

MINIMUM FOOTPRINT, MAXIMUM PERFORMANCE.

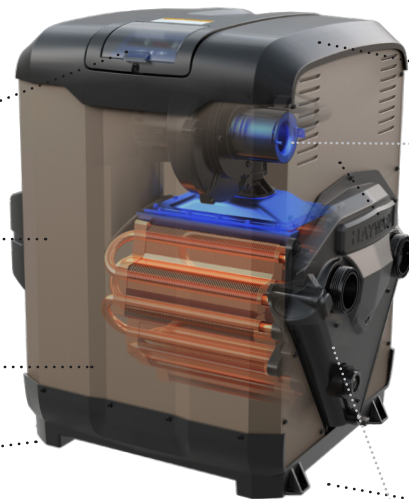
Universal HC Series dual-fuel technology gas heaters are uniquely engineered for use with Hayward® plumbing adapters, making them an easy drop-in replacement for other heater brands. The heat exchanger is made from cupro nickel for added reliability, and the easy-out air/gas mixing orifice makes propane conversion fast and simple. The industry's smallest footprint* with zero wall clearance fits in even the most compact equipment pads, while the refined gas controls and remote connectivity provide a simple user experience with added service convenience.

Quick-access reversible top easily swaps plumbing from right to left while providing access to gas shutoff, voltage selection and more, all via a single fastener

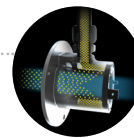
Low NOx emissions meet clean air quality standards and offer premium heating performance

Cupro nickel heat exchanger comes standard, protecting against water corrosion and natural wear

Zero wall clearance ensures a seamless fit in smaller equipment pads and tight spaces



Top-access design eliminates the need to remove side panels and kneel during service



Easy-out mixing orifice allows for easy in-field conversion between natural gas and propane

Compact, lightweight design makes installation easy in any environment

Integral tie-down connections on the base make for easy hand truck transport with no extra tie-down brackets required

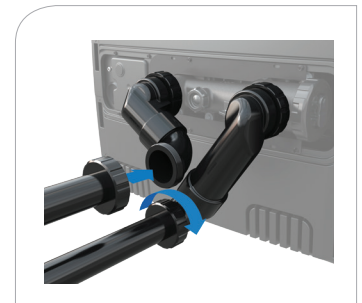
TECHNICAL SPECIFICATIONS

| | |
|-------------------------------|------------------------|
| Model Number | HDF400 |
| Gas | Natural gas or propane |
| BTU/hr | 400,000 |
| Thermal Efficiency | 84% |
| Heat Exchanger | Cupro nickel |
| Hot Surface Ignition | Silicon nitride |
| Combustion | Pre-mix |
| Low NOx Emissions | Yes |
| Digital Thermostat | Yes |
| Remote Compatible | 2-wire and 3-wire |
| Supply Voltage | 240/120 VAC |
| Water Connections | 2"/2.5" |
| Gas Connection at Heater | 3/4" |
| Installation Location | Outdoor or indoor |
| Footprint Dimensions (inches) | 21" W x 21" D |
| Heater Dimensions (inches) | 28" W x 21" D x 31" H |
| Heater Weight (lbs) | 135 |
| Shipping Dimensions (inches) | 33" W x 33" D x 39" H |
| Shipping Weight (lbs) | 170 |

EXPERT LINE® ONLY FROM POOL PROS

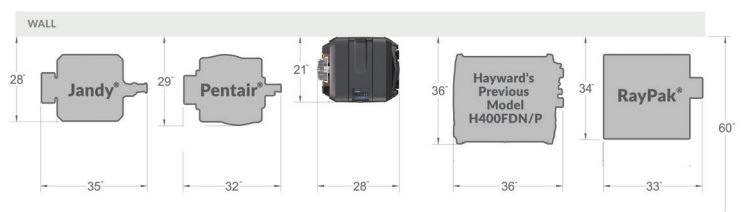


» **Patented butterfly bypass valve** enables flow rates up to 125 GPM without extra accessories



» **Exclusive plumbing adapters** allow for simple drop-in replacement with no pipe cutting required

INDUSTRY'S SMALLEST FOOTPRINT HEATER.*



*Among leading competitive brands.

