



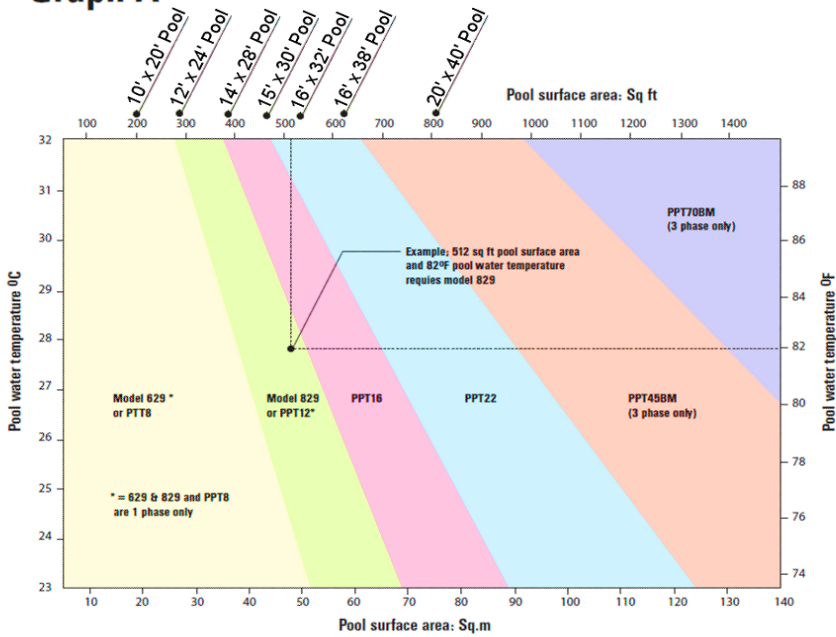
## In Ground Pool Heater Sizing Guide

This document is designed to give you the best advice before you decide to purchase an In ground swimming pool heater for a normal May – September Season.

Heater Type	10' x 20'	12' x 24'	14' x 28'	15' x 30'	16' x 32'	16' x 38'	20' x 40'
Pool Surface Area ft <sup>2</sup>	200 ft <sup>2</sup>	288 ft <sup>2</sup>	392 ft <sup>2</sup>	450 ft <sup>2</sup>	512 ft <sup>2</sup>	608 ft <sup>2</sup>	800 ft <sup>2</sup>
Pool Surface Area m <sup>2</sup>	18.6 m <sup>2</sup>	26.8 m <sup>2</sup>	36.4m <sup>2</sup>	41.8 m <sup>2</sup>	47.6 m <sup>2</sup>	56.5 m <sup>2</sup>	74.3 m <sup>2</sup>
Pool Volume Gallons	5,000	7,200	11,000	12,650	16,000	19,000	25,000
Pool Volume Litres	22,720	32,720	50,000	57,500	72,720	86,360	113,600
Relax IGP Solar System	RIGPS-2	RIGPS-2	RIGPS-3	RIGPS-4	RIGPS-4	RIGPS-6	RIGPS-8
X-Flow IG Solar System	XFL-S1	XFL-S2	XFL-S2	XFL-S2	XFL-S2	XFL-S3	XFL-S4
Solar Pods	X6	X8	X12	X14	X20	X24	X28
Electro Heater	15kw	24kw	30kw	36kw	45kw	54kw	60kw
Thermalec Heater	15kw	24kw	30kw	36kw	48kw	60kw	60kw
Air Heat Pro Heat Pump	T12 – 12kw	T17 – 17kw	T21 – 21kw	T21 – 21kw	T21 – 21kw	T21 – 21kw	-
Hayward Heat Pump	ELE 11kw	ELE 15kw	-	-	-	-	-
Calorex 29 Heat Pump	AW629AM	AW629AM	AW829AM	AW829AM	-	-	-
Calorex Pro-Pac	Pro-Pac 8	Pro-Pac 8	Pro-Pac 12	Pro-Pac 12	Pro-Pac 16	Pro-Pac 22	-
Certikin Oil Boiler	110k BTU	110k BTU	180k BTU	180k BTU	180k BTU	220k BTU	220k BTU
Certikin MB Gas Boiler	MB055	MB105	MB155	MB155	MB185	MB265	MB265
Jandy Lite Gas Boiler	125k BTU	125k BTU	175k BTU	175k BTU	175k BTU	250k BTU	250k BTU
Genie Gas Boiler	MB35S	MB35S	MB50S	MB50S	MB50S	MB50S	2 x MB35S
Heat Exchanger	60k BTU	100k BTU	130k BTU	130k BTU	170k BTU	230k BTU	230k BTU
Filter Pump Size	1/2 hp	1/2 hp	3/4 hp	3/4 hp	1 hp	1 1/2 hp	2 hp
Sand Filter Size	16 Inch Dia	18 Inch Dia	24 Inch Dia	24 Inch Dia	24 Inch Dia	30 Inch Dia	36 Inch Dia

**Please note all the above information is meant as a guide only, if you have specific questions regarding your pools needs, please email us for a bespoke heating quotation. Most Pool heaters & pool cleaners require minimum water flow through the system to operate, please ensure you have a pump & filtration system capable of running your chosen heater. If in any doubt please email us for assistance. [info@ukpoolstore.co.uk](mailto:info@ukpoolstore.co.uk)**

