



Water

Residential Electric
ProTerra Plug-in Heat Pump
(Shared Circuit) Water Heaters

The new degree of comfort®

ProTerra® Plug-in Heat Pump Water Heater with HydroBoost (120V Shared Circuit)

Efficiency

- Up to 3.46 UEF reduces operating cost
- ENERGY STAR® certified
- Title 24 Compliant (JA13 Ready)

Performance

- Delivers hot water more efficiently than most standard electric water heaters
- Ambient operating range: 37-145°F is widest in class, offering more days of HP operation annually; designed to meet Northern Climate Spec (NEEA Tier 2)²
- Integrated HydroBoost mixing valve maximizes output performance

Easy Installation

- Easy access side connections
- Factory installed plug-in power cord – plugs directly into a standard wall outlet
- Easily replaces a standard gas water heater

Integration

- Demand Response Ready – Built-in EcoPort (CTA-2045 Port) allows easy connection to Utility programs
- LED Screen with built-in water sensor alert with audible alarm¹
- Integrated EcoNet® Wi-Fi-connected² technology and free mobile app gives users control over water heater, allowing for customizable temperature, vacation settings, scheduling, energy savings and system monitoring at home or away
- LeakGuard™ and LeakSense™ Ready — Easily add leak detection and prevention with leak sensor and shutoff valve upgrade kit

Operation Modes

- Heat Pump
- Vacation/Away: 2-28 days (or placed on hold indefinitely)

Plus...

- Premium grade anode rod extends the life of the tank
- 3/4" NPT water inlet and outlet; 3/4" condensate drain connections
- Easy access, top mounted washable air filter
- 2" Non-CFC foam insulation
- Enhanced flow brass drain valve
- Temperature and pressure relief valve installed
- Design certified to NSF/ANSI 372 (Lead Content)

Warranty

- 10-Year limited tank and parts warranty
See Residential Warranty Certificate for complete information

Units meet or exceed ANSI requirements and have been tested according to D.O.E. procedures. Units meet or exceed the energy efficiency requirements of NAEECA, ASHRAE standard 90, ICC Code and all state energy efficiency performance criteria.



ProTerra Plug-in Heat Pump with HydroBoost (120V Shared Circuit)

40, 50, 65 and 80-Gallon Capacities
120 Volt / 1 PH Electric



These products meet a stringent set of our internally defined sustainability standards.



LEED Points = 3

See specifications chart on next page.



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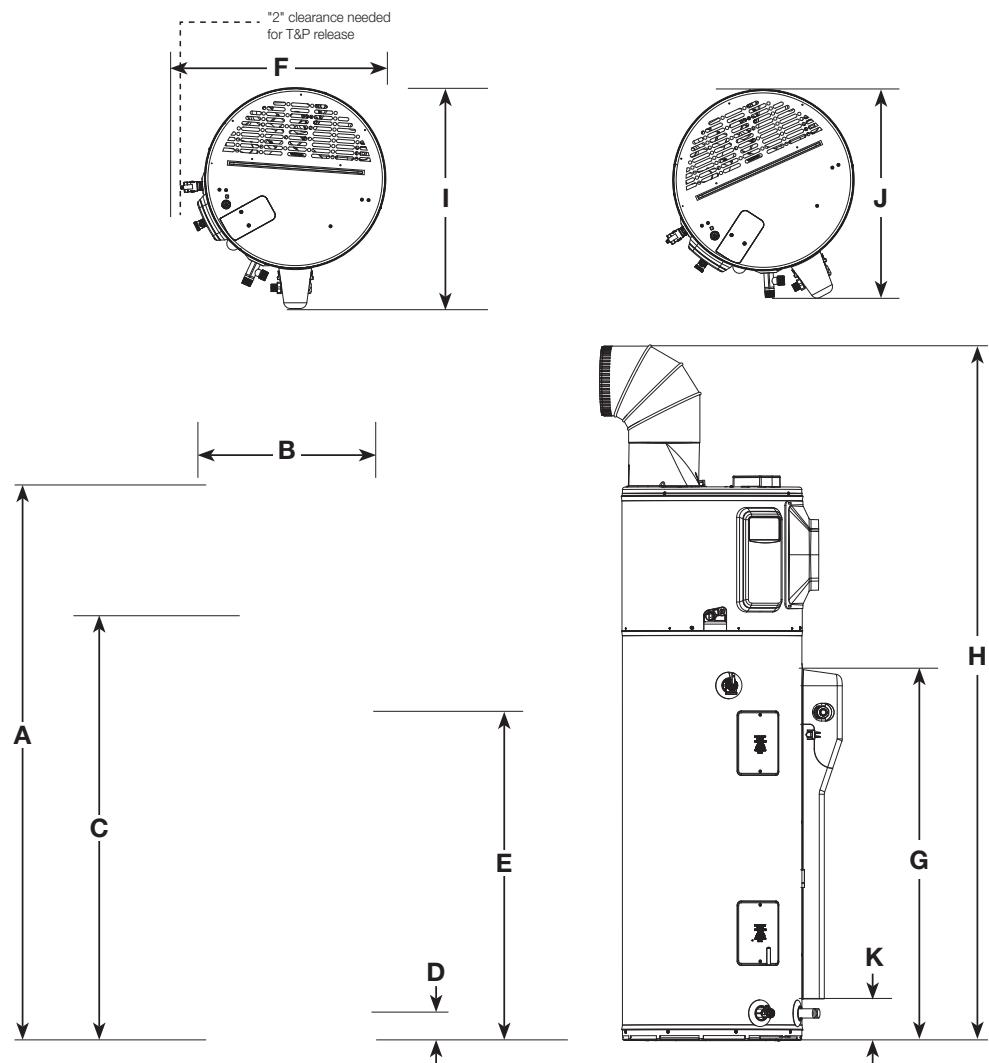
ProTerra Plug-in Heat Pump with HydroBoost (120V Shared Circuit) Specifications

