



climacube™ POLAR

Drives heat up and energy cost down

REVOLUTIONARY
ENERGY SAVING
WATER HEATING SYSTEMS

SPAS | HOT TUBS | SWIMSPAS | SWIMMING POOLS



ENERGY SAVING TECHNOLOGY

Climacube design, develop and produce ground breaking, energy efficient Hot Tub, Spa, Swimspa and Swimming Pool Water Heating Systems. Utilising patented thermodynamic technology that dramatically reduces the power consumption required to heat or maintain heat over conventional heating systems. Saving up to 60% time on heat up and up to 80% less power. Saving customers time, energy and money, while significantly reducing their carbon footprint.

With hundreds of installations across the UK, our landmark Climacube products have been recognised by the industry, winning the converted UK Pool & Spa Awards 'Spa Product of the Year 2019' and 'Energy Efficient Product of the Year 2019'. Providing a ringing endorsement of our revolutionary Climacube water heating technology and its money saving benefits.

RELIABLE THERMODYNAMIC WATER HEATING SOLUTIONS

The Climacube range has undergone rigorous evaluation throughout the design and production process at our purpose built factory-testing facility. Which can accurately produce a working environment temperature range of 40 degrees to -25 degrees if required. By replicating accurate working conditions ensures our brands are market leaders. Solving any performance or reliability issues for our customers on test rather than in situ and allows Climacube to guarantee quality with our industry leading warranties.

We believe it is this attention to detail, investment in the highest quality testing facility and production control procedures, ensures our groundbreaking and innovative products are of the utmost quality and reliability.

REDUCES YOUR CARBON FOOTPRINT

By dramatically reducing the energy required to heat your Hot Tub, Spa, Swimspa or Swimming Pool will result in much lower power usage on heat up and continuous use, dramatically reducing the impact on the environment. The Climacube has full CE European Accreditation and A+ EPC Certification



SAVE ENERGY TIME AND MONEY

NEW, FAST, EFFICIENT, ENERGY SAVING, HOT TUB, SPA & SWIMSPA
WATER HEAT TECHNOLOGY FOR COLD CLIMATES



CLIMACUBE POLAR

As the name implies the revolutionary, energy efficient, Climacube Polar Spa, Swimspa and Hot Tub Water Heating System has all the energy saving credentials of our award winning Climacube Water Heating System but is designed to operate even when the ambient air temperature reaches -20 degrees Celsius.

When temperatures fall below -5, -10 degrees or even less in some Scandinavian countries there is still plenty of appetite for customers to use their Spas, Swimspas and Hot Tubs for rest and relaxation. The introduction of the Climacube Polar will now further their enjoyment, with users safe in the knowledge that our unique thermodynamic technology will heat water quicker, and use over 80% less energy to maintain water heat in their Spas, Swimspas and Hot Tubs than any conventional system, even when the outside temperature reaches -20 degrees below zero. Saving time, energy and reducing their carbon footprint” their carbon footprint”



