termobrasa

CATALOGUE

WATER HEATERS AND DHW HEAT PUMPS

HISTORY

Termobrasa was founded in 1970 in a small facility located in Devesas, Vila Nova de Gaia (Portugal). Although the initial objective was to manufacture gutters and metallic kitchen furniture, the company quickly shifted its focus to the production of electric water heaters made from copper sheet.

In the 1980's, due to an unprecedented surge in copper prices, Termobrasa restructured its production and became the first Portuguese company to manufacture water heaters in carbon steel - a solution significantly more cost-effective.

The company's growth led to its relocation to new facilities in Avintes, also in Vila Nova de Gaia, where a significant investment was made in acquiring equipment to manufacture Stainless steel solar autoclaves, and later, electric water heaters.

Continuous investment in innovation for development of sustainable water heating solutions led, at the beginning of the 2000s, to the development of the first thermodynamic heat pumps, which quickly became Termobrasa's main product and the basis for its growth over the last decade.

In 2024, Termobrasa completed the largest investment in its history, modernizing its Avintes industrial unit, equipping it with new machinery and expanding to a total area of 3,000 m², ready to meet new challenges of sustainable growth and international expansion.

MISSION

To design and manufacture products for domestic hot water, using appropriate technology and superior quality, aiming to meet and exceed customer needs and satisfaction, based on sustainability, respect for the environment, and contributing to the improvement of buildings' energy efficiency.

VISION

To be a leading company in both national and international markets, recognized for the quality of its products and for its ethics and professionalism in the relation with customers, suppliers, employees and society.

VALUES

- Innovation with Quality
- Customer commitment
- Commitment to sustainable economic growth and support for local community development
- Sustainability and environmental respect

Over 50 Years of Experience in manufacturing Domestic Water Heating Systems

1970

Foundation of the company at R. Visconde das Devesas, in Vila Nova de Gaia (Portugal)

Manufacturing of gutters and copper water heaters

1980

Manufacturing of enamelled carbon steel water heaters

Opening of the Avintes factory (current location)

1990

Manufacturing of stainless-steel autoclaves for solar panels

2000

·Manufacturing of DHW heat pumps with copper tanks

Manufacturing of Stainless steel (316L) water heaters and DHW heat pumps, discontinuing autoclave production

2010

Manufacturing of duplex Stainless steel 2304 tanks

Manufacturing of Stainless steel AISI 444 tanks

Certification in France (LCIE - Bureau Veritas) of the first Termobrasa product under NF Standard

Manufacturing of DHW heat pumps, Gold model

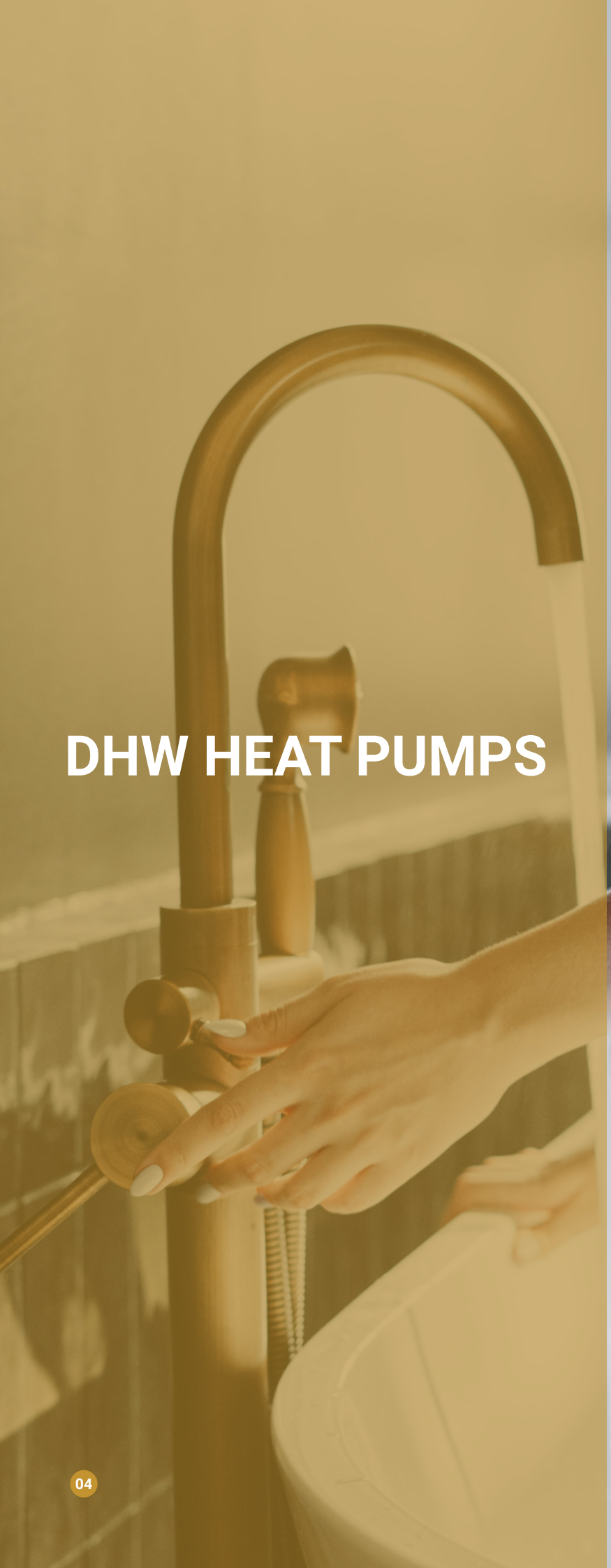
2020

Launch of swimming pool heat pumps

Launch of 100L wall-mounted heat pumps

Inauguration of the new facilities with 3,000 m² of production area

DHW HEAT PUMPS



DHW HEAT PUMPS

The Termobrasa Gold DHW Heat Pump is a monobloc unit that operates based on a thermodynamic principle, where the evaporator is coupled to the accumulator.

The evaporator captures the thermal energy present in the surrounding air, dehumidifying it and transferring the heat to a heat exchanger coiled around the outside of the accumulator, thus heating the water at a cost approximately four times lower than that of electric water heaters and gas water heaters.

With extremely low energy consumption, this system can produce hot water between 55ºC and 60ºC, year-round, 24/7, even on cold winter days, without using the heating element (which is always available for emergency situations). Given that most of the energy is extracted from the environment, 75% of the hot water is free, significantly reducing the energy bill.

