HEATING

HAYWARD®

Universal H Series

GAS HEATERS

HEATING

Reach your perfect comfort zone.

HAYWARD ENERGY SOLUTIONS®

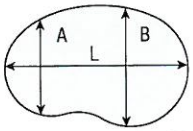
Totally Hayward: Pumps | Filters | Heating | Cleaners | Sanitisation | Automation | Lighting | Safety | White Goods

Selecting the correct size Universal H-Series Heater:

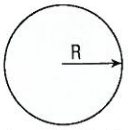
For Your Swimming Pool

83% THERMAL EFFICIENCY

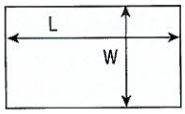
Determine your pool's surface area in square metres:



Area = (A+B) x L x .45



Area = R x R x 3.14



Area = L x W

In the last column of the table below, locate the surface area that is equal to, or just greater than, the pool's surface area. This is the Universal H-Series model that will fit the selected area.

For indoor pool installations, divide the pool's surface area by 3.

Column is based on a 15°C temperature rise, 5½ kph average wind velocity and elevation of up to 610 metres above sea level.

Model Number	Mega Joule/hr	Nominal heat (kW)	Electrical Connection	Voltage Hertz/Phase	Circuit Amps	Diameter Width x Depth	Height (mm)	Pkg Unit Wt. (kgs)	Pool Surface Area (m2)
H150FDAU	158	36.05	plug & play	240 50/1	<2.0	545 x 750	610	64	42
H250FDAU	264	60.08	plug & play	240 50/1	<2.0	710 x 750	610	75	70
H400FDAU	422	96.13	plug & play	240 50/1	<2.0	930 x 750	610	89	112

Features of the Hayward® Universal H Series gas heaters:

- Choice of 158, 264 or 422 MJh models.
- CuproNickel Heat Exchanger for proven durability and longevity.
- Forced Draft Heat Combustion for solid wind and air management.
- Insulated FireTile combustion chamber for high efficency.
- For Natural Gas and LPG applications. *LPG conversion kit required.
- Digital LED control with temperature display and self diagnostics.
- Meets worldwide Low NOx emmission standards.
- Industry leading hydraulic performance and low flow requirements.

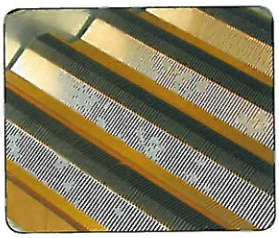
For Your Hot Tub

MODEL	SPA/HOT TUB SIZE IN LITRES								
	750	1200	1500	1900	2300	2700	3000	3400	3800
	Time in Minutes to Raise Spa/Hot Tub Temperature 15°C								
H150FDAU	25	37	50	62	75	87	100	112	125
H250FDAU	15	22	30	37	45	52	60	67	75
H400FDAU	9	14	19	23	28	33	37	42	47

Spa sizing is based on an insulated and covered spa. Always cover when not in use to minimise heat loss and evaporation.

Energy Saving Tips

1. Set your pool temperature between 25°C to 30°C for most applications.
2. Use a pool cover or solar blanket on your pool when it is not in use. Evaporation accounts for 70% of heat loss from your pool or spa/hot tub.
3. Add wind breaks to your pool. A 15 kph wind at the surface of a pool can increase energy consumption 300%.



CuproNickel Heat Exchanger

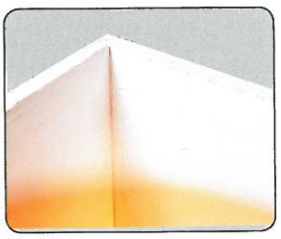
Totally managed flow provides exceptional corrosion resistance and boasts the innovative Finn Plate heat exchanger with V-Groove design for faster heating and longer life.

Forced Draft Technology

The forced draft system precisely delivers air flow to ensure optimal thermal efficiency and enables heater to be impervious to outside weather variables such as wind.

Digital LED Control Panel

Electronic control display maintains water temperature; monitors heater performance and provides self-diagnostic capabilities.



FireTile® Combustion Chamber

FireTile ensures the maximum efficient heating performance from each and every mega joule.

To take a closer look at Hayward Gas Heaters or other Hayward products, go to
www.hayward-pool.com.au or call 1300 POOLS1.

HAYWARD®

PO Box 4384 | Dandenong South, VIC, 3164

GAS SAFETY CERTIFICATION

SAI Global AS 4560

30-LTBR-H000

HAYWARD®

Universal H-Series

POOL AND SPA HEATERS

HEATING

Right for so
many reasons.
Perfect for so
many applications.

