Job: _____

Engineer: _____

Contractor: _____

Prepared By: _____ Date: _____

Model: _____

Raytherm® - Type H

Hydronic Heating Boilers Commercial

Models 962-1826 (Indoor)

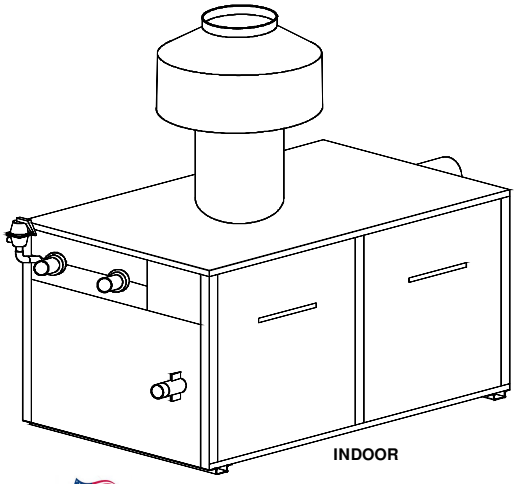
EFFICIENT
- **82% efficiency – highest of any atmospheric boiler available today**

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 inlet water temperature as low as 105°F without condensing**



Proudly Assembled in the USA

Heat Exchanger
- ASME Inspected and Stamped 160 PSIG
- National Board Listed
- 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
- Water Connections
  - ☐ Left Hand – Standard
  - ☐ Right Hand – Option A-6
- Flow Configuration
  - ☐ Two-pass – Standard
  - ☐ Single-pass – Cast Iron Only
- 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, 240°F
- On/Off Switch

Controls (cont.)
- Flow Switch
- Economaster Pump Time Delay

Gas 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)
- Fuel
  - ☐ Natural Gas
  - ☐ Propane Gas
- Design Certified ANSI Z21.13/CSA 4.9

Construction
- CSA Low Lead Certified (≤ .25% Lead)
- Front Controls
- Stainless Steel Burners
- Polytuf Powder Coat Finish
- Vent Selection
  - ☐ Draft Diverter – Option D-10
  - ☐ Power Vent, Loose – Option D-2
- Base (Optional)
  - ☐ Combustible Floor Shield – Option J-1

Temperature Controllers

Note: H1 and H5 require a system controller

- ☐ B-6 Two-stage-Mechanical (H3)
- ☐ B-35 4-20 mA (H2)
- ☐ B-__ TempTracker Mod+ Hybrid 2-16 Boilers (All)
- ☐ B-40 Motorized Modulation (H2)
- ☐ B-41 Motorized Modulation, Outdoor Reset (H2)
- ☐ B-__ Two-stage Digital (H3)
- ☐ B-__ Four-stage Digital (H9)
- ☐ B-60 Stage Interface (H3/H9)

Additional Safety Controls
- ☐ F-9 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
- ☐ _____ _____
- ☐ _____ _____

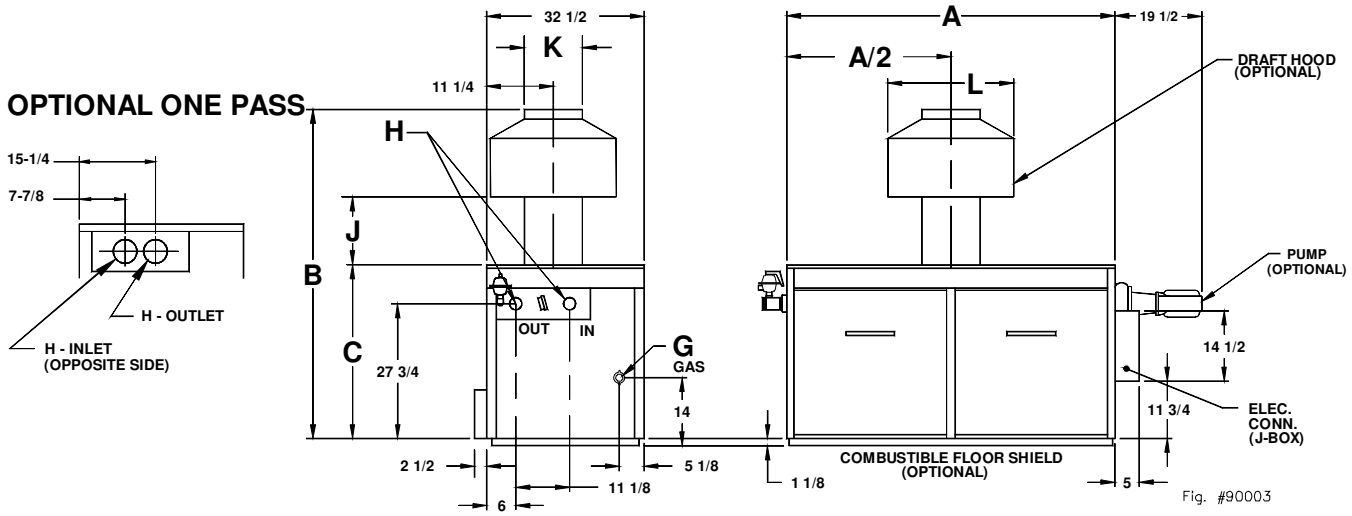
Regulatory Agency Requirements
- ☐ _____
- ☐ _____