A+

100L

150L to 500L

Advantages

- Made in Portugal (Europe)
- Energy Class A+
- Wi-Fi module included for remote control with smart app
- Electronic anode for corrosion prevention
- Stainless steel, Enamelled Steel or Copper Tanks
- PVC-coated exterior shielding
- High-efficiency thermal insulation
- Options with 1 or 2 internal coils (from 150L onwards)

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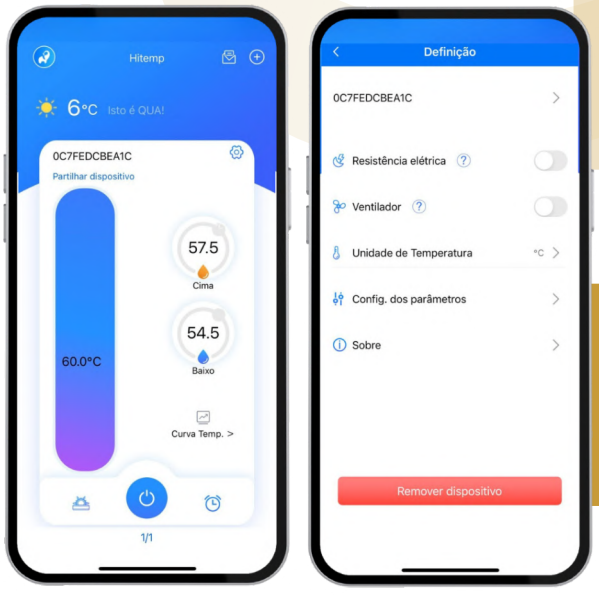
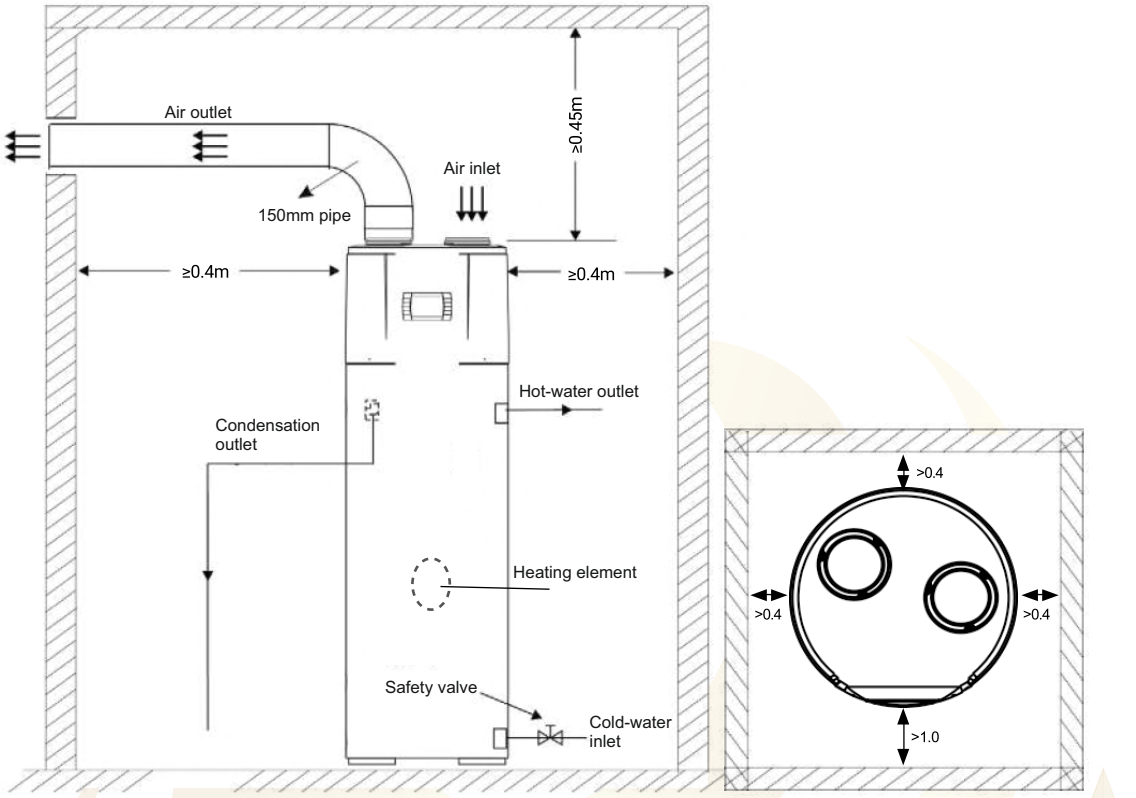
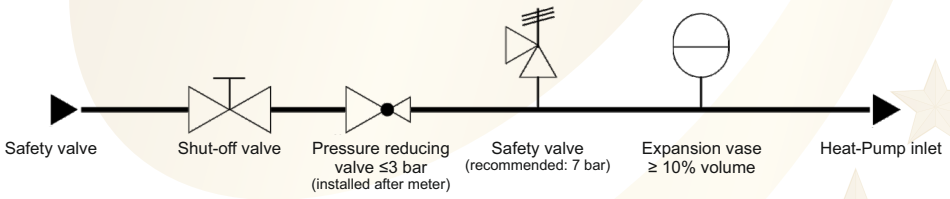


Wi-Fi Connectivity

All Heat Pumps are equipped with Wi-Fi module, allowing the unit's remote control and monitoring all of its operating parameters.

