



# HIGH-EFFICIENCY COMMERCIAL PRODUCTS

THE RIGHT OPTION FOR  
ANY APPLICATION



# WHY TRUST A. O. SMITH COMMERCIAL?

## COMPANY HIGHLIGHTS

- A. O. Smith celebrates more than 140 years of innovation, integrity and customer satisfaction.
- Through dedicated engineering and technology efforts, A. O. Smith has been granted hundreds of patents related to our water heaters.

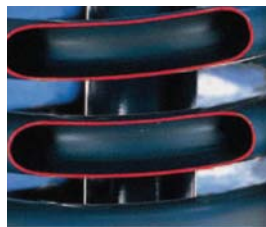
## QUALITY COMPONENTS & ACCESSORIES

When it comes to choosing the right water heater for your application, there are several crucial components to consider such as: glass lining, the heat exchanger and accessories.



## GLASS LINING

- Our PermaGlas® Ultra Coat™ glass lining provides the best protective barrier in the industry. Through a liquid slush coating process, water side surfaces are more evenly coated for increased protection. In addition, all glass lining is completed AFTER the tank welding is finished to provide less opportunity for leaks.



## HEAT EXCHANGER

- Our tank-type heaters feature a helical coil heat exchanger that keep hot combustion gases swirling and maximizes heat transfer.
- Tankless models feature a commercial-grade copper primary heat exchanger that provides much better heat transfer than stainless steel.

## ACCESSORIES

- iCOMM™ remote monitoring using Wi-Fi connectivity allows you to monitor your water heater operation using a phone or tablet from virtually anywhere. View status information and receive text or email notifications if a problem occurs.
- Common venting allows for multiple tank-type or tankless water heaters to be vented with fewer wall cuts, which reduces install labour and provides a cleaner, more professional installation.



# CYCLONE<sup>®</sup> MXI

## THE BEST ALL-PURPOSE SOLUTION.

Introduced in 1996, Cyclone water heaters have been an industry leader for over 20 years! With the largest line-up of capacities, BTU inputs and with virtually no water quality restrictions, there's a Cyclone for almost any application.

**Touch screen display** is as easy to use as your mobile phone and shows status information and operation using easy to read text and animated icons. Use **Wi-Fi** to connect with the iCOMM<sup>™</sup> app and remotely monitor your water heater directly from your phone or tablet.

<b>Model</b>	BTH-120(A) - BTH-500A
<b>Capacity</b> USG (L)	60 (227) to 119 (451)
<b>Input</b> BTU/h	120,000 to 499,900
<b>Height</b> IN (CM)	55½ (141) to 75¾ (192)
<b>Diameter</b> IN (CM)	27¾ (71) to 33⅞ (192)
<b>Shipping Weight</b> LB (KG)	BTH-120 to 250 STD 460 (208) to 523 (237)
	BTH-120 to 500 ASME 490 (220) to 855 (387)
<b>Warranty</b>	3 years tank 1 year parts
<b>Annual Operating Cost*</b>	Full-Service Restaurant (2000 USG/day): \$9,395 (BTH-199)
<b>Annual Savings VS Non High-Efficient Product**</b>	\$1,595

\*Based on calculated EF using HOT2000 software and \$1.25/therm.

\*\*Compared to standard 80% thermal efficient multi-flue using calculated EF from HOT2000 software, and parameters from Annual Operating Cost example.

**Modulating** burner fires based on demand with fewer cycles resulting in less stress on the tank.

Titanium **powered anodes** never need replacing and automatically adjust based on water conditions.

All models are 95%+ efficient and are **ENERGY STAR<sup>®</sup>** qualified.

PermaGlas<sup>®</sup> Ultra Coat<sup>™</sup> **liquid slush glass lining** covers all tank surfaces and is applied after welding for less opportunity for leaks.

**Helical coil** heat exchanger keeps hot combustion gases swirling to maximize heat transfer. Sediment doesn't build up on the heat exchanger keeping efficiencies high and extending the life of the heater.

Exhaust and condensate elbow is **located at the front** for ease of installation and service.





