

Friedrich® Hybrid Electric Heat Pump Water Heater

Designed for Residential Builders to Maximize Energy Design Rating /HERS Rating

Product Highlights

- 3.50 UEF
- Meets NEEA Tier 3 Requirements
- Powered by EcoNet® Technology
- California Title 24 Compliant (JA13 Ready)
- LeakSense™ Accessory Ready
- Design Certified to NSF/ANSI 372 (lead control)
- 10 Year Limited Warranty¹

QUALIFIES
FOR UTILITY
REBATES³



| FEATURES & BENEFITS | |
|------------------------------------|---|
| High Efficiency | ENERGY STAR® 5.0 certified |
| | Helps builders earn 45L tax credits |
| Easy Installation | Easily Ducted – for installation in confined spaces with minimal make up air |
| | Easy access to side water connection and top electrical junction box; Zero clearance required in the back or side of the unit |
| | ½" NPT water inlet & outlet; ¾" condensate drain connections |
| | Dry fire protection |
| Available EcoNet® Smart Technology | Built-in Wi-Fi powered by EcoNet® technology ² |
| | Energy usage reporting |
| | Energy saving scheduling and operating modes |

Hybrid Electric Heat Pump - Builder

40, 50, 65 and
80-Gallon Capacities
208-240 Volt / 1 PH / 24 Amps



LEED Points = 3

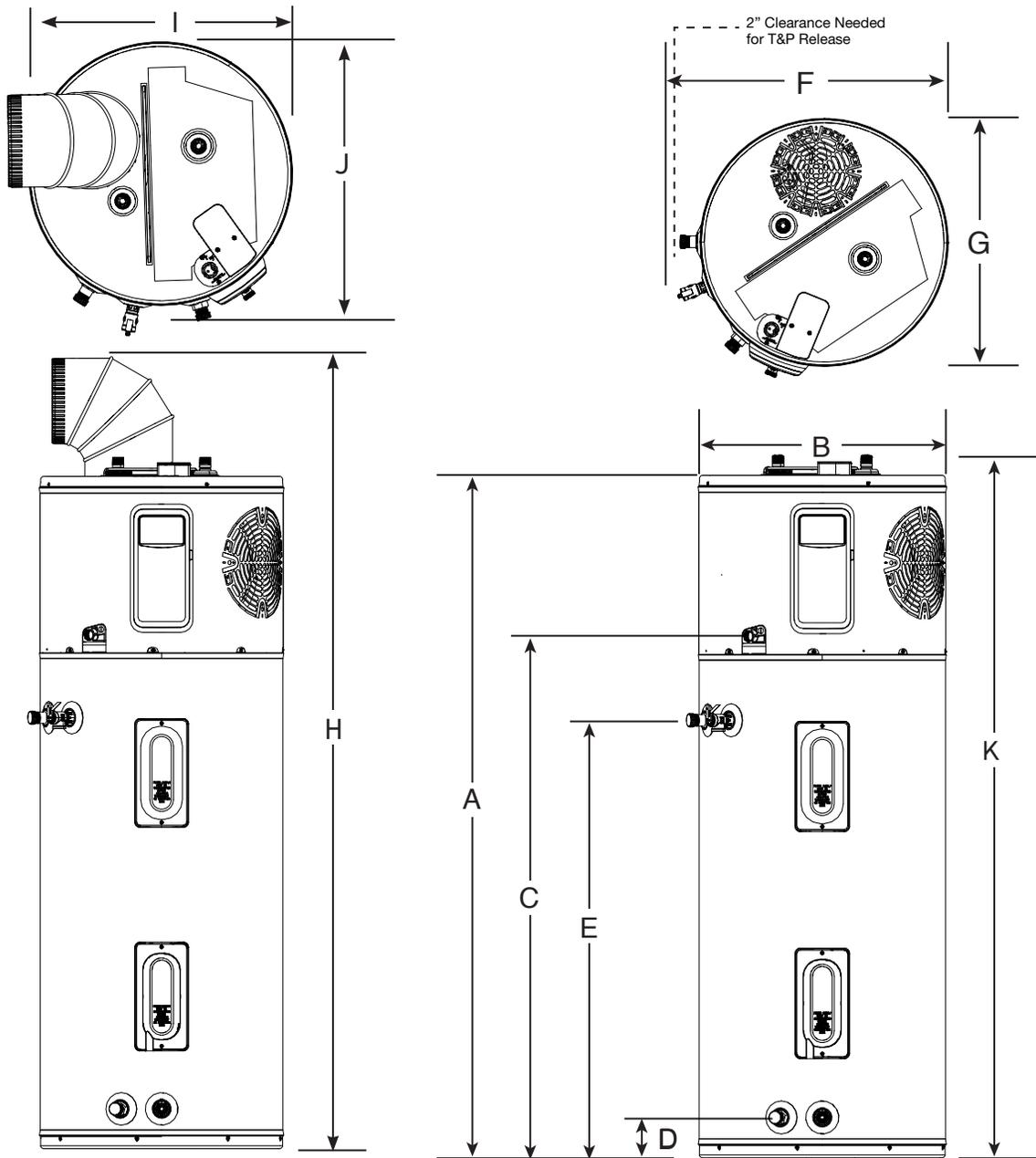
| DESCRIPTION | | | | | ENERGY INFO. | FEATURES | | | | |
|-------------------------|-----------------------|-------------------|---------------|-----------------------|-----------------------------|------------------|-----------------------------|------------------------------|-----------------|-------------------------|
| NOMINAL GALLON CAPACITY | RATED GALLON CAPACITY | MODEL NUMBER | MODEL VARIANT | ELECTRIC BREAKER SIZE | UNIFORM ENERGY FACTOR (UEF) | COMPRESSOR BTU/H | UEF FIRST HR. RATING G.P.H. | RECOVERY IN G.P.H 90° F RISE | UNIT WT. (LBS.) | APPROX. SHIP WT. (LBS.) |
| 40 | 36 | PROH40 T2 FD350BM | 700461 | 30 | 3.50 | 4200 | 60 | 26 | 156 | 177 |
| 50 | 45 | PROH50 T2 FD350BM | 700455 | 30 | 3.50 | 4200 | 67 | 26 | 172 | 193 |
| 65 | 59 | PROH65 T2 FD350BM | 700456 | 30 | 3.50 | 4200 | 75 | 26 | 225 | 262 |
| 80 | 72 | PROH80 T2 FD350BM | 700457 | 30 | 3.50 | 4200 | 87 | 26 | 244 | 281 |

