COMMERCIAL GAS
TANKLESS WATER HEATER

ADAPT® PREMIUM CONDENSING COMMERCIAL GAS TANKLESS

Introducing A. O. Smith's ADAPT® Premium condensing commercial gas tankless water heater, delivering high efficiency, on-demand performance with the flexibility to install in practically any commercial setting. With a 96% Thermal Efficiency, a 0.95 Uniform Energy Factor (UEF), and Ultra-Low NOx emissions, the ADAPT® commercial tankless heater lowers operating costs while satisfying environmental standards.

FEATURES:

HEAVY DUTY STAINLESS-STEEL HEAT EXCHANGER DESIGN

- Single stainless steel, heavy-duty heat exchanger design eliminates most internal welds and improves overall reliability
- More resilient to scale buildup and corrosion

PERFORMANCE & EFFICIENCY

- 199,000 BTU/h
- 9,000 BTU min. input
- 22:1 turndown ratio
- Max flow rate 10.5 GPM; 0.4 GPM activation; 0.26 GPM for continuous fire
- 0.95 UEF, ENERGY STAR® certified
- 96% thermal efficiency
- Temperature range 100°F (38°C) - 185°F (85°C); Default 140 F (60°C)
- Ultra Low NOx

ULTIMATE FLEXIBILITY EASE OF INSTALLATION

- Natural gas & liquid propane models available
- ½" gas line or larger
- Exhaust venting, 2" PVC up to 75' (23 m); 3" PVC up to 150' (45.7 m)
- Cat. IV venting may be used
- Flexible venting with PVC, CPVC, polypropylene, or ABS pipe (solid core only)
- Common vent up to 12 units
- Cascade up to 32 units with single cable per heater, cable included
- Wi-Fi and Building Maintenance System (BMS) connectivity (accessory modules sold separately)
- Optional X3™ Scale Prevention Technology* (cartridge sold separately)

WARRANTY

- 8-year limited warranty on heat exchanger in commercial applications
- 5-year limited warranty on all parts in commercial applications

*Not suitable for commercial recirculation systems with dedicated return lines where returning water temperatures may exceed 120°F.



ACTH-199M-N

ENERGY STAR

AHRI CERTIFIED®
www.ahridirectory.org

CSA/ANSI Z21.10.3 • CSA 4.3

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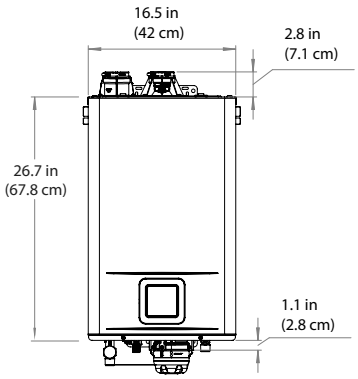
		ACTH-199M-N	ACTH-199M-P
Installation Type		Indoor	
X3™ Scale Prevention Technology		Optional Accessory	
Thermal Efficiency		96%	
Uniform Energy Factor (UEF)		0.95	
Gas Consumption Input	Min. BTU/H	9,000	
	Max. BTU/H	199,000	
Fuel Type		Natural Gas	Liquid Propane
Heat Exchanger		Stainless Steel	
Maximum GPM*		10.5 GPM	
Activation GPM		0.4 GPM	
Continuous Fire GPM		0.26 GPM	
Water Pressure Min. - Max.		15 - 150 PSI (0.1 - 1 MPa); 40 PSI Recommended for Maximum Flow	
Supply Gas Pressure (NG)	Min. in W.C. (kPa)	3.5 (0.9)	
	Max. in W.C. (kPa)	10.5 (2.6)	
Supply Gas Pressure (LP)	Min. in W.C. (kPa)	8.0 (2)	
	Max. in W.C. (kPa)	13.0 (3.2)	
Hot/Cold Connections		3/4" NPT	
Gas Connection		1/2" NPT	
Temperature Settings Min. - Max.		100°F (38°C) - 185°F (85°C); Default 140°F (60°C)	
Ignition System		Electronic Ignition	
Power Supply		120V, 60Hz, <5A	
Sound Level		50.3 dB*	
Elevation		Certified from Sea Level to 10,100' (3,078.5 m)	
Freeze Protection+		- 5°F (-21°C)	
Venting - Exhaust, Intake	Type	Power Direct Vent	
	Size, Max Run	2", 75' (5.08 cm, 22.9 m); 3", 150' (7.6 cm, 45.7 m)	
	Material	Cat. IV; PVC, CPVC, Polypropylene (Solid Core Only), Power Vent	
Dimensions - Unit	Height**	33.8" (85.9 cm); with optional X3™ cartridge 41.8" (106.2 cm)	
	Width	16.5" (42 cm)	
	Depth	16.1" (41 cm)	
	Weight	102 lb. (46.3 kg)	
Dimensions - Shipping***	Height	20.8" (52.7 cm)	
	Width	22.3" (56.5 cm)	
	Depth	40" (101.6 cm)	
	Weight	117 lb. (53.1 kg)	