HAYWARD ENERGY SOLUTIONS®

Total System: Pumps | Filters | **Heating** | Cleaners | Sanitization | Automation | Lighting | Safety

Easy installation, simple operation.

A choice of left-side or right-side electric, gas and water connections gives Universal H-Series heaters unprecedented installation flexibility. This enhanced adaptability – coupled with lightweight design, modern low-profile appearance and only front-panel access required for installation and service – ensures compatibility with virtually all new or existing systems and equipment pad conditions.

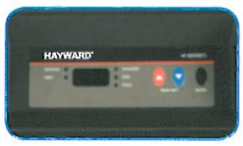
H400FD

H-Series Millivolt Heaters

Although designed for budget-conscious applications, Hayward H-Series Millivolt heaters deliver uncompromising performance and economy. A standing pilot ignition system ensures reliable lighting, and – like all H-Series heaters – they feature a Finn Plate heat exchanger and Fire Tile combustion chamber. Available in your choice of propane or natural gas models, with input capacity from 150,000 to 250,000 BTU.

Dual Voltage
Installation is simplified with voltage that adapts to either 110V or 220V.

Universal Wiring Junction Boxes
High and low voltage connections are easy and convenient with left and right side junction boxes.



Digital LED Control Panel
Electronic control/ display maintains water temperature; monitors heater performance with self-diagnostic capability.

Low NOx Emissions
Environmentally responsible; complies with all current California and Texas air quality emission standards.

Hayward Universal H-Series Heater: Energy-efficient and universal fit for added convenience.

H150FD

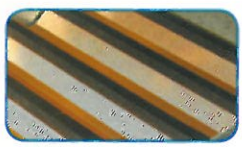
Hayward is always looking for ways to make pool and spa ownership as simple and effortless as possible. The latest example of this is the new Universal H-Series pool and spa heater. Combining advanced technology with universal-fit flexibility, it's a smart choice for virtually any new installation or existing system upgrade — delivering state-of-the-industry performance, outstanding energy efficiency, extremely low NOx emission levels and Hayward's legendary durability and reliability. Offered in 150,000, 200,000, 250,000, 300,000, 350,000 and 400,000 BTU/hr. inputs.

H250FD

Exclusive to Universal H-Series Heater

STANDARD Cupro Nickel Heat Exchanger
Totally Managed Flow provides exceptional corrosion resistance and erosion protection. Ideal for today's salt-based electronic chlorination systems.

Superior Hydraulic Performance
Industry-leading hydraulic performance saves energy by reducing circulation pump run time.



State-of-the-Art Finn Plate™ Heat Exchanger
State-of-the-industry Finn Plate™ heat exchanger with special V-groove design for faster heating and longer life.

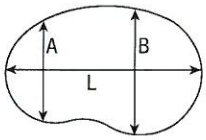
Insulated Fire Tile® Combustion Chamber
Unlike older forms of insulation, Fire Tile securely traps the heat, delivering the most performance from each BTU.

Hot-Surface Silicon Nitride Ignition System
Exclusive silicon nitride ignition system for dependable lighting and reliable operation.

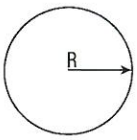
Selecting the correct size H-Series heater:

For Your Swimming Pool

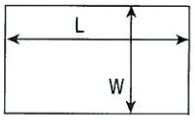
Determine your pool's surface area in square feet:



Area = (A+B) x L x .45



Area = R x R x 3.14



Area = L x W

MODEL	SURFACE AREA
H400	1,200
H350	1,050
H300	900
H250	750
H200	600
H150	450

In this table, locate the surface area that is equal to or just greater than the pool's surface area. To the left of this number is the appropriate H-Series model that will fit the selected area.

For indoor pool installations, divide the pool's surface area by 3.

Table is based on a 30°F temperature rise, 2½ mph average wind velocity and elevation of up to 2,000 feet above sea level.

For Your Spa or Hot Tub

Determine your spa capacity in gallons (surface area x average depth x 7½).

The reference table lists the time required in minutes to raise the temperature of the spa/hot tub by 30°F. In the table below, locate the column with the spa/tub size in gallons that is closest to yours. Select the desired time to raise the spa/hot tub temperature 30°F, read to the left and select the appropriate H-Series model.

This guide can be adjusted for other temperature rises. For example, if you desire a 15°F increase in temperature, simply divide the time for 30°F rise by the ratio of 30/15, or 2.