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Universal H-Series

»»» Pool and Spa Gas Heaters

EXCLUSIVE HIGH-PERFORMANCE CUPRO
NICKEL HEAT EXCHANGER IN ALL MODELS





POOL PARTIES AREN'T JUST FOR SUMMER.



H400FD

Front-panel-only access provides easy service and maintenance, avoiding the problems and costs associated with front-and-back-panel access heaters

Universal junction boxes on left and right sides make electrical and automation installation simple and convenient

Intuitive control pad with protective cover is always easy to read and operate



Universal H-Series heaters provide reliable, long-lasting comfort.



DURABILITY COMES STANDARD

Built with a durable cupro nickel heat exchanger, Universal H-Series heaters offer exceptional protection against corrosion and premature failure caused by unbalanced water chemistry, ensuring you get season after season of premium heating performance.



FAST, EFFICIENT PERFORMANCE

Universal H-Series heaters boast industry-leading hydraulic performance coupled with lightning-fast speed-to-heat capability. In fact, the powerful 500,000 BTU model is the fastest in its class, giving you less time to wait and more time in the water.



EASY ON THE ENVIRONMENT

Designed with “totally managed” water flow, Universal H-Series heaters save energy (and money) by reducing pump run time. Their low NOx emissions meet air quality standards in all low-NOx areas, so you can rest easy knowing their environmental impact is low.



PREMIUM QUALITY WITHOUT THE PREMIUM PRICE.

While other manufacturers make you spend hundreds of dollars to upgrade to the performance and reliability of a cupro nickel heat exchanger, Universal H-Series heaters include them at no extra charge—giving you total peace of mind without any added costs.

TRY IT WITH

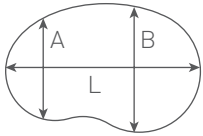


Double your comfort by pairing your Universal H-Series heater with **AquaRite® 900**—the longest-lasting version of the world’s best-selling salt chlorination system. AquaRite 900 creates luxuriously soft water without harsh chemicals, and with a Universal H-Series heater, you’ll get to enjoy incomparable water quality all year long.

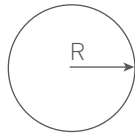
SELECTING THE CORRECT SIZE UNIVERSAL H-SERIES HEATER

FOR YOUR SWIMMING POOL

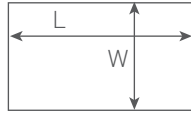
1. Determine your pool's surface area in square feet:



$$\text{AREA} = (A+B) \times L \times .45$$



$$\text{AREA} = R \times R \times 3.14$$



$$\text{AREA} = L \times W$$

2. Select the model that corresponds with a surface area that is equal to, or just greater than, your pool's surface area. For indoor pool installations, divide the pool's surface area by 3.

| MODEL* | H500 | H400 | H350 | H300 | H250 | H200 | H150 |
|--------------|-------|-------|-------|------|------|------|------|
| SURFACE AREA | 1,500 | 1,200 | 1,050 | 900 | 750 | 600 | 450 |

FOR YOUR SPA OR HOT TUB

- Determine your spa capacity in gallons (surface area x average depth x 7.5).
- 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 Universal H-Series model.

| MODEL | SPA/TUB SIZE IN GALLONS** | | | | | | | | |
|-------|--|-----|-----|-----|-----|-----|-----|-----|-------|
| | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1,000 |
| | Time in Minutes to Raise Spa/Tub Temperature 30°F*** | | | | | | | | |
| H500 | 7 | 11 | 14 | 18 | 22 | 25 | 29 | 32 | 35 |
| H400 | 9 | 14 | 18 | 23 | 27 | 32 | 36 | 41 | 45 |
| H350 | 10 | 16 | 21 | 26 | 31 | 36 | 41 | 46 | 52 |
| H300 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| H250 | 15 | 22 | 29 | 36 | 43 | 51 | 58 | 65 | 72 |
| H200 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 |
| H150 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |

