



**Product Submittal for Raytherm® - Type WH  
Water Heaters Commercial  
Models 962-1826 (Indoor)**

Date: \_\_\_\_\_ Job: \_\_\_\_\_ Location: \_\_\_\_\_

Equipment Tags: \_\_\_\_\_ Engineer: \_\_\_\_\_ Contractor: \_\_\_\_\_

Model: \_\_\_\_\_ Notes: \_\_\_\_\_

Prepared by: \_\_\_\_\_

Gas Type: Natural Gas  Propane

Efficient - 82% thermal efficiency

Thermal shock proof - limited 25-year thermal shock warranty

Lightweight - a floor load of 70 lbs./sq. ft. or less

Dependable - the simple atmospheric design provides a low cost and long life solution

Low water operating temperature - operates with water temperature as low as 105°F without condensing

Proudly assembled in USA



**Features and Options**

**Heat Exchanger**

- ASME HLW-stamped; 160 PSIG MAWP
- National Board registered
- Headers
  - Bronze (standard)
  - A-2 Glass-lined cast iron (optional)
- Copper finned tubing
- ASME steel tube sheet
- Silicone O-rings
- ASME Pressure relief valve
  - 125 PSIG ASME (standard)
  - A-15 150 PSIG ASME (optional)
- T&P gauge
- Water connections
  - Left-hand (standard)
  - A-6 Right-hand (optional)
- Two-pass flow configuration
- P-2 Pump, rear-mounted, 1/2 HP (optional)
  - 4.25" Impeller
  - 4.7" Impeller

**Controls**

- 120V, 60Hz, 1 Ph power supply
- 120/24V transformer
- 100% Pilot shut-off/lockout
- Electronic, intermittent ignition (IID) pilot
- High limit control, manual-reset, 200°F
- On/off switch
- Flow switch
- Economaster II pump time delay

**Gas Train**

- Manual main gas shut-off valve
- Main gas pressure regulator
- Redundant safety shut-off valve
- Control valve
- Firing mode
  - WH1 On/off
  - WH2 Mechanical modulation
  - WH3 Two-stage firing
- Fuel
  - Natural gas
  - Propane (min. grade HD-5)

**Construction**

- Front controls
- Stainless steel burners
- Polytuf powder-coat finish
- Vent selection
  - D-1 Power vent, mtd. (optional)
  - D-2 Power vent, loose (optional)
  - D-10 Drafthood (optional)
- Base (optional)
  - J-1 Combustible floor shield
- CSA Low lead certified ≤ .25% Lead
- Design certified ANSI Z21.10.3

**Temperature Controllers**

(NOTE: WH2 requires an on/off system controller)

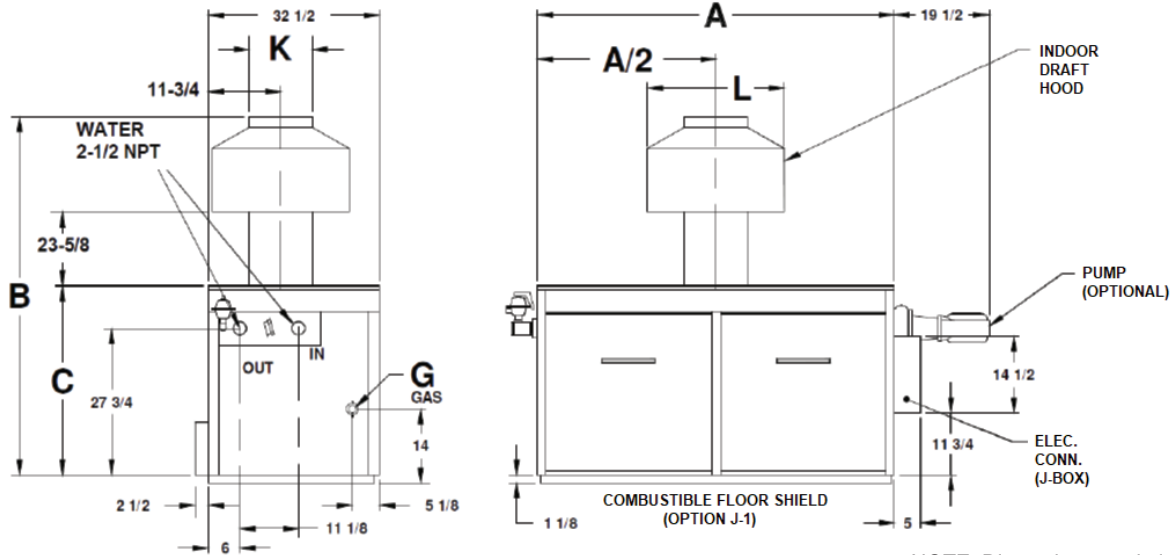
- B-2 Single-stage tankstat (100-180°F)
- B-3 2-Stage tankstat (100-180°F)
- B-21 4-Stage digital
- B-26 2-Stage digital

**Additional Safety Controls**

- F-9 Low water cut-off probe
- I-3 High limit control, auto-reset, 180°F
- S-1 Low gas pressure switch, manual-reset
- S-2 High gas pressure switch, manual-reset
- \_\_\_\_\_
- \_\_\_\_\_

