

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

Raytherm® - Type H

Hydronic Heating Boilers
 Commercial

Models 926-1758 (Outdoor)

EFFICIENT

- ▶ 82% thermal efficiency – highest of any atmospheric boiler available today

THERMAL SHOCK PROOF

- ▶ Twenty-year warranty against thermal shock damage up to 150°F differential
- ▶ Maximum operating temperature: 230°F

LIGHTWEIGHT

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

HIGH RECOVERY

- ▶ Cuts fuel costs substantially because the standby and radiation losses normal to other boilers are eliminated

LOW WATER OPERATING TEMPERATURE

- ▶ Operates with water temperature as low as 105°F without condensing

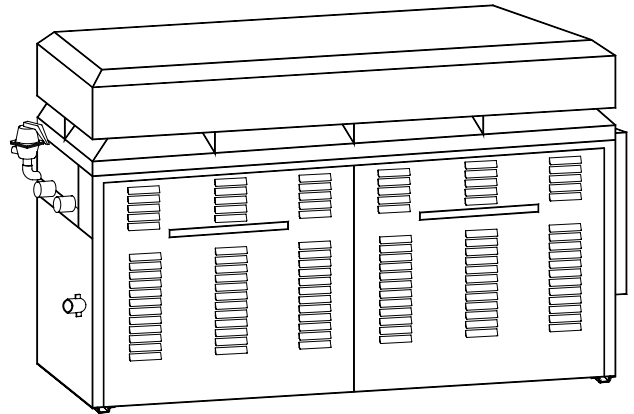


Fig. #8953

Heat Exchanger

- ASME Inspected and Stamped 160 PSIG
- National Board Approved
- Headers
 - Glass-lined Cast Iron – Standard
 - Bronze – Option A-1
- Finned Tubing
 - Copper – Standard
 - Cupro Nickel – Option A-3
- ASME Steel Tube Sheet
- Silicone O-Rings
- 60 PSIG ASME Pressure Relief Valve
- Temperature and Pressure Gauge (Boiler)
- Water Connections
 - Left Hand – Standard
 - Right Hand – Option A-6
- Flow Configuration
 - Two-pass – Standard
 - Single-pass (Cast Iron Only)
- Pump, Rear-mounted (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

Controls (cont.)

- 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
 - On/off (H4)
 - Two-stage Firing (H3)
 - Four-stage Firing (H9)
 - Mechanical Modulation, 110-170°F (H5)
 - Mechanical Modulation, 150-210°F (H1)
 - Motorized Modulation (H2)
 - B-6000 (H6)
- Fuel
 - Natural Gas
 - Propane Gas
- Design Certified ANSI Z21.13/CSA 4.9

Construction

- Front Controls
- Stainless Steel Burners
- Polytuf Powder Coat Finish
- Stackless Top
- Base (Optional)
 - Combustible Floor Shield – Option J-1

Temperature Controllers

Note: H1 and H5 do not require a controller

- B-7 Modulating
- B-5 Modulating, Outdoor Reset
- B-6 Two-stage
- B-___ Four-stage Digital
- Y-241 Electronic Sequencer, 1-4 Stages
- Y-281 Electronic Sequencer, 1-8 Stages

Additional Safety Controls

- F-9 Low Water Cut-off Probe
- I-1 High Limit Control, Auto Reset
- S-1 Low Gas Pressure Switch
- S-2 High Gas Pressure Switch
- _____
- _____

