEHUMIDIFIER + WATER CONDENSER +FREE COOLING	**28313**
BDP-12 DEHUMIDIFIER + WATER CONDENSER +FREE COOLING	**28314**
BDP-16 DEHUMIDIFIER + WATER CONDENSER +FREE COOLING	**28315**
BDP-21 DEHUMIDIFIER + WATER CONDENSER +FREE COOLING	**28316**
BDP-25 DEHUMIDIFIER + WATER CONDENSER +FREE COOLING	**28317**
BDP-30 DEHUMIDIFIER + WATER CONDENSER + FREE COOLING	**28318**
BDP-35 DEHUMIDIFIER + WATER CONDENSER + FREE COOLING	**28319**
BDP-44 DEHUMIDIFIER + WATER CONDENSER + FREE COOLING	**28320**
BDP-50 DEHUMIDIFIER + WATER CONDENSER + FREE COOLING	**28321**
BDP-60 DEHUMIDIFIER + WATER CONDENSER + FREE COOLING	**28322**
BDP-82 DEHUMIDIFIER + WATER CONDENSER + FREE COOLING	**28323**
COMPISA BDP-110 DEHUMIDIFYING HEAT PUMP + FREE COOLING	**26511**
COMPISA BDP-140 DEHUMIDIFYING HEAT PUMP + FREE COOLING	**26512**
COMPISA BDP-160 DEHUMIDIFYING HEAT PUMP + FREE COOLING	**26513**
ELECTRIC POST-HEATING+REGULATION Pow. 5 KW	**26514**
ELECTRIC POST-HEATING+REGULATION Pow. 6 KW	**26515**
ELECTRIC POST-HEATING+REGULATION Pow. 9 KW	**26516**
ELECTRIC POST-HEATING+REGULATION Pow. 12 KW	**26517**
ELECTRIC POST-HEATING+REGULATION Pow. 15 KW	**26518**
ELECTRIC POST-HEATING+REGULATION Pow. 20 KW	**26519**
POST-HEATING (WATER BOILER) + 3 WAY V. BDP - 06	**26520**

DEHUMIDIFIERS

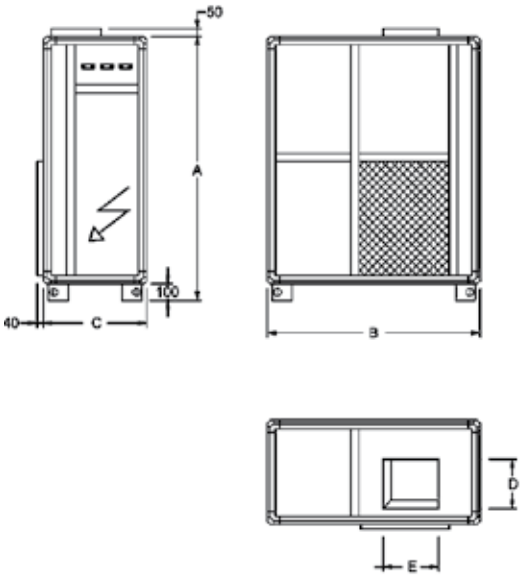
Compisa BDP dehumidifying unit

Steel sheet model	Steel sheet Code
AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 20000KH FOR BDP-08	**26521**
AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 28000KH FOR BDP-10	**26522**
AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 32000KH FOR BDP-12	**26523**
AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 48000KH FOR BDP-16	**26524**
AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 48000KH FOR BDP-21	**26525**
AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 60000KH FOR BDP-25	**26526**
AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 60000KH FOR BDP-30 / BDP-35	**26527**
AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 100000KH FOR BDP-44 / BDP-50	**26528**
AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 130000KH FOR BDP-60	**26539**
AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 155000KH FOR BDP-82	**26530**
AFTER-HEATING BATTERY (WATER BOILER)+ 3 WAY V. 200000KH FOR BDP-110	**26531**
AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 240000KH FOR BDP-140	**26532**
AFTER-HEATING BATTERY (WATER BOILER) + 3 WAY V. 300000KH FOR BDP-160	**26533**
COMPISA BDP 06-08 PLENUM 1 AIR DISCHARGE GRID + 2 RETURN GRIDS	**26534**
COMPISA BDP 10-12 PLENUM 1 AIR DISCHARGE GRID + 2 RETURN GRIDS	**26535**
COMPISA BDP 16-21 PLENUM 1 AIR DISCHARGE GRID + 2 RETURN GRIDS	**26536**
COMPISA BDP 25-30-35 PLENUM 1 AIR DISCHARGE GRID + 2 RETURN GRIDS	**26537**
COMPISA BDP 44-50 PLENUM 1 AIR DISCHARGE GRID + 2 RETURN GRIDS	**26538**
COMPISA BDP 82 PLENUM 1 AIR DISCHARGE GRID + 2 RETURN GRIDS	**26539**
COMPISA BDP 61 PLENUM 1 AIR DISCHARGE GRID + 2 RETURN GRIDS	**26540**
SUPPLEMENT: PROPORTIONAL REGULATION. FOR FREE COOLING	**26627**
WATER/WATER HEAT EXCHANGER + 3 WAY 35000 Kcal./h	**26550**
WATER/WATER HEAT EXCHANGER + 3 WAY 60000 Kcal./h	**26551**
WATER/WATER HEAT EXCHANGER + 3 WAY 120000 Kcal./h	**26552**
WATER/WATER HEAT EXCHANGER + 3 WAY 200000 Kcal./h	**26553**

