Job:		
Engineer:		
Contractor:		
Prepared By:	Date:	
Model:	Indoor/Outdoor	

## Raytherm® - Type H

**Hydronic Heating Boilers** Models 182-260 - Indoor/Outdoor

#### **Efficient**

▶ 82% 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

# Indoor Outdoor

Proudly Assembled in the USA

#### Heat exchanger

- ASME H Stamped; 160 PSIG MAWP
- **National Board**
- Headers
  - ☐ Cast Iron glass-lined (standard)
  - ☐ A-1 Bronze (optional)
- Finned tubing
- ☐ Copper (standard)
  - A-3 Cupronickel (optional)
- ASME Steel tube sheet
- Silicone O-Rings
- Pressure relief valve
  - ☐ 45 PSIG ASME (standard) PSIG ASME (optional)
- T&P Gauge (shipped loose)
- Water connections
  - ☐ Left hand (standard)
  - ☐ A-6 Right hand (optional)
- Flow configuration (two pass)
- Pump (optional)
  - ☐ Mounted, 1/8 HP, 120V, 1Ø 60 Hz

#### Controls

- 120V, 60Hz, 1 Ph Power supply
- 120/24V Transformer
- 100% Pilot shut-off
- Electronic, Intermittent Ignition (IID) Pilot
- High limit control, manual reset
- On/Off switch
- Flow switch
- Economaster II pump time delay
- Electronic outdoor reset control

#### Gas control train

- Manual main gas shut-off cock
- Main gas pressure regulator
- Redundant safety shut-off valve
- Control valve
- Firing mode
  - ☐ H-3 Two-stage firing
  - ☐ H-4 On/off
  - Fuel
  - ☐ Natural gas
  - ☐ Propane gas (minimum grade HD-5)
- Design Certified ANSI Z21.13/CSA 4.9

#### Construction

- Front controls
- Stainless steel burners
- Polytuf powder coat finish
- Vent selection (optional)
  - ☐ D-2 Power vent, loose
  - ☐ D-10 Draft diverter
  - □ D-11 Outdoor stackless top
- Base (optional)

  - ☐ J-2 8" Outdoor Base assembly
- Temperature controls □ B-6 Two-stage – 100-200°F ☐ B-\_\_\_,Temp tracker digital controller, 2 Stages ☐ B- ,Temp tracker digital, controller, 4 Stages Additional safety controls ☐ F-10 Low water cut-off probe □ I-1 High limit control, auto reset, 240°F ☐ S-1 Low gas pressure switch, manual □ S-2 High gas pressure switch, manual

### Regulatory agency requirements



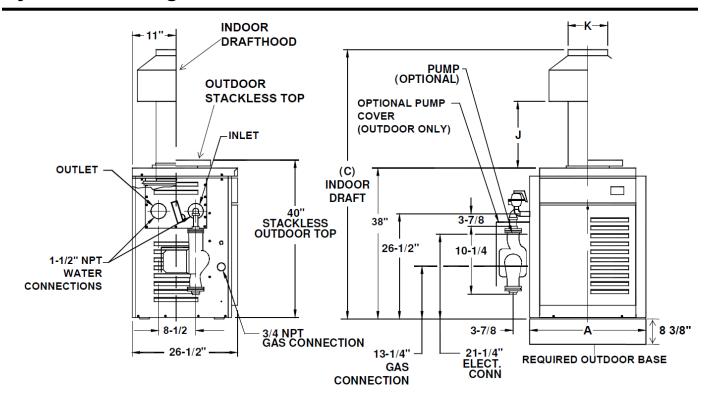








Catalog No.: 2000.205G Effective: 04-24-20 Replaces: 03-31-20



				Dimensions In. (mm)				Electrica	Ship Weight		
Madal	MBTU	MBTU	A = 1.1=+	\A/: -141-	11-1-1-4		Flue	\A/:4b 4	\A/:41-	Lbs. (kg)	
Model	(kW) Input	(kW) Output	AFUE* (%)	Width A	Height C	J	Dia. K	Without Pump	With Pump	No Pump	w/ Pump
H-182	181 (53)	148 (43)	82.6	18-1/4 (464)	62-5/8 (1591)	12-1/16 (307)	6 (152)	Less than 2	Less than 10 amps 120VAC	191 (87)	221 (100)
H-260	264 (77)	216 (63)	82.7	22-3/8 (568)	62-7/8 (1597)	11-1/8 (283)	7 (178)	amps 120VAC		214 (97)	244 (111)

<sup>\*</sup> With Vent Damper

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

#### Boiler rate of flow and pressure drop

	10° DT		20° DT		30° DT		Max Flow		Min Flow	
Model	GPM	DP FT	GPM	DP FT	GPM	DP FT	GPM	DP FT	GPM	DP FT
H-182	30	4.2	N/A	N/A	N/A	N/A	45	9.2	20	1.8
H-260	43	8.5	22	2.2	N/A	N/A	45	9.4	20	1.9

N/A - Not Applicable

Minimum flow rates in closed systems may be reduced to a flow rate consistent with 20°F ΔT

Raypak, Inc. • 2151 Eastman Avenue, Oxnard, CA 93030 • (805) 278-5300 • Fax (805) 278-5468 • www.raypak.com

Catalog No.: 2000.205G Effective: 04-24-20 Replaces: 11-01-13