| SPECIFICATIONS AND DIMENSIONS | H500FD | H400FD | H350FD | H300FD | H250FD | H200FD | H150FD |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| BTU/hr | 500,000 | 399,900 | 350,000 | 300,000 | 250,000 | 199,900 | 150,000 |
| Thermal efficiency | 83% | 84% | 83% | 82.7% | 84% | 83% | 82.7% |
| Width (inches) | 41" | 36" | 33" | 30" | 28" | 25" | 21" |
| Depth (inches) | 29½" | 29½" | 29½" | 29½" | 29½" | 29½" | 29½" |
| Height (inches) | 24" | 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" | 2" x 2½" |
| Heat exchanger | Cupro Nickel | Cupro Nickel | Cupro Nickel | Cupro Nickel | Cupro Nickel | Cupro Nickel | Cupro Nickel |
| Indoor vent pipe diameter (inches) positive pressure venting | 6" | 6" | 8" | 8" | 4" | 6" | 6" |
| Indoor vent pipe diameter (inches) negative pressure venting | 8" | 8" | 8" | 8" | 6" | 6" | 6" |
| Heater weight (lbs) | 223 | 160 | 158 | 145 | 134 | 123 | 110 |
| Gas connection at heater | 1" | ¾" | ¾" | ¾" | 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 the exclusive Hayward® warranty.

*Model recommendation is based on a 30°F temperature rise, 3½ mph average wind velocity and elevation of up to 2,000 feet above sea level.

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

***Based on an insulated and covered spa.

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Pumps » Filters » Heaters » Cleaners » Sanitization » Automation » Lighting » Water Features » White Goods

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LITUHS20B





HeatPro® Series

»» Heat Pumps

LONG-LASTING COMFORT AND EFFICIENCY
WITH POWERFUL CORROSION RESISTANCE



COMFORT YOU CAN COUNT ON.



Polyethylene screen protects the evaporator coil to maintain peak efficiency

Acoustic compressor cover reduces noise

Ultra Gold evaporator fin resists corrosion for years of reliable performance

Titanium counter-flow heat exchanger ensures maximum heat transfer

Injection-molded UV-resistant body panels are impervious to corrosion and deterioration

Stainless steel hardware provides added strength and durability

Compact, lightweight design makes installation easy in any environment



HeatPro® heat pumps provide longer-lasting performance.

Don't let cool temperatures cut your pool season short. HeatPro heat pumps are the easy, efficient and economical way to get in the water sooner and stay in longer.



EXTREME CORROSION RESISTANCE

With the industry's only Ultra Gold corrosion-resistant evaporator fin, HeatPro heat pumps offer unparalleled durability, even in harsh coastal environments.



DESIGNED FOR PEACE AND QUIET

HeatPro heat pumps' profiled fan blade and heavy-duty scroll compressors ensure efficient air flow with minimal noise, making any backyard environment instantly more relaxing.



EFFICIENT FROM THE INSIDE OUT

A titanium counter-flow heat exchanger ensures maximum heat transfer and helps reduce energy costs by up to 70%—and with powerful corrosion resistance, HeatPro heat pumps will keep saving you money for seasons to come.



THE HOTTEST SOLUTION FOR COOLER CLIMATES.

Fluctuations in temperature can present a challenge for heat pump performance—that's why **HeatPro Low Ambient** heat pumps are designed to excel when the climate gets cooler. They continue to heat at temperatures as low as 40°F, so the pool stays warm and comfortable even when it's chilly outside.