DHW HEAT PUMPS - Dimensions and installation diagram





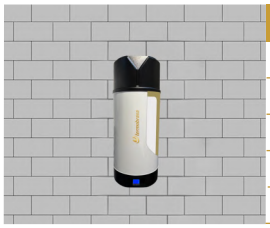
DHW HEAT PUMPS - Technical data

Available Models	Unit	GOLD 100	GOLD 150	GOLD 200	GOLD 280	GOLD 320	GOLD 500
Vertical Position	-	Wall-mounted	Floor-mounted	Floor-mounted	Floor-mounted	Sol	Sol
Nominal Capacity	L	100	150	200	280	320	500
Max. water quantity at 40°C (EN 16147:2017)*	L	152	164	253	335	358	591
Number of users	-	1-2	2-3	3-4	4-6	4-6	7-12
Load profile	-	M	M	L	XL	XL	XXL
COP (EN 16147:2017)	-	3,74*	2,97**	3,57**	3,61**	3,03**	3,45**
Energy class	-	A+					
Energy efficiency	-	158%	129%	152%	149%	124%	138%
Yearly consumption	kWh/y	324	397	673	1122	1348	1560
Thermal power	kW	1,0	1,8	1,8	1,8	2,5	2,5
Absorbed Electrical power	kW	0,33	0,4 - 0,6	0,4 - 0,6	0,4 - 0,6	0,6 - 0,8	0,6 - 0,8
Absorbed current	A	1,43	2,00	2,00	2,00	2,96	2,96
Heating element (SOS)	kW	1,5	1,5	1,5	1,5	1,5	2,5
Maximum absorbed power	kW	1,8	2,1	2,1	2,1	2,3	3,3
Electrical Voltage/ Frequency	-	230V - 50Hz					
Protection	A	10	16	16	16	16	16
Compressor type	-	Rotary					
Refrigerant fluid	-/g	R290/140	R134a/600	R134a/600	R134a/600	R134a/800	R134a/800
Service pressure / Test pressure	bar	6 / 9	6 / 9	6 / 9	6 / 9	6 / 9	6 / 9
Hydraulic connectionss	-	1/2" M	3/4" M	3/4" M	3/4" M	3/4" M	1" M
Maximum temperature - Water outlet	°C	65	60	60	60	60	60
Maximum serving temperature	°C	55					
Sound level	dB(A)	45					
Air volume	m³/h	280	350	350	350	350	350
Air pressure	Pa	60	40	40	40	40	40
Insulation	-	Polyurethane	Recycled granulated cork	Recycled granulated cork	Recycled granulated cork	Recycled granulated cork	Recycled granulated cork
Insulation thickness	mm	50	55	55	55	63	63
Wi-Fi Connectivity	-	Yes, with connection on the dedicated app					
Duct diameter	mm	120	150	150	150	150	150
Exterior coating	-	White PVC -coated sheet	Grey PVC-coated sheet				
Tank material							
Stainless steel AISI 444			✔	✔	✔	✔	✔
Duplex Stainless steel 2205		✔					
Enamelled carbon steel				✔	✔		
Copper			✔	✔	✔	✔	✔

* Testing conditions: Air inlet temp. (Dry bulb/Wet bulb) = 14°C/13°C; Water inlet temp. = 10°C; Final water temp. = 56°C
** Testing conditions: Air inlet temp. (Dry bulb/Wet bulb) = 20°C/15°C; Water inlet temp. = 10°C; Final water temp. = 54°C

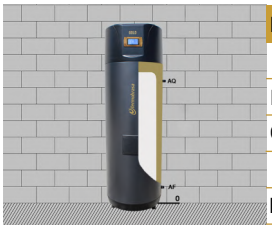
DHW HEAT PUMPS - Dimensions (mm)

Without coil



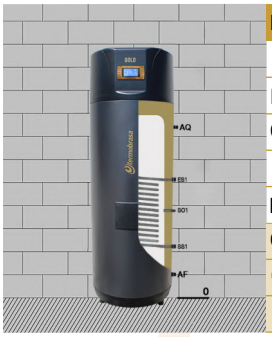
MODEL	GOLD100
Height	1368
Diameter	520
Cold water inlet	Bottom
Hot water outlet	Bottom
Heating element	Bottom

Without coil



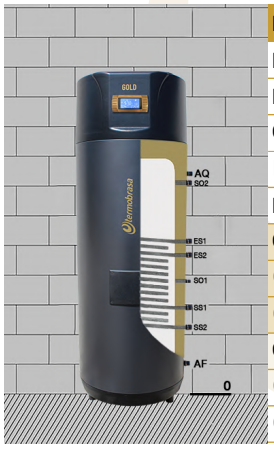
MODEL	GOLD150	GOLD200	GOLD280	GOLD320	GOLD500
Height	1470	1685	2010	1650	2280
Diameter	590	590	590	755	755
Cold water inlet	180	180	180	200	210
Hot water outlet	855	1055	1405	1025	1635
Heating element	575	775	975	795	1005

With 1 coil



MODEL	GOLD150	GOLD200	GOLD280	GOLD320	GOLD500
Height	1470	1685	2010	1650	2280
Diameter	590	590	590	755	755
Cold water inlet	180	180	180	200	210
Hot water outlet	855	1055	1405	1025	1635
Heating element	575	775	975	795	1005
Coil inlet 1	535	735	735	755	765
Coil outlet 1	260	260	260	280	290
Coil probe 1	455	655	655	518	528

With 2 coils



MODEL	GOLD150	GOLD200	GOLD280	GOLD320	GOLD500
Height	1470	1685	2010	1650	2280
Diameter	590	590	590	755	755
Cold water inlet	180	180	180	200	210
Hot water outlet	855	1055	1405	1025	1635
Heating element	655	775	975	795	1005
Coil inlet 1	615	735	735	755	815
Coil outlet 1	340	340	340	360	390
Coil probe 1	455	505	505	525	530
Coil inlet 2	535	655	655	675	710
Coil outlet 2	260	260	260	280	290
Coil probe 2	735	820	1255	835	1435

ELECTRIC WATER HEATERS

ELECTRIC WATER HEATERS

Termobrasa Electric Water Heaters are the ideal solution for water heating in small apartments, locations with high demand for small volumes of hot water (hair salons, small shops or workshops), homes with infrequent use (holiday or weekend homes), or in hotels or sports complexes as a complement to other heating systems (such as heat pumps).