Note: Heat lost and/or heat absorbed by spa walls or other objects will add to the time it takes the spa to heat up.

Spa sizing is based on an insulated and covered spa. Always cover your spa or hot tub when not in use to minimize heat loss and evaporation.

	SPA/TUB SIZE IN GALLONS								
MODEL	200	300	400	500	600	700	800	900	1,000
	Time in Minutes to Raise Spa/Tub Temperature 30°F								
H400	9	14	19	23	28	33	37	42	47
H350	11	16	21	27	32	37	43	48	54
H300	12	19	25	31	37	44	50	56	62
H250	15	22	30	37	45	52	60	67	75
H200	19	28	37	47	56	66	75	84	94
H150	25	37	50	62	75	87	100	112	125

Specifications and Dimensions

Universal H-Series Heater

	H400FD	H350FD	H300FD	H250FD	H200FD	H150FD
BTU/Hr.	400,000	350,000	300,000	250,000	200,000	150,000
Width (Inches)	36"	33"	30"	28"	25"	21"
Depth (Inches)	29½"	29½"	29½"	29½"	29½"	29½"
Height (Inches)	24"	24"	24"	24"	24"	24"
Water Connections	2" x 2½"	2" x 2½"	2" x 2½"	2" x 2½"	2" x 2½"	2" x 2½"
Heat Exchanger	Cupro Nickel	Cupro Nickel	Cupro Nickel	Cupro Nickel	Cupro Nickel	Cupro Nickel
Indoor Vent Pipe Diameter (Inches)	8"	8"	8"	6"	6"	6"
Heater Weight (lbs.)	160	158	145	134	123	110
Gas Connection at Heater	¾"	¾"	¾"	¾"	¾"	¾"

Millivolt Heaters

	H250	H200	H150
BTU/Hr.	250,000	200,000	150,000
Width (Inches)	27"	24½"	21½"
Depth (Inches)	27½"	27½"	27½"
Height (Inches)	28½"	28½"	28½"
Water Connections	1½" x 2"	1½" x 2"	1½" x 2"
Heat Exchanger	Cupro Nickel	Cupro Nickel	Cupro Nickel
Indoor Vent Pipe Diameter (inches)	7"	7"	6"
HWS Stack Height (Inches)	17¼"	15¼"	14"
Heater Weight (lbs.)	144	141	131
Gas Connection at Heater	¾"	¾"	¾"

H-Series heaters are available in a comprehensive range of BTU sizes for natural or propane gas. All units are certified by the Canadian Standards Association and carry Hayward's exclusive warranty.

Efficiency. Performance. Innovation.

Whether you want to extend your swimming season or swim year-round, Universal H-Series gives you comfort with efficiency. It's the perfect addition to your Totally Hayward® System.

To take a closer look at Hayward Heaters, go to
www.haywardnet.com *or call* **1-888-HAYWARD**

HAYWARD®

620 Division Street | Elizabeth, NJ 07201

HAYWARD®

HeatPro®

IN-GROUND HEAT PUMP

HEATING

Reliability, efficiency and
a quiet backyard too!

AHRI CERTIFIED

HAYWARD ENERGY SOLUTIONS®

The Ideal Heat Pump for Continuous Comfort

Don't let cool water temperatures limit your swimming enjoyment. High performance, energy-efficient Hayward® HeatPro® heat pumps quietly and economically maintain your ideal water temperature at all times. They let you start your swim season earlier and end later - all while consuming less energy than gas heaters to lower your operating costs by up to 80 percent.

Enhanced titanium heat exchanger technology delivers dependable, high-efficiency performance.

Hayward HeatPro heat pumps incorporate titanium counter-flow heat exchangers for unrivaled and uncompromising performance - even under the harshest conditions. Other premium features include: An Ultra Gold corrosion-resistant evaporator fin for extreme durability, especially in coastal environments; heavy duty, super quiet scroll compressors; durable injection molded UV-resistant body panels that are impervious to rust and deterioration; stainless steel hardware; and a polyethylene screen to protect the evaporator coil and maintain peak efficiency. Plus, Hayward HeatPro heat pumps are lightweight, compact and easy to install and service, making them ideal for new pools or enhancing the one you already have.

