

CYCLONE®



COMMERCIAL GAS WATER HEATERS

AiQ™ ADAPTIVE GAS TECHNOLOGY
MAXIMUM FLEXIBILITY.
UP TO 97% EFFICIENCY.

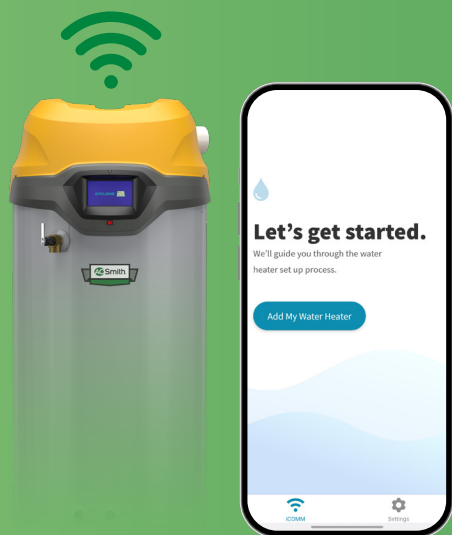




FOR ULTRA EFFICIENCY. THE BEST KEEPS GETTING BETTER.

Cyclone® Flex continues to be the most efficient A. O. Smith gas 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, Cyclone® Flex delivers 100,000 to 500,000 BTU input with up to 97% efficiency. This means greater savings and more hot water delivery for each energy dollar spent. In fact, Cyclone® Flex could pay for itself in energy savings alone.

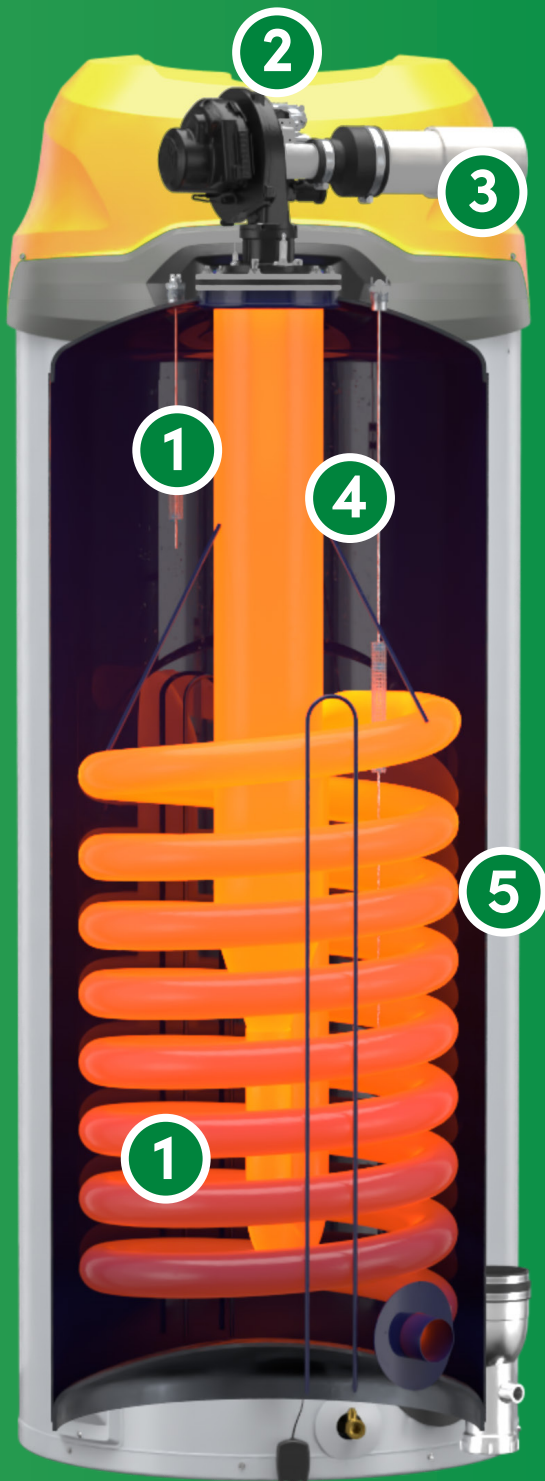
A single Cyclone® Flex unit is the ideal cost-saving choice for restaurants and other demanding commercial applications. For larger demands, multiple units can be manifolded together delivering even greater capacity and recovery – with up to 97% efficiency. Designed for efficient installations in a large variety of locations, each model features a small footprint and spacesaving design, top-mounted gas and electrical controls, and the versatility of power venting or direct venting.



