

POWERED BURNER MODELS LARGE-VOLUME POWERED BURNER

FEATURES

The large-volume powered burner line includes the largest, most powerful A. O. Smith tanktype gas water heaters. With tank capacities up to 600 gallons and firing capacities up to 2.5 million BTUs per hour, these large-volume high-output water heaters are capable of producing over 3,000 gallons (GPH) of hot water per hour at an 80°F rise. These heavy-duty industrialgrade water heaters are designed and built to handle the most demanding hot water heating requirements of large commercial and industrial users.

POWERED GAS BURNER

- Suitable for natural or propane gas
- Electronic flame safeguard control with intermittent spark ignition
- Main and pilot automatic gas valves with gas pressure regulators
- Diaphragm air switch for proof of blower operation
- Flame inspection port

FULLY AUTOMATIC CONTROLS WITH SAFETY SHUTOFF

- High-temperature limit control (manual reset)
- CSA certified and ASME rated T&P relief valve
- Hinged-door control compartment for easy access
- Upper and lower thermostats for accurate temperature control
- Standard control is for 120°-180°F water service
- Factory-installed low-water cutoff

BLUE DIAMOND® GLASS LINING

- Proprietary A. O. Smith glass lining provides superior coverage and unmatched durability
- Equipped with multiple anode rods for additional corrosion protection

HEAVY-DUTY JACKET

- Heavy-gauge steel jacket with baked powder-coated finish for durability
- Two 3" handhole inspection openings

MAXIMUM HYDROSTATIC WORKING PRESSURE

• All models: 160 psi

PROFESSIONAL START-UP SERVICE

- FACTORY START-UP INCLUDED
- Required for activating warranty and assuring maximum operating performance. Contact your local sales representatives or Authorized Start-Up Agent to arrange a FREE certified start-up.
- Assures proper installation and adjusts burner for clean combustion and most efficient operation

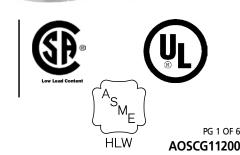
CODES AND STANDARDS

- Design-certified by UL (Underwriters Laboratories), according to ANSI Z21.10.3-4.3 CSA Standards
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1

OPTIONAL LOW NOX BURNERS

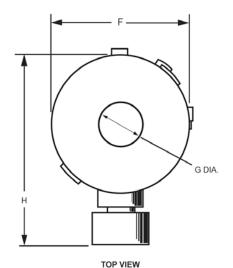
- Low NOx burners from 400,000 BTUH up to 2 million BTUH
- Complies with Texas Low NOx and Air Quality Management Districts with requirements of less than 30 ppm