| DESCRIPTION | | | | | | ENERGY INFO | FEATURES | | | TANK DIMENSIONS (SEE SPACE REQUIREMENTS IN DIAGRAMS BELOW) | | | |
|-------------------------|-----------------------|--------------------|---------------|--|----------------------------|-------------|------------------|----------------------------|------------------------------|---|---------|----------------|-------------------------|
| NOMINAL GALLON CAPACITY | RATED GALLON CAPACITY | MODEL NUMBER | MODEL VARIANT | ELECTRIC BREAKER SIZE (MINIMUM) ¹ | AVERAGE ELECTRICAL WATTAGE | | COMPRESSOR BTU/H | FIRST HR. RATING (GALLONS) | RECOVERY IN G.P.H 60° F RISE | HEIGHT A | DIAM. B | UNIT WT. (LBS) | APPROX. SHIP WT. (LBS.) |
| 40 | 36 | PROPH40 T0 RH120-M | 701460 | 15 | 440W | 2.8 | 4200 | 45 | 12 | 63" | 20-1/4" | 157 | 194 |
| 50 | 46 | PROPH50 T0 RH120-M | 701453 | 15 | 440W | 3.0 | 4200 | 55 | 12 | 62" | 22-1/4" | 178 | 218 |
| 65 | 59 | PROPH65 T0 RH120-M | 700950 | 15 | 395W | 3.33 | 4200 | 63 | 12 | 65" | 24-1/4" | 225 | 262 |
| 80 | 72 | PROPH80 T0 RH120-M | 700951 | 15 | 395W | 3.46 | 4200 | 84 | 12 | 75" | 24-1/4" | 244 | 281 |

Uniform Energy Factor and rated gallon capacity based on Department of Energy (DOE) requirements.

All units have integrated Wi-Fi control board.

¹In cases of fused protection, a time delay fused protection will be required.



