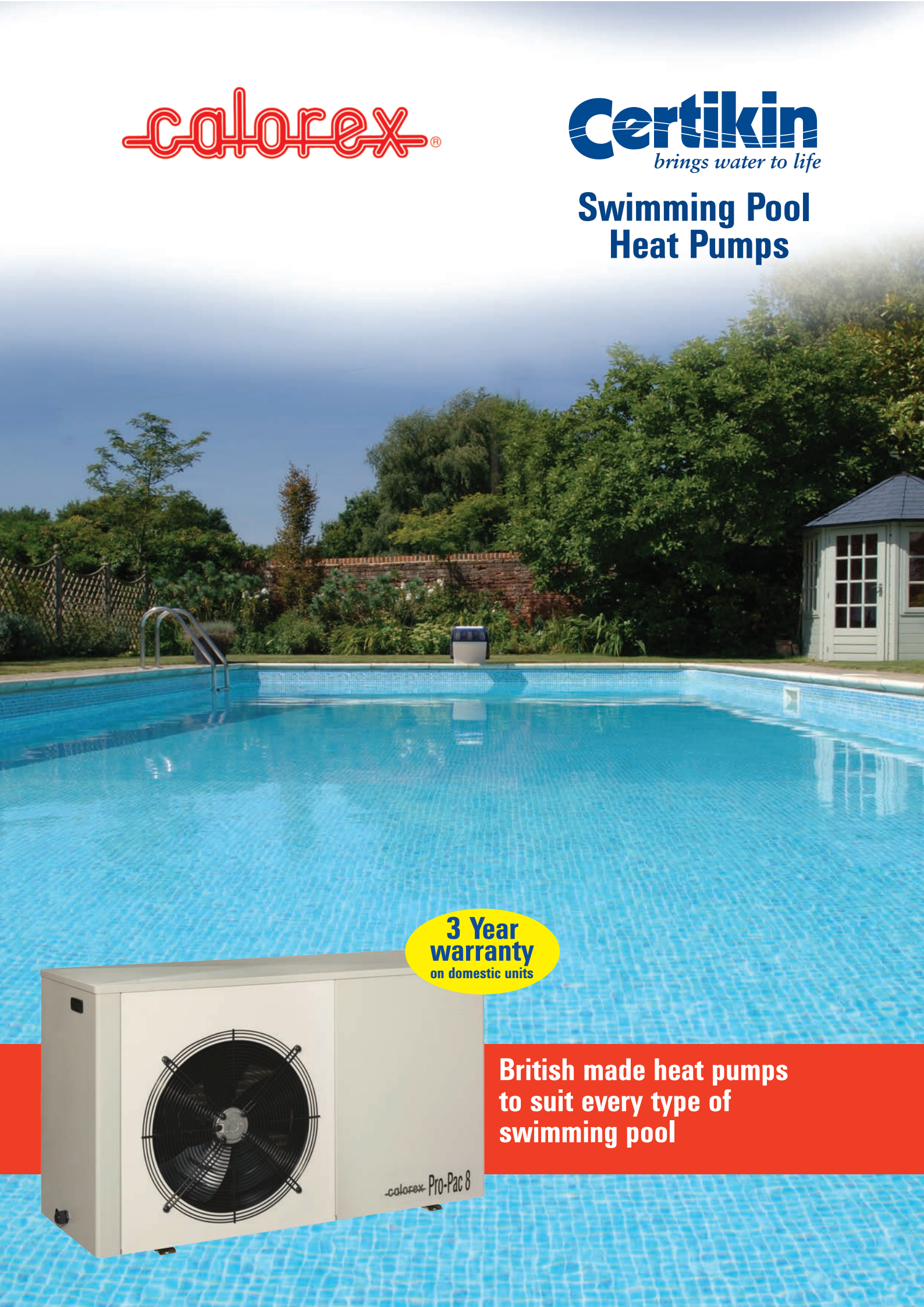
calorex®

Certikin
brings water to life

Swimming Pool Heat Pumps



3 Year warranty
on domestic units

British made heat pumps to suit every type of swimming pool

'Air On' View

'Air Off' View

OUTDOOR HEAT PUMPS

Our Climate is changing!

With ambient air temperatures becoming more and more erratic, the challenge is to provide a reliable and economic solution to swimming pool heating, whatever the weather, without costing the earth. Certikin can help. Our "green" range of highly efficient Calorex heat pumps are designed to heat UK pools to Mediterranean temperatures with minimal impact on the environment. Designed, engineered and built in the UK, our world beating products are exported across the planet. From Russia to Saudi Arabia, you will find Calorex heating pools, tackling global warming and working to reduce our carbon foot print. Using "state of the art" green technology, Calorex heat pumps are heating pools for a fraction of the cost of gas, oil and direct electric heaters, but without the carbon footprint.

Our Propac Y range will provide reliable heat for your pool, even in the harshest winter conditions.

Summer season Propac X models will operate when there is a ground frost and easily sail through the cold snaps that are now common in the UK summer.

It is no wonder that Calorex is first choice for all leading UK pool builders.

Why A Heat Pump?

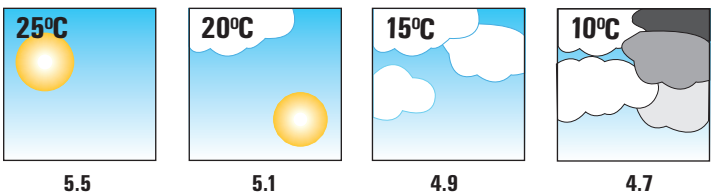
The heat pump is now recognised as the most environmentally friendly method of heating and considering the advantages below it is easy to see why.