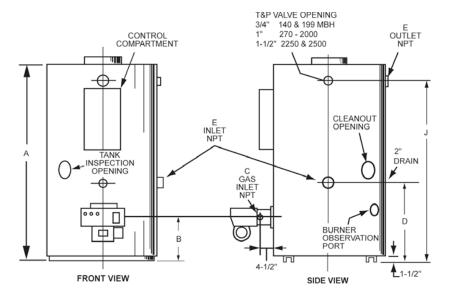
MODELS BTP 150-140 through BTP 600-2500



🐼 Smith







DIMENSIONS AND SHIPPING WEIGHTS

	INCHES OR CM	DIMENSIONS									SHIPPING
MODEL NUMBER		A	В	C	D	E	F	G	Н	J	WEIGHT WITH BURNER
BTP-150-140	INCHES	82 1/4	13 1/2	1/2	29 1/4	1 1/4	36 1/2	5	47†	73 1/2	1292 Lbs.
D11-130-140	СМ	208.9	34.3	1.3	74.3	3.2	92.7	12.7	119.4	186.7	586 Kg
BTP-150-199	INCHES	82 1/4	13 1/2	1/2	29 1/4	1 1/4	36 1/2	6	47†	73 1/2	1292 Lbs.
DTF-130-133	СМ	208.9	34.3	1.3	74.3	3.2	92.7	15.2	119.4	186.7	586 Kg
BTP-150-255	INCHES	82 1/4	13 1/2	1/2	29 1/4	1 1/4	36 1/2	6	47†	73 1/2	1292 Lbs.
BTF-150-255	СМ	208.9	34.3	1.3	74.3	3.2	92.7	15.2	119.4	186.7	586 Kg
BTP-150-270	INCHES	82 1/4	13 1/2	1	29 1/4	1 1/4	36 1/2	6	57 1/2	73 1/2	1397 Lbs.
DIF-150-270	СМ	208.9	34.3	2.5	74.3	3.2	92.7	15.2	146.1	186.7	633.7 Kg
BTP-150-400	INCHES	82 1/4	13 1/2	1	29 1/4	1 1/4	36 1/2	7	57 1/2	73 1/2	1397 Lbs.
DIF-150-400	СМ	208.9	34.3	2.5	74.3	3.2	92.7	17.8	146.1	186.7	633.7 Kg
BTP-150-540	INCHES	82 1/4	13 1/2	1	29 1/4	1 1/4	36 1/2	8	57 1/2	73 1/2	1505 Lbs.
DIF-100-040	CM	208.9	34.3	2.5	74.3	3.2	92.7	20.3	146.1	186.7	682.7 Kg
BTP-150-720	INCHES	82 1/4	13 1/2	1 1/4	29 1/4	1 1/4	36 1/2	10	57 1/2	73 1/2	1510 Lbs.
DTF-130-720	СМ	208.9	34.3	3.2	74.3	3.2	92.7	25.4	146.1	186.7	684.9 Kg
BTP-200-300	INCHES	84 1/2	17 1/2	1	34 3/4	1 1/2	44 3/4	6	66 1/2	74 3/4	2098 Lbs.
DTF-200-300	СМ	214.6	44.5	2.5	88.3	3.8	113.7	15.2	168.9	189.9	951.6 Kg
BTP-200-600	INCHES	84 1/2	17 1/2	1	34 3/4	1 1/2	44 3/4	8	66 1/2	74 3/4	2098 Lbs.
BTP-200-600	СМ	214.6	44.5	2.5	88.3	3.8	113.7	20.3	168.9	189.9	951.6 Kg
BTP-200-800	INCHES	84 1/2	17 1/2	1 1/4	34 3/4	1 1/2	44 3/4	10	66 1/2	74 3/4	2103 Lbs.
	СМ	214.6	44.5	3.2	88.3	3.8	113.7	25.4	168.9	189.9	953.9 Kg
BTP-200-1000	INCHES	84 1/2	17 1/2	1 1/4	34 3/4	1 1/2	44 3/4	10	66 1/2	74 3/4	2103 Lbs.
	СМ	214.6	44.5	3.2	88.3	3.8	113.7	25.4	168.9	189.9	953.9 Kg.
BTP-200-1250	INCHES	84 3/4	13 1/2	1 1/4	29 1/2	1 1/2	44 3/4	12	66 1/2	75	2467 Lbs.
BTP-200-1250	СМ	215.3	34.3	3.2	74.9	3.8	113.7	30.5	168.9	190.5	1119 Kg
BTP-200-1500	INCHES	84 3/4	13 1/2	1 1/2	29 1/2	1 1/2	44 3/4	12	81 1/2	75	2757 Lbs.
D1P-200-1500	СМ	215.3	34.3	3.8	74.9	3.8	113.7	30.5	207	190.5	1250.6 Kg

t in column "H" indicates models equipped with "Wayne" burners.

All other "H" dimensions are for models equipped with "Power Flame" Power Burner.