Regulatory Agency Requirements

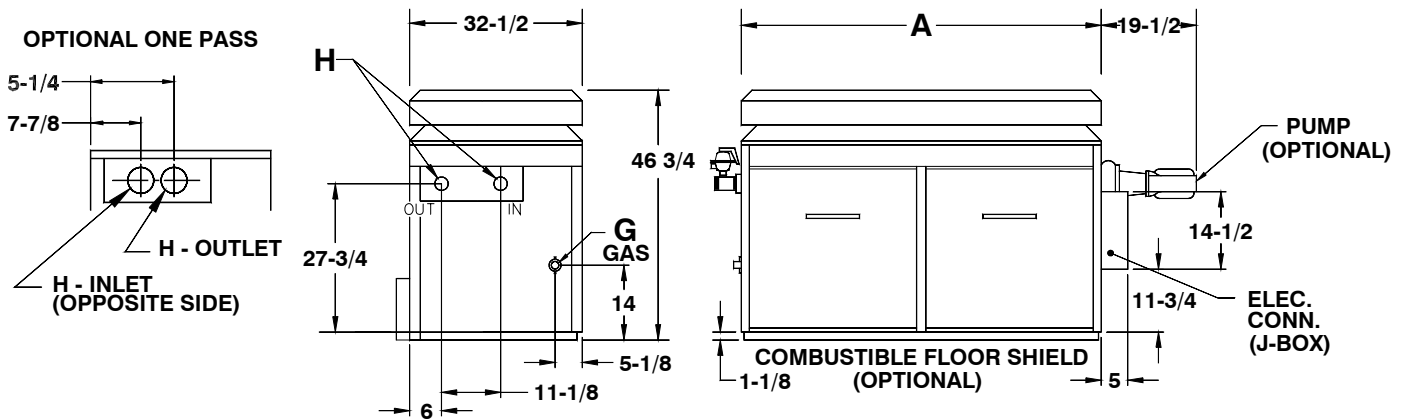
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Raypak®
 A Rheem® Company

Raytherm - Type H Hydronic Heating Boilers

Model _____



MODELS H 926-1758

Model No.	MBTU Natural Gas		Dimensions (Inches)			Approx. Shipping Weight (Lbs.)
	Input	Output	Width A	Gas Conn. G	Water Conn. H	
H-926	926.0	759.0	52-3/8	1	2-1/2 (b)	785
H-1083	1083.0	888.0	59-1/4	1 (a)	2-1/2 (b)	865
H-1178	1178.0	966.0	63-5/8	1 (a)	2-1/2 (b)	925
H-1287	1287.0	1055.0	68-5/8	1-1/4	2-1/2 (b)	980
H-1414	1413.0	1158.5	74-7/8	1-1/4	2-1/2 (b)	1080
H-1571	1570.0	1287.0	81-1/8	1-1/4	2-1/2 (b)	1130
H-1758	1758.0	1441.5	89-3/8	1-1/4	2-1/2 (b)	1160

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

- (a) 1" or 1-1/4", depending on boiler type or code requirements
- (b) 3" NPT on single-pass option

BOILER RATE OF FLOW AND PRESSURE DROP

Model No.	Two-pass Systems								Single-pass Systems							
	10° ΔT		20° ΔT		30° ΔT		40° ΔT		10° ΔT		20° ΔT		30° ΔT		40° ΔT	
	GPM	ΔP FT	GPM	ΔP FT	GPM	ΔP FT	GPM	ΔP FT	GPM	ΔP FT	GPM	ΔP FT	GPM	ΔP FT	GPM	ΔP FT
H-926	N/A	N/A	76	8.0	51	3.5	N/A	N/A	152	5.7	N/A	N/A	N/A	N/A	N/A	N/A
H-1083	N/A	N/A	90	12.0	59	5.1	44	2.9	178	8.2	N/A	N/A	N/A	N/A	N/A	N/A
H-1178	N/A	N/A	N/A	N/A	64	6.3	48	3.6	193	10.3	97	2.7	N/A	N/A	N/A	N/A
H-1287	N/A	N/A	N/A	N/A	70	8.0	53	4.5	N/A	N/A	106	3.4	N/A	N/A	N/A	N/A
H-1414	N/A	N/A	N/A	N/A	77	10.2	58	5.8	N/A	N/A	116	4.2	N/A	N/A	N/A	N/A
H-1571	N/A	N/A	N/A	N/A	86	13.2	64	7.3	N/A	N/A	129	5.5	N/A	N/A	N/A	N/A
H-1758	N/A	N/A	N/A	N/A	N/A	N/A	72	9.7	N/A	N/A	144	7.3	96	3.4	N/A	N/A

N/A – Not Applicable

NOTES:

- Maximum acceptable flow through heat exchanger tubes is 90 GPM for two-pass and 200 GPM for single-pass systems.
- In closed heating systems, GPM may increase by 10% and pressure drop by 21%.
- Single-pass heat exchangers should be used only when flow rates exceed maximum acceptable rates for two-pass.

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