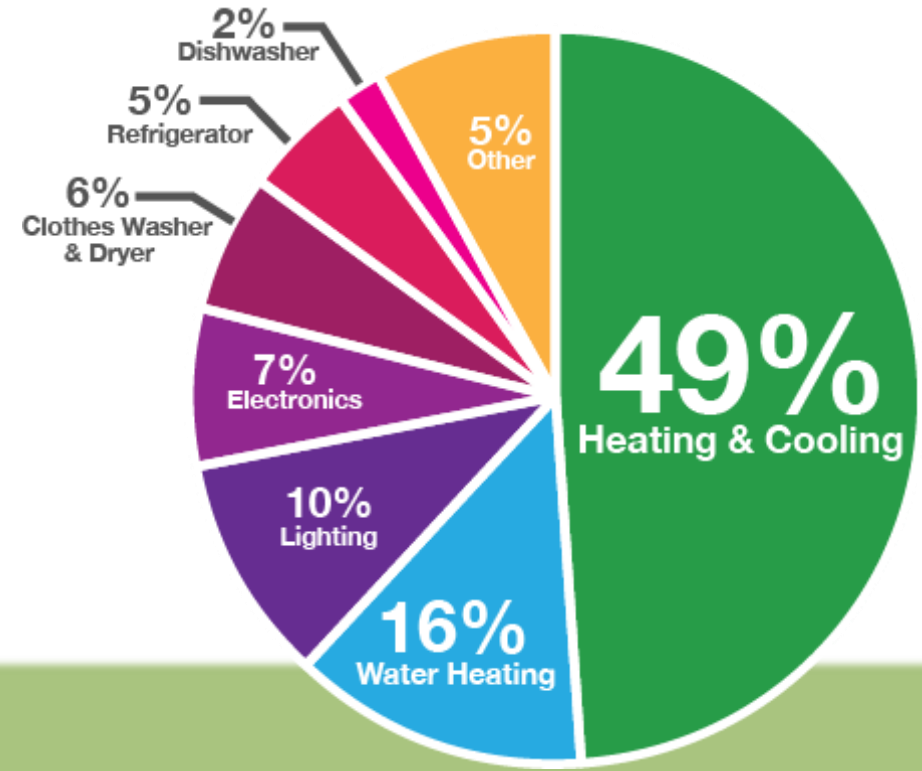


Rheem is the only company who can help a homeowner control 65% of their home's energy usage.

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



Professional *Prestige*[®] ProTerra Hybrid Electric with LeakGuard[™]





The new degree of comfort.®





**At Rheem,
we believe in going
beyond the expected and
striving for what's possible.
It's how we've run our business and
designed our air and water products
for nearly 100 years—becoming a
trusted leader for our customers and
partners
across the globe.**



