# FRIEDRICH

## 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
- Integrated Wi-Fi Technology
- California Title 24 Compliant (JA13 Ready)
- LeakSense™ Accessory Ready
- Design Certified to NSF/ANSI 372 (lead control)
- 10 Year Limited Warranty[1]

**QUALIFIES FOR UTILITY REBATES[3]**

**ENERGY STAR**

**T&P Installed**

### Hybrid Electric Heat Pump - Builder
40, 50, 65 and 80-Gallon Capacities
208-240 Volt / 1 PH / 24 Amps

c(UL)us

LEED Points = 3

### 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* |
| | ¾" NPT water inlet & outlet; ¾" condensate drain connections |
| | Dry fire protection |
| **Available EcoNet® Smart Technology** | Integrated Wi-Fi Technology[2] |
| | Energy usage reporting |
| | Energy saving scheduling and operating modes |

| 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 FD310BM | 700461 | 30 | 3.50 | 4200 | 60 | 26 | 156 | 177 |
| 50 | 45 | PROH50 T2 FD310BM | 700455 | 30 | 3.50 | 4200 | 67 | 26 | 172 | 193 |
| 65 | 59 | PROH65 T2 FD310BM | 700456 | 30 | 3.50 | 4200 | 75 | 26 | 225 | 262 |
| 80 | 72 | PROH80 T2 FD310BM | 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



2" Clearance Needed for T&P Release
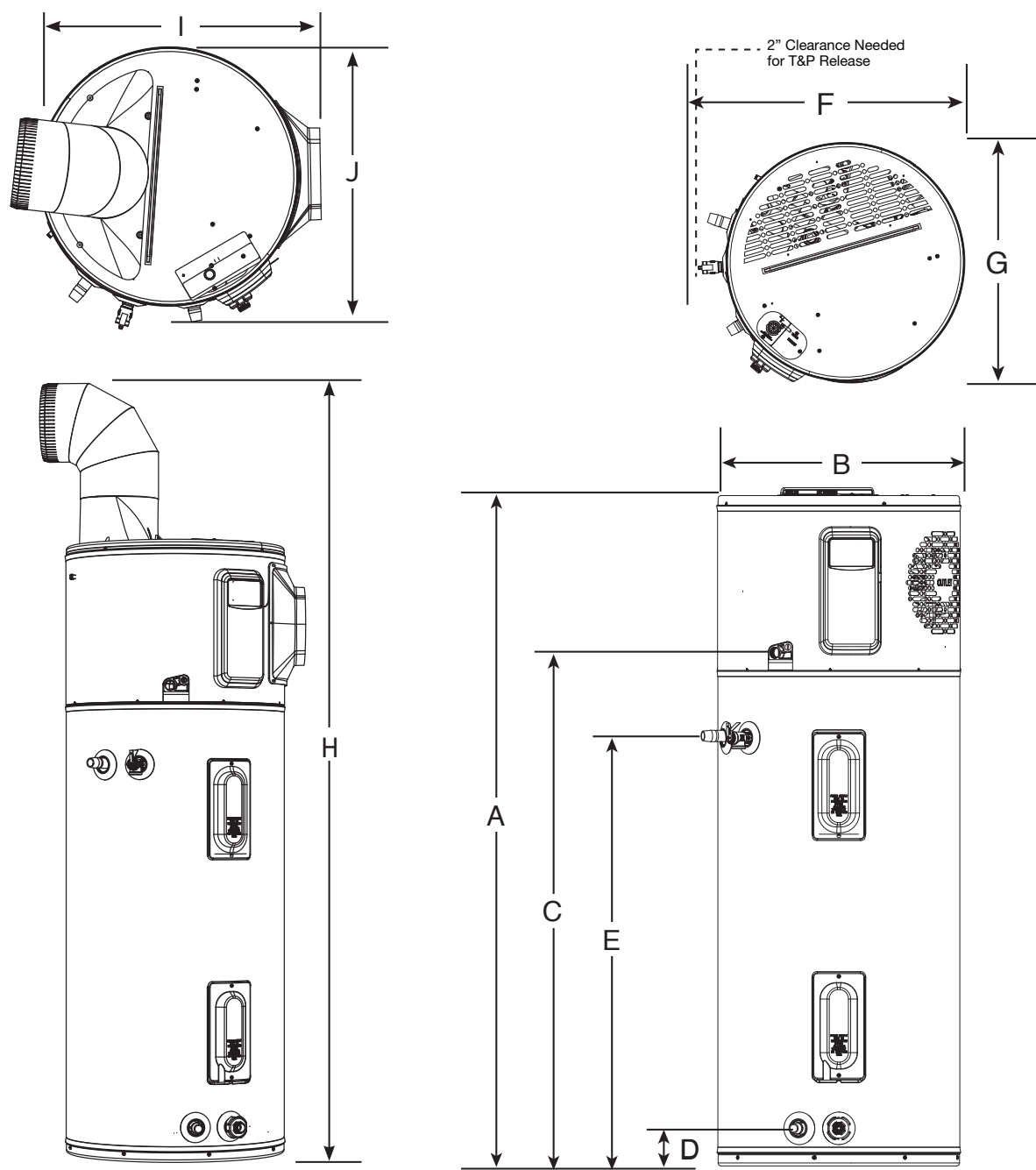
| DESCRIPTION | | DIMENSIONS (SHOWN IN INCHES) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOMINAL GALLON CAPACITY | MODEL NUMBER | A | B | C | D | E | F | G | H | I | J |
| 40 | PROH40 T2 FD310BM | 62-5/16 | 20-1/4 | 47 | 3-5/8 | 39-5/8 | 25-1/4 | 20-1/2 | 78-7/8 | 22-3/8 | 21-3/4 |
| 50 | PROH50 T2 FD310BM | 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 FD310BM | 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 FD310BM | 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 |

