

HEATING 🚅 COOLING 💥 WATER HEATING

DESIGNING FOR ZETZO WASTE









DEGIZEES OF LUNOVATION

We are focused on innovating with intent, engineering solutions with lifetime sustainability in mind—from material selection to smart features to responsible recycling.

Our 2025 goal: Launch a line of heating, cooling and water heating products that boast a 50% reduction in greenhouse gas footprint.

DEGREES OF EPPICIENCY

We strive for operational excellence, working smarter and more sustainably to consume fewer resources, generate less waste and ensure simpler, safer processes.

Our 2025 goal: Reduce greenhouse gas emissions by 50% and achieve zero waste to landfill in our global manufacturing operations.

DEGIZEES OF LEADETZSHIP

We hire and inspire our teams to be nextgeneration thinkers and responsible stewards of our industry, the greater community and the environment.

Our 2025 goal: Pheem will train 250,000 plumbers and contractors on sustainable products or sustainable installation and recycling best practices.



Why Care About Heat Pump Water Heating?



Water Heating is the

2nd Highest
Energy User In The Home

HPWH are THE MOST
efficient way to heat
water...only technology over
100% eff.



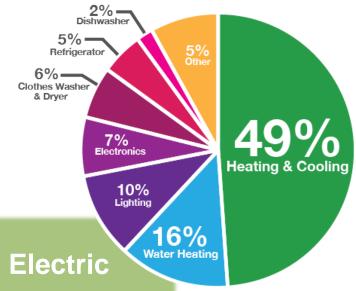
Save up to **\$480** per year with a ProTerra *Prestige*[®] Series Hybrid Electric Water Heater

The Rheem Difference

Ameren

Rheem is the only company who can help a homeowner control 65% of their home's energy usage.

Water Heating is the **2nd Highest**Energy User In The House



Professional *Prestige*® ProTerra Hybrid Electric with LeakGuard™





How Heat Pump Technology Works



Continuing to Lead...





Introducing PROTERRA

Rheem® is proud to continue paving the way the for Hybrid Water Heaters by introducing the industry's most efficient, advanced, and widest line of solutions available!

- Smart
- Sustainable
- Savings

The ProTerra Advantage





LeakGuard Auto Shutoff





LeakSense Leak Detection



Integrated EcoNet WiFi



Remote Control



Compressor & Element Health Indicator



Hot Water Availability

The ProTerra Advantage







Highest Efficiency



Carbon Footprint Reduction



Energy Usage Tracking



Energy Star® Rated

The ProTerra Advantage







Save Money & Energy



Energy Saving Schedule (TOU)



Built-in Demand Response



Vacation/Away Mode

Rheem ProTerra

ILLINOIS

40, 50, 65, and 80 Gallon Capacities

HYBRID BUILDER

- NEW! 40, 50, 65, 80 Gallon Capacities
- Remote Access (Integrated Wi-Fi)
- Zero Clearance Requirement
- Widest Range of **Ambient Temp**
- Less Than Twoyear Payback
- **Meets NEEA Tier**
- Leak Detection Ready



PROTERRA

In addition to the Builder model features. this model includes...

- Up to 4.00 UEF
- **Demand Response** Ready (CTA 2045)
- Quietest (<50 dBA)
- **Automatic** Maintenance Alert
- \$4,800 Energy **Cost Savings**
- Leak Detection and Shutoff Valve Ready
- Meets NEEA Tier 4





- Auto Water Shutoff Valve (LeakGuard)
- Integrated 360° Water Leak Detection (LeakSense)



Pro Tip: When running recirculation with the hybrid, it is recommended to run in high demand mode for best results.

ProTerra Sizing Reference



40 Gallon

Delivers 3 hot 8-minute showers back to back



50 Gallon

Delivers 4 hot 8-minute showers back to back



65 Gallon

Delivers 5 hot 8-minute showers back to back



80 Gallon

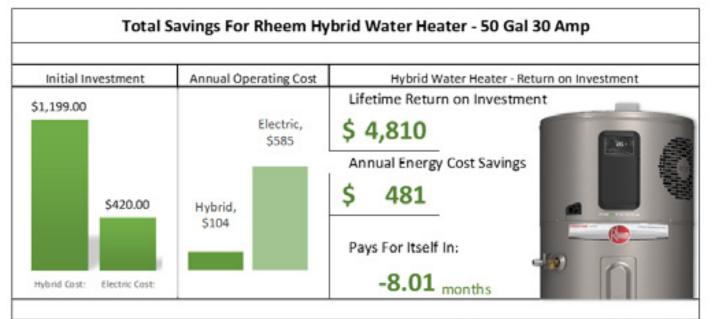
Delivers 6 hot 8-minute showers back to back