**Early 1900 Ruud
Water Heater**





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



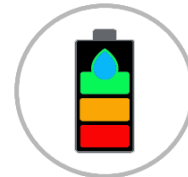
Integrated EcoNet WiFi



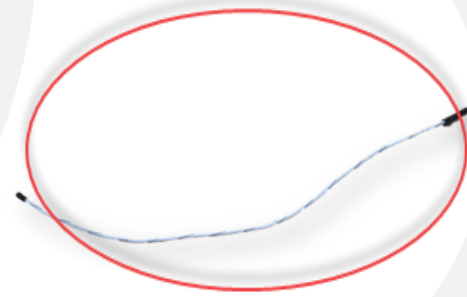
Remote Control



Compressor & Element Health Indicator

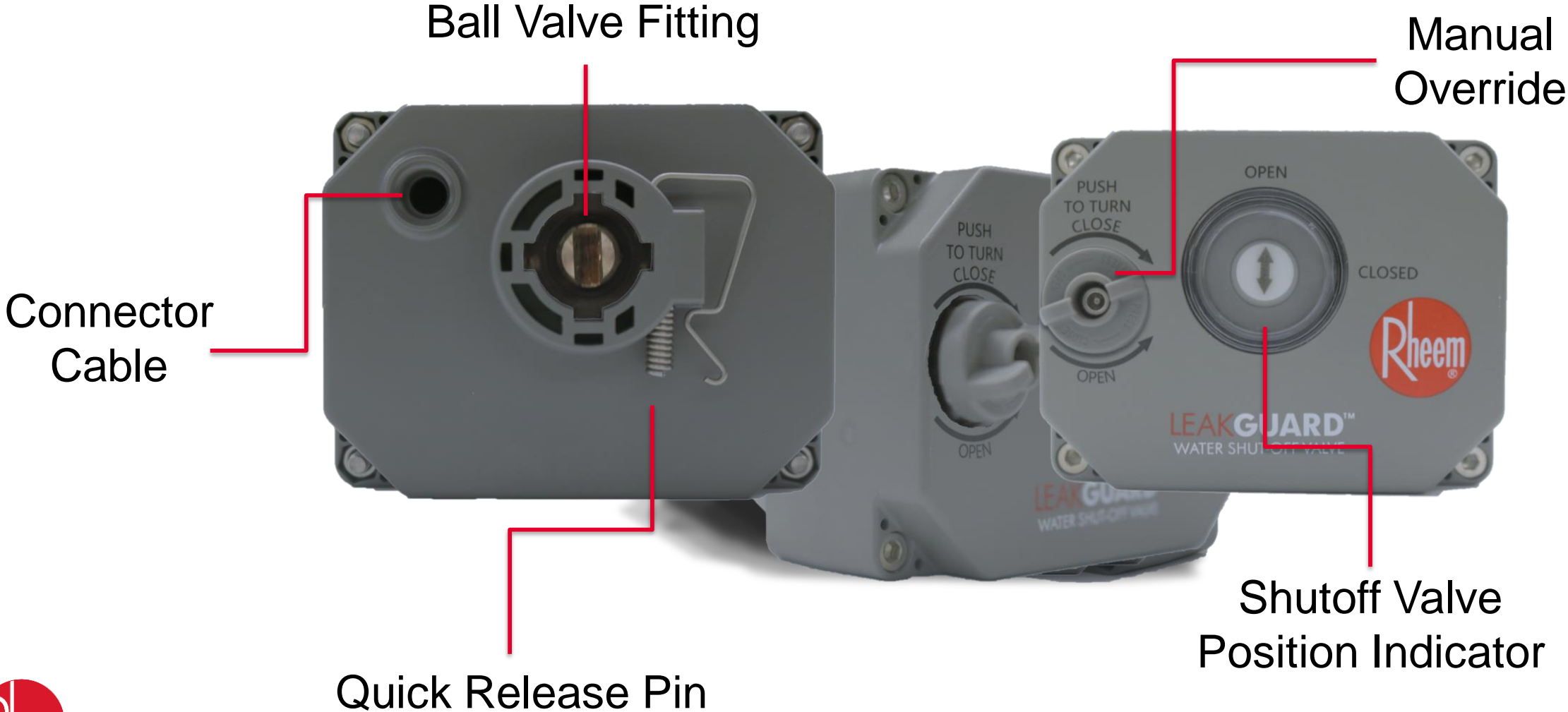


Hot Water Availability



- Integrated leak detection cable behind lower cavity cover
- Absorbent leak detection wick around base of unit provides 360° protection

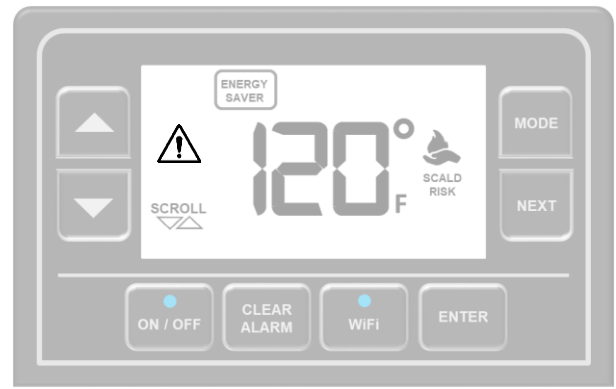
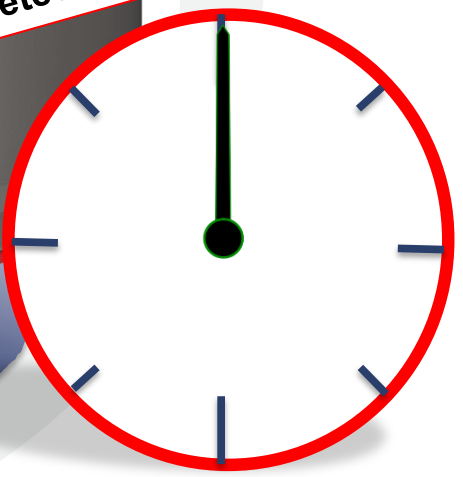
*Integrated leak detection available on Proterra with LeakGuard models only



