



**Product Submittal for Raytherm® - Type H
Hydronic Heating Boilers 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 the USA





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Job: _____

Features and Options

Heat Exchanger

- ASME H-stamped; 160 PSIG MAWP
- National Board registered
- Headers
 - Glass-lined cast iron (standard)
 - A-1 Bronze (optional)
- Copper finned tubing
- ASME steel tube sheet
- Silicone O-rings
- ASME Pressure relief valve
 - 60 PSIG (standard)
 - _____ PSIG (optional)
- T&P gauge
- Water connections
 - Left-hand (standard)
 - A-6 Right-hand (optional)
- 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
- 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
 - H1 Mechanical modulation, 150-210°F
 - H3 Two-stage firing
 - H4 On/off
 - H5 Mechanical modulation, 110-170°F
 - H9 Four-stage firing
- Fuel
 - Natural gas
 - Propane (min. grade HD-5)

Construction

- Front controls
- Stainless steel burners
- Polytuf powder-coat finish
- Vent selection
 - D-2 Power vent, loose (optional)
 - D-10 Draft diverter (optional)
- Base (optional)
 - J-1 Combustible floor shield
- CSA Low lead certified ≤ .25% Lead
- Design certified ANSI Z21.13/CSA 4.9

Temperature Controllers

Note: H1 and H5 require an on/off system controller

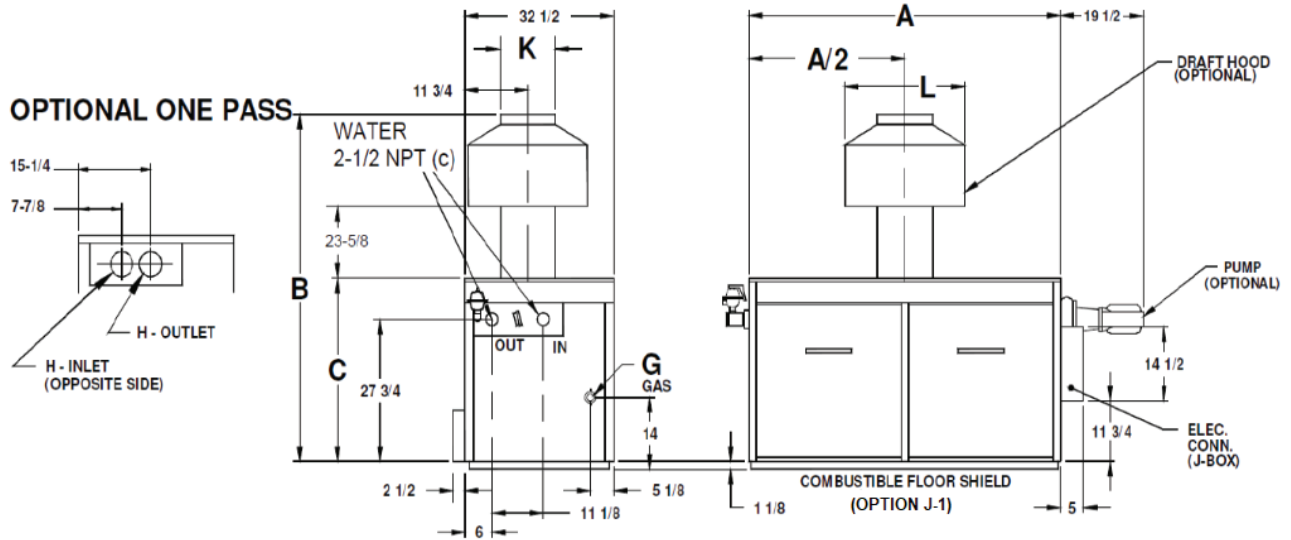
- B-6 Two-Stage-Mechanical (H3)
- B-__ TempTracker Mod+ Hybrid 2-16 boilers (all)
- B-__ Two-stage digital (H3)
- B-__ Four-stage digital (H9)
- B-60 Stage interface (H3/H9)

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

Regulatory agency requirements

- _____
- _____



NOTE: Dimensions are in inches.

MODELS H 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"/> H-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"/> H-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"/> H-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"/> H-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"/> H-1468	1467 (430)	1203 (353)	1350 (396)	1107 (324)	74-7/8 (1902)					945 (429)			
<input type="checkbox"/> H-1631	1630 (478)	1336.6 (392)	1500 (440)	1230 (360)	81-1/8 (2061)					985 (447)			
<input type="checkbox"/> H-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.



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BOILER RATE OF FLOW AND PRESSURE DROP (FOR CLOSED-LOOP HEATING SYSTEMS)																
	Model No.	10°F ΔT		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)	GPM (L/min)	ΔP ft (m)	ΔT	GPM (L/min)	ΔP ft (m)	ΔT	
TWO-PASS	<input type="checkbox"/> H-962	EXCEEDS MAX. FLOW		80 (302)	8.0 (2.4)	53 (200)	3.8 (1.1)	40 (151)	2.2 (0.6)	40 (151)	2.2 (0.6)	38	90 (341)		11.0 (3.3)	17
	<input type="checkbox"/> H-1125			90 (341)	12.0 (3.6)	61 (231)	5.5 (1.6)	47 (178)	3.3 (1.0)	45 (170)	3.1 (0.9)				12.0 (3.6)	20
	<input type="checkbox"/> H-1223			EXCEEDS MAX. FLOW		76 (288)	7.0 (2.1)	51 (193)	4.0 (1.2)	51 (193)	4.0 (1.2)	40			12.5 (3.8)	22
	<input type="checkbox"/> H-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"/> H-1468					80 (303)	11.0 (3.3)	61 (231)	6.4 (1.9)	61 (231)	6.4 (1.9)				14.0 (4.2)	26
	<input type="checkbox"/> H-1631					90 (340)	14.8 (4.5)	68 (257)	8.3 (2.5)	68 (257)	8.3 (2.5)				8.3 (2.5)	29
	<input type="checkbox"/> H-1826					EXCEEDS MAX. FLOW		76 (288)	10.8 (3.3)	76 (288)	10.8 (3.3)				15.4 (4.7)	32
<input type="checkbox"/> H-962	157 (594)	6.1 (1.8)	LESS THAN MIN. FLOW		LESS THAN MIN. FLOW		90 (341)		2.1 (0.6)	18	200 (757)		9.7 (2.9)	8		
<input type="checkbox"/> H-1125	184 (696)	8.8 (2.7)	92 (348)	2.3 (0.7)					2.3 (0.7)	20			10.3 (3.1)	9		
<input type="checkbox"/> H-1223	200 (757)	11.0 (3.3)	100 (378)	2.9 (0.9)					2.4 (0.73)	22			11.0 (3.3)	10		
<input type="checkbox"/> H-1336	EXCEEDS MAX. FLOW		110 (416)	3.7 (1.1)					2.5 (0.76)	24			11.7 (3.5)	11		
<input type="checkbox"/> H-1468			120 (454)	4.5 (1.4)					2.7 (0.8)	27			12.2 (3.7)	12		
<input type="checkbox"/> H-1631			134 (507)	6.0 (1.8)					2.8 (0.85)	30			13.0 (3.9)	13		
<input type="checkbox"/> H-1826			150 (568)	8.0 (2.4)					100 (378)	3.7 (1.1)			LESS THAN MIN. FLOW		3.0 (0.9)	33

NOTES:
 (1) One-pass heat exchangers are to be used only when flow rates exceed the maximum allowable for two-pass.