ENERGY SAVING
TECHNOLOGY



SAVES ENERGY, TIME AND
MONEY



REDUCES YOUR CARBON
FOOTPRINT



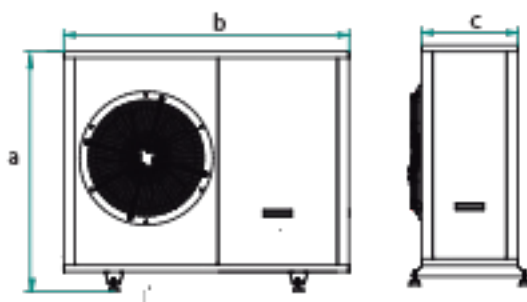
NEW AND RETRO FIT
INSTALLATION OPTIONS



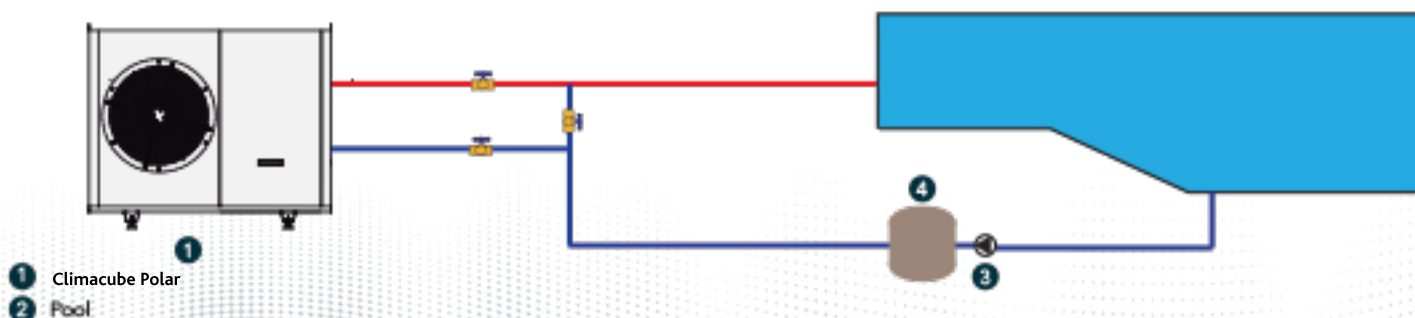
Technical data and Dimensions

Model	GSP10CW
Heating capacity, kW (1)	4,82
Absorber power, kW (1)	2,78
COP (1)	1,74
Heating capacity, kW (2)	10,36
Absorber power, kW (2)	2,79
COP (2)	3,72
Heating capacity, kW (3)	13,99
Absorber power, kW (3)	2,65
COP (3)	5,12
Minimum working temperature, °C	-20
Maximum water temperature, °C	40
Power supply	380-400V/3ph/50Hz
Absorbed intensity, A	5
Dimensions (A x B x C), mm	1092 x 1460 x 440

(1) Air temp. -20°C / water temp. 35°C
 (2) Air temp. 7°C / Water temp. 35°C
 (3) Air temp. 15°C / Water temp. 35°C



Schematic diagram





CLIMACUBE POLAR

PERFORMANCE DATA FOR -20 DEGREES

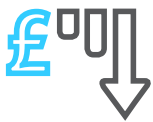
Climacube Polar operating with a ambient temperature of -20 Degrees Celsius, input Kw 2.78, output Kw 4.82. Heating the Hot Tub water to a maximum of 38 degrees and the Swimsa water to a maximum of 30 degrees

		POLAR		MINUS 20		3 KW ELEMENT					
		INPUT 2.78 Kw		OUTPUT 4.82 Kw		INPUPT 3 Kw		OUTPUT 3 Kw			
		X 0.14P= 0.39P				x0.14P= 0.42P					
HOT TUBS	Ltrs	Kw reqd	HEAT UP TIME	CLIMACUBE COST	HEAT TIME	3 Kw	TIME SAVING	%	COST SAVING	%	HEATING
	1000	36	7.5 hrs	@0.39 £2.92	12 Hrs	x.42p=0.42p	4.5	37%	£2.12	42%	MAX 38 deg
	1500	55	11.5	£4.48	18.3	7.69	6.8	37	3.21	42	"
	2000	73	15	£5.85	24.3	10.20	9.3	37	4.35	42	"
	3000	109	22.6	£8.81	36.3	15.25	13.7	38	6.44	42	"
4000	145	30	£11.70	48.3	20.28	18.3	38	8.58	42	"	
SWIM SPA	5000	135	28 hrs	£10.92	45 Hrs	18.90	17 Hrs	38%	£7.98	57%	MAX 30 deg
	5500	148	30	11.70	49.3	20.70	19.3	38	9.00	57	"
	6000	162	33.6	13.10	54	22.68	20.4	38	9.58	57	"
	6500	175	36.3	14.15	58.3	24.49	22	38	8.34	57	"
	7000	189	39.2	15.29	63	26.46	23.8	38	11.17	57	"
	7500	202	41.9	16.31	67.3	28.27	25.4	38	11.96	57	"
	8000	216	44.8	17.47	72	30.24	27.2	38	12.77	57	"
	8500	229	47.5	18.53	76.3	32.05	28.8	38	13.52	57	"
	9000	243	50.4	19.66	81	34.02	30.6	38	14.36	57	"
	9500	256	53.1	20.71	85.3	35.83	32.2	38	15.12	57	"
	10000	270	56	21.84	90	37.80	34	38	15.96	57	"
10500	283	58.7	22.89	94.3	39.61	35.6	38	16.72	57	"	