How Does It Work



**15 Second
Detection Time**

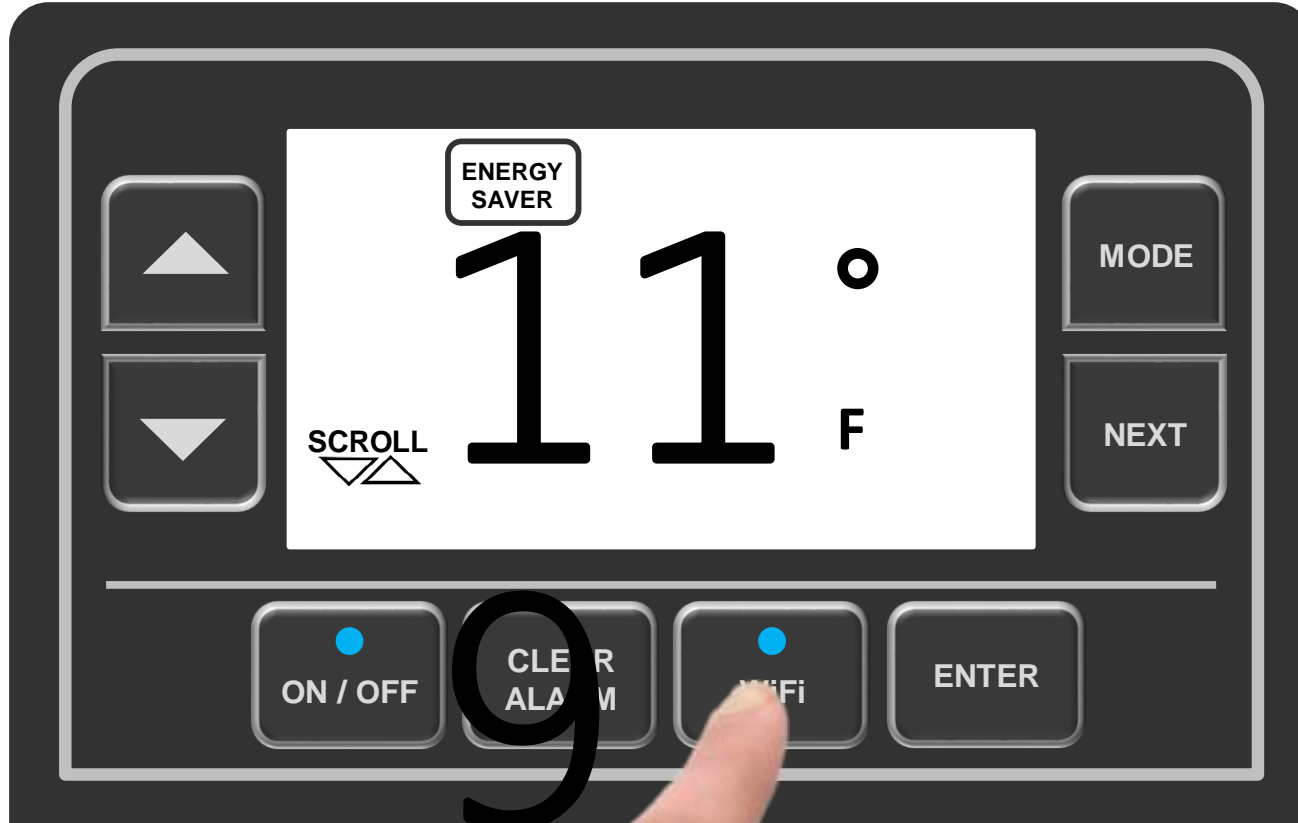


HOW TO CONNECT



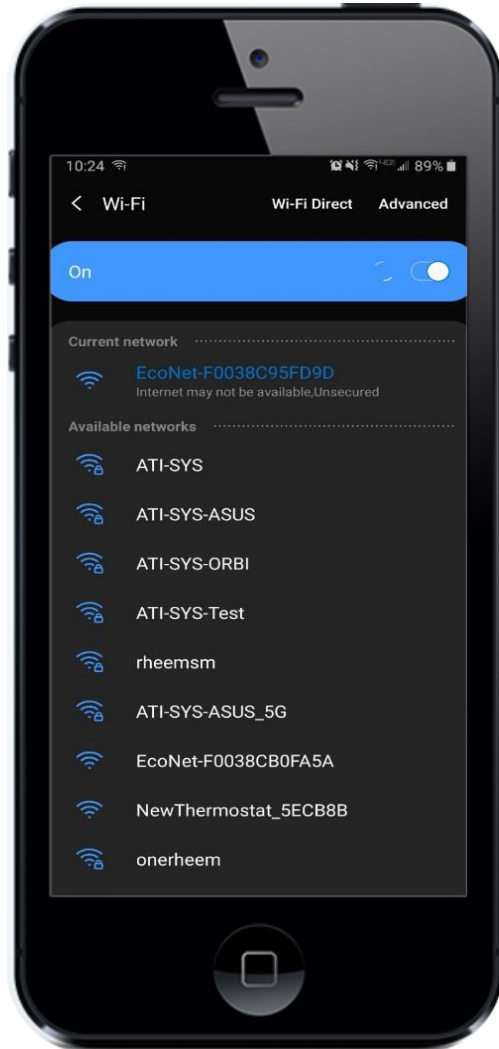
How to Connect

- 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





- Download EcoNet app and create profile
- Add Product
- Add Location
- Ensure Product is Ready to Connect
- Connect to EcoNet network (broadcasted by product)





- 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



The ProTerra Advantage



SUSTAINABLE



Highest Efficiency



Carbon Footprint Reduction



Energy Usage Tracking



Energy Star® Rated

The ProTerra Advantage – Carbon Footprint Reduction



**Reduces
carbon footprint
with a 75%
reduction in
energy use**

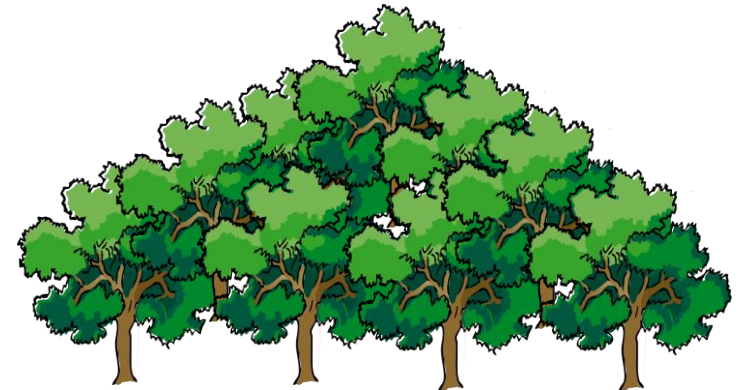
ProTerra 50 gallon hybrid water
heater total carbon emissions: 846
CO₂ lbs per year

WHAT DOES THAT MEAN???