DUAL ELECTRONIC THERMOSTAT FEATURES AND BENEFITS:

- *Continuous pool temperature display*
- *Easy-to-change water temperature set point, in 1° increments*
- *Electronic temperature set point lock-out for tamper-proof temperature settings*
- *Self-diagnostic codes to monitor heat pump performance*
- *Compatible with Hayward and other control systems*

Ultra Gold Corrosion Resistant Evaporator Fin – *extreme durability, especially in coastal environments.*

Titanium Heat Exchanger – *Designed for durability and efficiency to ensure maximum heat transfer and resistance to harsh pool chemicals*

2' x 2 1/2" unions on back of unit – *allow unlimited customer access to the electronic control*

Profiled fan blade – *ensures efficient air flow and quiet operation*

Acoustic compressor cover – *minimizes sound level*

Compact footprint – *for easy backyard access and less space on equipment pad*

Models to fit a range of needs

AHRI CERTIFIED

Hayward® HeatPro® Heat Pump	HP20654T 230V	HP21004T 230V	HP21104T 230V	HP21104TC Low Ambient 230V	HP21254T 230V	HP21404T 230V
BTU Heating Performance						
80°F Ambient Air, 80°F Water, 80% Relative Humidity**	65,000	95,000	110,000	110,000	125,000	140,000
80°F Ambient Air, 80°F Water, 63% Relative Humidity*	60,000	90,000	102,000	102,000	120,000	130,000
50°F Ambient Air, 80°F Water, 63% Relative Humidity*	41,000	63,000	70,000	70,000	80,000	85,000
Coefficient of Performance (C.O.P.)						
80°F Ambient Air, 80°F Water, 80% Relative Humidity**	6.6	6.2	5.8	5.8	6.0	6.0
80°F Ambient Air, 80°F Water, 63% Relative Humidity*	6.2	5.8	5.6	5.6	5.6	5.7
50°F Ambient Air, 80°F Water, 63% Relative Humidity*	4.2	4.0	4.0	4.0	4.1	4.1
Electronic Temperature Control	Yes	Yes	Yes	Yes	Yes	Yes
Thermostat - Dual (Pool and Spa)	Dual	Dual	Dual	Dual	Dual	Dual
Minimum Circuit Amps	24	36	35	35	36	36
Minimum Overload Protection	40	50	50	50	50	50
Maximum Overload Protection	40	60	60	60	60	60
Water Flow Rate (GPM) Recommended Minimum/Maximum	30/75	30/75	30/75	30/75	30/75	30/75
Plumbing Connection	2" x 2 1/2" Unions					
Refrigerant	R410A					
Dimensions (inches)	31.25 d x 40 h	30.25 w x 34 d x 37 h	31.25 d x 40 h	31.25 d x 40 h	30.25 w x 34 d x 37 h	30.25 w x 34 d x 44 h
Net Weight (lbs.)	140	165	190	190	200	250
Shipping Weight (lbs.)	180	205	230	230	240	290

**BTU and COP Ratings in Accordance with AHRI 1160 Performance Test Standard*
***BTU and COP Ratings Outside the Scope of AHRI 1160 Performance Test Standard*

Efficiency. Performance. Innovation.

Whether you want to extend your swimming season or swim year-round, HeatPro gives you comfort with efficiency. It's the perfect addition to your Totally Hayward® System.

To take a closer look at Hayward Heat Pumps or other Hayward products, go to
www.hayward.com or call 1-888-HAYWARD.

HAYWARD®
620 Division Street | Elizabeth, NJ 07201

HAYWARD®

HeatPro® HP31204T

»»» Heat Cool Pump

RELIABILITY, EFFICIENCY AND
A QUIET ENVIRONMENT.

QUIET TECHNOLOGY

Profiled Fan Blade
Ensures efficient air flow and quiet operation.

Acoustic Compressor Cover
Minimizes sound level.

PERFORMANCE RELIABILITY

Industry's Only Ultra Gold Corrosion-Resistant Evaporator Fin
Provides extreme durability, especially in coastal environments.

Titanium Heat Exchanger
Designed for durability and efficiency to ensure maximum heat transfer and resistance to harsh pool chemicals.

