

**MAXIMUM
EFFICIENCY.
POWERFUL
PERFORMANCE.
SMART
CONTROL.**

FRIEDRICH H-SERIES™

Super High Efficiency
Gas Water Heater
With LeakSense™



*Premium models meet a stringent
set of our company's internally
defined sustainability standards*



FRIEDRICH

Friedrich.com/WaterHeating

Designed by Plumbers, Loved by Homeowners

We boldly crafted the Friedrich® H-Series™ Super High Efficiency Gas Water Heater to provide the best of everything. It was designed by plumbers and perfected by our engineers to give homeowners continuous hot water, MaxMode™ and smart features—all from a water heater that installs as easily as a standard product.

Not only did we make it easy to install and service, but we also made it powerful, smart and dependable. So when you're looking for a gas water heater for your homeowners, why look for the best when you can install the greatest?

SMART CONTROL

Built-in Wi-Fi

Powered by EcoNet® Technology

Allow your homeowners to control and optimize their water heater experience from their smartphone³

SMART PROTECTION

LeakSense™ Leak Detection System

Detects any water leak—large or small, internal or external⁶



MAXIMUM EFFICIENCY

Up to 0.90 UEF

Reduces energy usage and carbon footprint by up to 36%¹ while still heating water 2X faster than a standard gas tank²

ENERGY STAR® certified

POWERFUL PERFORMANCE

Fast Recovery

Provides up to 2.5X the hot water of a standard 50-gallon water heater⁴, enough for up to seven simultaneous showers⁵



*"Tank-type water heaters
... best-in-class
first-hour delivery."*

**Steve,
Plumber**



Easy to Sell. Easy to Install. Easy to Service.

The Friedrich® H-Series™ Gas Water Heater is what you've been waiting for. Now you can give more homeowners the continuous hot water they want without the costs typically required, from a tank that installs no different than the many you've installed before. Because it was designed by plumbers and perfected by our engineering, it's a win-win solution that makes you come out looking like a hero.



Advanced Diagnostics

View detailed diagnostics, alerts and alarm codes while at the water heater to expedite service.



Start Up Verification

Be 100% sure your customer is up and running before you leave the job to prevent callbacks.



Leak Sensor Channel

Leak sensor replacement is easy by opening the thermostat panel and snaking the new leak sensor down the channel—360° protection, all from the front of the tank.



Perfect for Replacement

Easy replacement with the same dimensions as a standard gas water heater.



0" Clearance on Sides

Fits in a closet and is fully serviceable from the front.



Contact Info in the App

If anything ever goes wrong, your contact info in the EcoNet® App gives homeowners an easy way to reach and share codes with you for repeat business and simpler service calls.

Maximum Efficiency

As the most efficient water heater in its class, The Friedrich® H-Series™ Gas Water Heater is ENERGY STAR® certified and helps deliver up to \$1,100+ in energy cost savings over 12 years.⁷ And it may save even more with available tax credits or local utility rebates.

Earth-Friendly Design

It was designed with a powerful, efficient burner that helps it outperform, so there's no need to choose between sustainability goals and enjoying hot water. It helps homeowners reduce their carbon footprint and energy use by up to 36%¹ and reduce their NOx emissions up to 75%.⁸

Save Water with Recirculation

Pair with a recirculation pump (sold separately) to save over 3,000 gallons of water from being wasted down the drain each year⁹ (premium models).

Space Heating Ready

Side water connections built-in for use with a space heating, hydronic air handler—no need for a second tank or a furnace.



This product meets a stringent set of our company's internally defined sustainability standards



This Product Demonstrates a BRAND BEST Level of CO₂ Reduction*

*As compared to our baseline product



Powerful Performance

With an efficient yet powerful burner, a 50-gallon Friedrich® H-Series™ Gas Water Heater produces up to 2.5X the hot water of a standard tank. So homeowners will never worry about running out of hot water while they do the dishes, wash the laundry or even run continuous back-to-back showers.