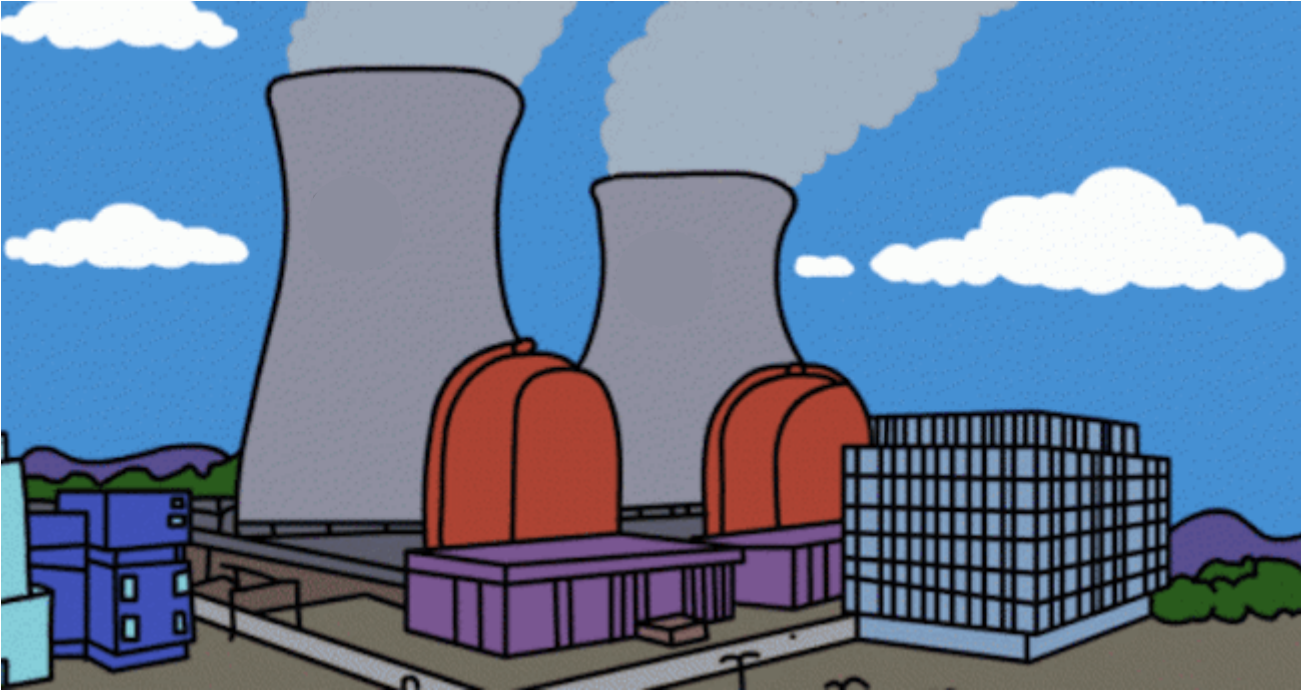
Standard Electric 50 gallon water
heater has a total carbon emission of
3486 CO₂ lbs per year

**202 trees needed to offset
the carbon emissions***



*((Std Electric total carbon emissions (3486)) – Proterra 50 gallon carbon emissions (846) / CO₂ stored from tree (13)) = trees needed (3486 – 864)/13

Carbon Emissions From The Production of Electricity



Power station generating electricity

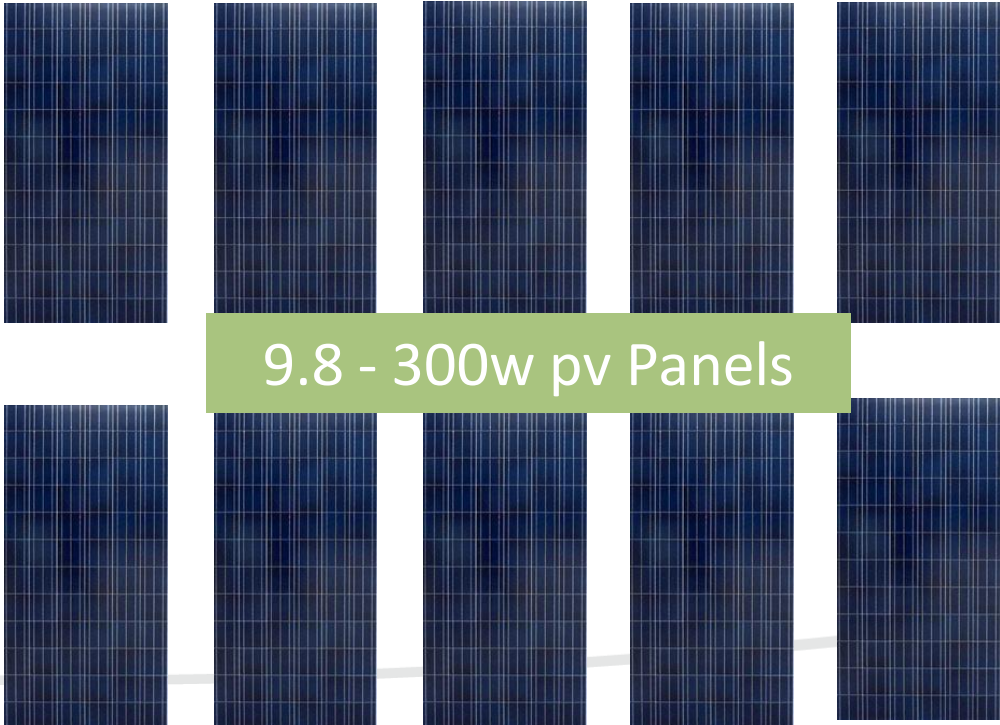
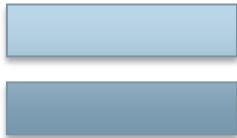
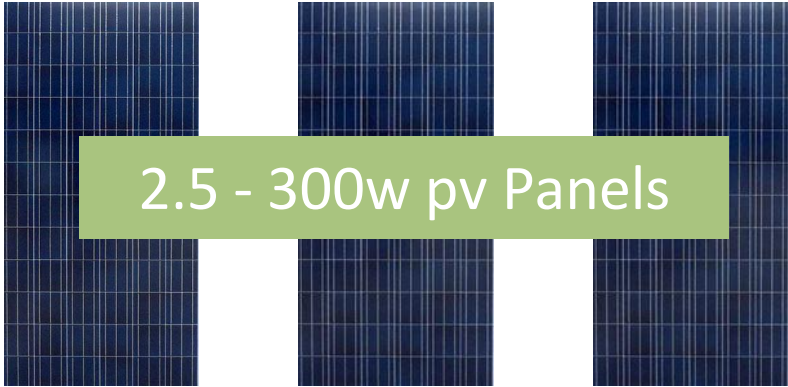
=