Pro-Terra vs N2 Standard Electric ROI Calculator





kw/h Cost:	\$	0.12
Local/Gov't Rebate:	\$	800.00
Hybrid Cost:	\$	1,199.00
Electric Cost:	\$	420.00
Tax Credit	5	300.00

\$300 Federal Tax Credit

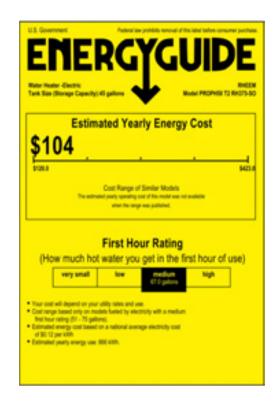
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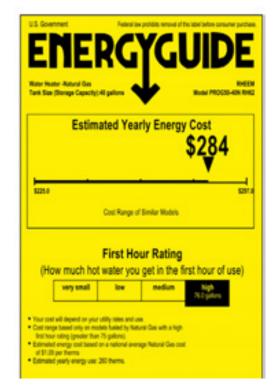














Messaging

Plumbers



Smart



 Water heater alerts help homeowners know when to call, turning potential emergencies into proactive service calls

Sustainable



 Most efficient water heater on the market with a UEF rating of up to 4.0

Savings



 Pays for itself in less than 2 years

Designed for Plumbers



 Fits in tight spaces with no clearance requirement and all service components on the front

Homeowners



Smart



- Receive important information through alerts and notifications that can protect your home from potential water damage
- Demand Response
 Scheduling: Homeowners can
 save up to \$400 over the life
 of the heater

Sustainable



- Rheem® ProTerra™ Hybrid uses heat extracted from the air to heat water, so there's no need to choose between sustainability goals and enjoying hot water
- Reduced carbon footprint minimizing your impact on the environment

Savings



 Most efficient product on the market, saving up to \$480 per year in energy cost

Builders



Smart



 Smart features built into a space saving design for closet installs, maximizing living space

Sustainable



 Designed to maximize HERS and EDR and energy ratings without compromising comfort

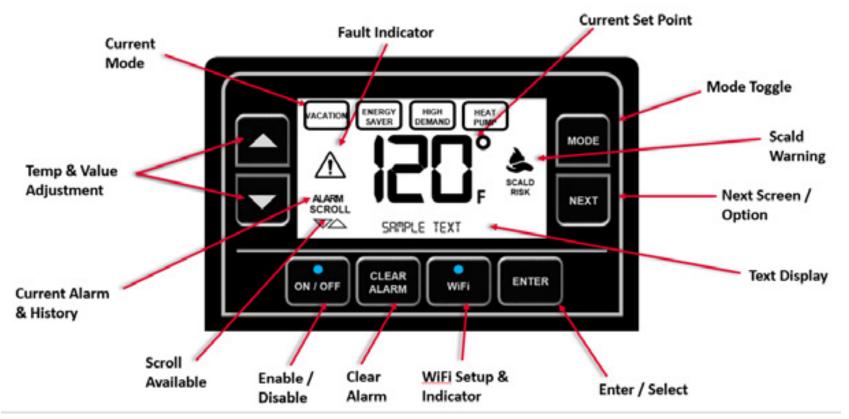
Savings



 Most efficient product on the market saving homeowners up to \$480 per year in energy cost

User Interface





Modes Of Operation





ENERGY SAVER (default mode)

 A recovery using the heat pump an element will apply 5730W (4500@240V+1230W) to the water at standard ambient conditions

HEAT PUMP

- Delivers 1230W to the water at standard ambient conditions
- Operating temperature of 37° 145°



HIGH DEMAND

Upper element and heat pump heat the water



ELECTRIC

Either element is used to heat the water



VACATION

Tank temperature will be maintained at 65° for 1-28 days or held indefinitely when "HOLD" feature is used

Modes of Operation



Mode	Efficiency	Recovery
Electric (Elements Only)	Very Low	Fast
High Demand (Heat Pump & Elements)	Medium	Very Fast
Energy Saver (Heat Pump & Elements based on algorithm)	High	Fast
Heat Pump (Heat Pump Only)	High	Slow

Key Components Changes



Key Components Changes





Must purchase duct adapters (when needed) for all new units

- All new re-designed display
- Easy to use controls for easy adjustment and troubleshooting