DIMENSIONS AND SHIPPING WEIGHTS (continued)

	DIMENSIONS									SHIPPING
INCHES OR CM	A	В	C	D	E	F	G	н	J	WEIGHT WITH BURNER
Inches CM	92 233.7	14 35.6	1 2.5	29 1/4 74.3	1 1/2 3.8	44 3/4 113.7	6 15.2	66 1/2 168.9	81 1/2 207	2150 Lbs. 975.2 Kg
Inches CM	92 233.7	14 35.6	1 2.5	29 1/4 74.3	1 1/2 3.8	44 3/4	8	66 1/2 168.9	81 1/2 207	2150 Lbs. 975.2 Kg
Inches	92	14	1 1/4	29 1/4	1 1/2	44 3/4	10	66 1/2	81 1/2	2308 Lbs. 1046.9 Kg
Inches	92	14	1 1/4	29 1/4	1 1/2	44 3/4	10	66 1/2	81 1/2	2308 Lbs. 1046.9 Kg
Inches	92	14	1 1/4	29 1/4	1 1/2	44 3/4	12	66 1/2	81 1/2	2584 Lbs. 1172.1 Kg
Inches	92	14	1 1/2	29 1/4	1 1/2	44 3/4	12	81 1/2	81 1/2	2774 Lbs. 1258.3 Kg
Inches	89	17 1/2	1	33 1/4	2	55	8	76 1/2	78 3/4	3207 Lbs. 1454.7 Kg
Inches	89	17 1/2	1 1/4	33 1/4	2	55	10	76 1/2	78 3/4	3212 Lbs. 1456.9 Kg
Inches	89	17 1/2	1 1/4	33 1/4	2	55	10	76 1/2	78 3/4	3212 Lbs. 1456.9 Kg
Inches	89	17 1/2	1 1/4	33 1/4	2	55	12	76 1/2	78 3/4	3212 Lbs. 1456.9 Kg
Inches	89	17 1/2	1 1/2	33 1/4	2	55	12	91 1/2	78 3/4	3402 Lbs. 1543.1 Kg
Inches	89	17 1/2	2	33 1/4	2	55	14	91 1/2	78 3/4	3528 Lbs. 1600.2 Kg
Inches	96 1/4	17 1/2	2	33 1/4	2	55	14	91 1/2	86 1/2	3669 Lbs. 1664.2 Kg
Inches	114	17 1/2	1 1/4	33 1/4	2	55	10	76 1/2	105	3667 Lbs. 1663.3 Kg
Inches	114	17 1/2	1 1/4	33 1/4	2	55	10	76 1/2	105	3667 Lbs. 1663.3 Kg
Inches	114	17 1/2	1 1/4	33 1/4	2	55	12	76 1/2	105	3667 Lbs. 1663.3 Kg
Inches	114	17 1/2	1 1/2	33 1/4	2	55	12	91 1/2	105	3837 Lbs. 1740.4 Kg
Inches	114	17 1/2	2	33 1/4	2	55	14	91 1/2	105	3837 Lbs. 1740.4 Kg
Inches	114	17 1/2	2	33 1/4	2	55	14	91 1/2	105	3837 Lbs. 1740.4 Kg
Inches	114	17 1/2	2	33 1/4	2	55	16	91 1/2	105	4477 Lbs.
Inches CM	289.6 114 289.6	44.5 17 1/2 44.5	5.1 2 5.1	84.5 33 1/4 84.5	5.1 2 5.1	139.7 55 139.7	40.6 16 40.6	91 1/2 232.4	266.7 105 266.7	2030.7 Kg 4619 Lbs. 2030.7 Kg
	CM Inches CM Inc	OR CMAInches92CM233.7Inches92CM233.7Inches92CM233.7Inches92CM233.7Inches92CM233.7Inches92CM233.7Inches92CM233.7Inches89CM226.1Inches89CM226.1Inches89CM226.1Inches89CM226.1Inches89CM226.1Inches89CM226.1Inches89CM226.1Inches89CM226.1Inches89CM226.1Inches114CM289.6Inches114CM289.6Inches114CM289.6Inches114CM289.6Inches114CM289.6Inches114CM289.6Inches114CM289.6Inches114CM289.6Inches114CM289.6Inches114CM289.6Inches114CM289.6Inches114CM289.6Inches114CM<	OR CM A B Inches 92 14 CM 233.7 35.6 Inches 89 17.1/2 CM 226.1 44.5 Inches 114 17.1/2 CM	OR CM A B C Inches 92 14 1 CM 233.7 