Raypak® A Rheem® Company

Catalog No.: 2000.24R Effective: 05-01-15 Replaces: 03-15-14

Raytherm - Type H
Hydronic Heating Boilers

Model _____



MODELS 962 THRU 1826

Model Size	MBTUH Natural Gas Input	MBTUH Natural Gas Output	Dimensions (Inches) Width A	Overall Height B	Jacket Height C	Gas Conn. G	Water Conns. H	J	Flue Dia. K	L	Approx. Shipping Weight (Lbs.)
H-962	961.7	788.6	52-3/8	76-1/8 (a)	33-1/2	1	2-1/2 (c)	23-5/8	14	28	705
H-1125	1124.7	922.0	59-1/4	78-1/8 (a)	33-1/2	1 (b)	2-1/2 (c)	23-5/8	16	32	745
H-1223	1222.5	1002.4	63-5/8	78-1/8 (a)	33-1/2	1 (b)	2-1/2 (c)	23-5/8	16	32	805
H-1336	1336.6	1096.0	68-5/8	80-1/8 (a)	33-1/2	1-1/4	2-1/2 (c)	23-5/8	18	36	875
H-1468	1467.0	1203.0	74-7/8	80-1/8 (a)	33-1/2	1-1/4	2-1/2 (c)	23-5/8	18	36	945
H-1631	1630.0	1336.6	81-1/8	83-1/8 (a)	36-1/2	1-1/4	2-1/2 (c)	23-5/8	18	36	985
H-1826	1825.6	1497.0	89-3/8	85-1/8 (a)	36-1/2	1-1/4	2-1/2 (c)	23-5/8	20	40	1035

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.

(a) Add 1-1/8" to overall height for combustible floor shield option
(b) 1" or 1-1/4" contingent on boiler type or code requirements
(c) 3" NPT on single-pass option
(d) Propane input/output is 92% of standard values

BOILER RATE OF FLOW AND PRESSURE DROP

	Model No.	10º ΔT GPM	10º ΔT ΔP FT	20º ΔT GPM	20º ΔT ΔP FT	30º ΔT GPM	30º ΔT ΔP FT	40º ΔT GPM	40º ΔT ΔP FT	Minimum Flow GPM	Minimum Flow ΔP FT	Minimum Flow ΔT	Maximum Flow GPM	Maximum Flow ΔP FT	Maximum Flow ΔT
TWO-PASS	H-962	Exceeds Maximum Flow		80	8.8	53	3.8	40	2.2	40	2.2	38	90	11.0	18
	H-1125			90	12.0	61	5.5	47	3.3	45	3.1	40	90	12.0	21
	H-1223					76	7.0	51	4.0	51	4.0	40	90	12.5	22
	H-1336					73	8.6	55	4.9	55	4.9	40	90	13.2	25
	H-1468					80	11.0	61	6.4	61	6.4	40	90	14.0	27
	H-1631					90	14.8	68	8.3	68	8.3	40	90	8.3	30
	H-1826							76	10.8	76	10.8	40	90	15.4	34
ONE-PASS	H-962	157	6.1	Less than Minimum Flow						90	2.1	18	200	9.7	8
	H-1125	184	8.8	92	2.3					90	2.3	20	200	10.3	9
	H-1223	200	11.0	100	2.9					90	2.4	22	200	11.0	10
	H-1336	Exceeds Maximum Flow		110	3.7					90	2.5	24	200	11.7	11
	H-1468			120	4.5					90	2.7	27	200	12.2	12
	H-1631			134	6.0					90	2.8	30	200	13.0	13
	H-1826			150	8.0	100	3.7			90	3.0	33	200	14.7	15

NOTES:

- Values represent maximum flows and pressure drops for closed heating systems
- Maximum acceptable flow through heat exchanger tubes is 90 GPM (two-pass); 200 GPM (one-pass)
- Single-pass heat exchangers are to be used only when flow rates exceed the allowable for two-pass

Raypak, Inc. ▪ 2151 Eastman Avenue, Oxnard, CA 93030 ▪ (805) 278-5300 ▪ Fax (800) 872-9725 ▪ www.raypak.com

Catalog No.: 2000.24R Effective: 05-01-15 Replaces: 03-15-14