

MASTER-FIT™ BTRC-500A

The Master-Fit™ BTRC-500A provides outstanding performance and maximum installation flexibility for both new construction and replacement applications. Multiple options for placement of water connections and low installation clearances are additional installer-friendly features.

FACTORY-INSTALLED INDUCED DRAFT DESIGN

THREE WATER CONNECTION OPTIONS FOR ADDED FLEXIBILITY

- Hot and cold water connections can be made through front, top or back of unit
- Eliminator™ system operates when cold water is connected through front

PERMAGLAS® ULTRA COAT™ GLASS LINING

- Exclusive process provides superior protection against corrosion
- CoreGard™ anode rods with stainless steel core provide additional corrosion protection

INTERMITTENT ELECTRONIC IGNITION

- Eliminates standing pilot, saves energy
- Includes power ON/OFF switch
- Provides flame failure response in less than one second

FACTORY- INSTALLED, CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE

MAXIMUM HYDROSTATIC WORKING PRESSURE: 160 PSI

CODES AND STANDARDS

- Design-certified by UL (Underwriters Laboratories), according to ANSI Z.21.10.3 - CSA 4.3 standards governing storage-type water heaters
- Meets the thermal efficiency and standby loss requirements of the U. S. Department of Energy and current edition of ASHRAE/IESNA 90.1
- Design-certified by Underwriters Laboratories Sanitation to NSF Standard 5 for 180°F (82°C) water

THE ELIMINATOR™ SELF-CLEANING SYSTEM

- Designed to significantly reduce or eliminate sediment build-up inside the tank
- Reduced sediment build-up maintains rated thermal efficiency and reduces water heating costs
- Self-cleaning system maximizes tank life

3-YEAR LIMITED TANK / 1-YEAR LIMITED PARTS WARRANTY

- For complete warranty information, consult written warranty or go to hotwatercanada.ca



BTRC-500A

THE ELIMINATOR™ SELF-CLEANING SYSTEM



ON SELECT MODELS





Commercial Gas Water Heaters

OTHER MASTER-FIT™ FEATURES

FULLY AUTOMATIC CONTROL SYSTEM

- Manual-reset gas shut-off device prevents excessive water temperature
- Adjustable thermostat with 120°F (49°C) — 180°F (82°C) range
- Gas pressure regulator and pilot filter

HANDHOLE CLEANOUT

- Allows easy access to tank interior for cleaning

PLUG KITS

- Pipe nipples and caps included to plug unused water connections MASTER-FIT™ OPTIONS:

MANIFOLD KITS FOR MULTIPLE HEATER INSTALLATIONS

- 2-unit kit, Part Number 100109228
- 3-unit kit, Part Number 100109229
- 4-unit kit, Part Number 100109230