35.6 2.5 Inches 92 14 1 CM 233.7 35.6 2.5 Inches 92 14 1 CM 233.7 35.6 3.2 Inches 92 14 1 CM 233.7 35.6 3.2 Inches 92 14 1 CM 233.7 35.6 3.2 Inches 92 14 1 1/4 CM 233.7 35.6 3.2 Inches 92 14 1 1/2 CM 233.7 35.6 3.2 Inches 89 17.1/2 1 CM 226.1 44.5 3.2 Inches 89 17.1/2 1.1/2 CM 226.1 44.5 3.2 Inches<	INCHES OR CM A B C D Inches 92 14 1 291/4 CM 233.7 35.6 2.5 74.3 Inches 92 14 1 291/4 CM 233.7 35.6 2.5 74.3 Inches 92 14 1 291/4 CM 233.7 35.6 3.2 74.3 Inches 92 14 1.1/4 291/4 CM 233.7 35.6 3.2 74.3 Inches 92 14 1.1/2 291/4 CM 233.7 35.6 3.2 74.3 Inches 92 14 1.1/2 291/4 CM 233.7 35.6 3.2 74.3 Inches 92 14 1.1/2 31/4 CM 226.1 44.5 3.2 84.5 Inches 89 17.1/2 1.1/4 33.1/4 <t< td=""><td>INCHES OR CM A B C D E Inches 92 14 1 29 1/4 1 1/2 CM 233.7 35.6 2.5 74.3 3.8 Inches 92 14 1 29 1/4 1 1/2 CM 233.7 35.6 2.5 74.3 3.8 Inches 92 14 1 1/4 29 1/4 1 1/2 CM 233.7 35.6 3.2 74.3 3.8 Inches 92 14 1 1/4 29 1/4 1 1/2 CM 233.7 35.6 3.2 74.3 3.8 Inches 92 14 1 1/2 29 1/4 1 1/2 CM 233.7 35.6 3.2 74.3 3.8 Inches 89 17 1/2 1 3 1/4 2 CM 226.1 44.5 3.2 84.5 5.1 Inches 89 17 1/2 1 1/4</td><td>INCHES OR CM A B C D E F Inches 92 14 1 291/4 11/2 44 3/4 CM 233.7 35.6 2.5 74.3 3.8 113.7 Inches 92 14 1 291/4 1 1/2 44 3/4 CM 233.7 35.6 3.2 74.3 3.8 113.7 Inches 92 14 11/4 291/4 1 1/2 44 3/4 CM 233.7 35.6 3.2 74.3 3.8 113.7 Inches 92 14 11/4 291/4 1 1/2 44 3/4 CM 233.7 35.6 3.2 74.3 3.8 113.7 Inches 92 14 1 1/2 291/4 1 1/2 44 3/4 CM 233.7 35.6 3.2 74.3 3.8 113.7 Inches 89 171/2 1 31/4 2 55</td><td>INCHES OR CM A B C D E F G Inches 92 14 1 291/4 11/2 44.3/4 6 CM 233.7 35.6 2.5 74.3 3.8 113.7 15.2 Inches 92 14 1 291/4 1.1/2 44.3/4 8 CM 233.7 35.6 2.5 74.3 3.8 113.7 20.3 Inches 92 14 1.1/4 29.1/4 1.1/2 44.3/4 10 CM 233.7 35.6 3.2 74.3 3.8 113.7 25.4 Inches 92 14 1.1/4 29.1/4 1.1/2 44.3/4 12 CM 233.7 35.6 3.2 74.3 3.8 113.7 30.5 Inches 92 14 1.1/2 29.1/4 1.1/2 44.3/4 12 CM 233.7 35.6 3.2 74.3</td><td>INCHES OR A B C D E F G H Inches 92 14 1 29 1/4 1 1/2 44 3/4 6 66 1/2 Inches 92 14 1 29 1/4 1 1/2 44 3/4 8 66 1/2 Inches 92 14 1 1/2 21/4 3.8 113.7 20.3 168.9 Inches 92 14 1 1/4 29 1/4 11/2 44 3/4 10 66 1/2 CM 233.7 35.6 3.2 74.3 3.8 113.7 25.4 168.9 Inches 92 14 1 1/4 29 1/4 1 1/2 44 3/4 12 66 1/2 CM 233.7 35.6 3.2 74.3 3.8 113.7 30.5 207 Inches 92 14 1 1/2 29 1/4 1 1/2 44 3/4 12 61/2 CM 233.7 35.6 3.8</td><td>INCRES OR A B C D E F G H J Inches 92 14 1 291/4 11/2 44.3/4 6 66.1/2 