**Regulatory agency requirements**

- \_\_\_\_\_



MODELS WH 962-1826

Model	MBTUH (kW) Natural Gas		MBTUH (kW) Propane		Dimensions in. (mm)						Electrical Rating		Approx. Shipping Weight Lbs. (Kg.)
	Input	Output	Input	Output	Width A	Overall Height B	Jacket Height C	Gas Conn. G	Flue Dia. K	L	With Pump	Without Pump	
<input type="checkbox"/> WH-962	961.7 (282)	788.6 (231)	885 (259)	725.7 (213)	52-3/8 (1330)	76-1/8 (a) (1934)	33-1/2 (851)	1 (25)	14 (356)	28 (711)	Less than 12 amps at 120V	Less than 4 amps at 120V	705 (320)
<input type="checkbox"/> WH-1125	1124.7 (330)	922.3 (270)	1035 (303)	848.7 (249)	59-1/4 (1505)			1 (b) (25)	16 (406)	32 (813)			745 (338)
<input type="checkbox"/> WH-1223	1222.5 (358)	1002.5 (294)	1125 (330)	922.5 (270)	63-5/8 (1616)			1-1/4 (32)	18 (457)	36 (914)			805 (368)
<input type="checkbox"/> WH-1336	1336.6 (392)	1083 (317)	1230 (360)	1008.6 (296)	68-5/8 (1743)	80-1/8 (a) (2035)	36-1/2 (927)	20 (508)	40 (1016)	875 (397)			
<input type="checkbox"/> WH-1468	1467 (430)	1203 (353)	1350 (396)	1107 (324)	74-7/8 (1902)					945 (429)			
<input type="checkbox"/> WH-1631	1630 (478)	1336.6 (392)	1500 (440)	1230 (360)	81-1/8 (2061)					985 (447)			
<input type="checkbox"/> WH-1826	1825.6 (535)	1497 (439)	1680 (492)	1377.6 (404)	89-3/8 (2270)	1035 (469)							

NOTE: Ratings are for elevations up to 2,000 feet. For elevations over 2,000 feet, reduce ratings 4% for every 1,000 feet above sea level.

(a) Add 1-1/8" to overall height for combustible floor shield (option J-1).  
 (b) 1" or 1-1/4" contingent on boiler type or code requirements.



**Product Submittal for Raytherm®**

**Water Heaters Commercial**

**Job:** \_\_\_\_\_

HEATER RATES OF FLOW AND PRESSURE DROPS												
Model No.	20°F ΔT		30°F ΔT		40°F ΔT		MINIMUM FLOW			MAXIMUM FLOW		
	GPM (L/min)	ΔP ft (m)	GPM (L/min)	ΔP ft (m)	GPM (L/min)	ΔP ft (m)	GPM (L/min)	ΔP ft (m)	ΔT	GPM (L/min)	ΔP ft (m)	ΔT
<input type="checkbox"/> WH-962	79 (299)	8.5 (2.6)	53 (200)	3.8 (1.1)			40 (151)	2.2 (0.6)	38	90 (341)	11.0 (3.3)	17
<input type="checkbox"/> WH-1125			61 (231)	5.5 (1.6)	46 (174)	3.1 (0.9)	45 (170)	3.1 (0.9)	40		12.0 (3.6)	20
<input type="checkbox"/> WH-1223			67 (254)	7.0 (2.1)	50 (189)	3.9 (1.1)	51 (193)	4.0 (1.2)			12.5 (3.8)	22
<input type="checkbox"/> WH-1336			73 (276)	8.6 (2.6)	55 (208)	4.9 (1.5)	55 (208)	4.9 (1.5)			13.2 (4.0)	24
<input type="checkbox"/> WH-1468			80 (303)	11.0 (3.3)	60 (227)	6.2 (1.9)	61 (231)	6.4 (1.9)			14.0 (4.2)	26
<input type="checkbox"/> WH-1631			90 (340)	14.8 (4.5)	67 (253)	8.0 (2.4)	68 (257)	8.3 (2.5)			8.3 (2.5)	29
<input type="checkbox"/> WH-1826					75 (283)	10.6 (3.2)	76 (288)	10.8 (3.3)			15.4 (4.7)	32

**NOTE:** For water hardness above 16 GPG (Grains Per Gallon), a water softener/treatment system must be used.

HEATER RECOVERY RATES							
TEMPERATURE RISE							
Model No.	20°F	30°F	40°F	50°F	60°F	80°F	100°F
	GALLONS PER HOUR						
<input type="checkbox"/> WH-962	4733	3156	2367	1893	1578	1183	947
<input type="checkbox"/> WH-1125	5536	3690	2768	2214	1845	1384	1107
<input type="checkbox"/> WH-1223	6017	4011	3009	2407	2006	11504	1203
<input type="checkbox"/> WH-1336	6579	4386	3289	2631	2193	1645	1316
<input type="checkbox"/> WH-1468	7221	4818	3610	2888	2407	1805	1444
<input type="checkbox"/> WH-1631	8023	5349	4011	3209	2674	2006	1605
<input type="checkbox"/> WH-1826	8986	5990	4493	3594	2995	2246	1797