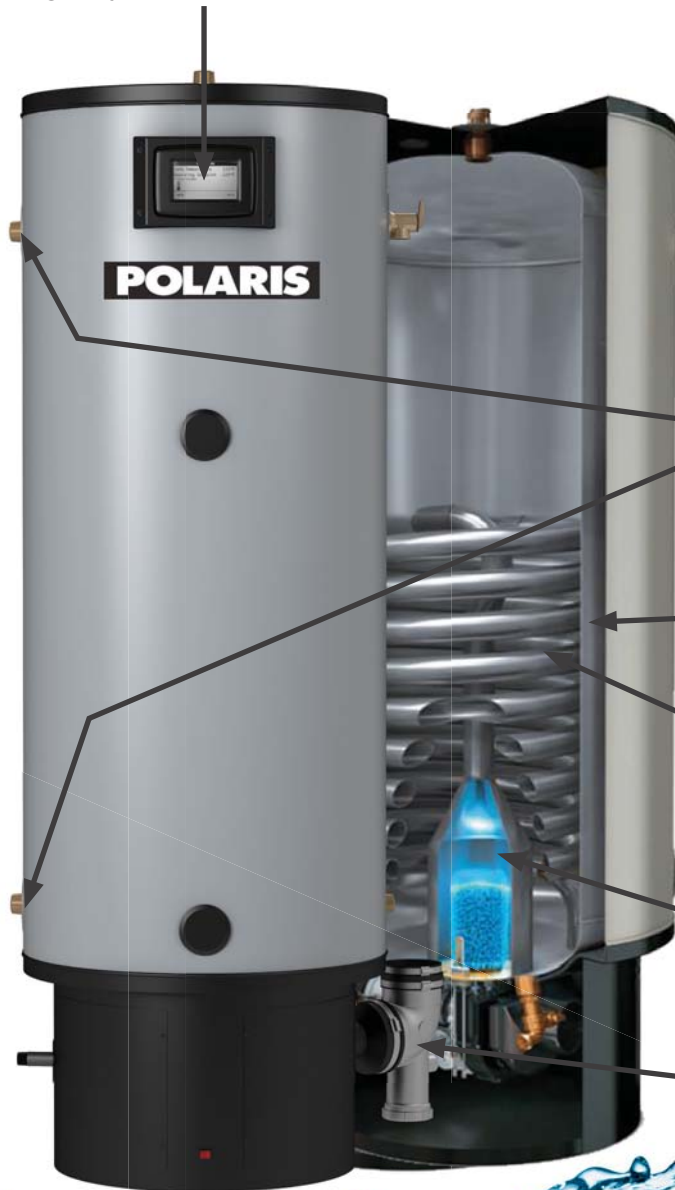
# POLARIS®

## THE STAINLESS STEEL SOLUTION.

Efficiency, installation flexibility and maximum durability all in one with condensing gas modulation, a small footprint and a stainless steel tank!

These features make Polaris a great option for small space installations and when there is aggressive water conditions.

Touch screen display is as easy to use as your mobile phone and shows status information and operation using easy to read text and animated icons.



Model	PC 34-130 to PC 50-199
Capacity USG (L)	34 (129) & 50 (189)
Input BTU/h	130,000 to 199,000
Height IN (CM)	48½ (123) to 63¾ (162)
Diameter IN (CM)	22 (56)
Shipping Weight LB (KG)	150 (68) to 180 (82)
Warranty	3 years tank 1 year parts
Annual Operating Cost*	Office Building (500 USG/day): \$2,051 (PC 50-199)
Annual Savings VS Non High- Efficient Product**	\$697

\*Based on calculated EF using HOT2000 software and \$1.25/therm.

\*\*Compared to standard 80% thermal efficient multi-flue using calculated EF from HOT2000 software, and parameters from Annual Operating Cost example.

**Side mounted hot and cold recirculation taps** for installations with a recirculation system or as part of a combined domestic hot water and space heating system.

Tank and heat exchanger are made of high-grade **444 stainless steel** to resist the harmful effects of water and increase the life of the heater.

**Helical coil** heat exchanger keeps hot combustion gases swirling to maximize heat transfer. Sediment doesn't build up on the heat exchanger keeping efficiencies high and extending the life of the heater.

**Modulating** burner fires based on demand with fewer cycles resulting in less stress on the tank.

**95 and 96%** thermal efficiency.

Exhaust and condensate elbow is **located at the front** for ease of installation and service.

# TX1

## THE 2 IN 1 SOLUTION.

An integrated tank and tankless solution, TX1 meets small to medium commercial applications providing the virtually endless hot water benefit of tankless and the dump load capacity benefit of a storage tank.