Avantages

- Made in Portugal (Europe)
- Stainless steel or Copper tanks
- High-efficiency thermal insulation
- PVC-coated exterior shielding
- Sacrificial anode for corrosion control (optional)
- Tested at 9 bar pressure
- Thermostat with internal safety
- Model flexibility – vertical/horizontal, wall-mounted/floor-standing
- Single-phase or three-phase
- Standard or custom manufacturing

10L to 75L

100L to 500L

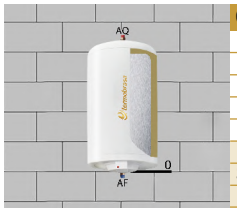
CAPACITY (L)		10	25	50	75	100	150	200	300	400	500
Voltage (V)		230									
Safety valve		Included									
Service pressure (bar)		6									
Test pressure (bar)		9									
Hydraulic connections		3/4" M								1" M	
Insulation		Recycled granulated cork									
Insulation thickness (mm)		30	30	35	35	50	55	55	55	63	63
Max. rec. temperature (°C)		75									
Max. safety temperature (°C)		95									
Thermostat safety		Double									
Exterior coating		White PVC-coated sheet				Grey PVC-coated sheet					
Thermometer and Temperature control		Optional					Included				
Stainless steel	Electrical power	2000	1500	1500	1500	2000	2500	2500	3000	5000	5000
	Heating element	Immersion									
Cuivre	Electrical power	-	1500	1500	1500	2000	2500	2500	2500	5000	5000
	Heating element	-	Ceramic, in sheath								

ELECTRIC WATER HEATERS - Dimensions (mm)

Wall-mounted vertical with inlet and outlet on the same top (VMM)

CAPACITY	10	25	50	75	100	150	200
Height	455	595	650	880	960	1010	1260
Diamètre	300	300	390	390	490	590	590
Cold water inlet	Top	Top	Top	Top	Top	Top	Top
Hot water outlet	Top	Top	Top	Top	Top	Top	Top
Heating element	Top	Top	Top	Top	Top	Top	Top
Support depth	20	20	20	20	20	45	45
Support width	240	240	290	290	290	415	415
Distance between supports	315	430	450	715	715	710	955

Wall-mounted vertical with inlet and outlet on opposite tops (VMO)



CAPACITY	10	25	50	75	100	150	200
Height	455	595	650	880	960	1010	1260
Diamètre	300	300	390	390	490	590	590
Cold water inlet	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom
Hot water outlet	Top	Top	Top	Top	Top	Top	Top
Heating element	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom
Support depth	20	20	20	20	20	45	45
Support width	240	240	290	290	290	415	415
Distance between supports	315	430	450	715	715	710	955

Floor-mounted horizontal with inlet and outlet on the same top (HCM)

CAPACITY	10	25	50	75	100	150	200	300	400	500
Height/Diameter	300	300	390	390	490	590	590	590	755	755
Length	455	595	650	880	960	1010	1260	1560	1480	1780
Cold water inlet	75	75	85	85	100	150	150	150	155	155
Hot water outlet	275	275	350	350	430	510	510	510	705	705
Heating element	165	165	220	220	280	330	330	330	345	345
Support height	20	20	20	20	20	45	45	45	45	45
Support width	240	240	290	290	290	415	415	415	415	415
Distance between supports	315	430	450	715	715	710	955	1245	1195	1495

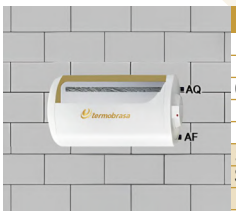
Floor-mounted horizontal with inlet and outlet on opposite tops (HCO)

CAPACITY	10	25	50	75	100	150	200	300	400	500
Height/Diameter	300	300	390	390	490	590	590	590	755	755
Length	455	595	650	880	960	1010	1260	1560	1480	1780
Cold water inlet	75	75	85	85	100	150	150	150	155	155
Hot water outlet	275	275	350	350	430	510	510	510	705	705
Heating element	165	165	220	220	280	330	330	330	345	345
Support height	20	20	20	20	20	45	45	45	45	45
Support width	240	240	290	290	290	415	415	415	415	415
Distance between supports	315	430	450	715	715	710	955	1245	1195	1495

Wall-mounted horizontal with inlet and outlet on opposite tops (HMO)

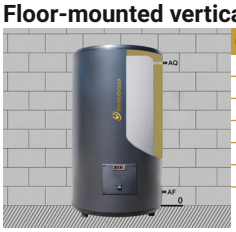
CAPACITY	10	25	50	75	100	150	200
Height/Diameter	300	300	390	390	490	590	590
Length	455	595	650	880	960	1010	1260
Cold water inlet	Top	Top	Top	Top	Top	Top	Top
Hot water outlet	Haut	Top	Top	Top	Top	Top	Top
Heating element	Top	Top	Top	Top	Top	Top	Top
Support height	20	20	20	20	20	45	45
Support width	240	240	290	290	290	415	415
Distance between supports	315	430	450	715	715	710	955

Wall-mounted horizontal with inlet and outlet on the same top (HMM)



CAPACITY	10	25	50	75	100	150	200
Height/Diameter	300	300	390	390	490	590	590
Length	455	595	650	880	960	1010	1260
Cold water inlet	Top	Top	Top	Top	Top	Top	Top
Hot water outlet	Top	Top	Top	Top	Top	Top	Top
Heating element	Top	Top	Top	Top	Top	Top	Top
Support depth	20	20	20	20	20	45	45
Support width	240	240	290	290	290	415	415
Distance between supports	315	430	450	715	715	710	955

Floor-mounted vertical (VC)



CAPACITY	100	150	200	300	400	500
Height	990	1040	1290	1590	1510	1810
Diameter	490	590	590	590	755	755
Cold water inlet	180	180	180	180	210	210
Hot water outlet	Top	Top	Top	1405	Top	Top
Heating element (1)	260	260	260	265	295	295
Heating element (2)	-	-	-	515	545	545

WATER HEATERS WITH COIL

WATER HEATERS WITH COIL

Termobrasa Coiled Water Heaters are the best solution for heating sanitary water using solar panels, heat recovery units, boilers (gas, oil, or pellets), heat pumps or other energy sources.

In addition to the standard versions with 1, 2, or 3 coils, other special models are available:

- Plus Version (200L, 300L and 500L) with high-performance coil (up to 4m² heat exchange area) for connection to a central heating pump.
- Y Version (200L and 300L) with smaller diameter.