81.1/2 CM 233.7 35.6 2.5 74.3 3.8 113.7 15.2 168.9 207 Inches 92 14 1 291/4 11/2 44.3/4 8 66.1/2 81.1/2 CM 233.7 35.6 3.2 74.3 3.8 113.7 25.4 168.9 207 Inches 92 14 11/4 291/4 11/2 44.3/4 10 66.1/2 81.1/2 CM 233.7 35.6 3.2 74.3 3.8 113.7 30.5 10.8 92 Inches 92 14 11/2 291/4 11/2 44.3/4 12 81.1/2 81.1/2 81.1/2 81.1/2 81.1/2 81.1/2 81.1/2 81.1/2 81.1/2</td></t<>	INCHES OR CM A B C D E Inches 92 14 1 29 1/4 1 1/2 CM 233.7 35.6 2.5 74.3 3.8 Inches 92 14 1 29 1/4 1 1/2 CM 233.7 35.6 2.5 74.3 3.8 Inches 92 14 1 1/4 29 1/4 1 1/2 CM 233.7 35.6 3.2 74.3 3.8 Inches 92 14 1 1/4 29 1/4 1 1/2 CM 233.7 35.6 3.2 74.3 3.8 Inches 92 14 1 1/2 29 1/4 1 1/2 CM 233.7 35.6 3.2 74.3 3.8 Inches 89 17 1/2 1 3 1/4 2 CM 226.1 44.5 3.2 84.5 5.1 Inches 89 17 1/2 1 1/4	INCHES OR CM A B C D E F Inches 92 14 1 291/4 11/2 44 3/4 CM 233.7 35.6 2.5 74.3 3.8 113.7 Inches 92 14 1 291/4 1 1/2 44 3/4 CM 233.7 35.6 3.2 74.3 3.8 113.7 Inches 92 14 11/4 291/4 1 1/2 44 3/4 CM 233.7 35.6 3.2 74.3 3.8 113.7 Inches 92 14 11/4 291/4 1 1/2 44 3/4 CM 233.7 35.6 3.2 74.3 3.8 113.7 Inches 92 14 1 1/2 291/4 1 1/2 44 3/4 CM 233.7 35.6 3.2 74.3 3.8 113.7 Inches 89 171/2 1 31/4 2 55	INCHES OR CM A B C D E F G Inches 92 14 1 291/4 11/2 44.3/4 6 CM 233.7 35.6 2.5 74.3 3.8 113.7 15.2 Inches 92 14 1 291/4 1.1/2 44.3/4 8 CM 233.7 35.6 2.5 74.3 3.8 113.7 20.3 Inches 92 14 1.1/4 29.1/4 1.1/2 44.3/4 10 CM 233.7 35.6 3.2 74.3 3.8 113.7 25.4 Inches 92 14 1.1/4 29.1/4 1.1/2 44.3/4 12 CM 233.7 35.6 3.2 74.3 3.8 113.7 30.5 Inches 92 14 1.1/2 29.1/4 1.1/2 44.3/4 12 CM 233.7 35.6 3.2 74.3	INCHES OR A B C D E F G H Inches 92 14 1 29 1/4 1 1/2 44 3/4 6 66 1/2 Inches 92 14 1 29 1/4 1 1/2 44 3/4 8 66 1/2 Inches 92 14 1 1/2 21/4 3.8 113.7 20.3 168.9 Inches 92 14 1 1/4 29 1/4 11/2 44 3/4 10 66 1/2 CM 233.7 35.6 3.2 74.3 3.8 113.7 25.4 168.9 Inches 92 14 1 1/4 29 1/4 1 1/2 44 3/4 12 66 1/2 CM 233.7 35.6 3.2 74.3 3.8 113.7 30.5 207 Inches 92 14 1 1/2 29 1/4 1 1/2 44 3/4 12 61/2 CM 233.7 35.6 3.8	INCRES OR A B C D E F G H J Inches 92 14 1 291/4 11/2 44.3/4 6 66.1/2 81.1/2 CM 233.7 35.6 2.5 74.3 3.8 113.7 15.2 168.9 207 Inches 92 14 1 291/4 11/2 44.3/4 8 66.1/2 81.1/2 CM 233.7 35.6 3.2 74.3 3.8 113.7 25.4 168.9 207 Inches 92 14 11/4 291/4 11/2 44.3/4 10 66.1/2 81.1/2 CM 233.7 35.6 3.2 74.3 3.8 113.7 30.5 10.8 92 Inches 92 14 11/2 291/4 11/2 44.3/4 12 81.1/2 81.1/2 81.1/2 81.1/2 81.1/2 81.1/2 81.1/2 81.1/2 81.1/2