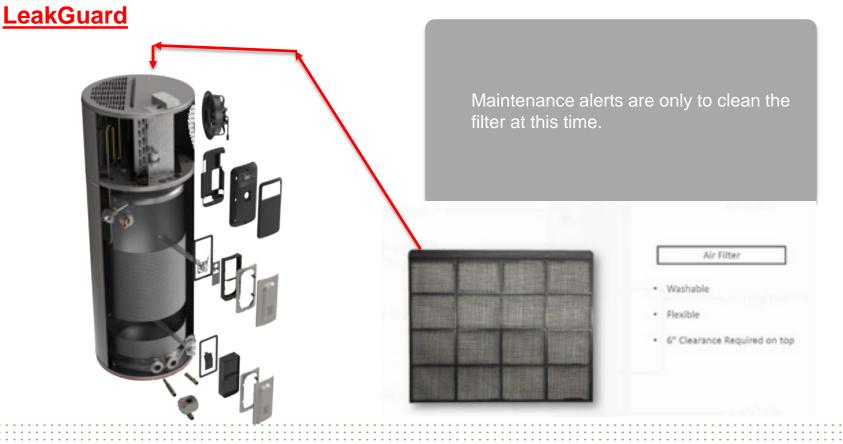
Pro Tip: We still have the additional leak sensor (condensate sensor) in the evaporator drain pan. The heat shrink on it has been extended to help prevent false positives like we had with Gen 4.

Hybrid Builder

ProTerra

ProTerra w/





ProTerra

ProTerra w/ LeakGuard





LeakSense Leak Detection



- Integrated Leak Detection*
- 360° Leak Detection*
- Detects any water leak large or small, internal or external



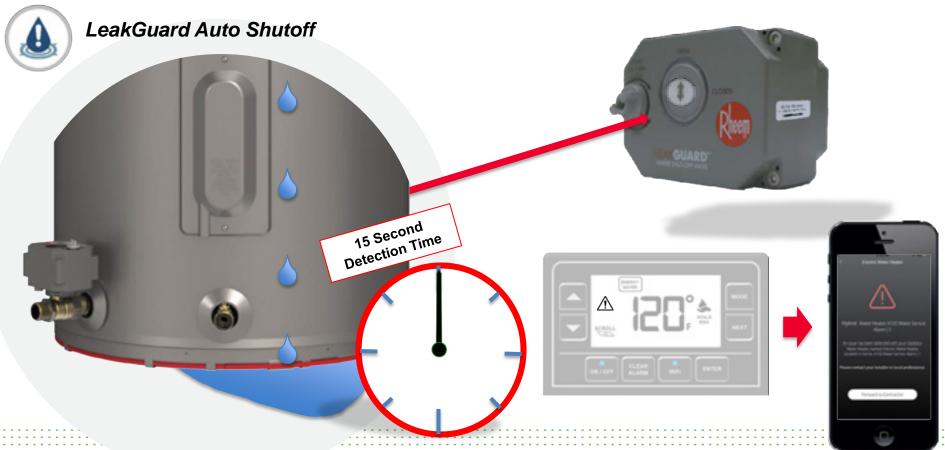
Pro Tip: If there is an accidental spill - press the "clear alarm" button on the UI. This will override and silence the alarm for 24 hours.

Hybrid Builder

ProTerra

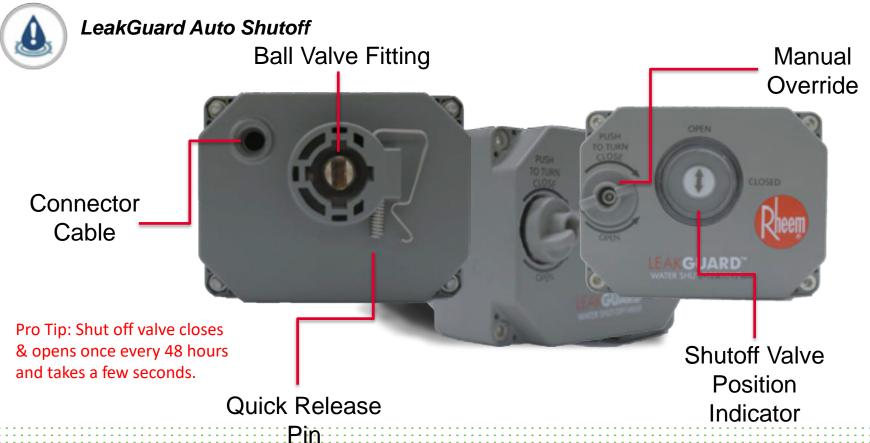
ProTerra w/LeakGuard





ProTerra w/LeakGuard





What Stayed the Same





208/240V 30 and 15Amp



Can Be Transported
On Its Side



Can Be Placed Against a Wall*



100% Plumber Serviceable

ProTerra Model Line Up



Every unit has a leak sensor (condensate management) built in from the factory next to the heat

pump.