**Half tankless** offers several benefits:

- Enjoy the on-demand, endless hot water\* production of tankless.
- With the heat engine outside the tank, thermal stress is eliminated resulting in longer tank life.
- The copper primary heat exchanger in the tankless (CT-199) provides better heat transfer than stainless steel.



\*When sized appropriately.

Model	ATX-199
Capacity USG (L)	119 (451)
Input BTU/h	199,000
Height IN (CM)	72 (183)
Width IN (CM)	41 (104)
Shipping Weight LB (KG)	520 (236)
Warranty	6 years HX/tank 5 years parts
Annual Operating Cost*	Full-Service Restaurant (2000 USG/day): \$9,708
Annual Savings VS Non High- Efficient Product**	\$1,282

\*Based on calculated EF using HOT2000 software and \$1.25/therm.

\*\*Compared to standard 80% thermal efficient multi-flue using calculated EF from HOT2000 software, and parameters from Annual Operating Cost example.

**Half tank** offers several benefits:

- 119 gallon capacity means lots of available hot water for high dump loads.
- Storage tank connections means TX1 can be a direct replacement for most high-efficiency tanks.

96% thermal efficiency and **ENERGY STAR®** qualified.

**185°F** maximum temperature set point for applications that require high temperature output.

**4.1 GPM pump** can keep up with demand for high draw applications.

PermaGlas® Ultra Coat™ **liquid slush glass lining** covers all tank surfaces and is applied after welding for less opportunity for leaks.

**Longer warranty** than tank-type commercial water heaters.







# CT-199

## A PURE COMMERCIAL TANKLESS OPTION.

A high-efficiency condensing tankless model with a temperature setting and warranty that makes it perfect for the robust demands of commercial applications where space may be restricted.

Gasket inside the metal vent collars means **no gluing or cutting** vent materials for easy installation.

Model	ACT-199I
Capacity USG (L)	N/A
Input BTU/h	199,000
Height IN (CM)	23 <sup>5</sup> / <sub>8</sub> (60)
Diameter IN (CM)	17 <sup>3</sup> / <sub>4</sub> (45)
Shipping Weight LB (KG)	71 (32)
Warranty	6 years heat exchanger 5 years parts
Annual Operating Cost*	Hair Salon (1000 USG/day): \$2,995
Annual Savings VS Non High-Efficient Product**	\$2,500

\*Based on calculated EF using HOT2000 software and \$1.25/therm.

\*\*Compared to standard 80% thermal efficient multi-flue using calculated EF from HOT2000 software, and parameters from Annual Operating Cost example.

Easily connect either **plastic or stainless steel** vent materials.

**Commercial-grade copper** primary heat exchanger transfers heat faster than stainless steel.

96% thermal efficiency, and **ENERGY STAR®** qualified.

**185°F** maximum temperature set point for applications that require high temperature output.

**Multiple-unit** installations with built-in Easy-Link (up to 4) or with a Multi-Unit Controller (up to 20)

**Longer warranty** than residential tankless models used in commercial applications.



# TANKLESS RACK SYSTEM

## PRE-BUILT TO FIT YOUR APPLICATION.

A fully integrated system of tankless units mounted on wall mount, in-line or back-to-back free standing racks. Designed to reduce installation time and expense while providing a clean, professional look.



**Lightweight** aluminum frame and the industry's lightest condensing tankless heater allows for easy maneuverability.

Multiple combustion systems provide **redundancy** and peace of mind. If one unit fails, the system still produces hot water.

Uses the CT-199 model that features 96% thermal efficiency, **ENERGY STAR®** qualified and **185°F** maximum temperature setting.

**Multiple-unit** installations with built-in Easy-Link (up to 4) or with a Multi-Unit Controller (up to 20).

Fits through standard doorways and elevators for **easy installation**.

