

COMMERCIAL

ULTRA FORCE™

COMMERCIAL GAS WATER HEATERS



**HIGH EFFICIENCY.
HIGHER DURABILITY.**

Now up to 96% efficiency.



SOLID.STATE.



ULTRA FORCE™ FOR ULTRA EFFICIENCY.

The best keeps getting better.

Ultra Force™ continues to be the most efficient State commercial water heater ever built, designed for excellent thermal efficiency, outstanding durability and maximum installation flexibility.

In comparison to standard water heaters with only 80% efficiency, Ultra Force delivers up to 400,000 BTU input with up to 96% efficiency. This means greater energy savings and more hot water delivery for each energy dollar spent. In fact, Ultra Force™ could pay for itself in energy cost savings alone.

“ Ultra Force™ could pay for itself in energy cost savings alone.”



A single Ultra Force unit is the ideal cost-saving choice for restaurants and other demanding commercial applications. For larger demands, multiple units can be manifolded together delivering even greater capacity and recovery – all with up to 96% efficiency.

Designed for efficient installations in a large variety of locations, each model features a small footprint and space-saving design with zero clearance, top-mounted gas and electrical controls, and the versatility of standard venting or direct venting.





Designed for both efficiency and durability.



1 Power from the top down.

- Premixed burner delivers high efficiency and quiet operation
- Unique glassed helical coil heat exchanger maximizes heat transfer as hot gasses swirl throughout the spiral tube
- Quiet operation from optimized blower and burner combination

2 Easier to install and service.

- All controls, gas valve and the combustion air blower located on top for easy access
- Top-mounted controls protect unit electronics from high water damage
- Less than 2" ceiling clearance required for servicing
- 0" clearance required on all sides

3 Detailed heater status information.

- Status of blower, igniter, igniter current, gas valve, flame detection, air inlet restrictions, exhaust vent restrictions, acceptable gas supply pressure
- Precise temperature setting
- Constant log of number of cycles and burner operating time
- Monitors, reports and diagnoses 32 potential operating faults
- Maintains log of any fault occurrences

4 Powered titanium anodes.

- Long-lasting titanium powered anodes protect from corrosion
- System calculates the precise current required to maintain optimum protection
- Over time or as water conditions change, the amount of power needed to protect the tank is automatically adjusted
- Powered anodes require no maintenance or inspection, providing years of dependable service

5 Built to last.

- Corrosion-resistant tank with durable glass-lining on all water-side surfaces
- Corrosion-resistant heat exchange coil with glass-lined interior to protect against corrosive flue gas condensation
- Rugged thick foam insulation



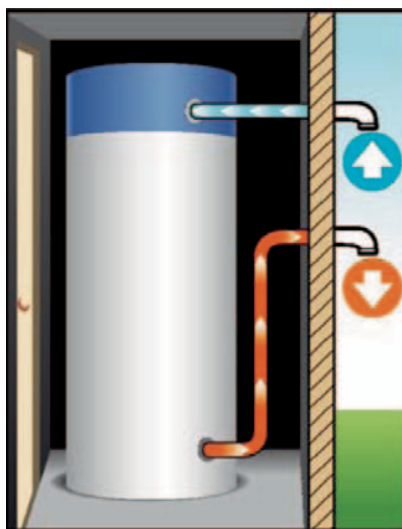
ELECTRONIC CONTROL PANEL

Provides ultimate precision in temperature control and diagnostics. Includes status and fault indicating digital temperature and numerical code display, temperature and differential setting adjustment.

ULTRA FORCE™ FITS ALMOST ANYWHERE.



The new and improved Ultra Force conveniently fits in the smallest possible space to make it a practical choice for even more installations. All serviceable components are accessible from the front and top to make placement easy in a corner or flush against a wall. Plumbing and venting connections are conveniently located and provide greater flexibility.



Multiple venting options.

Ultra Force puts an end to most venting difficulties. That's because all models may be installed using standard one-pipe venting or by using two-pipe direct venting to eliminate potential negative air pressure issues. For ease and convenience, all vents can also be run vertically or through the sidewall. Models with BTU inputs of 120K-240K have venting distances of up to 50 eq. feet using standard 3" PVC, ABS or CPVC pipe or up to 120 eq. feet using 4" PVC, ABS or CPVC pipe. Models with BTU inputs of 300K-400K have venting distances of up to 70 eq. feet using 4" PVC, ABS or CPVC pipe.

Model	Gallon Capacity	BTU/Hr. Input		First Hour Delivery		Recovery In GPH @ 100° Rise Δ		Height (Inches)	Diameter (Inches)	Depth (Inches)
		Natural	LP	Natural	LP	Natural	LP			
SUF 60 120NE	60	120,000	120,000	180	180	138	138	55 1/2	27 3/4	30
SUF 100 150NE	100	150,000	150,000	243	243	173	173	75 1/2	27 3/4	30
SUF 100 199NE	100	199,000	199,000	300	300	230	230	75 1/2	27 3/4	30
SUF 100 250NE	100	240,000	240,000	346	346	288	288	75 1/2	27 3/4	30
SUF 130 300NEA	130	300,000	300,000	440	440	349	349	75 1/2	33 1/8	39 1/8
SUF 130 400NEA	130	399,900	399,900	557	557	466	466	75 1/2	33 1/8	39 1/8

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