75L to 500L

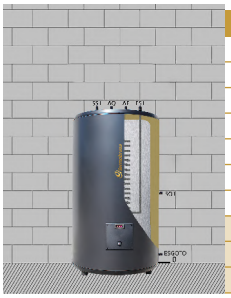
Advantages

- Made in Portugal (Europe)
- Stainless steel or Copper tanks
- High-efficiency thermal insulation
- PVC-coated exterior shielding
- Sacrificial anode for corrosion control (optional)
- Coil heat exchange area adjusted to the capacity of the accumulators
- Tested at 9 bar pressure
- Built-in electric kit
- Thermostat with internal safety
- External temperature regulator (optional)
- Model flexibility – vertical/horizontal, wall-mounted/floor-standing
- Single-phase or three-phase
- Standard or custom manufacturing

	CAPACITY (L)	75	100	150	200	300	400	500
	Voltage (V)	230						
	Safety valve	Optional						
	Service pressure	6						
	Test pressure (bar)	9						
	Hydraulic connections	3/4" M					1" M	
	Insulation	Recycled granulated cork						
	Insulation thickness (mm)	35	50	55	55	55	63	63
	Max. rec. temperature (ºC)	75						
	Max. safety temperature (ºC)	95						
	Thermostat Safety	Double						
	Exterior coating	White PVC-coated sheet	Grey PVC-coated sheet					
	Thermometer	Included						
Stainless steel	Electrical power	1500					2500	
Stainless steel	Heating element	Immersion						
Copper	Electrical power	1500					2500	
Copper	Heating element	Ceramic, in sheath						

WATER HEATERS WITH COIL – Dimensions (mm)

Vertical Floor with 1 High-Performance coil (VC1PLUS)

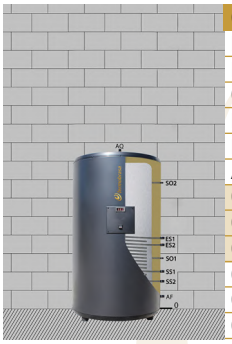


CAPACITY	200	300	500
Height	1290	1590	1810
Diameter	590	590	755
Cold water inlet	Top	Top	Top
Heating element	260	260	305
Hot water outlet	Top	Top	Top
Anode / Controller	1035	1405	1575
Drain	180	180	210
Coil inlet	Top	Top	Top
Coil outlet	Top	Top	Top
Coil sensor	355	580	715

Vertical Floor with 1 coil (Vc1)

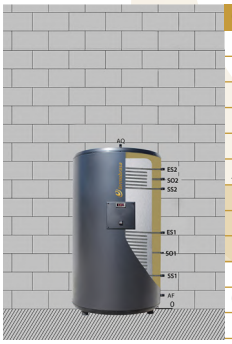
CAPACITY	75	100	150	200	200Y	300	300Y	400	500
Height	910	990	1040	1290	1770	1590	2270	1510	1810
Diameter	390	490	590	590	490	590	490	755	755
Cold water inlet	160	180	180	180	Top	180	Top	210	210
Heating element	620	640	645	815	325	1015	325	975	1175
Hot water outlet	Top	Top	Top	Top	Top	1410	Top	Top	Top
Anode / Controller	775	795	770	1035	1595	1190	1895	1275	1575
Coil Inlet	575	595	600	690	1475	760	1775	815	1045
Coil outlet	235	255	260	260	505	260	505	305	305
Coil sensor	415	435	425	475	990	510	990	605	675

Vertical Floor with 2 joined coils (VC2J)



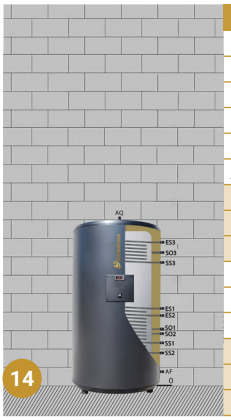
CAPACITY	150	200	300	400	500
Height	1040	1290	1590	1510	1810
Diameter	590	590	590	755	755
Cold water inlet	180	180	180	210	210
Heating element	645	815	1015	975	1175
Hot water outlet	Top	Top	1410	Top	Top
Anode / Controller	830	1035	1255	1275	1575
Coil inlet 1	600	690	760	905	1045
Coil outlet 1	330	340	340	395	395
Coil sensor 1	680	865	1055	1075	1375
Coil inlet 2	525	610	680	815	955
Coil outlet 2	255	260	260	305	305
Coil sensor 2	430	475	510	605	675

Vertical Floor with 2 separated coils (VC2S)



CAPACITY	150	200	300	400	500
Height	1045	1290	1590	1510	1810
Diameter	590	590	590	755	755
Cold water inlet	180	180	180	210	210
Heating element	645	815	1015	975	1175
Hot water outlet	Top	Top	1410	Top	Top
Anode / Controller	860	1100	1360	1275	1625
Coil inlet 1	600	695	760	815	955
Coil outlet 1	255	265	260	305	305
Coil sensor 1	430	475	510	615	675
Coil inlet 2	830	1065	1310	1175	1575
Coil outlet 2	680	865	1075	1025	1235
Coil sensor 2	755	965	1190	1125	1405

Vertical Floor with 3 coils (VC3)



CAPACITY	200	300	400	500
Height	1290	1590	1510	1810
Diameter	590	590	755	755
Cold water inlet	180	180	210	210
Heating element	815	1015	975	1175
Hot water outlet	Top	1410	Top	Top
Anode / Controller	1100	1360	1275	1625
Coil inlet 1	690	760	905	1045
Coil outlet 1	340	340	395	395
Coil sensor 1	530	595	725	865
Coil inlet 2	610	680	815	955
Coil outlet 2	260	260	305	305
Coil sensor 2	420	425	485	405
Coil inlet 3	1065	1310	1175	1575
Coil outlet 3	865	1075	1025	1235
Coil sensor 3	965	1190	1125	1405

WATER HEATERS WITH COIL – Dimensions (mm)

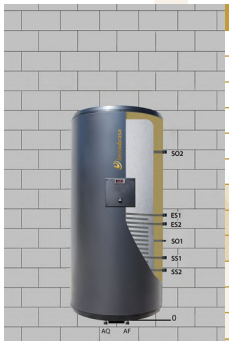
Vertical Wall-Mounted with inlet and outlet on the same side with 1 coil (VMM1)

CAPACITY	75	100	150	200
Height	880	960	1010	1260
Diameter	390	490	590	590
Cold water inlet	Bottom	Bottom	Bottom	Bottom
Heating element	Bottom	Bottom	Bottom	Bottom
Hot water outlet	Bottom	Bottom	Bottom	Bottom
Anode / Controller	735	735	735	985
Coil Inlet	455	535	535	630
Coil outlet	155	185	185	195
Coil sensor	260	365	365	415
Support depth	20	20	45	45
Support width	290	290	415	415
Support length	715	715	550	750

Vertical Wall-Mounted with inlet and outlet on opposite sides with 1 coil (VMO1)

