



INTERNATIONAL  
Water·Guard

# HE-SERIES

# HIGH EFFICIENCY WATER HEATER SERIES

IWG-HE420  
P/N 09-270420-001

IWG-HE210  
P/N 09-270210-001



The IWG-HE Water Heater Series is a family of heaters featuring revolutionary new technologies that are designed to replace existing "cartridge" style lavatory heaters on aircraft.

The "flow-through" heater element (patent pending) and thermal mixing valve achieve a much greater heating efficiency at a reduced size and weight. It also results in a reduction in scaling and bacterial buildup due to flow-through hydraulics and the higher in-chamber temperatures. The heater also features improved construction materials and methods over existing heaters, eliminating common corrosion issues. The result is a heater that is more reliable and will save on operational costs both because of weight savings and greatly reduced maintenance efforts.



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# INNOVATION

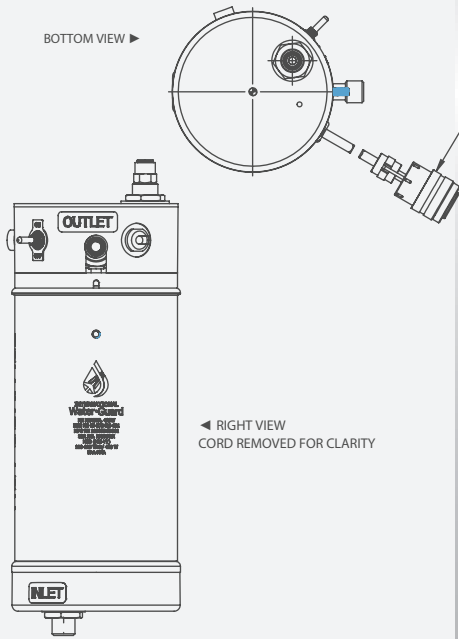
## IWG-HE-Flow Through Heater

Uses a flow-through heater configuration that improves the heating process and reduces scale build-up.

Complies with OSHA recommendations for heated vessels to operate at temperatures that kill Legionella, Pseudomonas Aeruginosa, and other pathogens.

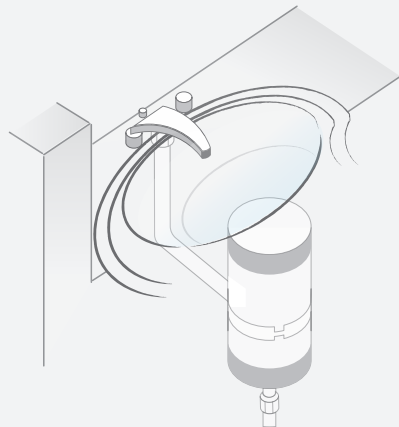
Existing heaters operate at temperatures that allow pathogens to grow and establish biofilms.

Thermal mixing valve provides precise control of outlet water temperature to the faucet.

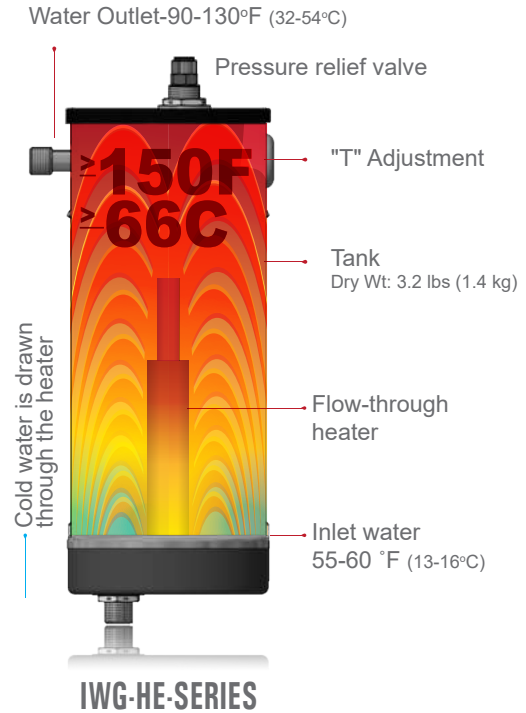


BOTTOM VIEW ▶

◀ RIGHT VIEW  
CORD REMOVED FOR CLARITY



Same 4" Diameter



IWG-HE-SERIES

ELECTRICAL CONNECTOR  
BACC45FT14C7P  
SEE NOTE 4 FOR PIN ARRANGEMENT

## PHYSICAL

- Max Net Dry Weight: 3.2 lbs (1.4 Kg)
- Wet Weight: 5.6 lbs (2.5 Kg)
- Volume: 0.29 Gal (1.1 L)
- Hydraulic Interface: SAE AS33514G6 (Flareless)

### ▪ Performance

Inlet Pressure: 12-25 psig  
Nominal Flow Rate: Up to 1.0 GPM  
Adjustable Temperatures: 90-130°F (32-54 °C)

### ▪ Electrical

Input Voltage: 115 VAC 60 -800 Hz  
Current Draw: 3.65A (420W) / 1.83A (210W)  
Electrical Interface: BACC45FT14C7P | 420W  
MS3676A10-6P | 210W

## INSTALLATION

- Drop-in replacement, LAV mod not required

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## BENEFITS

- Faster recovery time
- Longer hot water flow times
- Reduced scale build up
- Smaller, optimized size
- Weight reduced unit
- Safer operation temperature

## QUALIFICATION

- DO-160G Qualified
- Meets OSHA Hot Water Safe Operating Temperature
- NSF61 Compliant
- PMA Certification

## PERFORMANCE

- Heats faster with 60% improvement in recovery time
- Provides 50% longer hot water flow
- Full tank heating cycle reduced 33%