**MODELS TO FIT
A RANGE OF NEEDS**



**HAYWARD® HEATPRO®
HEAT PUMPS**

| | HP21004T | HP21004TC LOW AMBIENT | HP21124T | HP21104T | HP21254T | HP21404T | HP31204T HEAT/COOL | HP21404TC LOW AMBIENT |
|--|----------|-----------------------------|----------|----------|----------|----------|-----------------------|-----------------------------|
|--|----------|-----------------------------|----------|----------|----------|----------|-----------------------|-----------------------------|

BTU HEATING PERFORMANCE

| | | | | | | | | |
|---|--------|--------|---------|---------|---------|---------|---------|---------|
| 80°F Ambient Air, 80°F Water, 80% Relative Humidity* | 90,000 | 90,000 | 110,000 | 110,000 | 125,000 | 140,000 | 120,000 | 140,000 |
| 80°F Ambient Air, 80°F Water, 63% Relative Humidity* | 85,000 | 85,000 | 107,000 | 105,000 | 120,000 | 130,000 | 110,000 | 130,000 |
| 50°F Ambient Air, 80°F Water, 63% Relative Humidity* | 59,000 | 59,000 | 75,000 | 75,000 | 80,000 | 85,000 | 78,000 | 85,000 |
| HEAT Operating Temperature °F | 50 | 40 | 50 | 50 | 50 | 50 | 50 | 40 |

COEFFICIENT OF PERFORMANCE (COP)

| | | | | | | | | |
|---|------------------------|------------------------|------------------------|-------------------|------------------------|------------------------|------------------------|------------------------|
| 80°F Ambient Air, 80°F Water, 80% Relative Humidity* | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 80°F Ambient Air, 80°F Water, 63% Relative Humidity* | 5.5 | 5.5 | 5.4 | 5.2 | 5.5 | 5.5 | 5.4 | 5.5 |
| 50°F Ambient Air, 80°F Water, 63% Relative Humidity* | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Electronic Temperature Control | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Thermostat - Dual (Pool and Spa) | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual |
| kW Input | 4.6 | 4.6 | 5.7 | 5.7 | 6.4 | 7.2 | 6.2 | 7.2 |
| Voltage | 240/60/1 | | | | | | | |
| Minimum Circuit Amps | 38 | 38 | 42 | 42 | 42 | 42 | 48 | 42 |
| Minimum Overload Protection | 40 | 40 | 50 | 50 | 50 | 50 | 50 | 50 |
| Maximum Overload Protection | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| Water Flow Rate (GPM) Recommended Minimum/Maximum | 30/75 | 30/75 | 30/75 | 30/75 | 30/75 | 30/75 | 30/75 | 30/75 |
| Plumbing Connection | 2" x 2½" Unions | | | | | | | |
| Refrigerant | R410A | | | | | | | |
| Dimensions (inches) W=Width, D=Depth, H=Height, DIA=Diameter | 30¼ W x 34 D x 37 H | 30¼ W x 34 D x 37 H | 30¼ W x 34 D x 44 H | 31¼ DIA x 40 H | 30¼ W x 34 D x 37 H | 30¼ W x 34 D x 44 H | 30¼ W x 34 D x 37 H | 30¼ W x 34 D x 44 H |
| Net Weight (lbs.) | 230 | 230 | 245 | 245 | 245 | 280 | 250 | 280 |
| Shipping Weight (lbs.) | 270 | 270 | 285 | 285 | 285 | 320 | 290 | 320 |

*BTU and COP Ratings in Accordance with AHRI 1160 Performance Test Standard

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Pumps » Filters » Heaters » Cleaners » Sanitization » Automation » Lighting » Water Features » White Goods

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LITHTPR020



Spa Heaters

»»» CSPA Series Heaters



Hayward spa heaters contain all of the sophisticated features and capabilities of heaters twice their size and 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

- » 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 1/2)
- » 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.

$$\text{subtract } \rightarrow \frac{100^\circ\text{F} - 70^\circ\text{F}}{30^\circ\text{F}} = \text{Requested Temperature Rise}$$

Recommended CSPA Model Heater – CSPAXI11

SPECIFICATIONS

CSPAXI Electronic Spa Heaters

| Model Number | KW | Voltage | Pipe Size |
|--------------|-----|---------|-----------|
| CSPAXI55 | 5.5 | 240 | 1 1/2" |
| CSPAXI11 | 11 | 240 | 1 1/2" |

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 |

