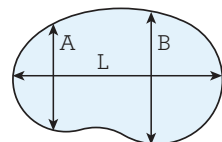


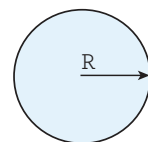
# SELECTING THE CORRECT SIZE H-SERIES HEATER:

## FOR YOUR SWIMMING POOL

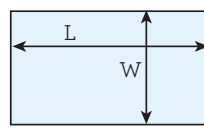
Determine your pool's surface area in square feet:



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



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



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

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 Universal 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, 3-1/2 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 7.5). 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/hot 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. 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.

MODEL	SPA/TUB SIZE IN GALLONS								
	200	300	400	500	600	700	800	900	1,000
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
THERMAL EFFICIENCY	83%	83%	82.7%	83%	83%	82.7%
WIDTH (INCHES)	36"	33"	30"	28"	25"	21"
DEPTH (INCHES)	29-1/2"	29-1/2"	29-1/2"	29-1/2"	29-1/2"	29-1/2"
HEIGHT (INCHES)	24"	24"	24"	24"	24"	24"
WATER CONNECTIONS	2" x 2-1/2"	2" x 2-1/2"	2" x 2-1/2"	2" x 2-1/2"	2" x 2-1/2"	2" x 2-1/2"
HEAT EXCHANGER	Cupro Nickel	Cupro Nickel	Cupro Nickel	Cupro Nickel	Cupro Nickel	Cupro Nickel
INDOOR VENT PIPE DIAMETER (INCHES) NATURAL	6"	8"	8"	4"	6"	6"
INDOOR VENT PIPE DIAMETER (INCHES) PROPANE	8"	8"	8"	6"	6"	6"
HEATER WEIGHT (LBS)	160	158	145	134	123	110
GAS CONNECTION AT HEATER	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

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.

### MILLIVOLT HEATERS

	H210
BTU/Hr.	210,000
Width x Depth x Height (Inches)	27" x 27-1/2" x 28-1/2"
Heat Exchanger	Cupro Nickel
Indoor Vent Pipe Diameter (Inches)	7"

### MILLIVOLT HEATERS CONT.

	H210
HWS Stack Height (Inches)	17-1/4"
Water Connections	1-1/2" x 2"
Heater Weight (lbs)	144
Gas Connection at Heater	3/4"



Hayward and Hayward Energy Solutions are registered trademarks of Hayward Industries, Inc. © 2014 Hayward Industries, Inc. All other trademarks not owned by Hayward are the property of their respective owners. Hayward is not in any way affiliated with or endorsed by those third parties.