t in column "H" indicates models equipped with "Wayne" burners.

All other "H" dimensions are for models equipped with "Power Flame" Power Burner. Certified Minimum Installation Clearances to Combustibles:

Back: 0 inches

Sides: 0 inches

Top: 5 inches

A clearance of 24 inches is recommended from serviceable parts such as relief valve, power burner, drain valve and anodes (anodes are located on side above cold water inlet).

Minimum gas supply pressure: 7 inches W.C.

Maximum gas supply pressure: 13 inches W.C. BTP models are Category I appliances (Fan Assisted) and require a negative draft. These units should only be commonly vented with other Category I negative draft appliances per the latest addition of the National Fuel Gas Code. An approved/listed Type "B" venting material is recommended. A negative draft of -0.02" to -0.07" is required in the vent.

Front: 18 inches



CAPACITY, INPUT, RECOVERY AND MOTOR HP

MODEL NUMBER	BTU INPUT PER	GALLON OR	TANK SIZE	GPH OR	RECOVI Litri D	MOTOR HP 120 Volts		
NUNIDEN	HOUR	LITRES	SIZE	LPH	80°F	100°F	140°F	60 HZ 1
			450	0.011	27°C	56°C	78°C	
BTP-150-140	140,000	U.S. Gallons Litres	150 568	GPH LPH	170 643.5	136 514.8	97 367.1	
DTD 150 100	100.000	U.S. Gallons	150	GPH	241	193	138	1/7 HP
BTP-150-199	199,000	Litres	568	LPH	912.3	730.5	522.3	2.5 AMPS
BTP-150-255	255,000	U.S. Gallons	150	GPH	359	247	176	
		Litres U.S. Gallons	568 150	LPH GPH	1359 327	93 262	666.2 187	
BTP-150-270	270,000	Litres	568	LPH	1237.8	991.7	707.8	
BTP-150-400	400,000	U.S. Gallons	150	GPH	485	387	277	1/4 HP
		Litres U.S. Gallons	568 150	LPH GPH	1835.9 654	1464.8 524	1048.4 374	4.6 AMPS
BTP-150-540	540,000	Litres	568	LPH	2475.7	1983.3	1415.6	
BTP-150-720	720,000	U.S. Gallons	150	GPH	873	698	499	1/3 HP
DIT-130-720	720,000	Litres	568	LPH	3304.7	2641.9	1888.7	5.5 AMPS
BTP-200-300	300,000	U.S. Gallons Litres	200 757	GPH LPH	364 1377.9	291 1101.4	208 787.3	1/4 HP
DTD 200 C00	600.000	U.S. Gallons	200	GPH	727	582	416	4.6 AMPS
BTP-200-600	600,000	Litres	757	LPH	2752	2202.9	1574.6	
BTP-200-800	800,000	U.S. Gallons	200	GPH	970	776	554	1/2 UD
		Litres U.S. Gallons	757 200	LPH GPH	3671.8 1212	2937.2 970	2096.9 693	1/3 HP 5.5 AMPS
BTP-200-1000	1,000,000	Litres	757	LPH	4587.9	3671.5	2623	
BTP-200-1250	1,250,000	U.S. Gallons	200	GPH	1515	1212	866	
511-200-1200	1,200,000	Litres	757	LPH	5734.9	4587.4	3277.8	1/2 HP 7.4 AMPS