- Approximately 400% operating cost and carbon saving against direct electric heaters
- Up to 34% operating cost saving against fossil fuel boilers
- Up to 50% carbon saving against fossil fuel boilers

Product Features

- Titanium heat exchangers
- Fully automatic
- Digital controls
- Quiet in operation
- Requires very little regular maintenance
- No fumes
- Kind to the environment
- Economical to run
- Can heat public or private pools to 35°C
- Easy to retrofit to existing swimming pool systems

Heat pumps simply use the free and natural energy in the air and transfer it efficiently to pool water heating whilst respecting the environment. By careful design a Calorex heat pump is capable of providing your pool with up to five units of absorbed heat for every one unit paid for.



Water temperature at 26°C
Total heat to pool divided by energy consumed = Co-efficient of Performance (COP)

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Swimming Pool Heat Pumps

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Outdoor Heat Pumps

TECHNICAL SPECIFICATIONS

3 Year warranty parts & labour on site

Input & output of Summer Season models at 20°C Ambient

			Output kW	Power Consumed kW	Supply Capacity (amps)	Supply Fuse (amps)	Pool water flow rate (l/m)	Noise level at 3m (dBA)	Width	Depth	Height	Unpacked Weight
SUMMER SEASON	PPT8ALX	1 PHASE	9.2	2	14	20	75	49	1264	594	725	91
	PPT12ALX		12.5	2.5	17	25	75	50	1264	594	725	96
	PPT16ALX		15.6	2.8	21	30	125	52	1264	600	725	112
	PPT22ALX		22.4	4.3	31	42	167	55	1264	600	904	122
	PPT12BLX	3 PHASE	12.5	2.5	6.4	10	75	50	1264	594	725	96
	PPT16BLX		15.6	2.8	8	15	125	52	1264	600	725	112
	PPT22BLX		22.4	4.3	13	20	167	55	1264	600	904	122

The **Pro-Pac 'X' Range** comes complete with an advanced hot gas defrost facility specifically designed for the UK's changing climate. They can be placed discreetly in the pool area or sited in a plant room. They are quiet, ecologically friendly and economic to run. They come with titanium heat exchangers which are compatible with all types of water treatment. These models are elegant and simple to use. Just set the digital thermostat to ensure fully automatic operation throughout the summer season.

3 Year warranty parts & labour on site

Input & output of Extended Season models at 10°C Ambient

EXTENDED SEASON	PPT8ALYN	1 PHASE	7.2	1.8	14	20	115	49	1264	594	725	91
	PPT12ALYN		9.9	2.3	17	25	115	50	1264	594	725	96
	PPT16ALYN		12.4	2.6	21	30	123	52	1264	600	725	112
	PPT22ALYN		17.7	4.1	31	42	123	55	1264	600	904	122
	PPT12BLYN	3 PHASE	9.9	2.3	6.4	10	115	50	1264	594	725	96
	PPT16BLYN		12.4	2.6	8	15	123	52	1264	600	725	112
	PPT22BLYN		17.7	4.1	13	20	123	55	1264	600	904	122

The **Pro-Pac 'Y' Range** are purpose designed for swimming pool heating and can be installed outside or in a plant room. They are highly efficient with a wound tube in tube Titanium condenser and come with a rotary or scroll compressor and water flow switch. They can be fitted with a soft start should the installation require and are produced in 8kW to 22kW sizes, in both single and three phase models.

1 Year warranty parts & labour on site

Commercial Pro-Pac Range - Input & output of Summer Season models at 20°C Ambient

SUMMER SEASON	PPT30BM	3 PHASE	32	7.8	20	30	123	62	1555	790	1080	219
	PPT45BM		40	9.75	25	35	123	64	1665	1060	1310	329
	PPT70BM		62	14.4	42	50	123	68	1810	1190	1310	549
	PPT90BM		80	19.5	50	70	246	73	2065	1190	1330	599
	PPT140BM		124	29	67	100	246	71	2210	1650	1340	858

The **Pro-Pac Commercial Range** are specifically designed to satisfy the needs of larger pools or those with a high level of activity, such as the leisure industry. Strong and reliable, the Pro-Pac Commercial Range includes five models up to 120kW output and are available in summer and reverse cycle all year round models. Pro-Pac units are quiet and easy to use and come with titanium heat exchangers, a flow switch, digital thermostat and vertical ventilation as standard.

1 Year warranty parts & labour on site

Commercial Pro-Pac Range - Input & output of Extended Season models at 10°C Ambient

EXTENDED SEASON	PPT30BMY	3 PHASE	25.5	7.3	20	30	123	62	1555	790	1080	219
	PPT45BMY		32	8	25	35	123	64	1665	1060	1310	329
	PPT70BMY		50	12.5	42	50	123	68	1810	1190	1310	549
	PPT90BMY		64	16	50	70	246	73	2065	1190	1330	599
	PPT140BMY		100	25	67	100	246	71	2210	1650	1340	858

OUTDOOR HEAT PUMPS SIZING CHARTS

For Domestic Pools

Note: The sizing graphs shown on this page assume the following UK conditions:

* The entire pool is constructed in-ground
* Ground water level is below pool construction.
* Floating heat retention cover is used 20 hrs per day.
* Average depth of water @1.3metres.

Pool surface area refers to the total water area (eg inclusive of Roman ends / protruding steps / deck-level drains).

For sizing of equipment outside of these design parameters please consult the technical design team.

Conversion Factor
To convert from sq. ft to sq.m multiply by 0.0929.

To convert from sq.m to sq.ft divide by 0.0929.

Roman End surface areas:
6' = 1.31 sq.m
8' = 2.33 sq.m
10' = 3.65 sq.m
12' = 5.25 sq.m