### Heater: Not Ducted

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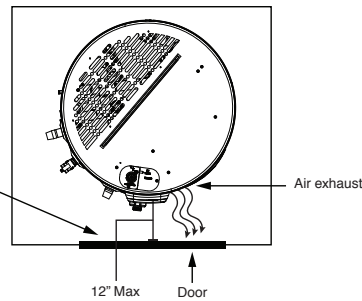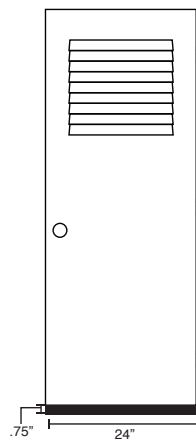Requirements: No additional ventilation needed.
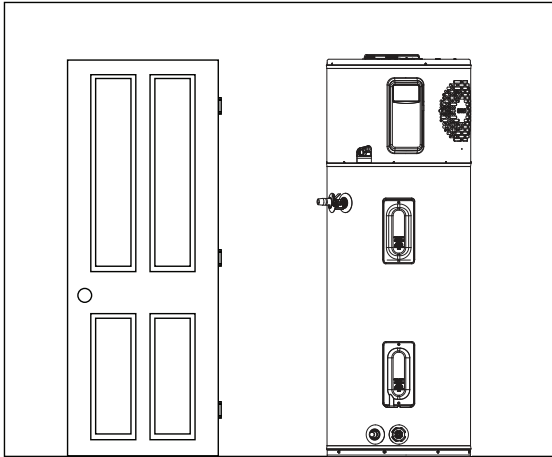


### Heater: Not Ducted

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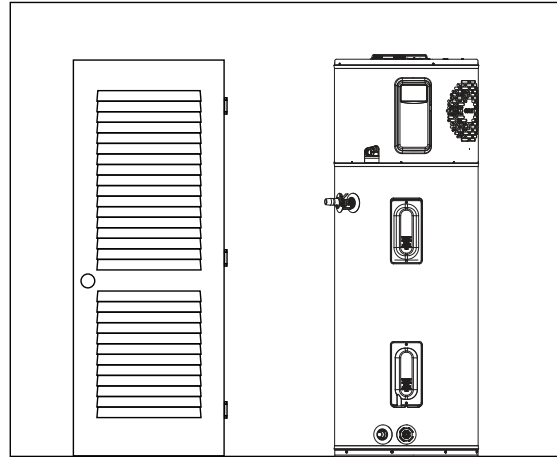