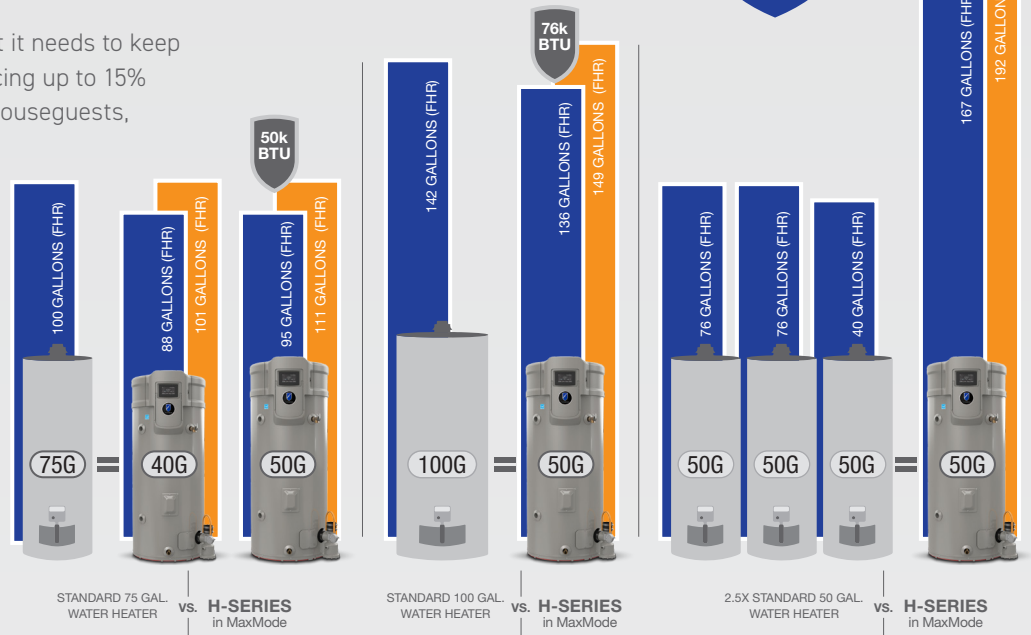
MaxMode™

Gives the water heater the boost it needs to keep up when demand is high, producing up to 15% more hot water.¹⁰ So even with houseguests, homeowners are covered.



Hot Water Performance

■ STANDARD FHR
■ MAXMODE FHR



Enjoy More Hot Water With the H-Series

In MaxMode, the H-Series provides up to 15% more hot water

First Hour Rating (FHR):

Gallons of hot water produced per hour, starting with a full tank.

Fast Recovery

Replenishes hot water up to 2X faster than a standard gas tank to provide continuous hot water, up to 3.8 Gallons Per Minute¹¹, so you can take as many showers back-to-back as you need. With the tank capacity added to the fast recovery, Friedrich H-Series Gas Water Heaters are capable of providing hot water for up to seven simultaneous showers.⁵

Continuous Hot Water Volume

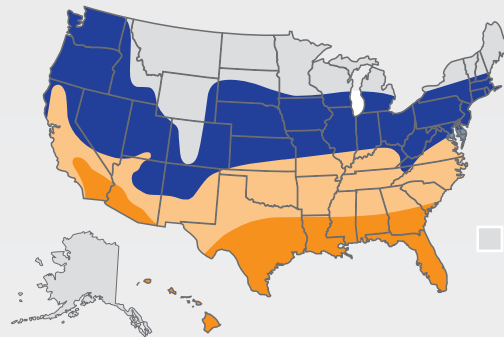
Models:	Inlet Temperature 45°	Inlet Temperature 58°	Inlet Temperature 70°
40G-50K	1 shower	1 shower	1 shower
50G-50K	1 shower	1 shower	1 shower
50G-76K	1 shower	1 shower	1 shower
50G-100K	1 shower	1 shower	1 shower

Total simultaneous hot water flow for a continuous duration.

Maximum Simultaneous Hot Water Volume

Models:	Inlet Temperature 45°	Inlet Temperature 58°	Inlet Temperature 70°
40G-50K	4 showers	4 showers	4 showers
50G-50K	4 showers	4 showers	4 showers
50G-76K	4 showers	4 showers	4 showers
50G-100K	4 showers	4 showers	4 showers
TOTAL # OF SHOWERS 140°F SET-POINT 2 GPM SHOWER			

Total simultaneous hot water flow for an 8-minute duration.



Flow rates are dependent on the inlet water temp. Gray zone flow rates will typically be less than other zones.

■ 45°F Inlet Temperature
■ 58°F Inlet Temperature
■ 70°F Inlet Temperature

Usage Key

Shower
Flow rate of 2.0 GPM

Faucet
Flow rate of 1.0 GPM

Inlet Temperature:

The temperature of cold water before it enters your water heater.

Approximate Usage:

Shower temperature of 105°F. Flow rates vary depending on temperature of incoming cold water and water heater set temperature.