BTP-200-1500	1,500,000	U.S. Gallons Litres	200	GPH LPH	1818 6881.9	1455 5507.2	1039 3932.6	7.4 AINIT 3
BTP-300-300	300.000	U.S. Gallons	300	GPH	364	291	208	
BTP-300-300	300,000	Litres	1135	LPH	1377.9	1101.4	787.3	1/4 HP
BTP-300-600	600,000	U.S. Gallons Litres	300 1135	GPH	727	581 2202.9	416 1574.6	4.6 AMPS
		U.S. Gallons	300	LPH GPH	2752 970	776	554	
BTP-300-800	800,000	Litres	1135	LPH	3671.8	2937.2	2096.9	1/3 HP
BTP-300-1000	1,000,000	U.S. Gallons	300	GPH	1212	970	693	5.5 AMPS
	1,000,000	Litres U.S. Gallons	1135 300	LPH GPH	4587.9 1515	3671.5 1212	2623 866	
BTP-300-1250	1,250,000	Litres	1135	LPH	5734.9	4587.4	3277.8	1/2 HP
BTP-300-1500	1,500,000	U.S. Gallons	300	GPH	1818	1455	1039	7.4 AMPS
BTF-300-1300	1,300,000	Litres	1135	LPH	6881.9	5507.2	3932.6	4/4.115
BTP-400-600	600,000	U.S. Gallons Litres	400	GPH LPH	727 2752	582 2202.9	416 1574.6	1/4 HP 4.6 AMPS
		U.S. Gallons	400	GPH	970	776	554	
BTP-400-800	800,000	Litres	1514	LPH	3671.8	2937.2	2096.9	
BTP-400-1000	1,000,000	U.S. Gallons	400	GPH	1212	970	693	1/3 HP
		Litres U.S. Gallons	1514 400	LPH GPH	4587.9 1515	3671.5 1212	2623 866	5.5 AMPS
BTP-400-1250	1,250,000	Litres	1514	LPH	5734.9	4587.4	3277.8	
BTP-400-1500	1.500.000	U.S. Gallons	400	GPH	1816	1455	1039	
0.1 400 1000	1,000,000	Litres	1514	LPH	6874.3	5507.2 1607	3932.6	1/2 UD
BTP-400-1750	1,750,000	U.S. Gallons Litres	400 514	GPH LPH	2121 8028.9	1697 6423.1	1212 4587.4	1/2 HP 7.4 AMPS
BTP-400-2000	2.000.000	U.S. Gallons	400	GPH	2424	1939	1385	1
DTP-400-2000	2,000,000	Litres	1514	LPH	.9175.8_	7339.1	5242.2	
BTP-600-720	720,000	U.S. Gallons Litres	600 2271	GPH LPH	873 3304.7	698 2641.9	499 1888.7	
	4 000 000	U.S. Gallons	600	GPH	1212	970	693	1/3 HP
BTP-600-1000	1,000,000	Litres	2271	LPH	4587.9	3671.5	2623	5.5 AMPS
BTP-600-1250	1,250,000	U.S. Gallons	600	GPH	1515	1212	866	
		Litres U.S. Gallons	2271 600	LPH GPH	5734.9 1816	4587.4 1455	3277.8 1039	
BTP-600-1500	1,500,000	Litres	2271	LPH	6874.3	5507.2	6555.6	1
BTP-600-1750	1 750 000	U.S. Gallons	600	GPH	2121	1697	1212	1/2 HP
DIP-000-1750	1,750,000	Litres	2271	LPH	8028.9	6423.1	3932.6	7.4 AMPS
BTP-600-2000	2,000,000	U.S. Gallons Litres	600 2271	GPH LPH	2424 9175.8	1939 7339 1	1385 5242.2	
		U.S. Gallons	600	GPH	2727	7339.1 2182	1558	
BTP-600-2250	2,250,000	Litres	2271	LPH	10,322.8	8258.9	5897	3/4 HP
BTP-600-2500	2,500,000	U.S. Gallons	600	GPH	3030	2424	1732	10.2 AMPS
2.1 000 2000	2,000,000	Litres	2271	LPH	11,469.8	9174.8	6555.6	