### Graph A



May - September Season  
 (approx 22-24 weeks)

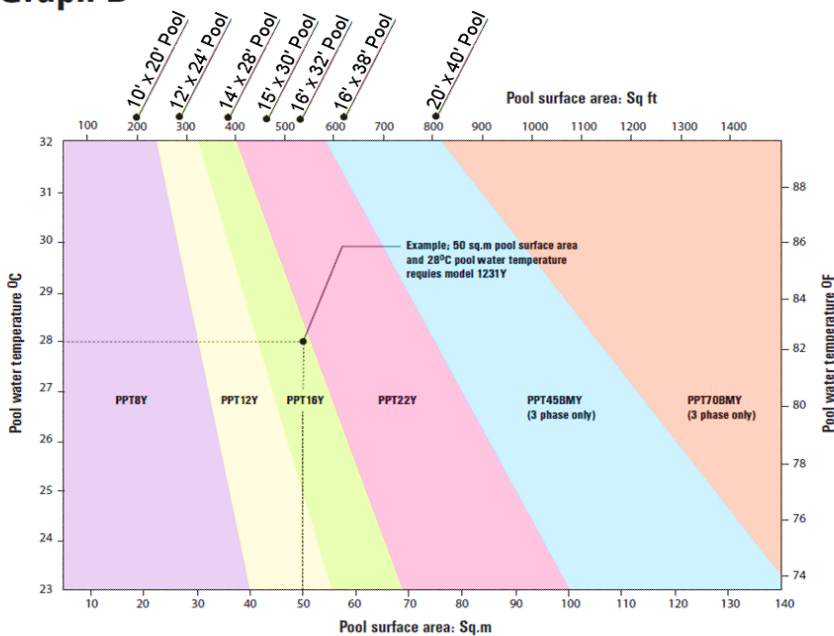
**calorex**

#### Heatpump Sizing Graphs

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.

### Graph B



April - October Season  
 (approx 30-32 weeks)

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

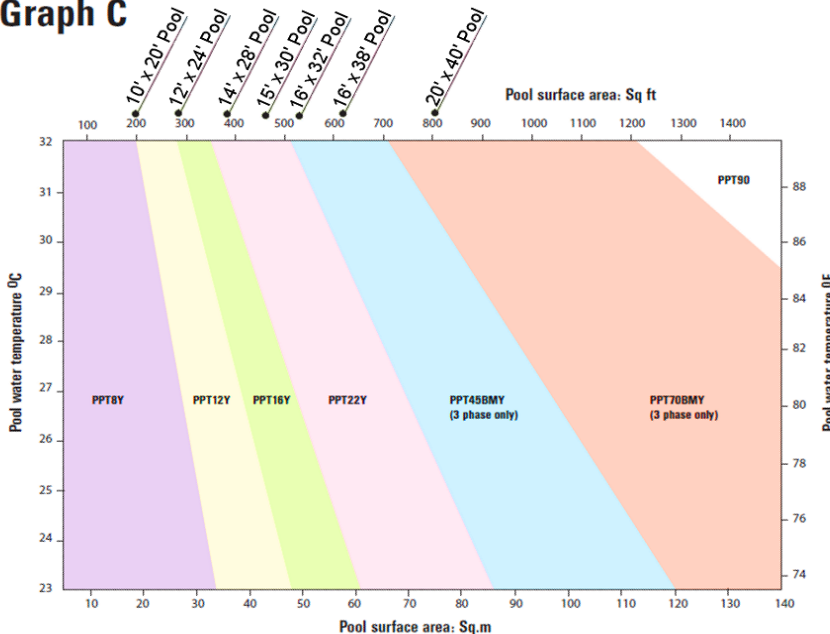
To convert to sq. ft to sq.m multiply by 0.0929.

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

### Graph C



March - November Season  
 (approx 38-40 weeks)



## Electrical Safety First!



All fixed wired electrical installation works (i.e not a 13 amp plug) must by law be carried out by a part 'P' fully qualified electrician, and you should receive an electrical installation certificate confirming correct installation and testing. Remember electricity & water **KILL**



## Gas Safety First!



All gas installation works must by law be carried out by a fully qualified & registered Gas Safe engineer. To find a gas engineer in your area go to [www.gassaferegister.co.uk](http://www.gassaferegister.co.uk) or call gas safe direct on free phone 0800 408 5500. Every gas engineer carries a Gas Safe Register ID card with their own unique license number, showing the type of gas work they are qualified to do. Before any gas work is carried out, always make sure you ask to see their Gas Safe Register ID card.

### WHAT TO DO IF YOU SMELL GAS

- **Do not try to light any appliance.**
- **Do not touch any electrical switch; do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbour's phone - Gas Emergency Services **0800 111 999** - Follow the gas supplier's instructions**



## Oil Safety First!



Most building work done in your home will be subject to Building Regulations – and that includes any installation or upgrade work done on your heating system. Building Regulations vary depending on where you are in the UK, but generally all work must be notified to your local authority. Because your OFTEC Registered Technician is a 'competent person' under the Building Regulations, he can self-certify his work and take care of the notification for you. You'll receive a certificate confirming that the work done meets the relevant Building Regulations. To find an Oil engineer in your area go to [www.oftec.org](http://www.oftec.org) or call OFTEC direct on 0845 65 85 080.