

Job: _____
 Engineer: _____
 Contractor: _____
 Prepared By: _____ Date: _____
 Model: _____

Raytherm® - Type WH

Water Heaters
 Commercial

Models 926-1758 (Outdoor)

Efficient

- ▶ 82% thermal efficiency

Thermal shock proof

- ▶ Limited 25-year thermal shock warranty

Lightweight

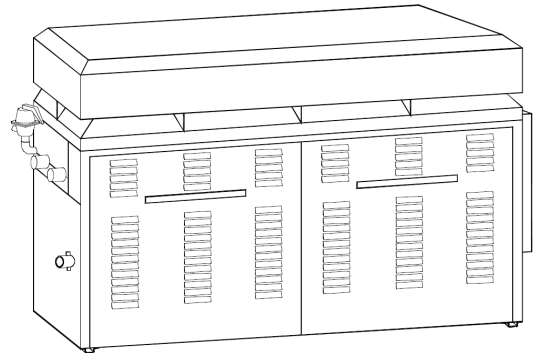
- ▶ A floor load of 70 lbs./sq. ft. or less

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 the USA

Heat exchanger

- ASME HLW Stamped; 160 PSIG MAWP
- National Board
- Headers
 - Bronze (standard)
 - A-2 Glass-lined cast iron (optional)
- Fin tubing
 - Copper (standard)
 - A-3 Cupronickel (optional)
- ASME Steel tube sheet
- Silicone O-Rings
- 125 PSIG ASME Pressure relief valve
 - 125 PSIG (standard)
 - _____ PSIG (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, 120 VAC, 1Ø, 60 Hz (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

Controls (continued)

- High limit control, manual reset – 200°F
- On/Off switch
- Flow switch
- Economaster II pump time delay

Gas control train

- Manual main gas shut-off cock
- Main gas pressure regulator
- Redundant safety shut-off valve
- Control valve
- Firing mode
 - WH-1 On/off
 - WH-3 2-stage Firing
 - WH-2 Mechanical modulation
- Fuel
 - Natural gas
 - Propane gas (minimum grade HD-5)
- Design Certified ANSI Z21.10.3/CSA 4.3

Construction

- Front controls
- Stainless steel burners
- PolyTuf powder coat finish
- Stackless top
- Base (optional)
 - J-1 Combustible floor shield
- CSA Low lead certified ≤ .25 Pb

Temperature controls

- 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
- S-2 High gas pressure switch, manual
- _____
- _____