* Recovery ratings are based on 80% thermal efficiency.



HIGH-VOLUME POWERED BURNER

THREE-YEAR LIMITED TANK WARRANTY

- FACTORY START-UP REQUIRED Included for activating warranty and assuring maximum operating performance. Contact your local sales representative or Authorized Start-Up Agent to arrange a FREE certified start-up.
- For complete information, consult written warranty or contact A. O. Smith

OTHER BTP FEATURES:

TWO LAYERS OF HIGH-TEMPERATURE CERAMIC FIBER INSULATION IN COMBUSTION CHAMBER FLAME INSPECTION PORT OPENING **MOUNTED ON RUGGED CHANNEL IRON SKIDS** NATIONAL BOARD STAMPING **ASME-RATED TEMPERATURE AND PRESSURE GAUGE** LOW-WATER CUTOFF **CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE BAROMETRIC DRAFT REGULATOR 120-VOLT CONTROL CIRCUIT DRAIN VALVE 180°F WATER SERVICE THERMOSTATS**

BTP OPTIONS:

- FACTORY MUTUAL APPROVED CONTROL ARRANGEMENT
- HIGH OR LOW WATER PRESSURE CONTROL
- CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE
- MODULAR GRAPHIC BURNER SYSTEMS MANAGEMENT ON HEATERS WITH 270,000 BTU INPUT AND OVER
- LOW-NOX BURNER

OPTIONAL LOW NOX BURN	BTPN/NMPR MOTOR HP				
	BTUH	1/4 HP			
	400,000	1			
	540,000	1/4 HP			
	600,000				
Available Low NOx Burner BTU Input	720,000				
Sizes (Nat. Gas Only)	800,000	1/2 HP			
	1,000,000				
	1,250,000				
	1,500,000				
	1,750,000	1 HP			
	2,000,000				

Add N to Model Number for low NOx Burner.

Example: BTPN-150-720



HIGH-VOLUME POWERED BURNER

SUGGESTED SPECIFICATION

Gas water heater(s) shall be A. O. Smith model BTP_ __, with a storage capacity of gallons, an input rating of BTU/hr and a recovery rating of gallons per hour (gph) at a temperature rise of 100°F. Maximum gas supply pressure to heater(s) shall be 13" W.C., and ASME working pressure shall be 160 psi.

The tank shall be glasslined with alkaline borosilicate composition and fused to the steel by firing at 1600°F, and shall be insulated with fiberglass insulation. The heater will also be equipped with multiple anodes for cathodic protection. Heater(s) shall be equipped NPT water inlet and outlet openings, and two 3" handhole cleanouts. The with heater(s) shall be constructed in accordance with ASME code, and the entire unit listed by Underwriters Laboratories.

Heater(s) shall be equipped with a powered gas burner with electronic flame safeguard, intermittent electronic ignition, main and pilot automatic gas valves, redundant solenoid gas valve, gas pressure regulator, diaphragm switch for proof of boiler operation, and flame inspection port.

Controls and other components shall include manual-reset high-temperature limit control, upper and lower thermostats, combination temperature and pressure gauge, low-water cutoff, CSA certified and ASME rated T&P relief valve, drain valve and draft regulator. Control compartment door shall be hinged for easy access.

The heater(s) shall meet the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1. The tank shall have a 3-year limited warranty against failure as outlined in the written warranty. Professional start-up service shall be included and is required to activate warranty.

Professional Start-Up Included - required for activating warranty and assuring maximum operating performance.