LITHS14



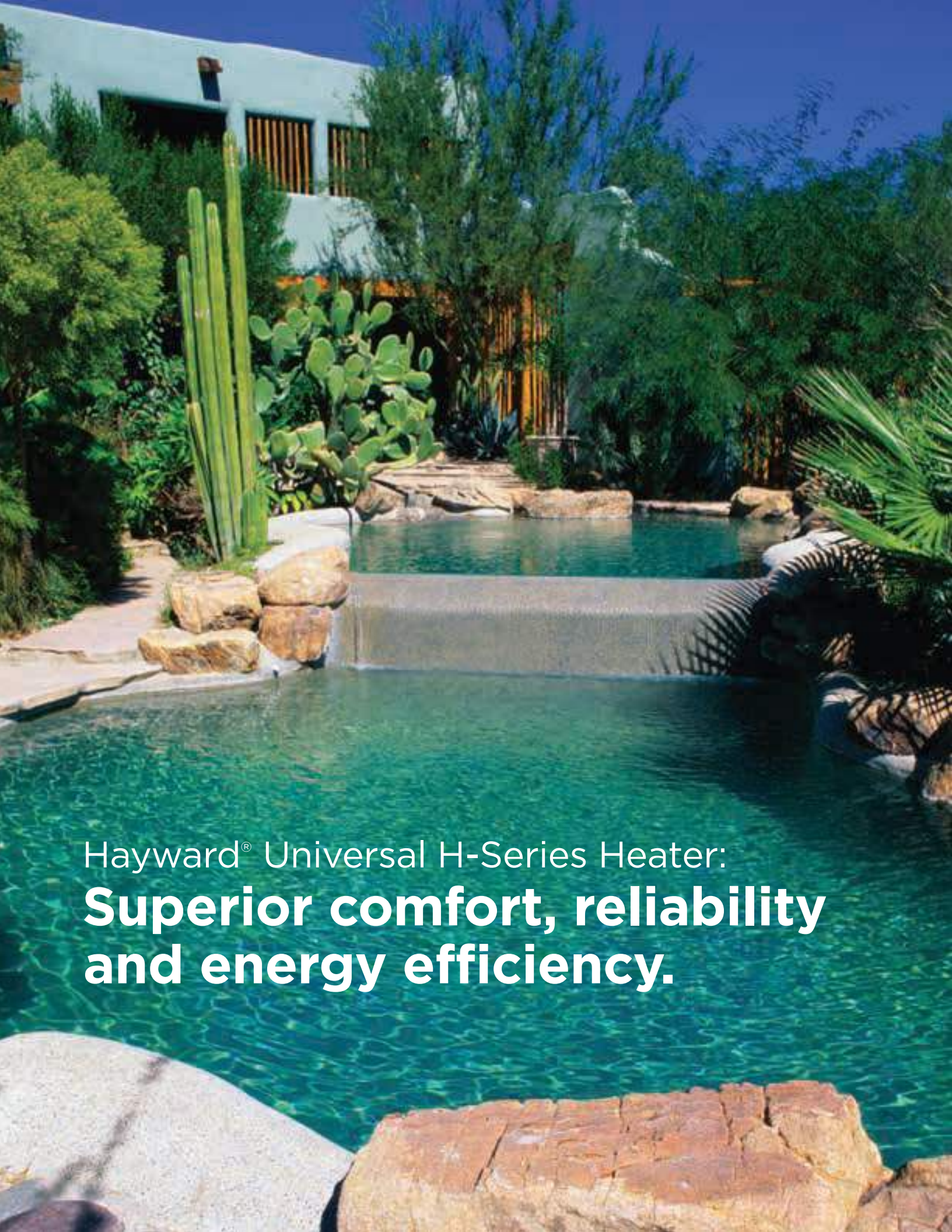
HEATING

Technologically advanced for the ultimate in comfort.



Universal H-Series  
POOL AND SPA HEATERS

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



Hayward® Universal H-Series Heater:  
**Superior comfort, reliability  
and energy efficiency.**

**EASY TO INSTALL. EVEN EASIER TO OPERATE.**

The Universal H-Series' unique advantage lies in its commercial grade cupro nickel heat exchanger. This distinctive feature defends against damaging water chemistry conditions, resulting in long-lasting value and dependability at no extra cost.

Universal left- or right-side electric, gas and water connections provide Universal H-Series heaters unprecedented installation flexibility. This exceptional adaptability, coupled with a modern low-profile appearance and front panel only access required for both installation and service, ensures compatibility with all new or existing systems and equipment pad configurations.

**PERFORMANCE & VALUE**



**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.

**FLEXIBILITY**



**Dual Voltage**

Installation is simplified with voltage that easily 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.

**ENVIRONMENTAL**



**Low NOx Emissions**

Environmentally responsible and complies with California air quality emission standards.



H400FD

An efficiently heated pool or spa lengthens your swim season and creates luxurious comfort you can't afford to do without. The Universal H-Series Heater from Hayward is simply the most reliable, hydraulically efficient solution for any pool or spa. Our heaters are designed for ultimate performance, comfort and durability, and with environmentally responsible low NOx emissions, you can enjoy efficient luxury and peace of mind—season after season.