Smart Control

Powered by EcoNet® Technology

With built-in Wi-Fi and the EcoNet® App, homeowners can enjoy complete control—like adjusting water temperature and setting Vacation / Away or MaxMode™—and know when their water heater needs service. It's all possible with the Friedrich® H-Series™ Gas Water Heater.

Hot Water Availability Indicator

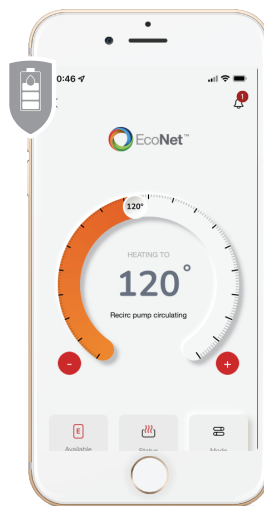
This lets homeowners know how much hot water is available before jumping into the shower.

Scheduling

Homeowners can program the water heater to match household needs throughout the day.

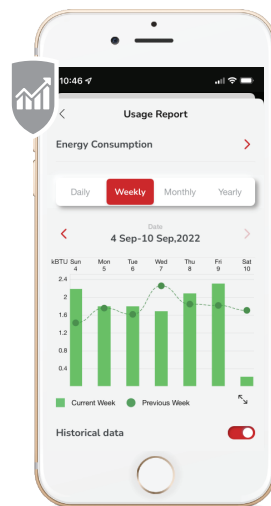
Mobile Alerts

The unit notifies the homeowner immediately of leaks and service needs through the EcoNet App³.



Total Control

The EcoNet App allows homeowners to check hot water availability, adjust the temperature or turn on a recirculation pump accessory.



Energy Usage Tracking

The homeowner can view weekly, monthly and yearly energy usage reports to better manage consumption³.

NOTE: EcoNet App subject to change without notice.

Smart Protection

PREMIUM MODELS

Leak Detection

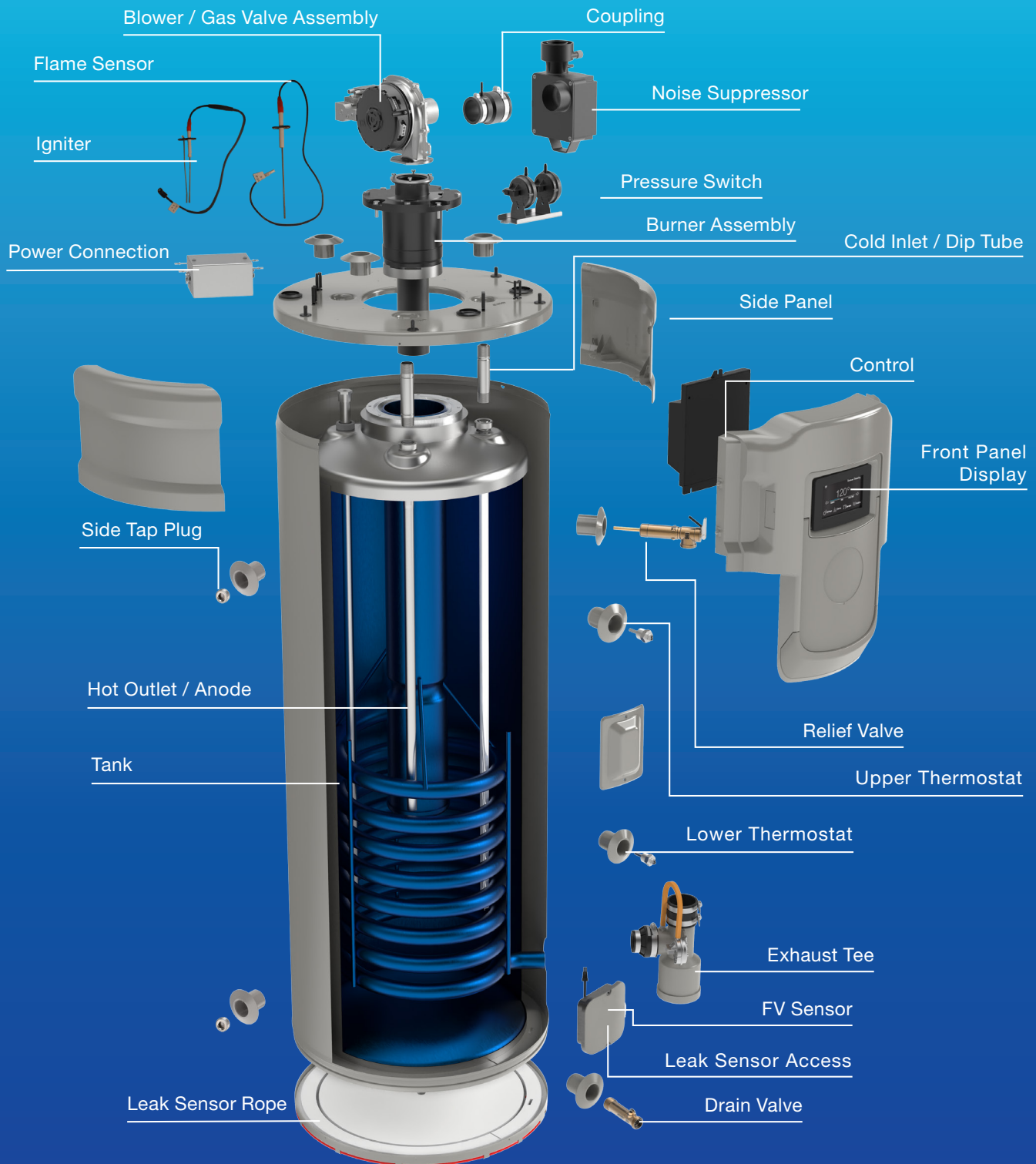
The Friedrich H-Series Gas Water Heater was designed with homeowner comfort and safety in mind. It features LeakSense™ leak detection system that detects any leak—large or small, internal or external—in less than 15 seconds⁶ and alerts the homeowner through the EcoNet App and on-unit display.

