

OUTDOOR HEAT PUMPS

The Challenge: To provide a solution to pool water heating which is reliable and economical, regardless of ambient air temperature and location.

The Certikin range of Calorex heat pumps are specifically designed for swimming pool heating. Heat pumps are recognized as the most sustainable way to economically heat swimming pool water and with a Calorex heat pump you will save on operating costs and reduce your carbon footprint. Calorex Pro-Pac heat pumps are available for both outdoor pool usage, or for indoor pools to enhance the enjoyment of your pool.

Why Calorex

Calorex are pioneers in the development of heat pumps and have proven performance and reliability for over 30 years. The products are specifically designed for use in swimming pools using the most modern technology and Calorex is approved under ISO 9001 version 2000.

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.

- Up to 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

'Air Off' View

- 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.

'Air On' View



25°C 20°C 15°C 10°C 5 5 5 7

Free unit of heat from the air

Total units of heat to pool

Total heat to pool divided by energy consumed = Co-efficient of Performance (COP)





TECHNICAL SPECIFICATIONS

Input & output of Summer Season models at 20°C			Output kW	Power Consumed kW	Supply Capacity (amps)	Supply Fuse (amps)	Pool water flow rate (I/m)	Pressure drop (m head)	Noise level at 3m (dBA)	Width	Depth	Height	Unpacked Weight
	AW629AM		9.2	2	14	20	115	1.1	50	1050	580	790	97
	AW829AM		12.5	2.5	17	25	115	1.1	51	1230	580	790	108
	PPT8AL	1 PHASE	9.2	2	14	20	115	2.5	49	1049	593	720	93
Š	PPT12AL	1 1 1	12.5	2.5	17	25	115	2.5	50	1227	593	720	104
SEASON	PPT16AL		15.6	2.8	21	30	123	3.5	52	1377	602	720	132
	PPT22AL		22.4	4.3	31	42	123	3.5	55	1377	602	720	133
Ē	PPT12BL		12.5	2.5	6.4	10	115	2.5	50	1227	593	720	104
SUMMER	PPT16BL		15.6	2.8	8	15	123	3.5	52	1377	593	720	132
	PPT22BL	3 PHASE	22.4	4.3	13	20	123	3.5	55	1377	593	720	133
	AW3020B		37	9.1	25	35	66	4.5	69	1700	1090	1212	393
	AW7020B		56	13.4	40	50	130	3.9	68	1950	1340	1212	569



The 29 Range consists of two single phase models. Their compact form is aesthetically pleasing and 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 will 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.

Input & output of Extended Season models at 10°C

	PPT8ALY	3 PHASE 1 PHASE	7.2	1.8	14	20	115	2.5	49	1049	593	720	102
	PPT12ALY		9.9	2.3	17	25	115	2.5	50	1227	593	720	111
SEASON	PPT16ALY		12.4	2.6	21	30	123	3.5	52	1377	602	720	141
SEA	PPT22ALY		17.7	4.1	31	42	123	3.5	55	1377	602	720	142
	PPT12BLY		9.9	2.3	6.4	10	115	2.5	50	1227	593	720	111
EXTENDED	PPT16BLY		12.4	2.6	8	15	123	3.5	52	1377	593	720	141
×	PPT22BLY		17.7	4.1	13	20	123	3.5	55	1377	593	720	142
	AW3020BY		26	8.6	25	35	66	4.5	69	1700	1090	1212	399
	AW7020BY		44	12	40	50	130	3.9	68	1950	1340	1212	584



The Pro-Pac 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 have a remote thermostat control option and 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.





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

8	PPT30BM		32	7.8	20	30	123	4.2	62	1555	790	1080	219
EAS	PPT45BM	щ	40	9.75	25	35	123	12	64	1665	1060	1310	329
ER S	PPT70BM	PHASE	62	14.4	42	50	123	14	68	1810	1190	1310	549
SUMMER SEASON	PPT90BM	ر م	80	19.5	50	70	246	12	73	2065	1190	1330	599
Sul	PPT140BM		124	29	67	100	246	14	71	2210	1650	1340	858

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

											ALLEN		
S	PPT30BMY		25.5	7.3	20	30	123	4.2	62	1555	790	1080	219
ED SEASON	PPT45BMY	щ	32	8	25	35	123	12	64	1665	1060	1310	329
	PPT70BMY	PHASE	50	12.5	42	50	123	14	68	1810	1190	1310	549
ENDED	PPT90BMY	~	64	16	50	70	246	12	73	2065	1190	1330	599
X	PPT140BMY		100	25	67	100	246	14	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.



OUTDOOR HEAT PUMPS SIZING CHARTS

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.

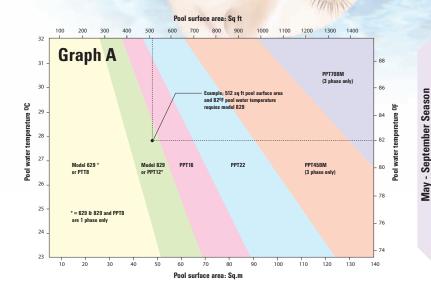
Roman End surface areas:

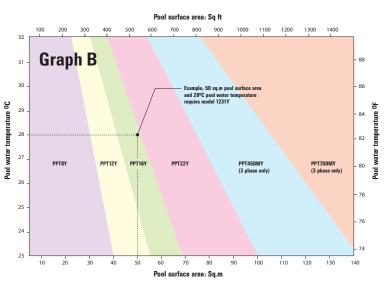
6' = 1.31 sq.m

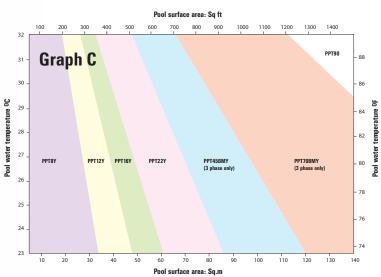
8' = 2.33 sq.m

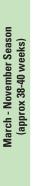
10' = 3.65 sq.m

12' = 5.25 sq.m









April - October Season (approx 30-32 weeks)

(approx 22-24 weeks)



ISO 9001 Registered