Hybrid Builder

	Builder Models	Rheem*	Rood*	
30 Amp				
	40 Gallon	PRO H40 T2 RH3108M	PRO H40 T2 RU3108M	
	50 Gallon	PRO H50 T2 RH3108M	PRO H50 T2 RU3108M	
	65 Gallon	PRO H65 T2 RH3108M	PRO H65 T2 RU3108M	
	80 Gallion	PRO H80 T2 RH3108M	PRO H80 T2 RU3108M	



ProTerra

Plus Models	Rheem® Prestige® (Wholesale)	Ruud* Ultra** (Wholesale)	
Атр			
40 Gallon	PROPH40 T2 RH375-30	PROUH40 T2 RU375-30	
50 Gallon	PROPHS0 T2 RH375-30	PROUHS0 T2 RU375-30	
65 Gallon	PROPH65 T2 RH375-30	PROUH65 T2 RU375-30	
80 Gallon	PROPH80 T2 RH375-30 PROUH80 T2 RU375-		
5 Amp		754	
40 Gallon	PROPH40 T2 RH375-15	PROUH40 T2 RU375-15	
50 Gallon	PROPHSO T2 RH375-15	PROUH50 T2 RU375-15	
65 Gallon	PROPH65 T2 RH375-15	PROUH65 T2 RU375-15	
80 Gallon	PROPH80 T2 RH375-15	PROUH80 T2 RU375-15	

Part Number	Kit
SP21111	Leak Sensor & Shutoff Valve



ProTerra w/LeakGuard

Premium Models	Rheem* Prestige* (Wholesale)	Ruud* Ultra'* (Wholesale)
10 Amp w/ Leak Sens	or & Auto Shut-Off	
40 Gallion	PROPH40 T2 RH375-50	PROUH40 T2 RU375-50
50 Gallon	PROPH50 T2 RH375-50	PROUH50 T2 RU375-50
65 Gallon	PROPH65 T2 RH375-50	PROUH65 T2 RU375-50
80 Gallon	PROPH80 T2 RH375-50	PROUH80 T2 RU375-50

✓Integrated 360° Water Leak Detection (LeakSense)

✓Auto Water Shut-off Valve (LeakGuard)









How to Connect



1. Press and hold the "WiFi" button for 5 seconds to put heater into pairing mode.

*during this time, the blue indicator light will flash

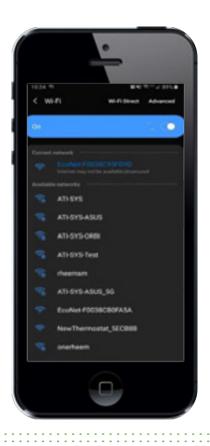


2. Once in pairing mode, completed the WiFi setup on mobile device.

Once connected, the WiFi light on the unit will turn solid blue.

EcoNet App Provisioning





Download EcoNet app and create profile

Add product

Add location

Ensure product is ready to connect

Connect to EcoNet network (broadcasted by product)



EcoNet App Provisioning





Tap Available Networks to find home network

Connect to home network

Wait for product to establish connect

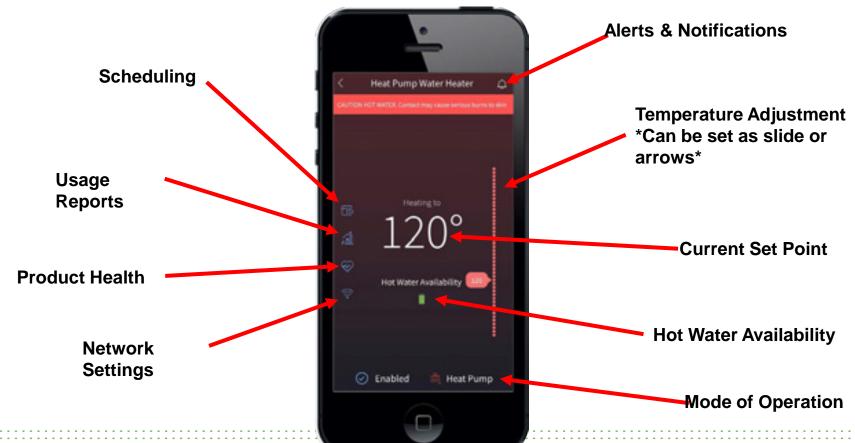
"Internet Connected" will be displayed upon successful connection