Energy Star® certified.
*Current numbers based on factory settings
**Height with required Bypass cartridge installed. From flue collar to cartridge base.
***Packaged and shipped on unit back.
+Internal freeze protection for heater only; both Bypass cartridge and X3™ cartridge require anti-freeze kits sold separately
Included with Heater: Manual, Wall Mounting Bracket and Hardware, Vent Port Screws, Cascading Cable, Bird Screens

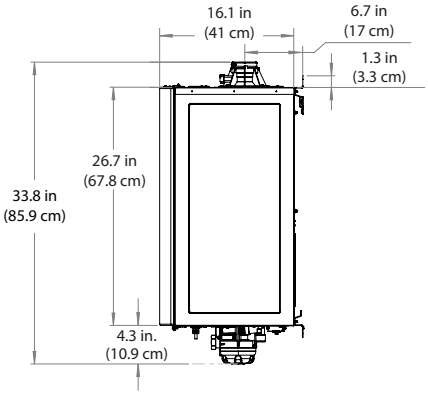
COMMERCIAL GAS
TANKLESS WATER HEATER

ADAPT® PREMIUM CONDENSING COMMERCIAL TANKLESS DIMENSIONS

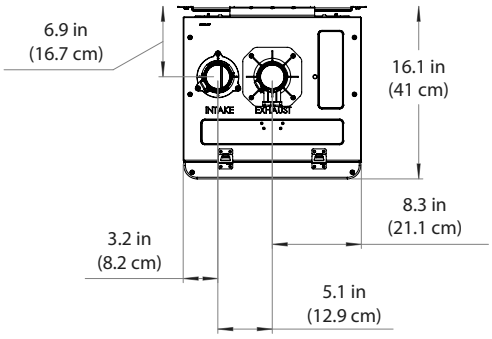
FRONT



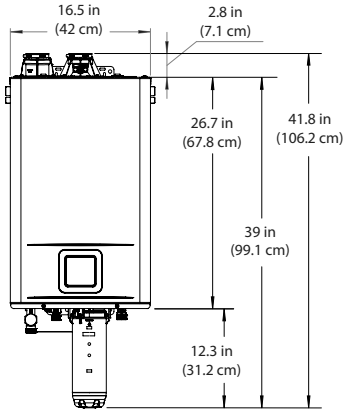
