



# THE RIGHT OPTION FOR ANY JOB

We know that in your line of work, no two projects are the same. That's why A. O. Smith offers the most complete line of commercial water heaters featuring innovative gas, electric, hybrid and tankless technologies. As the industry leader, we continually develop new solutions to give you the best options for any job you decide to take on.



# Commercial Product Comparison

The right water heater for any spec job

















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CYCLONE® FAMILY			MASTER FIT® FAMILY			CIRCULATING			COMMERCIAL ELECTRIC			TANKLESS														
Thermal Efficiency	90%		96%		UP TO 98%		80%		80%		96%		86%		84%		98%		98%		98%		95%		80%	
Top Product Features	<ul style="list-style-type: none"><li>Helical heat exchanger lengthens the heat transfer cycle.</li><li>Intelli-Vent™ gas control with silicon nitride hot surface ignitor provides precise temperature control and eliminates standing pilot.</li><li>Blue Diamond® glass coating with two heavy duty anode rods for corrosion resistance.</li></ul>		<ul style="list-style-type: none"><li>Helical heat exchanger lengthens the heat transfer cycle.</li><li>Blue Diamond® glass coating with two heavy duty anode rods for corrosion resistance.</li><li>Easy-to-read intelligent control system with LCD display.</li></ul>		<ul style="list-style-type: none"><li>Modulating burner adjusts firing rate to increase efficiency and save money.</li><li>Helical heat exchanger lengthens the heat transfer cycle.</li><li>Easy-to-read intelligent control system with LCD display.</li></ul> <div>Common Vent Capable Kits available in both PVC and polypropylene</div>		<ul style="list-style-type: none"><li>Efficient automatic flue damper minimizes standby heat loss.</li><li>Inlet/outlet connections located top, front and rear for installation flexibility.</li><li>Space-saving units are up to one foot shorter than models they replace.</li><li>Installs stand-alone, manifolded or connected to storage tanks.</li></ul>		<ul style="list-style-type: none"><li>Fan-assisted Category I, Ultra Low NOx combustion.</li><li>A stainless steel air flapper minimizes standby heat loss and reduces height.</li><li>Inlet/outlet connections located top, front and rear for installation flexibility.</li><li>Fully automatic digital controls with safety shutoff.</li></ul>		<ul style="list-style-type: none"><li>Multi-pass/multi-burner stainless steel heat exchanger optimizes efficiency.</li><li>Advanced modulating control.</li><li>Multiple burner operation provides redundancy for greater reliability.</li></ul>		<ul style="list-style-type: none"><li>Advanced high efficiency, Low NOx combustion technology.</li><li>Advanced modulating control.</li><li>All bronze factory-sized pump standard.</li><li>High efficiency copper fin tube heat exchanger.</li></ul>		<ul style="list-style-type: none"><li>Electronic control with precise temperature management.</li><li>Stage gas firing system.</li><li>Copper finned tube heat exchanger.</li></ul>		<ul style="list-style-type: none"><li>Tank interior is coated with glass specially designed by A. O. Smith for water heater use.</li><li>Most models convert to three-phase or single-phase in field for easy installation.</li><li>Elements feature zinc-plated copper sheaths for longer life.</li></ul>		<ul style="list-style-type: none"><li>Patented Goldenrod® 24k gold-plated elements extend element life by resisting scaling and damage.</li><li>Power-circuit fusing protects all elements, thermostats, and internal wiring circuits against excess current flow.</li><li>Terminal block comes factory installed for easy installation.</li><li>DVE models come with LCD control to reduce surges, control temperature and display operational information in English.</li></ul>		<ul style="list-style-type: none"><li>Advanced electronic control with large LCD display provides precise temperature control and English text with animated icons.</li><li>Industrial-grade, bolt on, immersion Incoloy sheathed heating elements are designed for rugged, long-lasting commercial service.</li></ul>		<ul style="list-style-type: none"><li>Commercial grade primary copper heat exchanger protects against erosion.</li><li>Corrosion-resistant secondary 316L stainless heat exchanger.</li><li>Safety features include freeze, overheat, surge protection and troubleshooting diagnostic codes.</li></ul> <div>Available in Rack Systems from 4 to 20 units up to 1.592 million BTUs</div>		<ul style="list-style-type: none"><li>Commercial grade primary copper heat exchanger protects against erosion.</li><li>Corrosion-resistant secondary 316L stainless heat exchanger.</li><li>Safety features include freeze, overheat, surge protection and troubleshooting diagnostic codes.</li><li>Continuous maximum flow rates of up to 14.5 GPM.</li></ul>	