**EQUIPPED WITH BUILT-IN WI-FI
CONNECTIVITY TO REMOTELY VIEW
AND MANAGE THE WATER HEATER
USING iCOMM.**



DESIGNED FOR BOTH EFFICIENCY AND DURABILITY.



1 POWER FROM THE TOP DOWN.

- Premixed burner delivers high efficiency and quiet operation
- Modulating burner automatically adjust the input needed to maximize efficiency and to meet demand
- Unique glassed helical coil heat exchanger maximizes heat transfer as hot gasses swirl throughout the spiral tube¹
- Quiet operation from optimized blower and burner combination
- Direct spark ignition provides dependable smooth ignition

2 EASIER TO INSTALL AND SERVICE.

- All controls, gas valve and the combustion air blower are 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, gas valve, flame detection, air inlet restrictions, exhaust vent restrictions, and acceptable gas supply pressure
- Proprietary control shows status of all operating parameters on large LCD display
- 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
- Built-in Wi-Fi connectivity allows for remote monitoring and control with iCOMM

4 POWERED ANODES ON ALL MODELS.

- Long-lasting titanium powered anodes protect against 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 condensation²
- Rugged thick foam insulation



3

INTELLIGENT CONTROL SYSTEM WITH 7" COLOR TOUCH DISPLAY AND iCOMM CONNECTIVITY

- Exclusive A. O. Smith touch display control system
- Provides detailed water heater status information
- Precise temperature control adjustable from 90 to 180 degrees
- Built-in diagnostics
- Run history information



FITS ALMOST ANYWHERE.

The Cyclone® Flex conveniently fits in the smallest possible space to make it the 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 providing greater flexibility.



MULTIPLE VENTING OPTIONS.

Cyclone® Flex puts an end to most venting difficulties. That’s because all models may be installed using single-pipe power venting or 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 100K-145K can be vented using 3" PVC, CPVC or polypropylene pipe up to 100 equivalent feet and 150 feet using 4" pipe. Models with BTU inputs of 150K-250K can be vented using 3" PVC, CPVC or polypropylene pipe up to 150 equivalent feet and 200 feet using 4" pipe. Models with BTU inputs of 251K-500K can be vented using 4" pipe up to 100 feet and 6" pipe up to 150 feet.

COMMON VENTING.

Up to three Cyclone® Flex series models can be common vented allowing for fewer wall penetrations, reduced installation costs, and greater flexibility in venting materials.

Model Number	Gallon Capacity	BTU/Hr. Input	First Hour Delivery	Recovery In GPH @ 100°F Rise	Height (Inches)	Diameter (Inches)	Depth (Inches)
BTH-100(A)	60	100,000,	157	115	55-1/2	27-3/4	30
BTH-120(A)	60	120,000	180	138	55-1/2	27-3/4	30
BTH-145(A)	60	145,000	207	165	55-1/2	27-3/4	30
BTH-150(A)	100	150,000	248	178	76	27-3/4	30
BTH-199(A)	100	199,900	305	235	76	27-3/4	30
BTH-250(A)	100	250,000	361	291	76	27-3/4	30
BTH-251(A)	119	251,000	372	289	75-3/4	33-1/8	39-1/8
BTH-300(A)	119	300,000	432	349	75-3/4	33-1/8	39-1/8
BTH-400(A)	119	399,900	544	460	75-3/4	33-1/8	39-1/8
BTH-500(A)	119	499,900	659	576	75-3/4	33-1/8	39-1/8

