

Recirculating tankless water heaters for the professional

***ProTankless*[™] GWH 345 ESR GWH 450 ESR**

Features:

- ▶ Durable heat exchanger specifically designed for recirculating applications
- ▶ Vents vertically or horizontally with 3" stainless steel (AL29-4C)
- ▶ Direct vent and sealed combustion
- ▶ LCD screen displays temperatures, burner operation, & diagnostic codes
- ▶ Separate temperature controls for domestic water heating & recirculation
- ▶ Available in natural gas (NG) or liquid propane (LP)
- ▶ 10-year limited warranty



Heavy Duty Recirculating Water Heaters



BOSCH

Invented for life

Durable heat exchanger specifically designed for recirculating applications

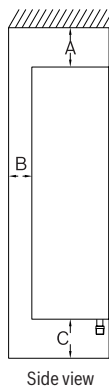
| GWH 345/450 ESR Technical Specifications | | |
|--|--------------------------|-------------|
| | GWH 345 ESR | GWH 450 ESR |
| Rated Efficiency | 82% | 81% |
| Gas Input (BTU/Hr) | 95,000 | 120,000 |
| Maximum Output (BTU/Hr) | 77,900 | 98,400 |
| Minimum Output (BTU/Hr) | 23,900 | 35,500 |
| Water Temp in Heating Circuit* | 115° F - 190° F | |
| Maximum Exhaust Vent Length | 39' with one elbow** | |
| Gas Valve | Modulating | |
| Ignition | Electronic | |
| Dimensions | 27½" H x 15¾" W x 11¾" D | |
| Weight | 47 lbs. | |

*Temperature setting range ** (90° elbow equals 6'; 45° elbow equals 3')

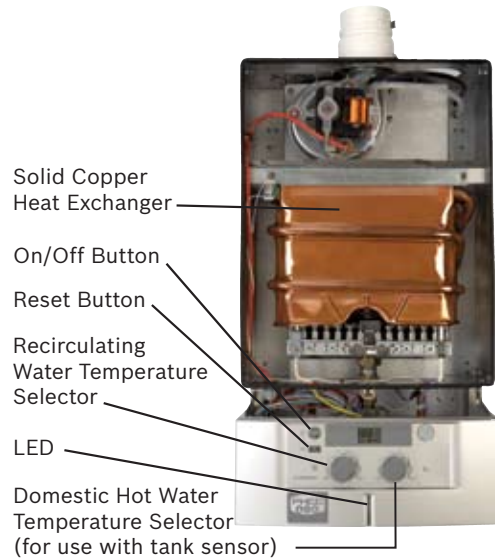
| Installation Specifications | |
|-----------------------------|--|
| Gas Connection | ¾" Male NPT |
| Water Connections | ¾" Male NPT |
| NG Gas Pressure | Minimum 5.5" WC Maximum 8" WC |
| LP Gas Pressure | Minimum 11" WC Maximum 14" WC |
| Electrical Supply | 120 VAC – plugs in |
| Exhaust Vent Size | 3" AL 29-4C single wall sealed stainless steel vent pipe (Z-Flex, Protech, Heat Fab) |
| Intake Vent Size | 3" Aluminum Flex, PVC or any other rigid or semi-rigid sealed pipe |



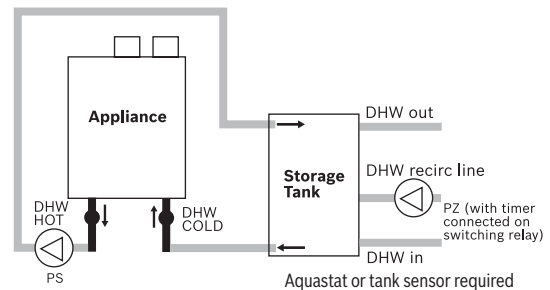
| Installation Clearances | |
|-------------------------|-----|
| Top (A) | 12" |
| Front (B) | 4" |
| Back | 0" |
| Sides | 4" |
| Floor (C) | 12" |



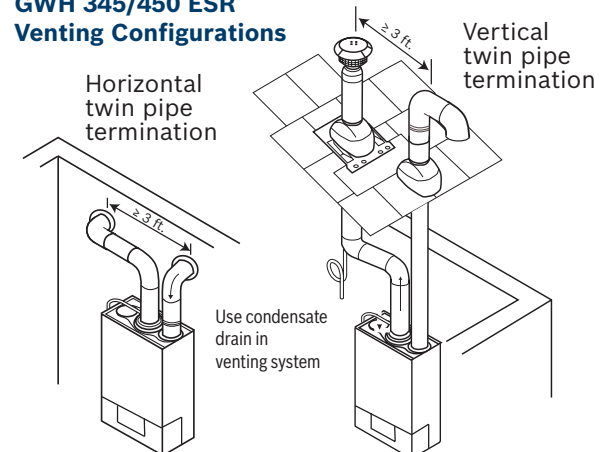
- Part # 345ESR N (Natural Gas)
- Part # 345ESR L (Liquid Propane)
- Part # 450ESR N (Natural Gas)
- Part # 450ESR L (Liquid Propane)



Tankless Water Heater Application: Direct Tank Load Design



GWH 345/450 ESR Venting Configurations



NOTE: The distance between the combustion air intake pipe termination and the exhaust pipe termination must be greater than or equal to 3 feet.

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