POOL RETURN AMBIENT AIR OUTLET

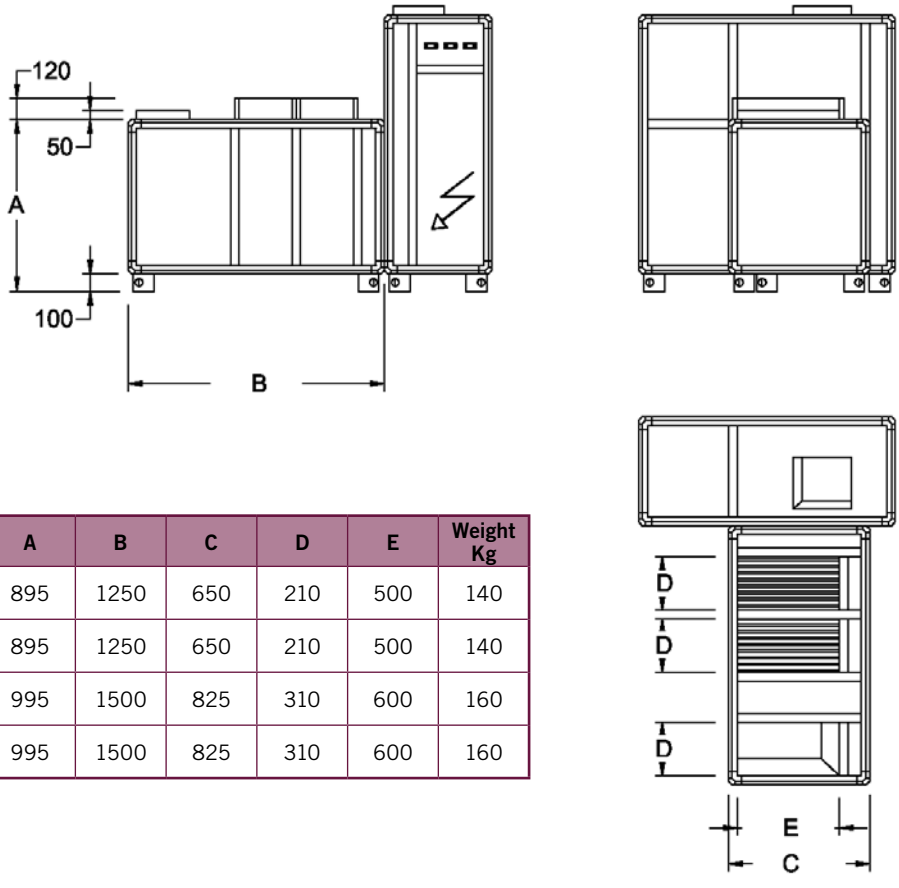
DEHUMIDIFIERS

BDP-06 - BDP-08 - BDP-10 - BDP-12 Compisa BDP dehumidifying units



Model	A	B	C	D	E	Weight Kg
BDP-06	1.600	1300	630	340	310	234
BDP-08	1.600	1300	630	340	310	240
BDP-10	1.600	1500	630	320	350	350
BDP-12	1.600	1500	630	410	350	450