Venting Options	POWER VENT		POWER VENT & POWER DIRECT VENT		POWER VENT & POWER DIRECT VENT		ATMOSPHERIC		ATMOSPHERIC		POWER VENT & DIRECT VENT		POWER VENT & DIRECT VENT		POWER VENT & DIRECT VENT		– NA –		– NA –		– NA –		DIRECT VENT		DIRECT VENT	
Venting Materials	Vents using Schedule 40 PVC, CPVC or Polypropylene Pipe		Vents using PVC, CPVC or Polypropylene Pipe		Vents using PVC, CPVC or Polypropylene Pipe		Metal Venting, Standard Double Wall Type “B” Vent		Metal Venting, Standard Double Wall Type “B” Vent		PVC/CPVC/AL29-4C and Polypropylene Pipe		AL29-4C Stainless Steel		Category I, III and VI		– NA –		– NA –		– NA –		PVC, CPVC, PP, ABS, SS		5” Category III Stainless Steel	
ENERGY STAR® Qualified	NO		YES		YES		NO		NO		YES		NO		NO		NO		NO		NO		YES		NO	
Warranty	3-Year Limited Tank 1-Year Limited Parts		3-Year Limited Tank 1-Year Limited Parts		3-Year Limited Tank 1-Year Limited Parts		3-Year Limited Tank 1-Year Limited Parts		3-Year Limited Tank 1-Year Limited Parts		5-Year Heat Exchanger		5-Year Heat Exchanger		5-Year Heat Exchanger 1-Year Parts		3-Year Limited Tank		3-Year Limited Tank 1-Year Limited Parts		3-Year Limited Tank		15-Year Residential 10-Year Commercial		15-Year Residential 10-Year Commercial	
Codes and Standards	<ul style="list-style-type: none"><li>Meets UBC, CEC and HUD national codes</li><li>Meets DOE thermal efficiencies and standby requirements and ASHRAE/IES 90.1</li><li>AHRI Certified</li></ul>		<ul style="list-style-type: none"><li>CSA certified</li><li>Meets DOE thermal efficiencies and standby requirements and ASHRAE/IES 90.1</li><li>Approved for Canada</li><li>Complies with SCAQMD Rule 1146.2 for Low NOx emissions</li><li>AHRI Certified</li></ul>		<ul style="list-style-type: none"><li>CSA certified</li><li>Meets ASHRAE/IESNA 90.1 requirements</li><li>Meets NSF 5 standard</li><li>Complies with SCAQMD Rule 1146.2 for Low NOx emissions</li><li>ASME tank construction optional on all models</li><li>AHRI Certified</li></ul>		<ul style="list-style-type: none"><li>CSA certified</li><li>Meets DOE thermal efficiencies and standby requirements and ASHRAE/IES 90.1</li><li>Meets NSF 5 standard</li><li>Optional ASME tank construction available on select models</li><li>AHRI Certified</li></ul>		<ul style="list-style-type: none"><li>CSA certified</li><li>Meets DOE thermal efficiencies and standby requirements and ASHRAE/IES 90.1</li><li>Meets NSF 5 standard</li><li>Optional ASME tank construction available ton select models</li><li>AHRI Certified</li></ul>		<ul style="list-style-type: none"><li>Meets DOE thermal efficiencies and standby requirements and ASHRAE/IES 90.1</li><li>CSA certified</li><li>AHRI Certified</li></ul>		<ul style="list-style-type: none"><li>Meets DOE thermal efficiencies and standby requirements and ASHRAE/IES 90.1</li><li>CSA certified</li></ul>		<ul style="list-style-type: none"><li>Meets ASHRAE/IESNA 90.1-2004</li><li>CSA certified</li><li>ASME HLW</li><li>Meets SCAQMD Rule 1146.2 air quality standards</li></ul>		<ul style="list-style-type: none"><li>Meets DOE thermal efficiencies and standby requirements and ASHRAE/IES 90.1</li><li>UL Approved Field Conversion Program</li><li>AHRI certified</li></ul>		<ul style="list-style-type: none"><li>CSA certified</li><li>ASME rated T&amp;P relief valve</li><li>AHRI Certified</li></ul>		<ul style="list-style-type: none"><li>CSA certified</li><li>Meets NSF 5 standard</li><li>ASME HLW</li><li>UL</li><li>AHRI certified</li></ul>		<ul style="list-style-type: none"><li>ASME models available</li><li>Complies with SCAQMD Rule 1146.2 for Low NOx emissions</li><li>Complies with lead-free standards</li><li>CSA certified</li><li>AHRI certified</li></ul>		<ul style="list-style-type: none"><li>ASME models available</li><li>Low NOx emissions</li><li>Complies with lead-free standards</li><li>CSA certified</li><li>UPC</li><li>Meets NSF 5 standard</li><li>ASME HLW</li></ul>	
iCOMM/iCOMM Elite	NO		YES		YES		NO		NO		NO		NO		NO		NO		DVE ONLY		YES		NO		NO	
BACnet / Modbus	– NA –		BACnet/Modbus		BACnet/Modbus		– NA –		– NA –		BACnet/Modbus		Contacts for 0-10 VDC BMS		– NA –		– NA –		BACnet/Modbus (DVE models)		BACnet/Modbus		– NA –		– NA –	
Gallon Capacity Range	50		50 – 75		60 – 119		65 – 100		81 – 100		Requires storage tank		Requires storage tank		Requires storage tank		6 – 119		50 – 120		50 – 120		TANKLESS		TANKLESS	
Input BTUH Range	76,000		100,000		120,000 – 499,900		120,000 – 500,000		199,000 – 390,000		1 million – 3.4 million		500,000 – 2 million		399 – 2070		– NA –		– NA –		– NA –		15,000 – 199,000		15,000 – 380,000	
Recovery Capacity (100°F GPH)	83		116		138 – 576		100°F: 116 – 485 40°F: 291 – 1212		100°F: 119 – 385 40°F: 298 – 962		1,037 to 3,833 GPH at 100°F rise		527 to 2,109 at 100°F rise		412 to 2133 at 100°F rise		36 – 126		25 – 221		12 – 369		– NA –		– NA –	

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