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

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 NAECA, ASHRAE standard 90, ICC Code and all state energy efficiency performance criteria.

¹ See Residential Warranty Certificate for complete information. ² Wi-Fi broadband internet connection required. ³ Consult your tax advisor for details on eligibility requirements for any available tax credits. Rebates vary by state.

Friedrich® Hybrid Builder Residential Electric Water Heater



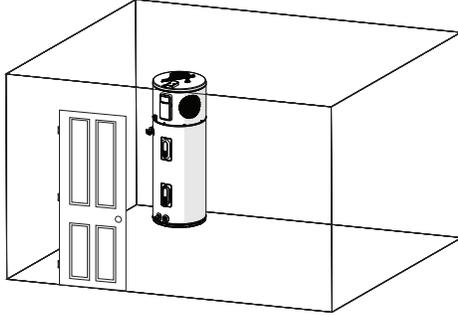
| DESCRIPTION | | DIMENSIONS (SHOWN IN INCHES) | | | | | | | | | |
|-------------------------|-------------------|------------------------------|--------|----|-------|--------|---------|--------|--------|--------|----------|
| NOMINAL GALLON CAPACITY | MODEL NUMBER | A | B | C | D | E | F | G | H | I | J |
| 40 | PROH40 T2 FD350BM | 62-5/16 | 20-1/4 | 47 | 3-5/8 | 39-5/8 | 25-1/4 | 20-1/2 | 78-7/8 | 22-3/8 | 21-3/4 |
| 50 | PROH50 T2 FD350BM | 61-3/4 | 22-1/4 | 47 | 3-5/8 | 39-5/8 | 27-1/8 | 22-1/2 | 78-5/8 | 24-3/8 | 23-5/8 |
| 65 | PROH65 T2 FD350BM | 64-3/16 | 24-1/4 | 49 | 3-7/8 | 42-3/8 | 29-5/16 | 24-5/8 | 81-1/8 | 26-1/2 | 25-13/16 |
| 80 | PROH80 T2 FD350BM | 74-3/16 | 24-1/4 | 59 | 3-7/8 | 52-3/8 | 29-1/4 | 24-5/8 | 91 | 26-1/2 | 25-11/16 |