Add Leak Prevention

When you add a LeakGuard™ Auto Water Shut-off Valve Kit (Part SP21172), the unit can stop leaks before they become a problem. LeakGuard protects your homeowners' belongings by limiting leaks to no more than 20 ounces¹².



Built to be better for the Homeowner—and You



Friedrich® H-Series™ Super High Efficiency Gas Water Heater with LeakSense™ Specifications

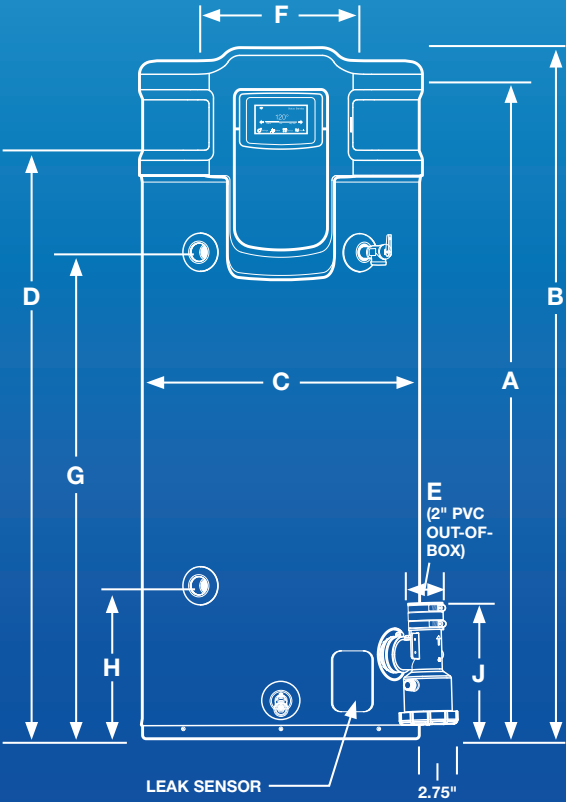
DESCRIPTION				FEATURES								ROUGHING IN DIMENSIONS (SHOWN IN INCHES)												ENERGY INFO.
T Y P E	NOMINAL GALLON CAP.	RATED GALLON CAP.	MODEL NUMBER	GAS INPUT IN THOUS. BTU/H		RECOVERY IN G.P.H. 90° F RISE		FIRST HR. RATING (GALLONS)		MAXMODE™ DELIVERY (GALLONS)		HEIGHT TO INTAKE A	OVERALL UNIT HEIGHT B	DIAM. C	HT. TO GAS CONN. D	VENT SIZE E	WATER CONN. CENTER F	HT. TO SIDE TAP HOT G	HT. TO SIDE TAP COLD H	HT. TO EXHAUST J	WATER CONN. SIZE	SHIP WT. (LBS)	UNIFORM ENERGY FACTOR (UEF)	
				NAT.	LP	NAT.	LP	NAT.	LP	NAT.	LP													
Tall	40	40	12PROG 40-50U FD HE EC3	50	-	64	-	88	-	101	-	54-1/4	54-1/2	21-3/4	50-1/4	2", 3", 4", 2" or 3" Flex	8	38	12	10	3/4	221	0.90	
Tall	40	40	12PROG 40-50P FD HE EC3	-	50	-	64	-	88	-	101	54-1/4	54-1/2	21-3/4	50-1/4	2", 3", 4", 2" or 3" Flex	8	38	12	10	3/4	221	0.90	
Tall	50	50	12PROG 50-50U FD HE EC3	50	-	64	-	95	-	109	-	64-1/4	65-1/2	21-3/4	61	2", 3", 4", 2" or 3" Flex	8	48	12	10	3/4	247	0.88	
Tall	50	50	12PROG 50-50P FD HE EC3	-	50	-	64	-	95	-	109	64-1/4	65-1/2	21-3/4	61	2", 3", 4", 2" or 3" Flex	8	48	12	10	3/4	247	0.88	
Tall	50	50	12PROG 50-76U FD HE EC3	76	-	97	-	136	-	156	-	64-1/4	65-1/2	21-3/4	61	2", 3", 4", 2" or 3" Flex	8	48	12	10	3/4	256	0.89	
Tall	50	50	12PROG 50-76P FD HE EC3	-	76	-	97	-	136	-	156	64-1/4	65-1/2	21-3/4	61	2", 3", 4", 2" or 3" Flex	8	48	12	10	3/4	256	0.89	
Tall	50	50	12PROG 50-100U FD HE EC3	100	-	128	-	167	-	192	-	64-1/4	65-1/2	21-3/4	61	2", 3", 4", 2" or 3" Flex	8	48	12	10	3/4	256	0.89	
Tall	50	50	12PROG 50-100P FD HE EC3	-	100	-	128	-	167	-	192	64-1/4	65-1/2	21-3/4	61	2", 3", 4", 2" or 3" Flex	8	48	12	10	3/4	256	0.89	
Tall	75	75	12PROG 75-100U FD HE EC3	100	-	129	-	167	-	198	-	62-5/8	64-1/2	26-1/4	60-1/8	2", 3", 4", 2" or 3" Flex	12	47	12	9	3/4	332	0.88	
Tall	75	75	12PROG 75-100P FD HE EC3	-	100	-	129	-	167	-	198	62-5/8	64-1/2	26-1/4	60-1/8	2", 3", 4", 2" or 3" Flex	12	47	12	9	3/4	332	0.88	