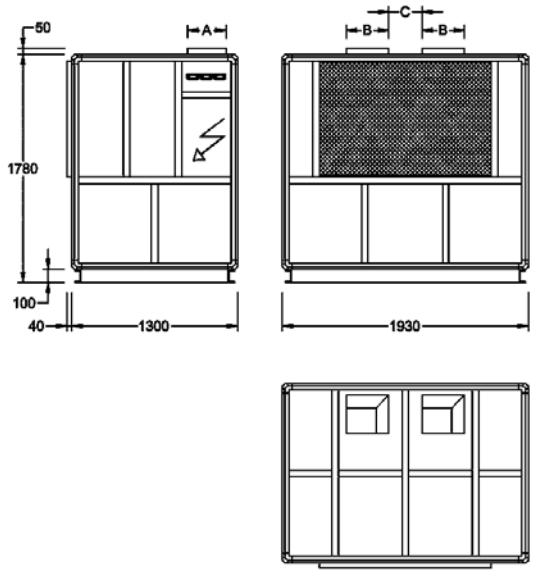
BDP-06 - BDP-08 - BDP-10 - BDP-12 Compisa BDP dehumidifying units with FREECOOLING



Model	A	B	C	D	E	Weight Kg
FREECOOLING BDP-06	895	1250	650	210	500	140
FREECOOLING BDP-08	895	1250	650	210	500	140
FREECOOLING BDP-10	995	1500	825	310	600	160
FREECOOLING BDP-12	995	1500	825	310	600	160

DEHUMIDIFIERS

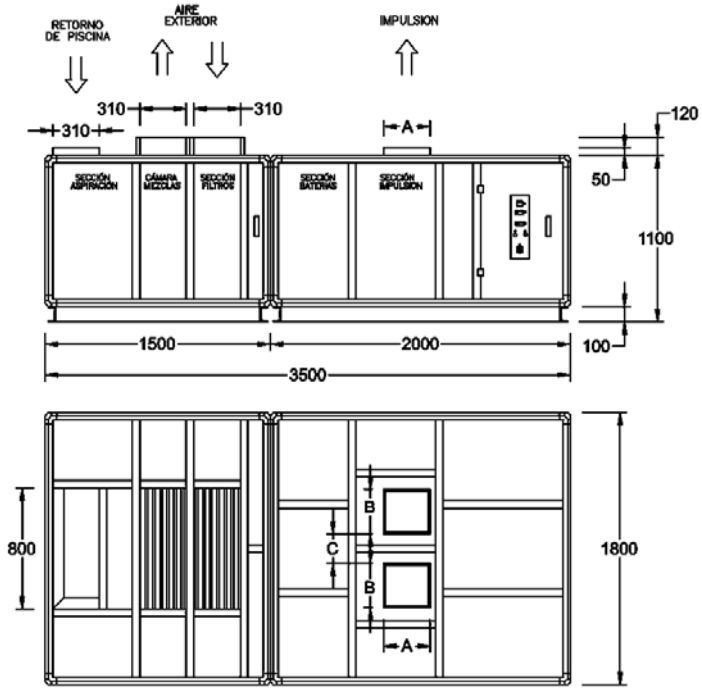
BDP-16 - BDP-21 - BDP-25 - BDP-30 - BDP-35 Compisa BDP dehumidifying units



POSSIBLE DIMENSIONS OF AIR DUCTS		
A (mm)	B (mm)	C (mm)
310	294	194
310	346	243
362	329	224

The size of the ducts can vary depending on the air flow rate demand.

BDP-16 - BDP-21 - BDP-25 - BDP-30 - BDP-35 Compisa BDP dehumidifying units with FREECOOLING