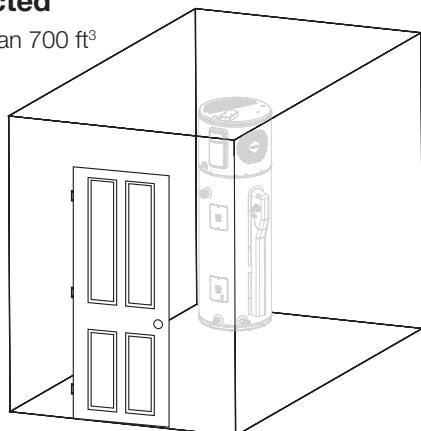
| DESCRIPTION | | DIMENSIONS (SHOWN IN INCHES) | | | | | | | | | | | |
|-------------------------|--------------------|------------------------------|--------|----|-------|--------|--------|---------|--------|--------|---------|---------|--|
| NOMINAL GALLON CAPACITY | MODEL NUMBER | A | B | C | D | E | F | G | H | I | J | K | |
| 40 | PROPH40 T0 RH120-M | 62-5/16 | 20-1/4 | 47 | 3-5/8 | 39-5/8 | 25-3/8 | 41-7/8 | 78-7/8 | 25 | 23-1/4 | 4-11/16 | |
| 50 | PROPH50 T0 RH120-M | 61-3/4 | 22-1/4 | 47 | 3-5/8 | 39-5/8 | 27-3/8 | 41-1/2 | 78-5/8 | 27-3/8 | 25-9/16 | 4-5/16 | |
| 65 | PROPH65 T0 RH120-M | 64-3/16 | 24-1/4 | 49 | 3-7/8 | 42-3/8 | 29-1/2 | 44-1-16 | 81-1/8 | 29 | 28-1/16 | 5 | |
| 80 | PROPH80 T0 RH120-M | 74-3/16 | 24-1/4 | 59 | 3-7/8 | 42-3/8 | 29-1/2 | 54-5-16 | 91 | 29 | 27-3/8 | 5-1/16 | |

Plug-in Heat Pump with HydroBoost Water Heater Installation Guidelines to Provide Optimal Efficiency

Heater: Not Ducted

Room size: Larger than 700 ft³
(e.g. 7' x 10' x 10').

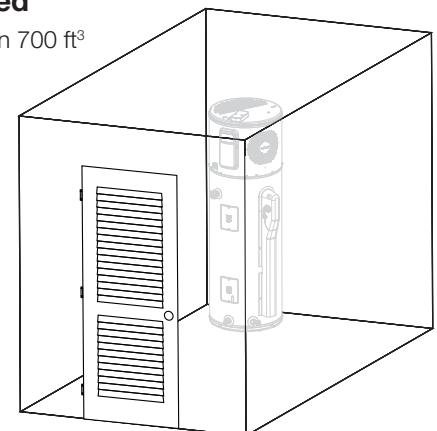
Requirements:
No additional
ventilation needed



Heater: Not Ducted

Room size: Smaller than 700 ft³
(e.g. 7' x 10' x 10').

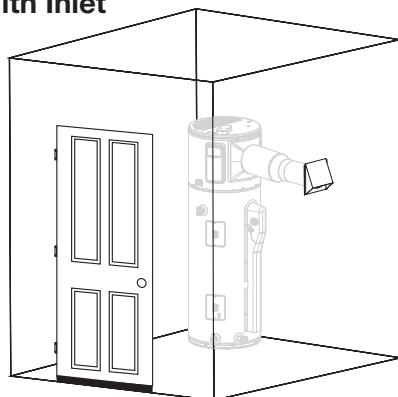
Requirements:
Full louvered door OR
two louvers top and
bottom: See to right.



Heater: Ducted With Inlet or Outlet Duct

Room size:
Any size room

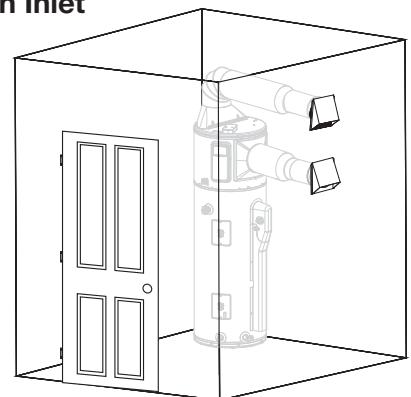
Requirements: Air gap under door equal to 18 in² (0.75" clearance)