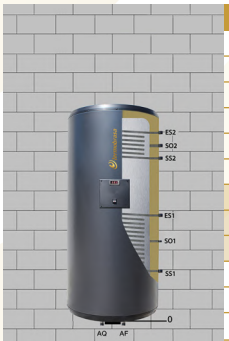
CAPACITY	75	100	150	200
Height	880	960	1010	1260
Diameter	390	490	590	590
Cold water inlet	Bottom	Bottom	Bottom	Bottom
Heating element	Bottom	Bottom	Bottom	Bottom
Hot water outlet	Top	Top	Top	Top
Anode / Controller	735	735	735	985
Coil Inlet	455	535	535	630
Coil outlet	155	185	185	195
Coil sensor	260	365	365	415
Support depth	20	20	45	45
Support width	290	290	415	415
Support length	715	715	550	750

Vertical Wall-Mounted with inlet and outlet on the same side with 2 joined coils (VMM2J)



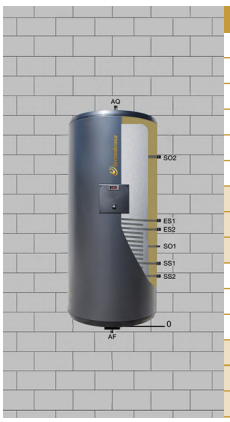
CAPACITY	150	200
Height	1010	1260
Diameter	590	590
Cold water inlet	Bottom	Bottom
Heating element	Bottom	Bottom
Hot water outlet	Bottom	Bottom
Anode / Controller	800	1000
Coil Inlet 1	535	625
Coil outlet 1	265	275
Coil sensor 1	615	840
Coil inlet 2	460	545
Coil outlet 2	190	195
Coil sensor 2	365	410
Support depth	45	45
Support width	415	415
Support length	550	750

Vertical Wall-Mounted with inlet and outlet on the same side with 2 separated coils (VMM2S)



CAPACITY	150	200
Height	1010	1260
Diameter	590	590
Cold water inlet	Bottom	Bottom
Heating element	Bottom	Bottom
Hot water outlet	Bottom	Bottom
Anode / Controller	830	1070
Coil Inlet 1	775	995
Coil outlet 1	615	795
Coil sensor 1	690	895
Coil inlet 2	535	625
Coil outlet 2	190	195
Coil sensor 2	365	405
Support depth	45	45
Support width	415	415
Support length	550	750

Vertical Wall-Mounted with inlet and outlet on opposite sides with 2 joined coils (VMO2J)



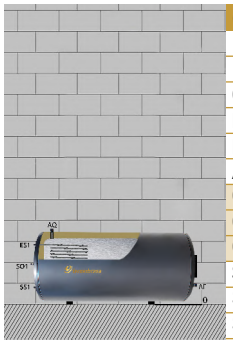
CAPACITY	150	200
Height	1010	1260
Diameter	590	590
Cold water inlet	Bottom	Bottom
Heating element	Bottom	Bottom
Hot water outlet	Top	Top
Anode / Controller	800	1000
Coil Inlet 1	535	625
Coil outlet 1	265	275
Coil sensor 1	615	840
Coil inlet 2	460	545
Coil outlet 2	190	195
Coil sensor 2	365	410
Support depth	45	45
Support width	415	415
Support length	550	750

Vertical Wall-Mounted with inlet and outlet on opposite sides with 2 separated coils (VMO2S)

CAPACITY	150	200
Height	1010	1260
Diameter	590	590
Cold water inlet	Bottom	Bottom
Heating element	Bottom	Bottom
Hot water outlet	Top	Top
Anode / Controller	830	1070
Coil Inlet 1	775	995
Coil outlet 1	615	795
Coil sensor 1	690	895
Coil inlet 2	535	625
Coil outlet 2	190	195
Coil sensor 2	365	405
Support depth	45	45
Support width	415	415
Support length	550	750

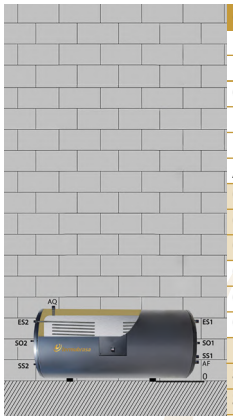
WATER HEATERS WITH COIL – Dimensions (mm)

Horizontal Floor-Mounted with 1 coil (HC1)



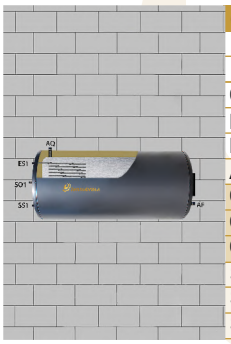
CAPACITY	75	100	150	200	300	400	500
Height / Diameter	390	490	590	590	590	755	755
Length	880	960	1010	1260	1360	1480	1780
Cold water inlet	85	100	150	150	150	155	155
Heating element	215	260	330	330	330	430	430
Hot water outlet	Top	Top	Top	Top	Top	Top	Top
Anode / Controller	Top	Top	Top	Top	Top	Top	Top
Coil Inlet	295	390	460	460	460	610	610
Coil outlet	135	130	200	200	200	250	250
Coil sensor	215	260	330	330	330	430	430
Support height	20	20	45	45	45	45	45
Support width	290	290	415	415	415	415	415
Support length	715	715	710	955	1245	1195	1495

Horizontal Floor-Mounted with 2 coils (HC2)



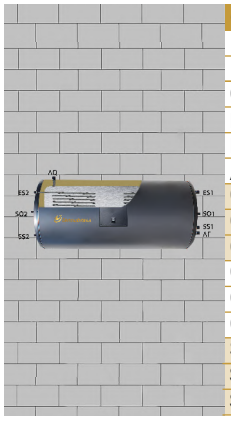
CAPACITY	150	200	300	400	500
Height / Diameter	590	590	590	755	755
Length	1010	1260	1360	1480	1780
Cold water inlet	150	150	150	155	155
Heating element	330	330	330	430	430
Hot water outlet	Top	Top	Top	Top	Top
Anode / Controller	Top	Top	Top	Top	Top
Coil Inlet 1	460	460	460	610	610
Coil outlet 1	200	200	200	250	250
Coil sensor 1	330	330	330	430	430
Coil Inlet 2	460	460	460	610	610
Coil outlet 2	200	200	200	250	250
Coil sensor 2	330	330	330	430	430
Support height	45	45	45	45	45
Support width	415	415	415	415	415
Support length	710	955	1245	1195	1495

