

THE DIFFERENCE IS CLEAR.
**HOW A. O. SMITH CYCLONE® Xi BEATS RHEEM SPIDERFIRE™...
 POINT BY POINT.**



A. O. SMITH CYCLONE® Xi	RHEEM SPIDERFIRE™	THE A. O. SMITH CYCLONE® Xi ADVANTAGE
LONG AND SUCCESSFUL HISTORY	LIMITED HISTORY	Over a decade of high-efficiency experience and helical coil technology goes into every Cyclone model. Introduced in 1997, the Cyclone is by far the industry leader when it comes to high efficiency gas water heating. With well over 100,000 Cyclones installed in the field, Cyclone has a proven track record of reliable operation in all commercial applications. The limited line of Rheem SpiderFire™ models were introduced in 2010.
FULL PRODUCT OFFERING	LIMITED OFFERING	The Cyclone family of products now includes models from 76,000 BTU/Hr all the way up to 500,000 BTU/Hr with storage capacities ranging from 50-gallons to 130-gallons. With nine total models available there is a Cyclone for any commercial application. The Rheem SpiderFire series is available in only 100-gallon storage with inputs from 130,000 to 350,000 BTU/Hr.
ULTRA HIGH EFFICIENCY FOR ALL MODELS	MODEL DEPENDENT EFFICIENCY	The Cyclone models from 100,000 to 500,000 Btu feature efficiencies of either 95% or 96%. No matter what size Cyclone the jobs calls for ultra high efficiency is guaranteed by having all model sizes achieve 95% or 96%. The efficiency ratings of the various SpiderFire models ranges fro 92% to 95%. The larger 300 and 350 SpiderFire models are rated at 92% and 93% compared to 96% for the Cyclones of similar inputs.
HELICAL COIL HEAT EXCHANGER	STRAIGHT FLUE HEAT "SPIDERFIRE" EXCHANGER	The Cyclone gets its efficiency from the innovative helical coil heat exchanger. If stretched this coil would measure over thirty feet in length. The coil is glassed both internally and externally providing superior protection for years of dependable operation. The SpiderFire design uses three differing diameter straight flue tubes with baffles. Three pass straight flue design means increased welds and leak opportunities. In addition, the SpiderFire heat exchanger transitions from the first pass fire tube to the second pass dual flue tubes approximately 7" from the bottom of the tank on the water side of the tank bottom. The potential exists for scale to build up to the point it covers this key transition area.
ULTRA COAT™ GLASSING PROCESS	SPRAY-ON GLASSING	The Cyclone tank is glass coated using an industry exclusive "Ultra Coat™" glassing process. The coating is applied as a liquid and the tank is mechanically rotated to ensure all areas are evenly covered. In addition, this glassing is done after all welding has taken place. The SpiderFire design uses two differing glass processes for the tank and heat exchanger increasing the potential for uneven glassing and exposed metal areas.
LIGHTWEIGHT DESIGN	HEAVY DESIGN	The 100-gallon Cyclone design weighs approximately 555 lbs compared with 785 lbs for the SpiderFire. The Cyclone weighs less primarily due to the helical coil design and shorter height compared to the SpiderFire. The lighter design of the Cyclone makes it much easier to maneuver during installation.
COMPACT FOOTPRINT	TALL TANK DESIGN	The 100-gallon Cyclone has an overall height of 75-1/2 inches compared with 78 - 3/4 inches on the same storage capacity SpiderFire. The taller height of the SpiderFire may create a headroom issue in space restricted applications.
POWERED ANODES ON ALL MODELS	SACRIFICIAL ANODES	The Cyclone Xi design features dual powered anodes to all model sizes. Powered anodes have been proven to provide superior tank protection compared to traditional sacrificial anodes. In addition, powered anodes work in all water conditions, never need replacing, and eliminate the possibility of smelly water related to anodes. The SpiderFire uses four sacrificial magnesium anodes on all model sizes. These anodes are blocked by the top cover making replacement in the field extremely difficult.
ADVANCED ELECTRONIC CONTROLS	BASIC ELECTRONIC CONTROLS	The advanced control used on the Cyclone Xi was developed by A. O. Smith specifically for commercial water heating applications. This proprietary control offers multiple benefits and is unlike anything else available in the industry. Run history, diagnostics, and advanced temperature control are just a few of the benefits the control offers. The SpiderFire uses a more basic control system manufactured by Argus Vision. The control display features basic run information and limited diagnostics.
iCOMM™ REMOTE MONITORING	NO REMOTE MONITORING CAPABILITY	All Cyclone Xi models are iCOMM compatible which allows for remote monitoring of the water heater via the web. In addition iCOMM can provide text or e-mail notification in the event of any alert or fault condition including leak detection. In addition, the Cyclone Xi is BACnet compatible when incorporating the iCOMM communications module. This low cost service is a valuable feature for facility managers and building owners.
DUAL TEMPERATURE SENSORS	SINGLE TEMPERATURE SENSOR	The Cyclone Xi design features dual temperature sensors which help provide precise temperature control. The SpiderFire design uses a single temperature sensor located near the top of the tank.
VENTING FLEXIBILITY	LIMITED MAX VENT LENGTHS	The Cyclone Xi 199,000 model can be direct vented using 3" PVC up to 50 equivalent feet and 120 equivalent feet using 4" PVC. The same input SpiderFire model has a maximum 40 feet with 3" PVC and 65 feet with 4" PVC. The 65 foot maximum vent length found on the Spiderfire may prohibit this model from applications where longer vent runs are needed.
MAXIMUM FEATURES FOR THE MONEY	LIMITED FEATURES FOR THE MONEY	Given all the additional features Cyclone offers it remains price competitive against the competition.

SpiderFire is a registered trademark of Rheem Manufacturing Company. Sources for Rheem SpiderFire comparisons: SpiderFire spec sheet RR102C-18A, Rheem website