Carbon emissions



Value Proposition With Solar



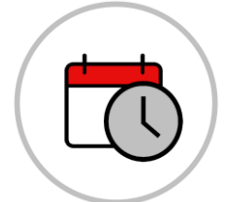
The ProTerra Advantage



SAVINGS



Save Money & Energy



Energy Saving Schedule



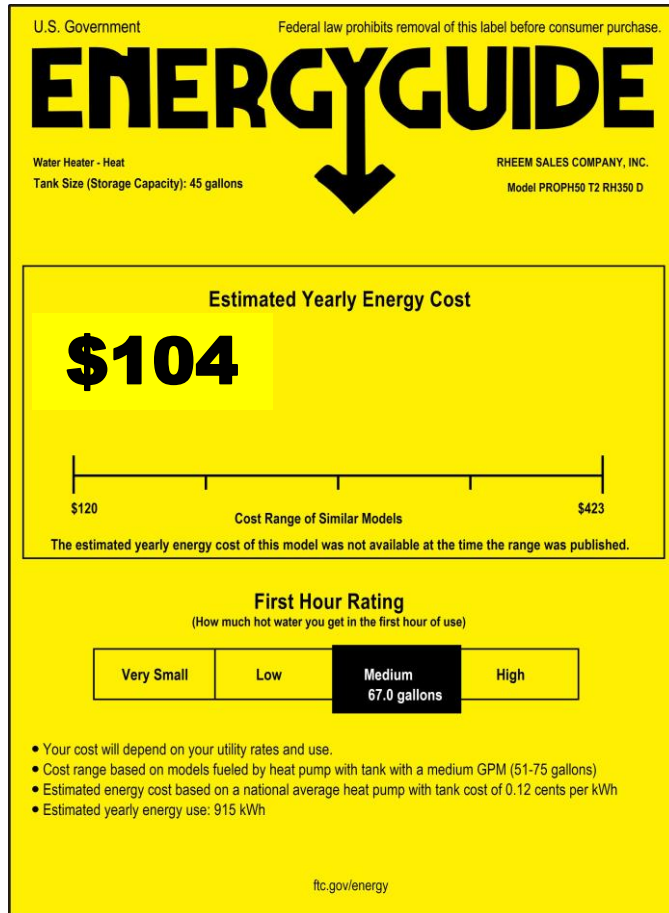
Built-in Demand Response



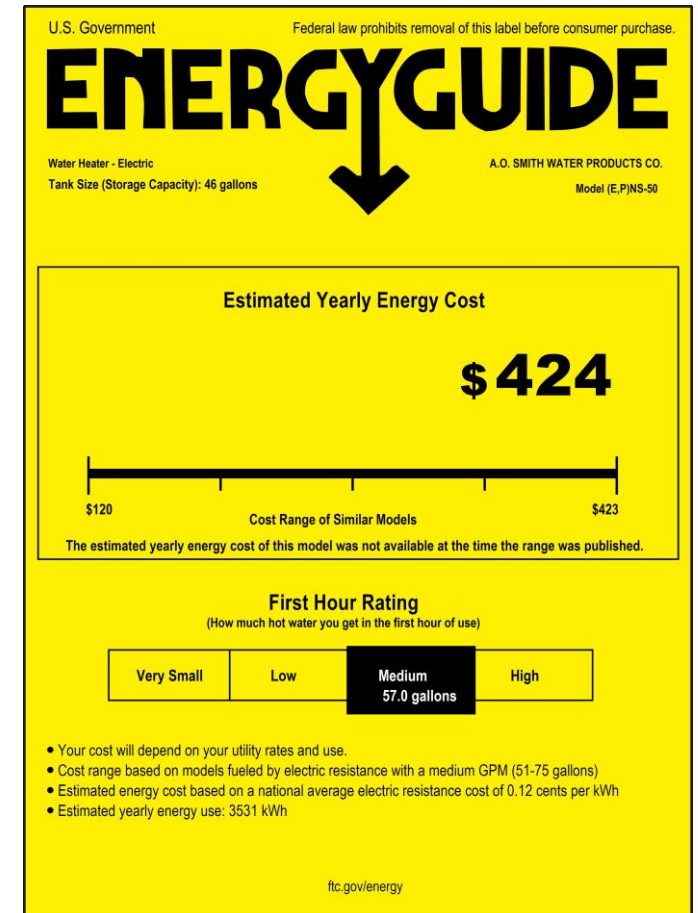
Vacation/Away Mode

Over 75% Reduction In Energy Usage

867 kWh per Year



3,531 kWh per Year



80gal HPWH vs Propane

U.S. Government Federal law prohibits removal of this label before consumer purchase.

ENERGYGUIDE

Water Heater - Heat
Tank Size (Storage Capacity): 72 gallons

RHEEM SALES COMPANY, INC.
Model PROPH80 T2 RH350 D

Estimated Yearly Energy Cost

\$149

\$191 Cost Range of Similar Models \$252

The estimated yearly energy cost of this model was not available at the time the range was published.

First Hour Rating
(How much hot water you get in the first hour of use)

Very Small	Low	Medium	High 89.0 gallons
------------	-----	--------	-----------------------------

- Your cost will depend on your utility rates and use.
- Cost range based on models fueled by heat pump with tank with a high first hour rating (Greater than 75 gallons)
- Estimated energy cost based on a national average heat pump with tank cost of 0.12 cents per kWh
- Estimated yearly energy use: 1341 kWh

ftc.gov/energy



U.S. Government Federal law prohibits removal of this label before consumer purchase.