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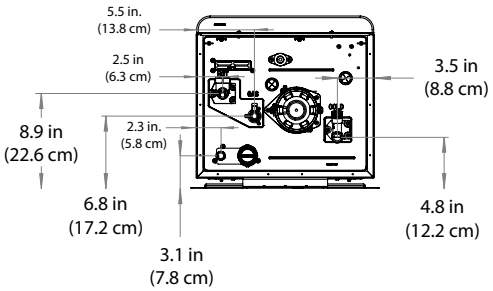
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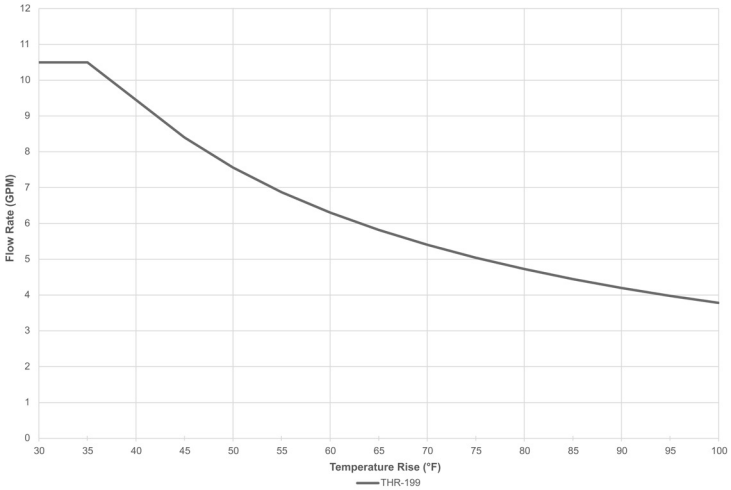
FRONT
(SHOWN WITH OPT. X3™ CARTRIDGE)



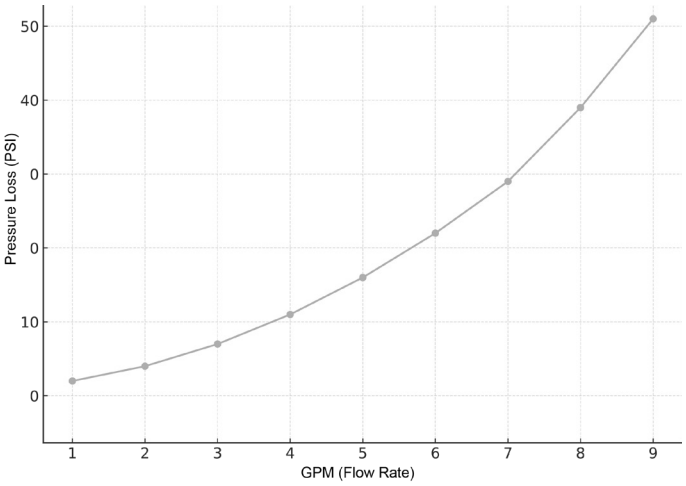
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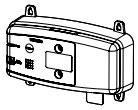
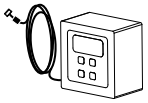
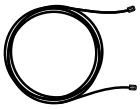
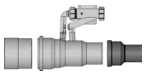
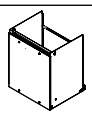
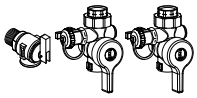
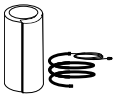
THR FLOW RATE CAPACITY



