

POOL HEATER SIZING QUESTIONS

1-19-2015

In order to most efficiently size a pool heater accurately for you, please provide the following information.

Where will the pool be located?

Please provide city and state. We have climate models for many cities. It is more important to select a climate close to your location than to be geographically close.

State _____ City _____

Is this a commercial or residential installation?

Building code requirements prohibit the use of residential-grade units over 200,000 BTUH input on a commercial installation. Units over 400,000 BTUH are all built as commercial.

Residential _____ Commercial _____

At what elevation is the pool located?

Combustion is affected by the changes in oxygen content at elevation, so it needs to be taken into account. Elevations below 2000' are considered sea-level. Elevations above 2000' will affect the output of the unit and runtime; a larger heater may be required.

_____ ft.

What are the dimensions of the pool?

Surface area and depth, or total # of gallons and an idea of average depth.

_____ Length _____ total gallons
_____ Width _____ average depth
_____ Surface Area of Pool

What pool temperature do you want to maintain?

_____ °F

common temperatures:

recreational swimming, 82-83F for commercial installations.

Residential installations may be higher than 82F depending on the user's comfort level.

athletic training, 78-80F

therapy, 85-87F or higher

What fuel?

What rate?

We can estimate running costs.

_____ natural gas \$ _____ per therm
_____ propane \$ _____ per gallon
_____ electric only \$ _____ per kilowatt-hour (kWh)

Will the heater be located indoors or outdoors?

Certain models must be indoor.

___ Indoor _____ Outdoor



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How exposed is the pool to wind/sun/shade? Is it indoors?

This affects evaporative losses. Indoor pools have dramatically lower evaporative losses.

Sunshine

- Full sun
- Mostly sun with some screening
- Mostly sun with some shade
- Mostly screened or shaded
- Full shade
- Pool is indoors

Average Windspeed at the pool

- Low, 0-3.5 MPH
- Medium, 3.5-10 MPH
- High, over 10 MPH
- Climate controlled / indoors

Will there be a cover on the pool, and how often?

Pool covers are a huge energy savings.

- No cover on the pool
- Pool is generally covered overnight
- Pool is covered whenever it is not in use

Over what portion of the year will the pool be in use?

Combined with the climate model, this gives us an idea of the heat losses to expect.

- year-round
- January
- February
- March
- April
- May
- June
- July
- August
- September
- October
- November
- December

What is the local groundwater temperature?

This establishes both the temperature starting point and how much the pool temperature will drop over time.

°F

How many heaters do you want to use for this installation?

It isn't always practical to use a single heater; having multiple units provides a backup if one needs repair. We'll advise on how much heat you need, but whether that amount of heat is supplied by a single heater or multiple is largely your decision.

- must have a single heater
- must have multiple heaters
- prefer a single heater
- prefer multiple heaters
- prefer at least one heater to be a backup system.



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