ENERGYGUIDE

Water Heater - Propane Gas
Tank Size (Storage Capacity): 48 gallons

A.O. SMITH WATER PRODUCTS CO.
Model (G,X)CRT 50(L) 401

Estimated Yearly Energy Cost

\$732

\$506 Cost Range of Similar Models \$732

First Hour Rating
(How much hot water you get in the first hour of use)

Very Small	Low	Medium	High 89.0 gallons
------------	-----	--------	-----------------------------

- Your cost will depend on your utility rates and use.
- Cost range based on models fueled by propane gas with a high first hour rating (Greater than 75 gallons)
- Estimated energy cost based on a national average propane gas cost of \$2.41 per gallon
- Estimated yearly energy use: 304 gallons

ftc.gov/energy



Payback Story



Hybrid HPWH.....	\$2500
<u>Less Standard WH</u>	<u>\$1500</u>
Cost Difference:	\$1000
Instant rebate:	\$ -500
Federal Tax Credit	\$ -300
<hr/>	
Upgrade price difference:	\$ 200

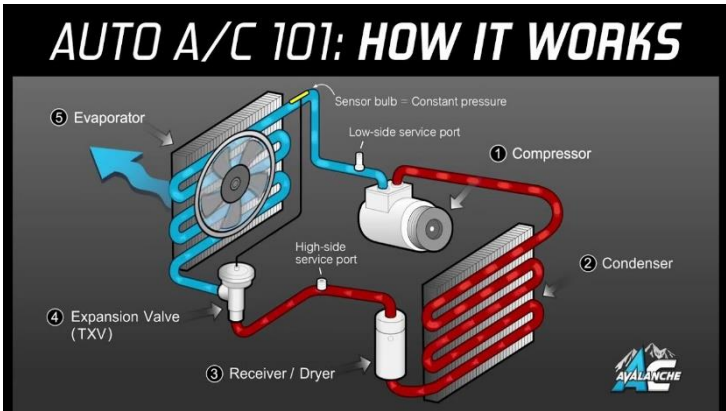
\$300 Energy Savings per year

Pays for itself in less than **8 Months!**

\$2,800 Lifetime Savings!



Sound Familiar?



Key Components



- The ONLY 40 gallon Hybrid Electric Water Heater on the market
- Ensure a replacement for any existing standard tank
- Zero clearance requirement for installation in tight spaces*



**ALL NEW
40 GALLON
MODEL!**



Key Components



- All new re-designed display
- Easy to use controls for easy adjustment
- All new Test Mode for easy diagnostics



New
Controller



MODEL LINE UP / SPECS



What's New With ProTerra

HYBRID BUILDER

- **NEW! 40, 50, 65, 80 Gallon Capacities**
- **Remote Access (Integrated WiFi)**
- **Zero Clearance Requirement**
- **Widest Range of Ambient Temp**
- **Less Than Two-year Payback**
- **Meets NEEA Tier 3**
- **Leak Detection Ready**



PRO TERRA

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**



PRO TERRA W/LEAKGUARD

In addition to the Plus model features, this model includes...

- ✓ **Auto Water Shut-off Valve (LeakGuard)**
- ✓ **Integrated 360° Water Leak Detection (LeakSense)**



LeakSense and LeakGuard Add-on

Hybrid Builder Model Leak detection ready!



Easily upgrade the Builder model with LeakSense Kit



ProTerra Model Leak detection and shutoff valve ready!



Easily upgrade the Plus model with LeakSense / LeakGuard Kit



Part Number	Kit
AP19134	Leak Sensor

Part Number	Kit
SP21111	Leak Sensor and Shutoff Valve



Specifications

Capacity	40 Gallon		50 Gallon		65 Gallon		80 Gallon	
BREAKER SIZE	30A	15A	30A	15A	30A	15A	30A	15A
MODEL NUMBER	PROPH40 T2 RH375-SO	PROPH40 T2 RH345-15	PROPH50 T2 RH375-SO	PROPH50 T2 RH375-15	PROPH65 T2 RH375-SO	PROPH65 T2 RH355-15	PROPH80 T2 RH400-SO	PROPH80 T2 RH370-15
UEF	3.75	3.45	3.75	3.75	3.75	3.55	4.00	3.70
RECOVERY	26	16	27	16	27	16	27	16
FIRST HOUR DELIV	60	46	67	54	75	54	87	67
HEIGHT	63"		62"		65"		75"	
DIAMETER	20 1/4"		22 1/4"		24 1/4"		24 1/4"	
COMPRESSOR BTU	4200		4200		4200		4200	
WEIGHT	177 lbs		193 lbs		262 lbs		281 lbs	
VOLTAGE	240V		240V		240V		240V	
UPPER ELEMENT	4500w	2250W	4500W	2250W	4500W	2250W	4500W	2250W
LOWER ELEMENT	4500W	2250W	4500W	2250W	4500W	2250W	4500W	2250W

Hybrid Builder Model Line Up

Builder Models	Rheem®	Ruud®
30 Amp		
40 Gallon	PRO H40 T2 RH310BM	PRO H40 T2 RU310BM
50 Gallon	PRO H50 T2 RH310BM	PRO H50 T2 RU310BM
65 Gallon	PRO H65 T2 RH310BM	PRO H65 T2 RU310BM
80 Gallon	PRO H80 T2 RH310BM	PRO H80 T2 RU310BM



Modes Of Operation

ENERGY SAVER (default mode)

- A recovery using the heat pump and upper element. Primary recovery with Heat Pump (up to 1,700W equivalent) and element when needed (4,500W). In high output situations, heater is producing the equivalent of up to 6,200W

HEAT PUMP

- Delivers up to 1,700W to the water at standard ambient conditions
- Operating temperature of 37° - 145°

HIGH DEMAND

- Upper/lower element along w/heat pump simultaneously heats the water. Up to 6,200W of recovery. Elements in this mode activate quicker