TECHNICAL INFORMATION	HP31204T
80/80/80* BTU/COP	Heat120,000/5.7 Cool 55,000
80/80/63* BTU/COP	112,000/5.4
50/80/63* BTU/COP	78,000/4.0
Electronic Tempertaure Control	Yes
Thermostat	Dual (Pool & Spa)
kW Input	6.2
Voltage	240V/60Hz/1 phase
Minimum Circuit Amps	48
Minimum Overload Protection	50
Maximum Overload Protection	60
Water Flow Rate (GPM) Recommended Min/Max	30/75
Plumbing Connection	2 ½" x 2" Unions
Refrigerant	R410A
Dimensions (inches) W=Width, D=Depth, H=Height	30 ¼ W x 34D x 37H
Net Weight (lbs.)	200
Shipping Weight (lbs.)	240

* BTU and COP Ratings in Accordance with AHRI 1160 Performance Test Standard (air temp °F/ % relative humidity/ water temp. °F)

Hayward® HeatPro® HP31204T Heat/Cool pumps incorporate titanium counter-flow heat exchangers for unrivaled and uncompromising performance – even under the harshest conditions. They economically maintain the ideal water temperatures at all times.

Other premium features include:

» An Ultra Gold corrosion-resistant evaporator fin for extreme durability, especially in costal environments

» Heavy duty, super quiet scroll compressors

» Durable, injection molded, UV-resistant body panels that are impervious to rust and deterioration

» Stainless steel hardware

» A polyethelene screen to protect the evaporator coil and maintain peak efficiency

International Marketing Group
2875 Pomona Blvd » Pomona CA 91768 USA

HAYWARD®

HEATING

Summit

IN-GROUND HEAT PUMP

High Performance,

Quiet, Energy Efficient

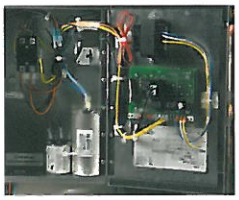
AHRI CERTIFIED
www.ahridirectory.org
Heat Pump Pool Heaters
AHRI Standard 1160

Total System: Pumps | Filters | **Heating** | Cleaners | Sanitization | Automation | Lighting | Safety | White Goods

Summit, excellence in pool heat pump heaters

Hayward® has developed innovative products that combine the finest electric and mechanical components in the industry, decreasing energy consumption and reducing running costs. Summit pool heaters offer a multitude of characteristics that place them well beyond industry standards.

Thermostatic expansion valve – *Protects the compressor and supplies exactly the right amount of refrigerant to obtain optimal performance, regardless of outdoor temperature*



Electronic temperature control – *Ensures constant temperature and energy savings while controlling the water temperature to within 0.5°F*

Profiled fan blade – *ensures efficient air flow and quiet operation*

Acoustic compressor cover – *minimizes sound level*

Titanium Heat Exchanger – *Designed for durability and efficiency to ensure maximum heat transfer and resistance to harsh pool chemicals*

Plastic cabinet – *Anti-corrosive and very attractive, it is designed to withstand a harsh climate for many years*

Enjoy your backyard without the noise

The superior quiet operation of a Summit heat pump lets you enjoy a normal conversation in the serenity of your own backyard.

120 dB.
Jet takeoff

80 dB.
Alarm clock

60 dB.
Normal conversation

Summit product specifications:

Item	SHE1101	SHE1401	SHE1901	SHE1903	SHE2403	SHE3003
Air 27°C - HR% 80 - Water 27°C - COP	11 Kw - 5,8	14Kw - 5,8	19,5 - Kw 5,8	19 Kw - 5,6	24 Kw - 5,3	29 Kw - 5,4
Air 15°C - HR% 71 - Water 26°C - COP	8,4 Kw - 4,2	1,04 Kw - 4,3	15,4 Kw - 4,5	14,3 Kw - 4,3	18,8 Kw - 4,2	23,2 Kw - 4,3
Air 5°C - HR% 80 - Water 15°C - COP	6,5 Kw - 4,2	8,5 Kw - 4,5	12,3 Kw - 4,6	11,4 Kw - 4,5	14,9 Kw - 4,3	18,7 Kw - 4,1
Voltage Hz/Ph	230V/ 1Ph/ 50Hz	230V/ 1Ph/ 50Hz	230V/ 1Ph/ 50Hz	400V/ 3Ph/ 50Hz	400V/ 3Ph/ 50Hz	400V/ 3Ph/ 50Hz
Power supply Watt (1) (2)	2033	2422	3406	3355	4473	5350
Running amperage A (2)	9	10,9	13,3	5,3	7	11,6
Required breaker aM type	16	16	20	10	10	16
Compressor type	SCROLL					
Gas type	R410A	R407C	R407C	R407C	R407C	R410A
Heat exchanger	Titanium / PVC					
Heat range	15°C/ 35°C					
Plumbing connection	63 mm					
Flow rate range m^3/h	3,5 to 23					
Normal flow rate (3)	4,5	6	8	8	10	12
Dimension	H: 737 L: 762 P: 864	H: 737 L: 762 P: 864	H: 940 L: 762 P: 964	H: 940 L: 762 P: 864	H: 940 L: 762 P: 864	H: 940 L: 762 P: 864
Weight in Kg	75	77	86	86	98	121
Exclusive noise reducing ventilation						
Electronic self starter	NO	YES	YES	NO	NO	NO
Wintering cover	YES					
Heating Priority Function	YES					