Hybrid Electric Heat Pump Water Heater Installation Guidelines to Provide Optimal Efficiency

Heater: Not Ducted

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

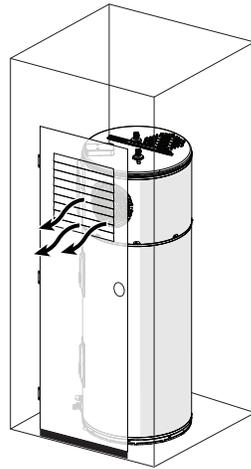
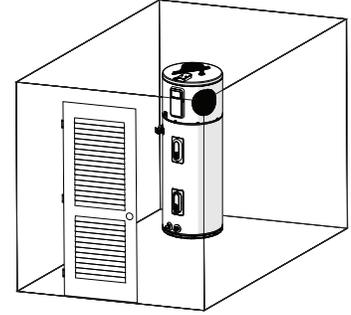
Requirements:
No additional ventilation needed



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 bottom¹



Heater: Not Ducted

Room: Small Closet

Requirements:

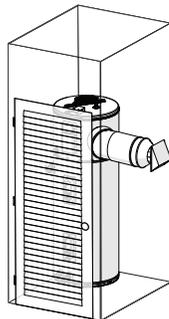
- Air gap under door equal to 18 in² (0.75" clearance)
- Louver must be located the same height on door as the air exhaust on heater
- Heater air exhaust must be positioned towards louver within one foot of door

PLEASE NOTE: For all non-ducted applications, ensure that the air exhaust vent is oriented to be at least 6" from any walls or solid surfaces to ensure proper dissipation of cooled air.

Heater: Ducted With Inlet or Outlet Duct

Room size:
For all closet installations (size smaller than 400 ft³)

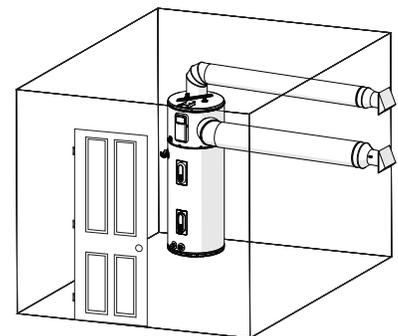
Requirements:
Full louvered door²



Heater: Ducted With Inlet and Outlet Duct

Room size:
Any size room

Requirements:
No additional ventilation needed



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

| FOR EASIER SERVICEABILITY | | |
|---------------------------|-------|-----|
| REAR | SIDES | TOP |
| 6" | 6" | 6" |

PLEASE NOTE: Heat pump water heater will operate in rooms less than 700 ft³ down to 450 ft³ but at reduced energy efficiency and reduced performance output. Reduced energy efficiency and performance has not been evaluated by Rheem Manufacturing and not recommended for optimal performance of the unit.

¹Minimum louver free opening area required for not ducted room installation application will be 3.25 sq ft.

²Minimum louver free opening area required for ducted closet installation application will be 2.9 sq ft.

Hybrid Builder Accessories

| PART NUMBER | DESCRIPTION | USE FOR |
|-------------|---|--|
| 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" Friedrich Approved Damper Kit | Exhaust only to the outside ducting configuration (no inlet duct) |
| SP20889 | 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 |
| SP17829 | Outlet Duct Adapter | Allows for ducting to be connected to the unit |
| AP19134 | Leak Sensor | Automatic detection of internal and external leaks |
| SP21105 | Inlet Duct Adapter | Allows for ducting to be connected on the top inlet |
| FR-80 | Little Firefighter Water Heater Front Restraint | Secures the water heater to the wall to prevent damage and water leaks due to severe weather |
| AP23528 | Duct Diverter | Allows for seasonal flexibility in ducting cool exhaust air |



SP20882



SP20883



SP20884



SP20885



SP20886



SP20887



SP20888



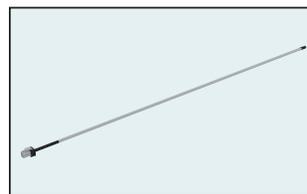
SP20889



SP20890



SP17829



AP19134



SP21105



FR-80



AP23528

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

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