Uniform Energy Factor and rated gallon capacity based on Department of Energy (DOE) requirements. All units have integrated Wi-Fi control board.



Contact Us
Customer Service, Warranty and Parts: 800-621-5622
Technical Service: 800-HEATER3 (800-432-8373)
EcoNet® Support: 800-255-2388
Plumber Support Group: 866-339-2388

LEARN MORE
Friedrich.com/WaterHeating



¹Comparison of a 40 and 50-gallon Friedrich H-Series Gas Water Heater to a standard atmospheric gas tank of like capacity with minimum efficiency. ²Recovery comparison of Friedrich H-Series Gas Water Heater to atmospheric and PV/conventional vent gas tanks. ³Wi-Fi broadband connection and EcoNet App required; connection between water heater and app are dependent on external factors beyond our control. ⁴Comparison of the First Hour Rating of a 50-gallon Friedrich H-Series Gas Water Heater to first hour rating of a standard 50-gallon gas water heater. ⁵Based on 2 GPM shower flow of hot water at 70°F inlet water temperature and 140° F tank water set point temperature. ⁶Water leaks from the heater only, as tested across scenarios including a minimum of 5.5mL/hr volume leak rate, using most common installation scenarios. Time starts when leak begins and ends when sensor alarm is triggered. ⁷Based on AOC (annual operating cost) comparison of 40 and 50-gallon Friedrich H-Series Gas Water Heater to standard gas water heaters of like capacity with minimum efficiency. ⁸Comparison of Friedrich H-Series Gas Water Heater to a standard atmospheric gas water heater, not to exceed 75,000 BTUs. ⁹Applies to models with a recirculation pump installed only. Recirculation pump sold separately. Claim based on recirculation pump that runs 24/7 with no controls or smart features, for a period of one year. ¹⁰Comparison of Friedrich H-Series Gas Water Heater first hour rating in normal mode to Friedrich H-Series Gas Water Heater first hour rating in MaxMode™. ¹¹GPM varies by model and inlet water and tank water set point temperature. ¹²Applies to models with auto shut-off valve installed only. Testing under a vacuum lock using 50-gallon tank, no expansion tank, average tank pressure of 40 psi, assuming no additional faucets are opened.

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