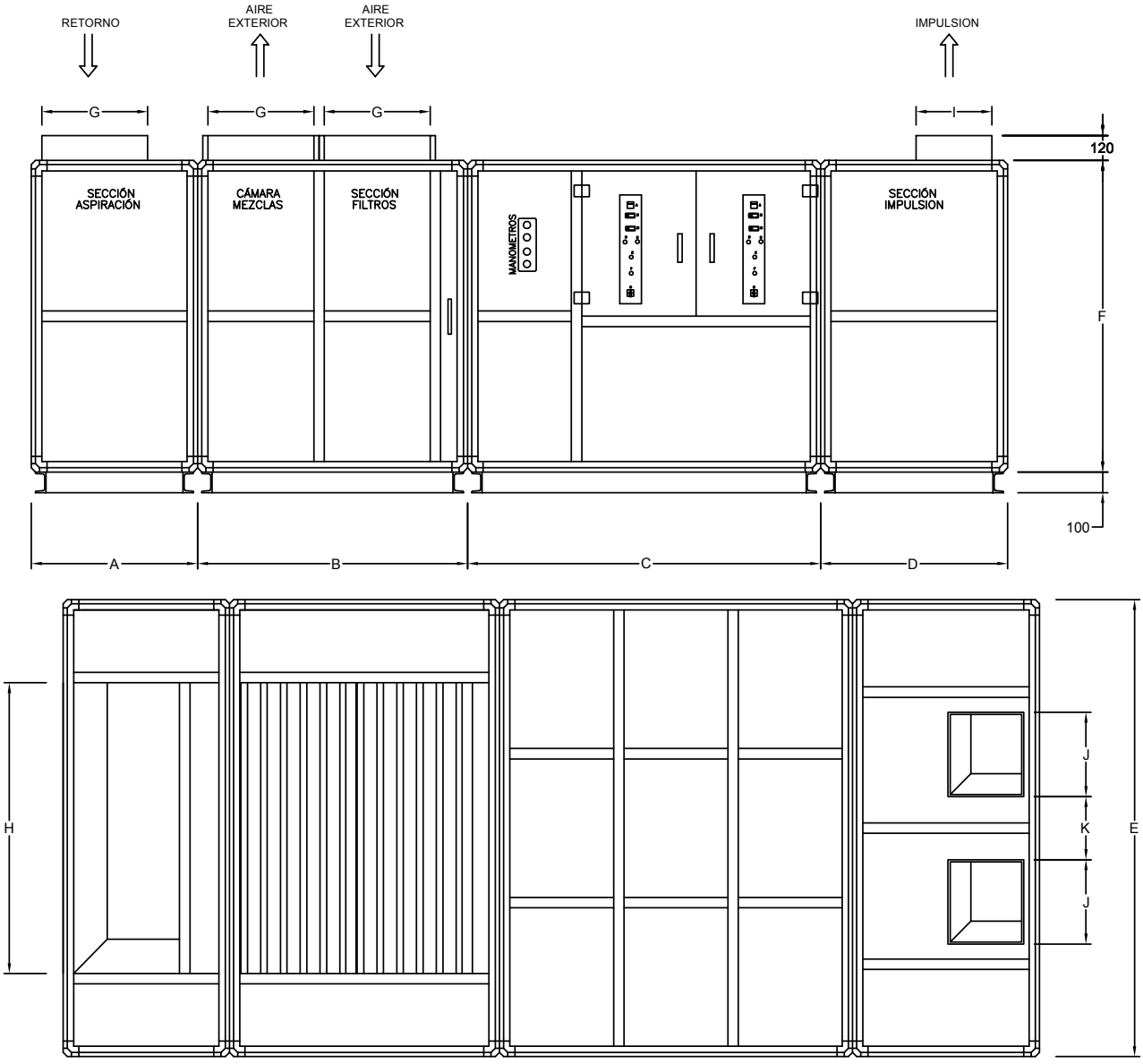


POSSIBLE DIMENSIONS OF AIR DUCTS		
A (mm)	B (mm)	C (mm)
310	294	194
310	346	243
362	329	224

The size of the ducts can vary depending on the air flow rate demand.

DEHUMIDIFIERS

BDP-44 - BDP-50 - BDP-60 - BDP82 - BDP-110 - BDP-140 - BDP-160 Compisa BDP dehumidifying units with FREECOOLING



Model	Dimensions (mm)										
	A	B	C	D	E	F	G	H	I	J	K
BDP-44+F	800	1300	1700	900	2200	1500	510	1400	365	406	304
BDP-50+F	800	1300	1700	900	2200	1500	510	1400	450	505	365
BDP-60+F	800	1300	1700	1200	2200	1500	510	1400	500	448	323
BDP-82+F	800	1300	1900	1200	2400	1500	510	2000	500	580	444
BDP-110+F	800	1300	1900	1200	2700	1500	510	2000	510	585	429
BDP-140+F	1200	1900	2100	1500	3000	1800	810	2000	659	622	460
BDP-160+F	1200	1900	2100	1500	3000	1800	810	2000	659	622	460

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