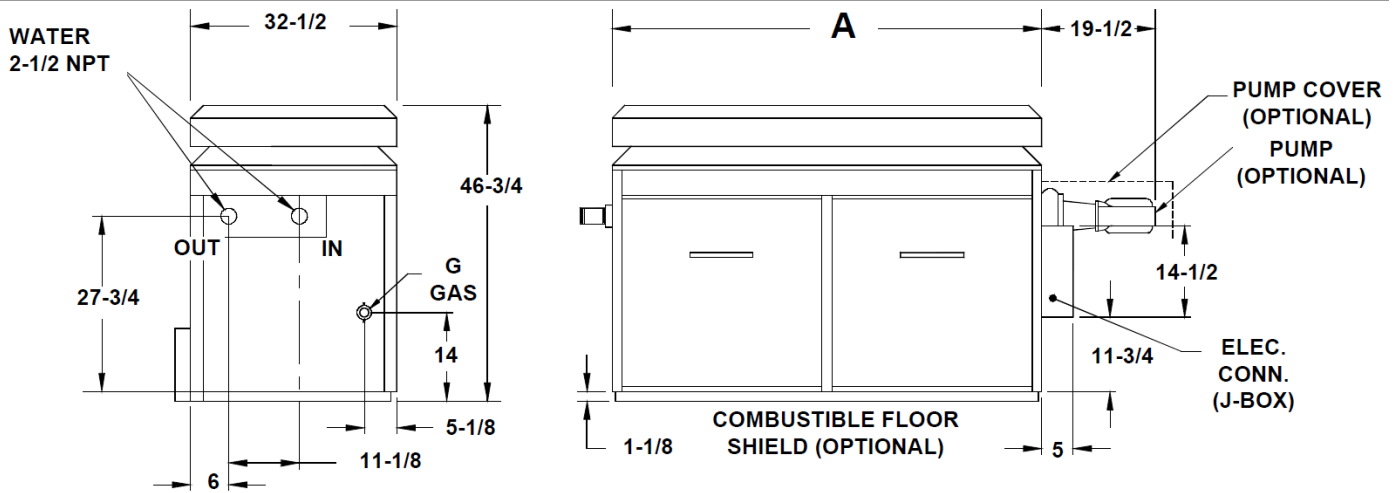
Regulatory agency requirements

- _____



Raytherm - Type WH Models 926-1758

Model _____



Models 926 - 1758

Model	MBTUH Natural Gas (kW)		MBTUH Propane Gas (kW)		Dimensions In. (mm)		Electrical Rating		Ship Weight Lbs.	
	Input	Output	Input	Output	Width A	Gas Conn. NPT G	With Pump	Without Pump	Less Pump	w/Pum
							Less than 12 amps at 120V	Less than 4 amps at 120V		
WH-926	926 (271)	759.3 (223)	885 (259)	725.7 (213)	52-3/8 (1330)	1 (25)	Less than 12 amps at 120V	Less than 4 amps at 120V	785	840
WH-1083	1083 (317)	888.1 (260)	1035 (303)	848.7 (249)	59-1/4 (1505)	1 (25)			865	920
WH-1178	1178 (345)	966 (283)	1125 (330)	922.5 (270)	63-5/8 (1616)	1 (25)			925	980
WH-1287	1287.0 (377)	1055.3 (309)	1230 (360)	1008.6 (296)	68-5/8 (1743)	1-1/4 (32)			980	1035
WH-1414	1413 (414)	1159 (340)	1350 (396)	1107 (324)	74-7/8 (1902)	1-1/4 (32)			1080	1130
WH-1571	1570 (460)	1287.4 (377)	1500 (440)	1230 (360)	81-1/8 (2061)	1-1/4 (32)			1130	1190
WH-1758	1758 (515)	1441.6 (422)	1680 (492)	1377.6 (404)	89-3/8 (2270)	1-1/4 (32)			1160	1220

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

Heater rates of flow and pressure drops

Model No.	20° ΔT		30° ΔT		40° ΔT	
	GPM	ΔP (ft)	GPM	ΔP (ft)	GPM	ΔP (ft)
WH-926	76	8.0	51	3.5	N/A	N/A
WH-1083	89	11.7	59	5.1	44	2.9
WH-1178	N/A	N/A	64	6.3	48	3.6
WH-1287	N/A	N/A	70	8.0	53	4.5
WH-1414	N/A	N/A	77	10.2	58	5.8
WH-1571	N/A	N/A	86	13.2	64	7.3
WH-1758	N/A	N/A	N/A	N/A	72	9.7

Heater recovery rates (GPH)

Model No.	Temperature Rise						
	20°F	30°F	40°F	50°F	60°F	80°F	100°F
WH-926	4558	3038	2279	1823	1519	1139	912
WH-1083	5330	3554	2665	2132	1777	1333	1066
WH-1178	5798	3865	2899	2319	1933	1450	1160
WH-1287	6335	4223	3167	2534	2112	1584	1267
WH-1414	6955	4636	3477	2782	2318	1739	1391
WH-1571	7727	5152	3864	3091	2576	1932	1545
WH-1758	8653	5769	4326	3461	2884	2163	1731

NOTE: Maximum acceptable flow through heat exchanger tubes is 90GPM.

For water hardness between 16 & 25 GPG, a Cupronickel heat exchanger is required. For water hardnesses above 25 GPG, a softener/treatment system must be used.

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