OPTIONAL LEG KIT TO MEET NSF STANDARD 5

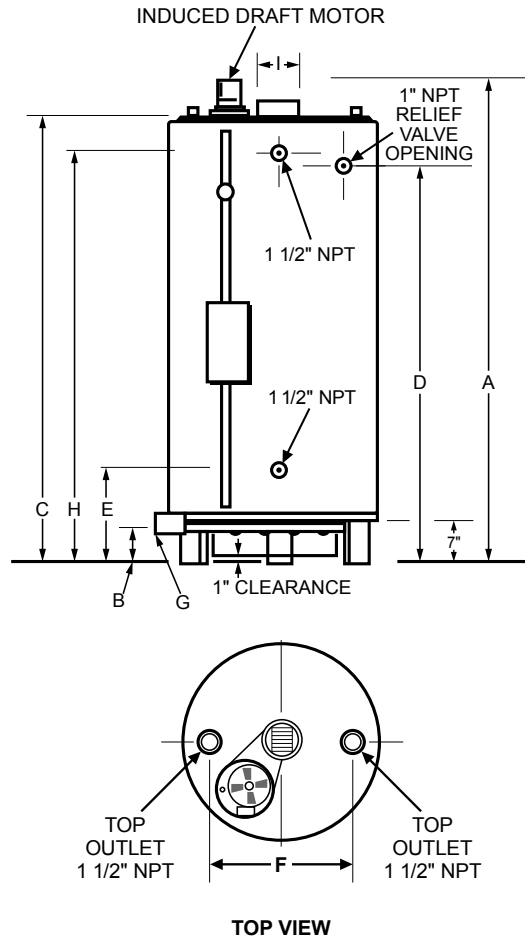
- Part Number 100109227

MECHANICAL VENTING KITS

- Field wiring should conform to latest version of the National Electric Code ANSI/NFPA No.70
- For more information, consult manual shipped with water heater or contact the A. O. Smith Technical Support at 888-599-2837

Water Connections in Inches						
Model Number	Inlet			Outlet		
	Top	Front	Back	Top	Front	Back
BTRC-500A	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2

"A" in model number represents ASME construction.



Dimensions

Model Number	Inches or CM	Dimensions										Approx. Shipping Weight	
		A	B	C	D	E	F	G	H	I	J	Standard	ASME
BTRC-500A†*	Inches	81-1/2"	17.5"	77-1/4"	67-1/2"	27-1/8"	21"	1"	67-1/2"	8"	27-3/4"	812 lbs.	857 lbs.
	CM	209	44	196	171	69	53	3	171	20	70	368 Kg	389 Kg

Specify when ordering propane (LP) gas.

*Model shipped with a 8" x 6" flue outlet adapter.

Standard models certified for sea level to 2,000 ft. elevation. Order SMR S54 for elevations up to 8,000 ft.

† This model features induced draft design and no damper.

Back side water connections, Inlet and outlet, are represented by "E" and "H" respectively for height dimensions.

"A" in model number represents ASME construction.



Commercial Gas Water Heaters

CAPACITY, INPUT AND OUTPUT

Model Number	Input BTU/HR	Gallons or Litres	Tank Size	Litres	Recovery - Gallons or Litres Per Hour at Degree Rise		
					40°F	100°F	140°F
					22°C	56°C	78°C
BTRC-500A†*	500,000	U.S. Gallons	85	GPH	1212	485	346
		Litres	322	LPH	4588	1835	1311

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Standard models certified for sea level to 2,000 ft. elevation. Order SMR S54 for elevations up to 8,000 ft.

† This model features induced draft design and no damper.

Recovery based on 80% efficiency.

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SPECIFICATION

(Natural or Propane) gas water heater(s) shall be A. O. Smith Master-Fit™ model # _____ or equal, with a storage capacity of _____ gallons, an input rating of _____ BTUs per hour, a recovery rating of _____ gallons per hour (gph) at 100°F (38°C) rise and a maximum hydrostatic working pressure of 160 psi. Water heater(s) shall be protected against overheating caused by the buildup of scale, film and other sediment by a self-cleaning device, positioned inside the tank so that it directs the flow of inlet water to keep precipitated solids in suspension so that they are removed from the water heater on that or successive draws. Glasslined water heater(s) shall also be protected against electrolytic corrosion by multiple factory-installed anode rods. In addition, water heater(s) shall: 1) Be equipped with an integrated control system consisting of a 180°F (82°C) adjustable thermostat with upper and lower sensing bulbs. 2) Be equipped with intermittent electronic ignition, a manual reset gas shutoff device, a gas pressure regulator, factory-installed, CSA Certified and ASME Rated T&P relief valve and 2-3/4" x 3-3/4" tank inspection port. 3) Be design-certified by UL (Underwriters Laboratories) to current edition of ANSI Z.21.10.3 - CSA 4.3 standards governing storage-type water heaters. 4) Meets the thermal efficiency and standby loss requirements of the U. S. Department of Energy and Current Edition of ASHRAE/ IESNA 90.1. 5) Have a 3-year limited warranty against corrosion as outlined in the written warranty.

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