ELECTRIC

- Either element is used to heat the water

VACATION

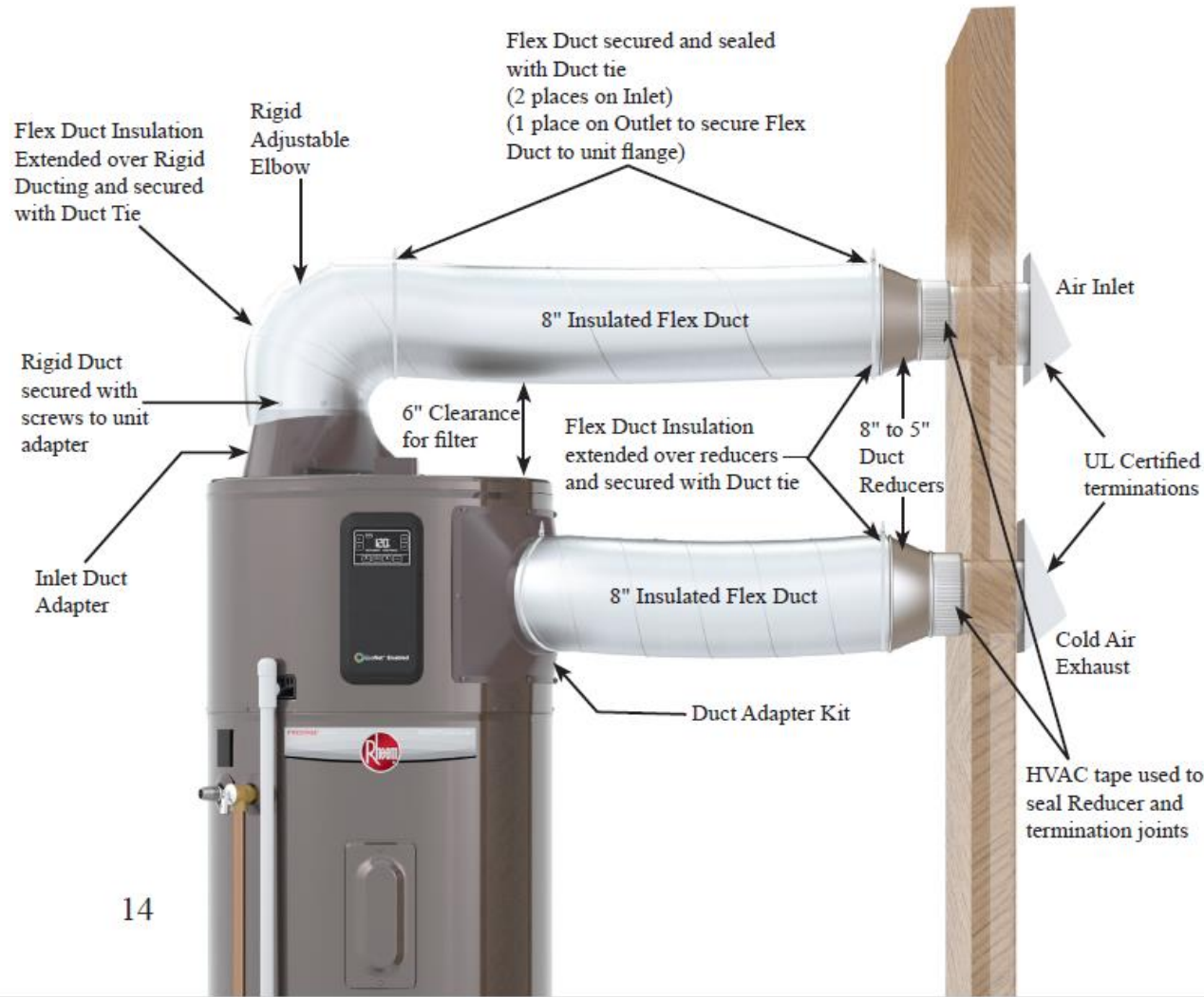
- Tank temperature will be maintained at 65° for 1-28 days or held indefinitely when “HOLD” feature is used



PHYSICAL INSTALLATION



Ducting



14

Maximum Duct Lengths

Duct Type / Diameter	8"	7"	6"	5"
Rigid	340'	160'	65'	17'
Flexible	125'	65'	25'	--

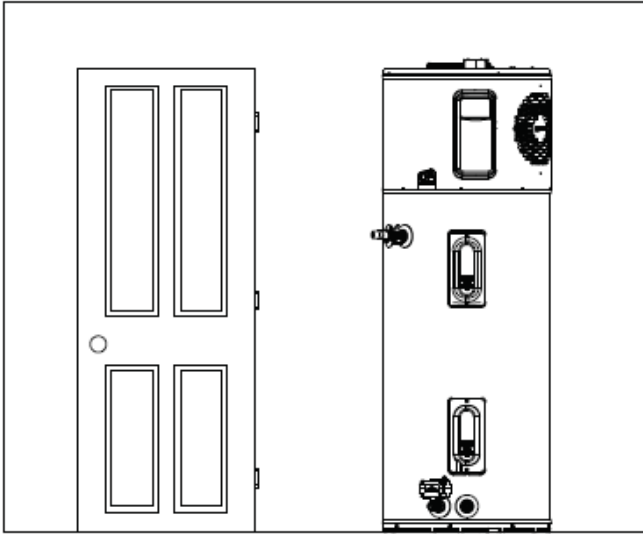


Installation w/No Ducting

Option 1:

