

ProLine® XE HEAT PUMP

The ProLine® XE heat pump water heaters from A. O. Smith are a cost effective energy-efficient option available for consumers who want to save money on their electric utility bills.

HOW DO THEY WORK?

- Absorbs ambient heat from the surrounding air to heat water using a compressor and environmentally-friendly R134a refrigerant
 - Self-contained heat pump unit is integrated into the top of the tank
 - Multiple operating modes to maximize efficiency and performance

INCREASED ENERGY EFFICIENCY

- Improved efficiency design to ensure available hot water at the lowest possible cost
- Up to a 3.45 Uniform Energy Factor (UEF) conserves energy and exceeds ENERGY STAR® qualifications

CHOICE OF OPERATING MODES

- Select from Efficiency, Hybrid, or Electric modes to match heating requirements to environmental conditions
- Hybrid mode automatically adjusts between compressor and element, depending upon heat requirements
- Vacation mode reduces operating costs and provides freeze protection during extended absence

BACKUP ELECTRIC ELEMENTS

- Long-lasting backup heating elements help heat water according to environmental conditions, demand, and the chosen operating mode

CoreGard™ ANODE ROD

- Anode rods have a stainless steel core that extends the life of the anode rod allowing superior tank protection far longer than standard anode rods
- 66 and 80 gallon models have dual anodes for added protection

DRY FIRE PROTECTION

- Control system checks to ensure the tank is full of water during start up to prevent dry firing the heating elements

ELECTRONIC USER INTERFACE

- User-friendly electronic interface allows easy control of temperature setting, operating mode, and communicates diagnostics
- Easy to read temperature display (see back) shows temperature in °F or °C
- Advanced diagnostics convey error messages for service purposes and the last four error messages are saved in the control system memory

Commercial-Grade

- ProLine® XE Heat Pump are residential water heaters with commercial grade quality

OTHER FEATURES

- Ideal for basement installations; the compressor transfers heat to the water while dehumidifying and cooling the ambient air
- Washable air filter is easily removed for routine cleaning

OPTIONAL AIR DUCT ADAPTER KIT

- Permits installation in confined spaces

WARRANTY

- 10 year limited tank and parts warranty
- For complete information, consult written warranty or A. O. Smith



PERFORMANCE

MODEL	SERIES	NOMINAL CAPACITY USG (L)	INPUT		UNIFORM ENERGY FACTOR HYBRID MODE	FIRST HOUR RATING HYBRID MODE GPH (LPH)
			WATTS UPPER/LOWER	VOLTS		
HPTU-50N	130	50 (189)	4500/4500	208/240	3.45	66 (249)
HPTU-66N	130	66 (250)	4500/4500	208/240	3.45	79 (299)
HPTU-80N	130	80 (303)	4500/4500	208/240	3.45	86 (325)

Requires 30 amp breaker.
Top T&P option not available.

DIMENSIONS & SHIPPING WEIGHT

MODEL	INSTALLATION HEIGHT	TANK DIAMETER	HEIGHT TO UPPER SIDE CONNECTION	HEIGHT TO LOWER SIDE CONNECTION	HEIGHT TO DRAIN VALVE	HEIGHT TO T&P	SHIPPING WEIGHT
	A IN (CM)	B IN (CM)	C IN (CM)	D IN (CM)	D IN (CM)	E IN (CM)	LB (KG)
HPTU-50N	63 (160)	22 (56)	40 5/8 (103)	3 3/4 (10)	3 3/4 (10)	40 1/2 (103)	196 (89)
HPTU-66N	61 (155)	27 (69)	38 (97)	4 (10)	4 (10)	38 (97)	289 (131)
HPTU-80N	69 (175)	27 (69)	46 (117)	4 (10)	4 (10)	46 (117)	307 (139)

ELECTRONIC USER INTERFACE

- User friendly, easy to read display
- LEDs clearly indicate the current operating mode
- Easily select operating mode:
 - Efficiency
 - Hybrid
 - Electric
 - Vacation
- Display communicates current status, mode and set point, and displays error messages when applicable



EFFICIENCY MODE

- Utilizes the heat pump for all water heating

HYBRID MODE

- Automatically reverts to heating element if ambient air or water temperatures are outside optimal operating range for heat pump
- Utilizes the heat pump or heating element, depending on demand

ELECTRIC MODE

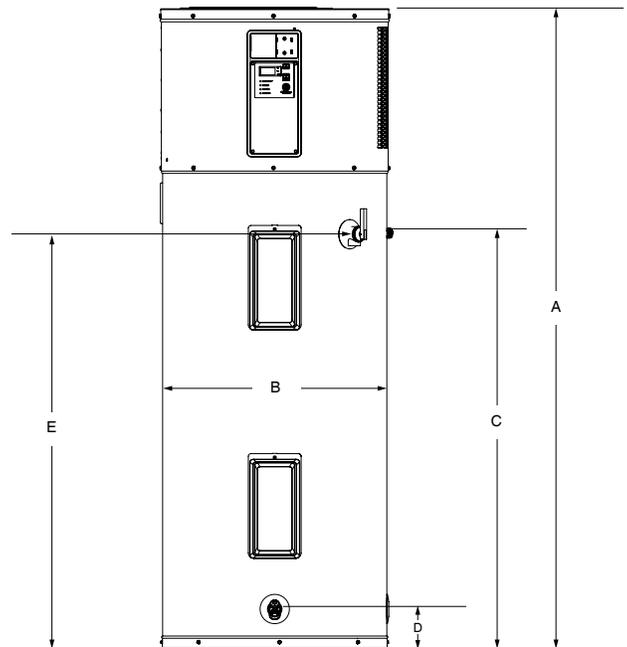
- Standard electric water heater operation

VACATION MODE

- One touch operation maintains tank temperature of 60°F (15.6°C) during vacation or extended absence to reduce operating costs and provide freeze protection
- Programmable up to 99 days

OPTIONAL ACCESSORIES

- 100234320 Inlet and Outlet Air Duct Kit
- 100131328 Booster Fan Kit



OTHER FEATURES:

- Environmentally-friendly non-CFC foam insulation
- Durable, enhanced-flow tamper-resistant brass drain valve
- CSA certified and ASME rated temperature & pressure relief valve

OPERATING REQUIREMENTS:

- Requires provision for condensate draining; if a suitable drain is not available, a condensate pump is required
- 208/240 VAC 60Hz single phase 30 amp power supply