(1) Power supply announced subjected to the test conditions of line 1 (Ax 27°C - HR%80 - Pool Temperature 27°C)
(2) Power supply and running amperage are +/- 10%
(3) Powers are indicated to normal flow rate RH%

The Ideal Heat Pump for Continuous Comfort

Don't let cool water temperatures limit your swimming enjoyment. High performance, energy-efficient Hayward® Summit heat pumps quietly and economically maintain your ideal water temperature at times. They let you start your swim season earlier and end later – all while consuming less energy than gas heaters to lower your operating costs by up to 80 percent.

Efficiency. Performance. Innovation.

Whether you want to extend your swimming season or swim year-round, Summit by Hayward gives you comfort with efficiency.

HAYWARD®

620 Division Street | Elizabeth, NJ 07201

www.hayward.com or call 1-888-HAYWARD.

LITSUM12

HAYWARD®

HP50HA
HEAT PUMP

The Hayward HP50HA Heat Pump provides the perfect pool water temperature to enhance the enjoyment of your pool throughout the swimming season. It is an ideal addition for your pool and is the most efficient way to provide the supreme water temperature for more relaxation and swimming pool fun. Relax and enjoy the comfort of your pool every day when it's heated by Hayward.

Features of the Hayward® HP50HA heat pump:

- 45,000 BTU Heating Capacity
- Durable Titanium Heat Exchanger
- Quiet Operation
- Electronic Thermostat Control
- Cooling Mode to Help Lower Water Temperature

Model Number	BTU	C.O.P.	Platform	Voltage Hertz/Phase	Circuit Amps	Diameter Width x Depth	Height	Ship Wt. (lbs)	Unit Wt. (lbs)
HP50HA	45,000	5.4	Horizontal Fan	208–230 60/1	20	41 ½" x 17 ¼"	25 ½"	145	128

Digital thermostat control for easy operation and temperature display.

Quiet perfomance via the combination of a quiet and efficient compressor with a low noise fan.

Titanium heat exchanger for durability and excellent corrosion resistance.

To take a closer look at Hayward Heat Pumps or other Hayward products, go to
hayward.com or call 1-888-HAYWARD.

HAYWARD®

HAYWARD®

HEATERS

Spa Heaters

CSPA SERIES HEATERS

Hayward spa heaters contain all of the sophisticated features and capabilities of heaters twice their size. The electronic heaters fit into compact spaces – even under spa skirts or steps. Like all Hayward heaters, they are easy to install and service.

CSPAXI Electronic Spa Heater

Features

- 304 stainless steel tank
- 304 stainless steel threaded head, electronic heating element
- Heater on indicator light
- UPS shippable

Spa Sizing

Determine your spa capacity in gallons (surface area x average depth x 7 ½)

The reference table lists the time required in minutes to raise the temperature of the spa/hot tub by 30°F

This guide can be adjusted for other temperature rises. For example, if you desire a 15°F increase in temperature, simply divide the time for 30°F rise by the ratio of $^{30}/_{15} = 2$.

Spa sizing is based on an insulated and covered spa. Always cover your spa or hot tub when not in use to minimize the heat loss and evaporation.

Example

Increase the temperature of a 300 gallon spa to go from 70°F to 100°F in 120 minutes.

100°F
subtract ⟶ 70°F
30°F Requested Temperature Rise

Recommended CSPA Model Heater – CSPAXI11

Specifications

CSPAXI Electronic Spa Heaters

Model Number	KW	Voltage	Pipe Size
CSPAXI55	5.5	240	1 ½"
CSPAXI11	11	240	1 ½"

Recommended CSPAXI Models

Model	Spa/Tub Size in Gallons								
	200	300	400	500	600	700	800	900	1000
	Time in minutes to Raise Spa/Tub Temperatures 30°F								
CSPAXI55	160	240	320	400	480	560	640	720	800
CSPAXI11	80	120	160	200	240	280	320	360	400

To take a closer look at Hayward Heaters, go to
www.haywardnet.com *or call* **1-888-HAYWARD**

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