Heater: Not Ducted

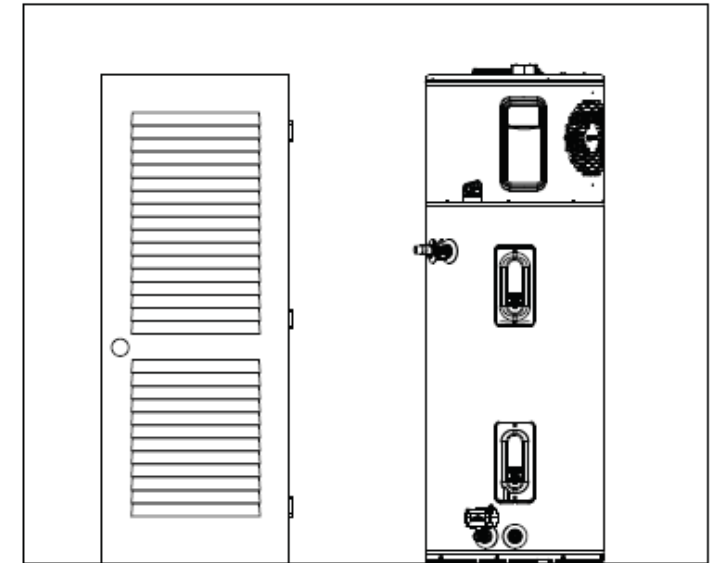
Room size: Larger than 700 ft³ (e.g. 7' x 10' x 10').
Requirements: No additional ventilation needed.



Option 3:

Heater: Not Ducted

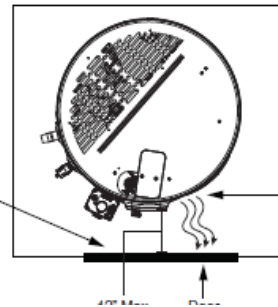
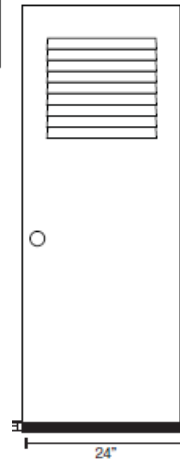
Room size: Smaller than 700 ft³ (e.g. 7' x 10' x 10').
Requirements: Full louvered door OR two louvers top and bottom. See below.



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.



Accessory Kits



SP20882



SP20883



SP20884



SP20885



SP20886



SP20887



SP20888



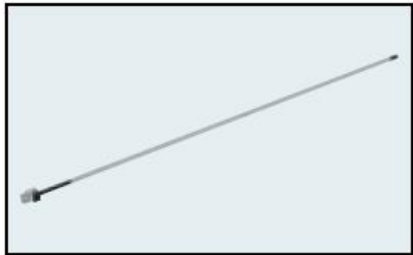
SP20889



SP20890



AP17829



AP19134



AP20180



AP21365

Recap/Questions?

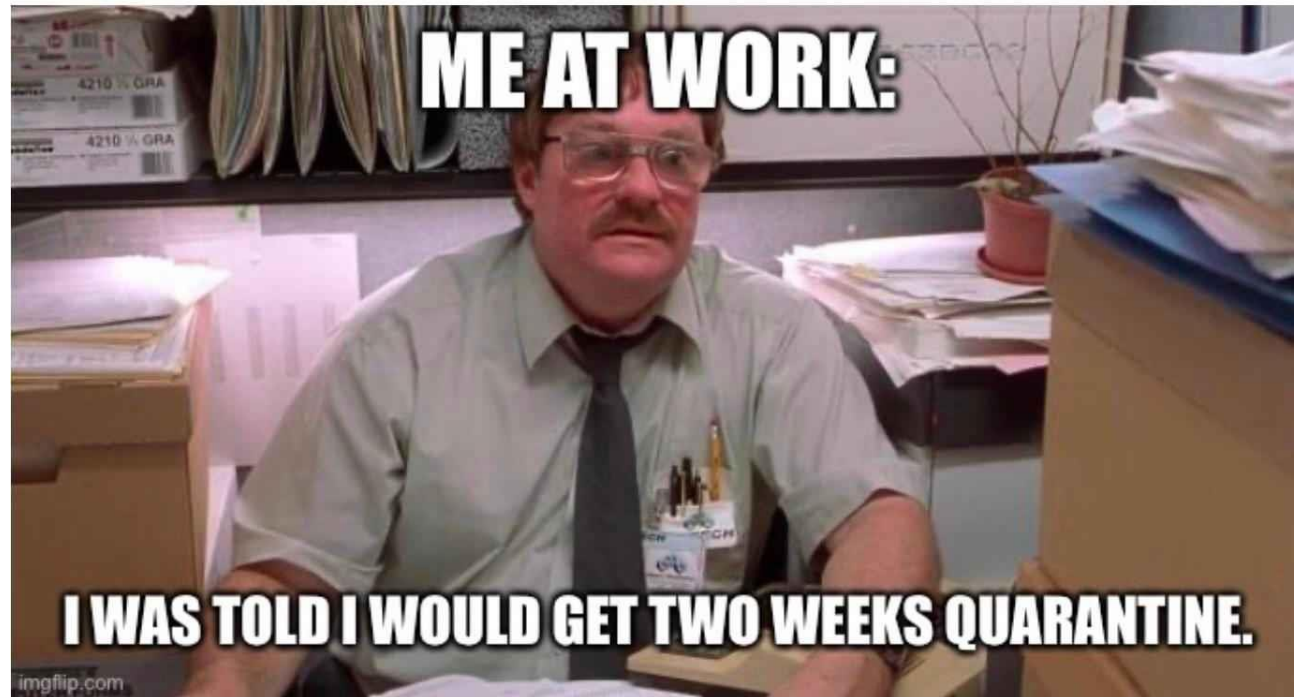
SMART

SUSTAINABLE

SAVINGS

The Rheem Hybrid Wins:

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



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