		POLAR		PLUS 7		3 Kw ELEMENT					
		INPUT 2.79 Kw		OUTPUT 10.36 Kw		INPUPT 3 Kw		OUTPUT 3 Kw			
		X 0.14P= 0.39P				x0.14P= 0.42P					
HOT TUBS	Ltrs	Kw reqd	HEAT UP TIME	CLIMACUBE COST	HEAT TIME	3 Kw	TIME SAVING	%	COST SAVING	%	HEATING
	1000	36	3.5 hrs	@0.39 £1.36	12 Hrs	x.42p=5.04	8.5 hrs	71%	£3.68	72%	MAX 38 deg
	1500	55	5.3	£2.07	18.3	7.69	13	71	5.62	72	"
	2000	73	7	£2.73	24.3	10.20	17.3	71	7.47	72	"
	3000	109	10.5	£4.09	36.3	15.25	25.8	71	11.16	72	"
4000	145	14	£5.46	48.3	20.28	34.3	71	14.74	72	"	
SWIM SPA	5000	135	13 hrs	£5.07	45 Hrs	18.90	32 Hrs	71%	£13.83	73%	MAX 30 deg
	5500	148	14.4	5.61	49.3	20.70	34.9	71	15.09	73	"
	6000	162	15.6	6.08	54	22.68	38.4	71	16.60	73	"
	6500	175	16.9	6.59	58.3	24.49	41.4	71	17.90	73	"
	7000	189	18	7.02	63	26.46	45	71	19.44	73	"
	7500	202	19.5	7.60	67.3	28.27	47.8	71	20.67	73	"
	8000	216	21	7.56	72	30.24	51	71	22.68	73	"
	8500	229	22	8.58	76.3	32.05	54.3	71	23.47	73	"
	9000	243	23.5	9.15	81	34.02	57.5	71	24.87	73	"
	9500	256	24.7	9.63	85.3	35.83	60.5	71	26.20	73	"
	10000	270	26	10.14	90	37.80	64	71	27.66	73	"
10500	283	27	10.53	94.3	39.61	67.3	71	29.08	73	"	



		POLAR	PLUS 15	3 Kw ELEMENT							
		INPUT 2.65 Kw	OUTPUT 10.36 Kw	INPUT 3 Kw	OUTPUT 3 Kw						
		X 0.14P= 0.37P		x0.14P= 0.42P							
HOT TUBS	Ltrs	Kw reqd	HEAT UP TIME	CLIMACUBE COST	HEAT TIME	3 Kw COST	TIME SAVING	%	COST SAVING	%	HEATING
	1000	36	2.57 hrs	£0.95	12 Hrs	x.42p=5.04	9.43 hrs	79%	£4.09	80%	MAX 38 deg
	1500	55	3.9	£1.44	18.3	7.69	14.4	79	6.25	80	"
	2000	73	5.2	£1.92	24.3	10.20	19.1	79	8.28	80	"
	3000	109	7.8	£3.04	36.3	15.25	28.5	79	12.21	80	"
4000	145	10.4	£4.06	48.3	20.28	37.9	79	16.22	80	"	
SWIM SPA	5000	135	9.6 hrs	£3.55	45 Hrs	18.90	35.4 Hrs	80%	£15.35	80%	MAX 30 deg
	5500	148	10.6	3.92	49.3	20.70	38.7	80	16.78	80	"
	6000	162	11.6	4.29	54	22.68	42.4	79	18.39	80	"
	6500	175	12.5	4.62	58.3	24.49	45.8	79	19.87	80	"
	7000	189	13.5	4.99	63	26.46	49.5	79	21.47	80	"
	7500	202	14.4	5.33	67.3	28.27	52.9	79	22.94	80	"
	8000	216	15.4	5.70	72	30.24	56.6	79	24.54	80	"
	8500	229	16.4	6.07	76.3	32.05	59.9	79	25.98	80	"
	9000	243	17.4	6.44	81	34.02	63.6	79	27.58	80	"
	9500	256	18.3	6.77	85.3	35.83	67	79	29.06	80	"
	10000	270	19.3	7.14	90	37.80	70.7	79	30.66	80	"
10500	283	20	7.40	94.3	39.61	74.3	79	32.21	80	"	



PERFORMANCE

Climacube uses award winning, energy saving, worldwide patented thermodynamic technology. Designed to deliver fast heat up, lower running cost and reduced carbon footprint.



EASY INSTALLATION

Climacube can be installed from new or retro fitted to the Hot Tub, Spa, Swimspa or Pool, as a complete water heat solution, alternatively working in conjunction with the existing equipment.



SUPPLY & SERVICE

Fully tested and CE approved the Climacube Water Heating Systems include Europe wide products and parts warranty plus 12 month back to bench warranty for peace of mind.