Model	Description	Configuration	Gas Input		Max GPM @ 100°F***	Dimensions IN (CM)			Shipping Weight LB (KG)
			Minimum BTU/h**	Maximum BTU/h		Length	Width	Height	
ACI-CRS-22WM-N	2 Unit Indoor Wall Mount Natural Gas		15,000	398,000	7.6	46 (117)	13 (33)	57 (145)	240 (109)
ACI-CRS-23WM-N	2 Unit Indoor Wall Mount Natural Gas		15,000	398,000	7.6	66 (168)	13 (33)	57 (145)	250 (113)
ACI-CRS-33WM-N	3 Unit Indoor Wall Mount Natural Gas		15,000	597,000	11.4	66 (168)	13 (33)	57 (145)	350 (159)
ACI-CRS-24IL-N	2 Unit Indoor Inline Natural Gas		15,000	398,000	7.6	46 (117)	30½ (77)	53 (135)	265 (120)
ACI-CRS-26IL-N	2 Unit Indoor Inline Natural Gas		15,000	398,000	7.6	66 (168)	30½ (77)	53 (135)	285 (129)
ACI-CRS-24B2B-N	2 Unit Indoor Back-To-Back Natural Gas		15,000	398,000	7.6	46 (117)	30½ (77)	53 (135)	265 (120)
ACI-CRS-36IL-N	3 Unit Indoor Inline Natural Gas		15,000	597,000	11.4	66 (168)	30½ (77)	53 (135)	387 (176)
ACI-CRS-34B2B-N	3 Unit Indoor Back-To-Back Natural Gas		15,000	597,000	11.4	46 (117)	30½ (77)	53 (135)	480 (218)
ACI-CRS-36B2B-N	3 Unit Indoor Back-To-Back Natural Gas		15,000	597,000	11.4	66 (168)	30½ (77)	53 (135)	510 (231)
ACI-CRS-44B2B-N	4 Unit Indoor Back-To-Back Natural Gas		15,000	796,000	15.2	46 (117)	30½ (77)	53 (135)	580 (263)
ACI-CRS-46B2B-N	4 Unit Indoor Back-To-Back Natural Gas		15,000	796,000	15.2	66 (168)	30½ (77)	53 (135)	620 (281)
ACI-CRS-56B2B-N	5 Unit Indoor Back-To-Back Natural Gas		15,000	995,000	19	66 (168)	30½ (77)	53 (135)	741 (336)
ACI-CRS-66B2B-N	6 Unit Indoor Back-To-Back Natural Gas		15,000	1,194,000	22.8	66 (168)	30½ (77)	53 (135)	800 (363)

\*\*\*Current numbers based on factory testing; 0.5 GPM required for activation; 0.4 GPM required for continuous fire after initial ignition.  
Propane models available. Change N to P in the model number.





# MASTER-FIT® BTRC

## A STANDARD EFFICIENCY OPTION.

For applications where efficiency is not a major factor, such as replacement or where chimney venting is required, our standard atmospheric vent BTRC is a great option.



Model	BTRC-120 – BTRC-500A
Capacity USG (L)	71 (268) to 100 (379)
Input BTU/h	120,000 to 500,000
Height IN (CM)	67½ (171) to 81½ (207)
Diameter IN (CM)	27¾ (71) to 30¼ (77)
Shipping Weight LB (KG)	STD 512 (232) to 670 (304)
	ASME 661 (300) to 844 (383)
Warranty	3 years tank 1 year parts





# COMMERCIAL

## HIGH-EFFICIENCY LINEUP.



**Cyclone® MXi  
Tank-Type  
Commercial**



**Polaris® Tank-Type  
Commercial**



**TX1  
Integrated  
Tankless/Storage  
Tank**



**CT-199  
Commercial  
Tankless**



**Tankless  
Rack  
System**

Product	Cyclone® MXi Tank-Type Commercial	Polaris® Tank-Type Commercial	TX1 Integrated Tankless/Storage Tank	CT-199 Commercial Tankless	Tankless Rack System
Application	All-Purpose Solution, Quick/Full Serve Restaurant, Multi-Unit Installation	Stainless Steel Solution, Recirculation Systems, Combined Hot Water/ Space Heating	2 in 1 Solution, Quick/Full Serve Restaurant, Multi-Unit Installation, Tank-Type Replacement	Pure Commercial Tankless Solution, Hair Salon, Dairy Barn, Space Restricted	Pre-Built Solution, Hotel, Condominium, Dormitory
Warranty	3 years tank 1 year parts	3 years tank 1 year parts	6 years heat exchanger 5 years parts	6 years heat exchanger 5 years parts	6 years tankless unit 5 years parts 1 year rack







A. O. Smith Enterprises Ltd.  
599 Hill Street West  
Fergus, ON N1M 2X1

[www.hotwater.com](http://www.hotwater.com)