Horizontal Wall-Mounted with 1 coil (HM1)



CAPACITY	75	100	150	200
Height / Diameter	390	490	590	590
Length	880	960	1010	1260
Cold water inlet	Side	Side	Side	Side
Heating element	Side	Side	Side	Side
Hot water outlet	Top	Top	Top	Top
Anode / Controller	Top	Top	Top	Top
Coil Inlet	Side	Side	Side	Side
Coil outlet	Side	Side	Side	Side
Coil sensor	Side	Side	Side	Side
Support depth	20	20	45	45
Support width	290	290	415	415
Support length	715	715	710	955

Horizontal Wall-Mounted with 2 coils (HM2)



CAPACITY	150	200
Height / Diameter	590	590
Length	1010	1260
Cold water inlet	Side	Side
Heating element	Side	Side
Hot water outlet	Top	Top
Anode / Controller	Top	Top
Coil Inlet 1	Side	Side
Coil outlet 1	Side	Side
Coil sensor 1	Side	Side
Coil inlet 2	Side	Side
Coil outlet 2	Side	Side
Coil sensor 2	Side	Side
Support depth	45	45
Support width	415	415
Support length	710	955

BUFFER TANKS

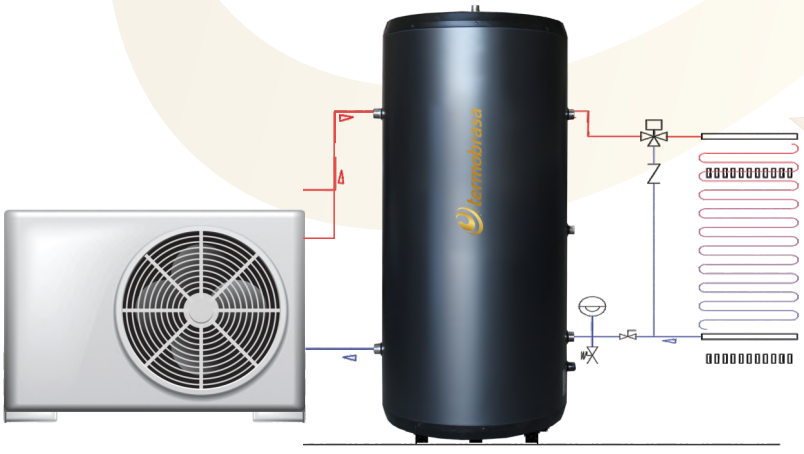
BUFFER TANKS

Termobrasa Buffer Tanks are the ideal solution for storing primary energy produced by various heat sources such as gas, oil, or biomass boilers, heat pumps and heat recovery units.

The tanks can be manufactured in different configurations, allowing simultaneous connection to various energy sources. They can also be supplied with a heating element, providing additional support to the existing systems.

Advantages

- Made in Portugal (Europe)
- Stainless steel or carbon steel tanks
- High-efficiency thermal insulation
- Exterior shielding in PVC-coated sheet metal
- Heating element (optional)
- Thermostat (optional)
- Model flexibility – vertical/horizontal, wall-mounted/floor-mounted
- Standard or custom manufacturing, with flexibility in the number of inputs/outputs



1. Heat source (gas, oil, biomass boiler, heat pump, etc.)

2. Thermal buffer tank

3. Heating/cooling installation (fan coils, underfloor heating, radiators, etc.)

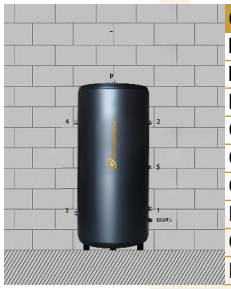
BUFFER TANKS - Technical data and dimensions (mm)

CAPACITY (L)	25	50	75	100	150	200	300	400	500
Max. service pressure (bar)	3								
Test pressure (bar)	9								
Hydraulic connections	3/4" M				3/4" M // 1" M				
Purge/probe connections	1/2" F								
Drain connection	3/4" M							1" M	
Insulation	Recycled granulated cork granulate								
Insulation thickness (mm)	30	35	35	50	55	55	55	63	63
Max. temperature (°C)	85								
Exterior coating	White PVC coated sheet				Gray PVC coated sheet				
Material	Stainless steel AISI 444 or Carbon Steel								

Vertical wall-mounted with 4 outlets (VM-I4)

CAPACITY	25	50	75	100	150	200
Height	595	650	880	960	1010	1260
Diameter	300	390	390	490	590	590
Purge	Top	Top	Top	Top	Top	Top
Outlet 4 (Left)	450	500	735	755	755	965
Outlet 3 (Left)	130	195	180	200	200	215
Outlet 2 (Right)	450	500	735	755	755	965
Probe (Right)	290	345	445	465	465	590
Outlet 1 (Right)	130	245	230	250	250	270
Drain	Bottom	145	130	150	150	150
Support depth	20	20	20	20	45	45
Support width	240	290	290	290	415	415
Support length	430	450	715	715	710	955

Vertical floor-standing with 4 outlets (VC-I4)



CAPACITY	75	100	150	200	300	400	500
Height	910	990	1040	1290	1590	1510	1810
Diameter	390	490	590	590	590	755	755
Purge	Top	Top	Top	Top	Top	Top	Top
Outlet 4 (Left)	765	785	785	995	1345	1275	1575
Outlet 3 (Left)	210	230	230	245	245	275	275
Outlet 2 (Right)	765	785	785	995	1245	1275	1575
Probe (Right)	475	495	495	620	795	775	925
Outlet 1 (Right)	260	280	280	300	300	330	330
Drain	160	180	180	180	180	210	210

POOL HEAT PUMPS

POOL HEAT PUMPS

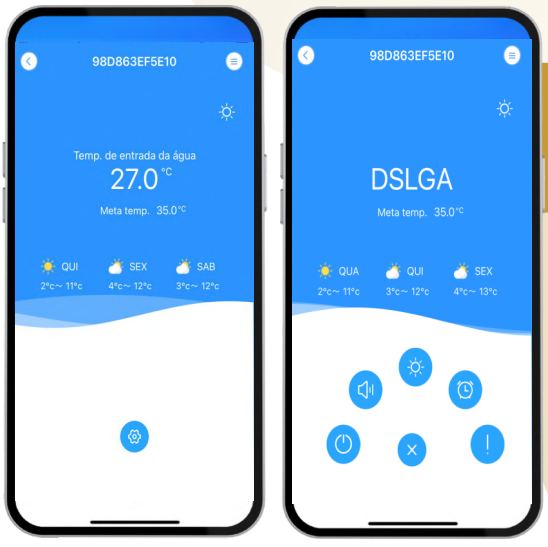
The Termobrasa Titanium Pool Heat Pump is the ideal product for heating your pool, ensuring low energy consumption, easy installation (even in existing pools) and ease of use.