### Heater: Not ducted

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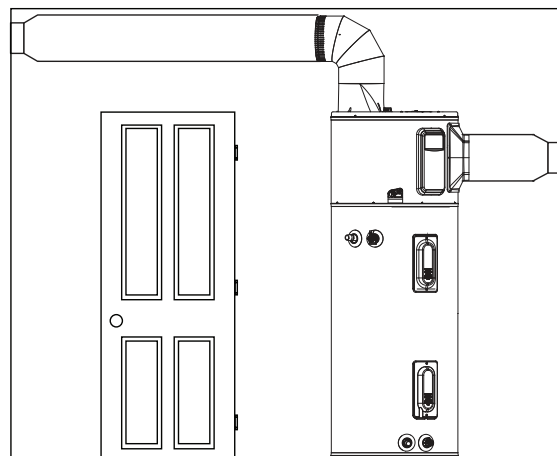          * Heater air exhaust must be positioned towards louver within one foot of door.



.75"    24"

Air exhaust

12" Max    Door

### Heater: Ducted with inlet OR outlet duct

Room size: Any size room
Requirements: Air gap under door equal to 18 in² (0.75" clearance)



.75"    24"
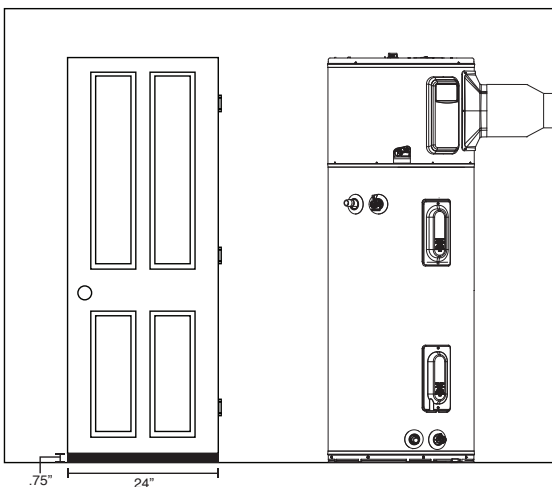
### Heater: Ducted with inlet AND outlet duct

Room size: Any size room
Requirements: No additional ventilation needed.



3

## 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 |
| AP17829 | Outlet Duct Adapter | Allows for ducting to be connected to the unit |
| AP19134 | Leak Sensor | Automatic detection of internal and external leaks |
| AP21365 | Inlet Duct Adapter | Allows for ducting to be connected on the top inlet |
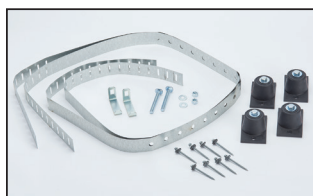
SP20882
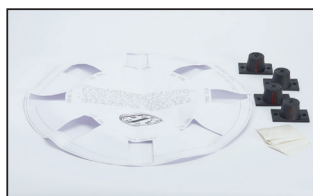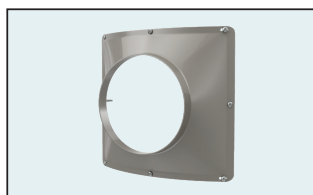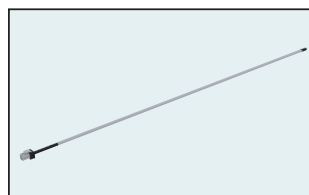
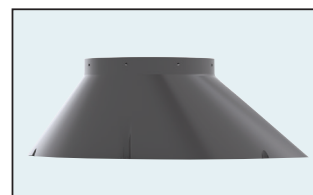SP20883
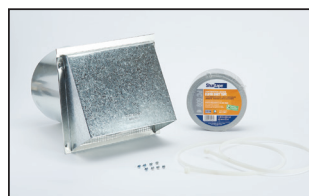
SP20884

SP20885

SP20886

SP20887

SP20888

SP20889

SP20890

AP17829

AP19134

AP21365