PRESSURE LOSS



ADAPT® PREMIUM CONDENSING COMMERCIAL TANKLESS

Item		Description
Wi-Fi Module Kit 100402143		Wi-Fi Module for electronically connectng tankless water heaters to the internet and adapter to connect to the water heater. • Module (1x) • Cable (1x) • Adapter (1x)
Remote Temperature Controller 100402144		Remote Temperature Controller with 10′ (3 m) cable.
Communication Cable - 10′ (3 m) 100377341 **Communication Cable - 32′ (10 m) 100377342**		Replacement Communication Cable for Remote Temperature Controller or WIFI Module, or On-Demand Receiver, 10′ (3 m). Extended Communication Cable for Remote Temperature Controller or WIFI Module, or On-Demand Receiver, 32′ (10 m).
Non-Return Vent Adapter Kit. 100402142		For common vent installations only.
Bypass Freeze Protection (M Models) 100371918		Bypass Freeze Protection can add an extra layer of freeze protection to external Bypass cartridge. Cartridge not protected by heater's internal freeze protection.
Pipe Cover 100374697		Pipe Cover protects plumbing connections to the heater while improving the appearance of the installation. Affixes to bottom of heater.
Neutralizer Assembly Kit 100112159		Neutralizer Assembly neutralizes the condensate (acidic water) that forms in the heat exchanger of the water heater. It connects to the condensate drain port of the water heater by using connectors included with the neutralizer kit.
Isolation Valve Kit with Pressure Relief Valve 100112156		Isolation Valve supports routine maintenance and allows for draining and flushing the heater; whereas, the Pressure Relief Valve, as the name implies, serves to limit internal pressure in the system. Not necessary for X3™ models. Check local codes for applicability.
X3™ Cartridge 100368986		Can be installed to add an additional layer of scale prevention in extreme hard water conditions. Suitable for use in commercial applications where return water temperature does not exceed 120°F (49°C).
X3™ Freeze Protection (X3™ Models) 100325654		X3™ Cartridge Freeze Protection can add an extra layer of freeze protection to external SCM cartridge. Cartridge not protected by heater's internal freeze protection.
Cross Over Valve Kit 100327167		For plumbing systems without a dedicated return line necessary for recirculation system funcationality. Install at the faucet furthest from the hot water heater.
Product Preserver Anti-Scale System (PP-AS20) 100291509 **Replacement Cartridge (PP-AS20R) 100291510**		Can be installed on the cold water line upstream of the tankless heater to add an additional layer of scale prevention.

For Technical Information, call 888-599-2837. A. O. Smith Enterprises Ltd. reserves the right to make product changes or improvements without prior notice.

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ADAPT® PREMIUM CONDENSING COMMERCIAL TANKLESS SPECIFICATIONS

The fully modulating, on-demand, condensing gas fired tankless water heater(s) shall be A. O. Smith model ACTH-199M, having a maximum input rating of 199,000 Btu/h and available in Natural Gas or field convertible to LP.

The heater shall provide a 96% thermal efficiency. The heater shall have a 22:1 turndown ratio capable of delivering a maximum flow rate of 10.5 GPM, with an activation flow rate of 0.4 GPM and continuous-fire capability at 0.26 GPM. The heater shall provide an output temperature range of 100°F – 185°F. The heater shall have ¾ in. male NPT water connections and ½" gas connections. The inlet gas supply pressures shall be 3.5 in. WC (min.) up to 10.5 in. WC (max) for NG and 8.0 in. WC (min.) up to 13 in. WC (max.) for LP. The operating water pressure range shall be 15-150 psi, with 40 psi recommended for maximum flow capability.

The heater(s) shall operate using 120 V / 60 Hz power source. The heater(s) shall incorporate an onboard electronic control system providing temperature adjustment, safety monitoring, ignition control, system diagnostics, and communication for cascading. The heater(s) shall be capable of cascading up to 32 units using the supplied communication cable with single-cable daisy-chain connectivity. Optional Wi-fi and Building Management System modules shall be available for remote monitoring and control. The heater(s) shall include factory-installed sensors for water temperature, flow rate, combustion safety, and exhaust monitoring. Internal components shall include an electronic ignition system, stainless-steel burners, modulating gas valve, and the required high-limit temperature protections.

The indoor heater(s) shall be vented with 2" or 3" diameter Category IV vent pipe, PVC, CPVC, or Polypropylene with a length not to exceed 75 ft. (equivalent) for 2" vent or 150 ft. (equivalent) for 3" vent, terminating horizontally or vertically. Each 90-degree elbow counts as 5 feet of vent length, and each 45-degree elbow counts as 2.5 feet (maximum of 5 elbows).

The heater models are design certified by CSA according to ANSI Z21.10.3 · CSA 4.3, ENERGY STAR® qualified, has a minimum uniform energy factor (UEF) of 0.95, meets the energy efficiency requirements of ASHRAE 90.1, complies with air quality districts with requirements for low NOx emissions of 14 ng/J or 20 ppm, and shall be certified to NSF 5 standards.

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