Control can be performed via the touch display or the app, through the included Wi-Fi module.

AVAILABLE MODELS		titanium 11	titanium 18
Recommended pool volume	m³	32~60	55~95
Power supply voltage		220-240V~/1Ph~50Hz	
Number of fans		1	
Noise level	dB(A)	42-53	42-55
Water connection	mm	50	
Water flow	m3/h	5	
Unit dimensions (LxWxH)	mm	1000x418x605	1160x470x862
Exterior coating		ABS	
Refrigerant fluid		R32	
Power absorbed by the fan	W	40	75
Fan speed	RPM	500~850	500~750
Operating air temperature	°C	-2~40	
Performance conditions: Air 27°C / Water 26°C / Humidity 80%			
Heating capacity[1]	kW	1.8~10.9	3.5~18.7
Electric power absorbed	kW	0.16~1.92	0.32~3.65
COP		11.25~5.68	10.94~5.12
Performance conditions: Air 15°C / Water 26°C / Humidity 70%			
Heating capacity[2]	kW	1.2~8.0	2.55~14.0
Electric power absorbed	kW	0.26~1.87	0.47~3.24
COP		4.62~4.28	5.43~4.32

Heating:
[1] Outdoor air temperature: 27°C / 24.3°C, Inlet water temperature: 26°C
[2] Outdoor air temperature: 15°C / 12°C, Inlet water temperature: 26°C

Operational Limits:
Ambient temperature: -7 to 43°C
Water temperature: 9 to 40°C



Wi-Fi Connectivity

All Termobrasa Pool Heat Pumps are equipped with a Wi-Fi module, allowing remote control of the equipment and monitoring of its operational parameters.

Download our app.

Aqua Apk | Aqua IOS | Aqua PS

WARRANTY CONDITIONS

WARRANTY CONDITIONS

Termobrasa requests that the End Customer read the installation instructions beforehand for better use of the product and proper installation.

I - WARRANTY SCOPE AND PERIOD

This warranty covers the repair of defects that are identified as manufacturing defects. Any defect detected in the product must be immediately reported at the place of purchase.

The warranty period for equipment manufactured by Termobrasa is as follows:
• Tanks:
◦ Heat Pumps in stainless steel or copper: 10 years
◦ Heat Pumps in duplex stainless steel or enamelled: 3 years
◦ Electric water heaters (with or without coild), in stainless steel or copper: 5 years
◦ Buffer Tanks: 5 years

• Electrical, electronic components, and thermodynamic blocks:
◦ 3 years, with the provision that, according to Portuguese Law DL 84/2021 of October 18, in the last year of the warranty, it is up to the customer to prove that the non-conformity existed in the first 2 years.

II - WARRANTY VOIDANCE

The warranty mentioned above will become invalid when:

1. The water quality (whether from the network, well, spring or borehole) does not meet the following values:

• Chemical Parameters:
◦ Total hardness (min - max): 60 - 300 mg/L of CaCO3. Excessive hardness can lead to scale formation, which can create corrosion points.
◦ pH (min – max): 6.5 – 8.5. Values outside this range may accelerate corrosion.
◦ Electrical conductivity (min – max): 130 – 500 µS/cm. High conductivity indicates a higher concentration of dissolved ions, which can increase the risk of corrosion.
◦ Chlorides (Cl-): maximum concentration of 250 mg/L. High chloride levels can cause pitting corrosion.
◦ Sulphates (SO4^2-): maximum concentration of 250 mg/L. Like chlorides, excessive sulphates can be corrosive.
◦ Silica (SiO2): maximum concentration of 50 mg/L. Excess silica contributes to scaling.
◦ Dissolved Oxygen (O2): preferably below 8 mg/L. High oxygen levels can accelerate corrosion under certain conditions.
• Microbiological Parameters:
◦ Sulphate-reducing bacteria (SRB): their presence must be minimal or absent, as they produce hydrogen sulphide, which is highly corrosive to stainless steel.
◦ Iron bacteria: their presence must be minimal or absent, as they contribute to pitting corrosion.
◦ Suspended solids: the water must be free of suspended solids that could cause abrasion or accumulate at the bottom of the tank, creating conditions for corrosion.

2. Failure to comply with the instructions in the installation manual that accompanies the equipment, including:
• Regular water testing to ensure compliance with the recommended parameters, especially when the water is not from the public network;
• Periodic cleaning of the tank;
• Correct installation of the appropriate safety valve;
• Installation of a drainage tray at the bottom of the equipment;
• For equipment with a capacity exceeding 100L, the installation of an expansion vase with a volume approximately 10% of the equipment's volume, with a pressure 1.5 bar above the input pressure of the network (which should be measured beforehand).

3. The defect is caused by an accident or improper use by the consumer;

4. The equipment is connected to a voltage different from the one it was designed for;

5. The equipment undergoes alterations, modifications or repairs carried out by unauthorized persons or entities;

6. The defect is caused by natural disasters (lightning, earthquakes, hurricanes, floods, etc.) or other external causes, such as fires, theft, or vandalism. In these cases, it is the customer's responsibility to purchase insurance that covers these situations.

7. Damage resulting from accidents during transportation and/or handling not performed by Termobrasa;

8. If improper packaging is used when sending the equipment for repair.

III - WARRANTY EXCLUSIONS

The warranty provided by Termobrasa does not cover:

1. Travel and/or shipping expenses for equipment repair;

2. Costs related to uninstallation and/or reinstallation of the equipment;

3. Repair of third party equipments or other external installations, not supplied by Termobrasa.

Rua das Agras, 588
4430-759 AVINTES - PORTUGAL
Tlf.: (+351) 227 824 303
geral@termobrasa.com
www.termobrasa.com

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