Heater: Ducted With Inlet and Outlet Duct

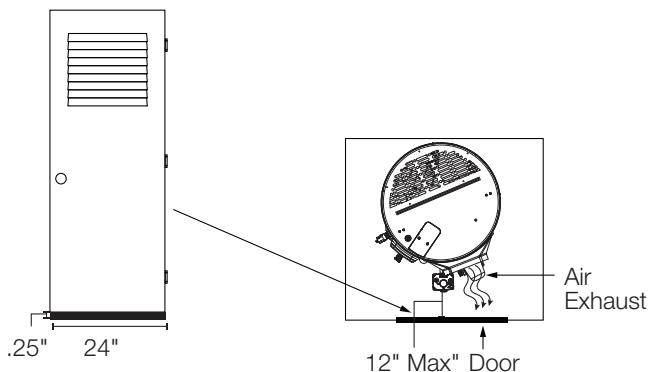
Room size:
Any size room

Requirements:
No additional
ventilation needed

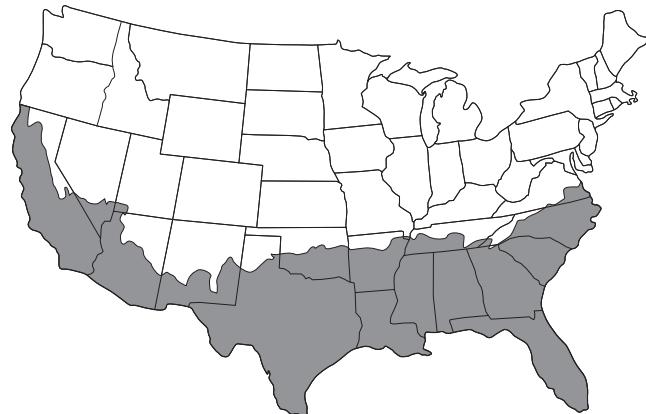


Notice

If air temperature in installed location drops more than 15°F (8°C) during heating, air circulation is insufficient for efficient operation. Utilize ducting to direct cold exhaust air to another location



For optimal operation, installation in gray US map zone is recommended. When choosing the proper water heater, consult your local plumbing contractor.



Heater: Not Ducted

Room size: Small Closet

Requirements:

- Air gap under door equals 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.

| MINIMUM CLEARANCES (WITHOUT DUCTING) | | |
|--------------------------------------|-------|-----|
| REAR | SIDES | TOP |
| 0" | 0" | 6" |

Average Ambient Air Temp in January

Below 37°F

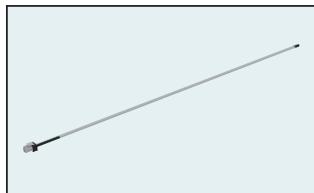
Above 37°F

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Plug-in Heat Pump with HydroBoost Service Parts and Accessories List

| PART NUMBER | DESCRIPTION | USE FOR |
|-------------|--|---|
| AP19134 | Leak Sensor | Automatic detection of internal and external leaks |
| AP20180 | Shutoff Valve | Automatic shut off of water supply to unit |
| AP21365 | Inlet Duct Adapter | Allows for ducting to be connected on the top inlet |
| AP17829 | Outlet Duct Adapter | Allows for ducting to be connected to the unit |
| SP20882 | Earthquake Isolation Kit | Installations in seismic regions |
| SP20883 | Vibration Isolation Kit | Installation on non-concrete floors |
| SP20884 | 8" Diameter UL Certified Termination Kit | Termination to the outside or to the attic with 8" diameter |
| SP20885 | 7" Diameter UL Certified Termination Kit | Termination to the outside or to the attic with 7" diameter |
| SP20886 | 6" Diameter UL Certified Termination Kit | Termination to the outside or to the attic with 6" diameter |
| SP20887 | 5" Diameter UL Certified Termination Kit | Termination to the outside or to the attic with 5" diameter |
| SP20888 | 8" Rheem Approved Damper Kit | Exhaust only to the outside ducting configuration (no inlet duct) |
| SP21105 | Inlet 25' Flexible 8" Diameter Duct Kit | For up to 25' of ducting |
| SP17829 | Outlet 25' Flexible 8" Diameter Duct Kit | For up to 25' of ducting |
| SP20890 | Rigid Elbow Duct Kit | Installation in tight places where space needs to be minimized |
| SP21111 | Leak Sensor & Shutoff Valve Kit | Upgrade models to protect home from water damage with leak detection and auto shutoff valve |



AP19134



AP20180



AP21365



AP17829



SP20882



SP20883



SP20884



SP20885



SP20886



SP20887



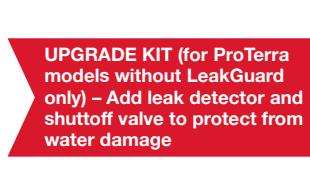
SP20888



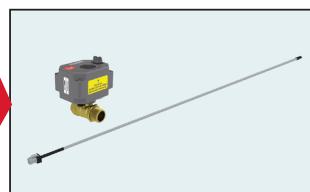
SP21105 / SP17829



SP20890



UPGRADE KIT (for ProTerra models without LeakGuard only) – Add leak detector and shutoff valve to protect from water damage



SP21111

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

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