Once connected, product home screen will be displayed



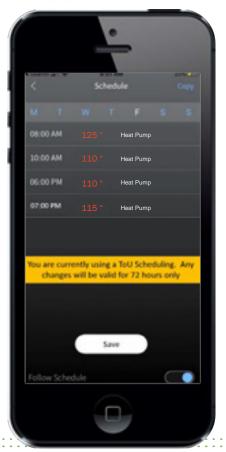
EcoNet App Navigation





EcoNet App - Scheduling





The scheduling feature allows users to program the water heater to their desired temperature each day (using up to four different time blocks).

This scheduling feature helps to conserve energy by reducing the set point of the water.

EcoNet App – Usage Reports





Usage reports give the user ability to see amount of energy (kWH) used in weekly, monthly, or yearly readouts.

EcoNet App – Product Health





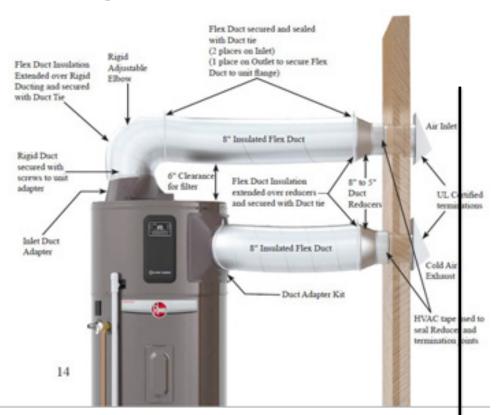
Product health will display the element health and the compressor health.



Physical Installation

Ducting





Using flexible 8" diameter duct, the maximum duct length allowed is 125'.

Be sure to account for duct accessories (see table below)

Description	8"	7**	6"	5"
Elbows/Flexible Bends (Each) [Maximum Allowed]	5° [8]	5'	9	5
8 inch UL Certified Termination for ducting outside (Each)	5	57	9	5
Reduced diameter UL Certified Termination for ducting outside (Each)	N/A	10"	15	201
8 inch Register for ducting inside (Each)	5	5	9	5
Reduced diameter Register for ducting inside (Each)	N/A	107	15"	20
Rodest Screen (most be greater than 83% open area) (Each)	r	T	1'	1"
Rheem approved 8" dismeter Duct Dumper	25	207	10"	5

Accessory Kits











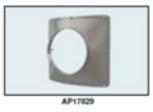


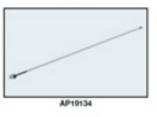




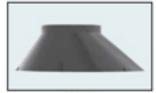












AP21365

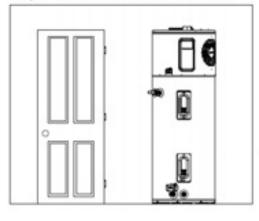
Installation with No Ducting



Option 1:

Heater: Not Ducted

Room size: Larger than 700 ft³ (e.g. 7' x 10' x 10'). Requirements: No additional ventilation needed.



Option 2:

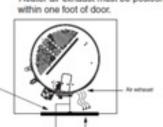
Heater: Not ducted

Room: Small Closet

Requirements: * Air gap under door equal to 18 in² (0.75" clearance).

* Louver must be located the same height on door as the air exhaust on heater.

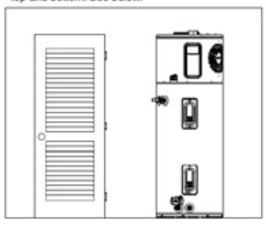
 Heater air exhaust must be positioned towards louver within one foot of door.



Option 3:

Heater: Not Ducted

Room size: Smaller than 700 ft³ (e.g. 7' x 10' x 10'). Requirements: Full louvered door OR two louvers top and bottom. See below.



Recap/Questions?



SMART

SUSTAINABLE

SAVINGS

The Rheem Hybrid Wins:

- Highest Efficiency
- Quietest
- Zero Clearance
- Connectivity
- Leak Detection/Prevention
- Recovery
- 10 year Warranty



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QUESTIONS?



AmerenIllinoisSavings.com