

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

Raytherm® - Type WH

Water Heaters
 Commercial
 Models 182-260

Efficient

- ▶ 82% thermal efficiency

Thermal shock proof

- ▶ Limited 25-year thermal shock warranty

Lightweight

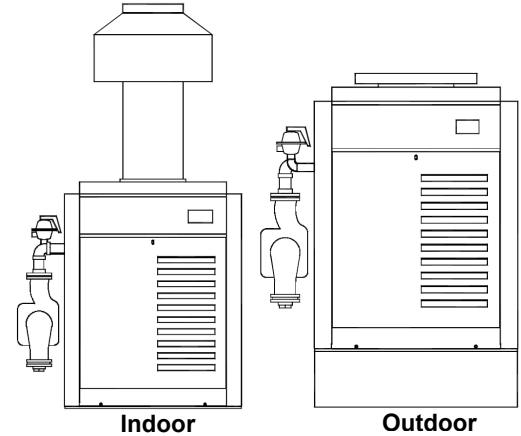
- ▶ A floor load of 70 lbs./sq. ft. or less

Dependable

- ▶ The simple atmospheric design provides a low cost and long life solution.

Low water operating temperature

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



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
- ASME Pressure relief valve
 - 125 PSIG (standard)
 - A-16 150 PSIG (optional)
- T&P Gauge (shipped loose)
- Water connections
 - Left hand (standard)
 - A-6 Right hand (optional)
- Two-pass flow configuration
- Pump (optional)
 - Mounted, 1/8 HP, 120 VAC 1Ø 60 Hz

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 – 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-2 Mechanical modulation
 - WH-3 2-stage
- 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
- Vent selection (optional)
 - D-10 Indoor drafthood
 - D-11 Outdoor stackless top
- Base (optional)
 - J-1 Combustible floor shield
- CSA Low Lead Certified ≤ .25% Lead

Temperature controls

- B-2 Single-stage tankstat (100-180°F)
- B-3 2-Stage tankstat (100-180°F)
- B-26 2-Stage digital
- B-21 4-Stage digital

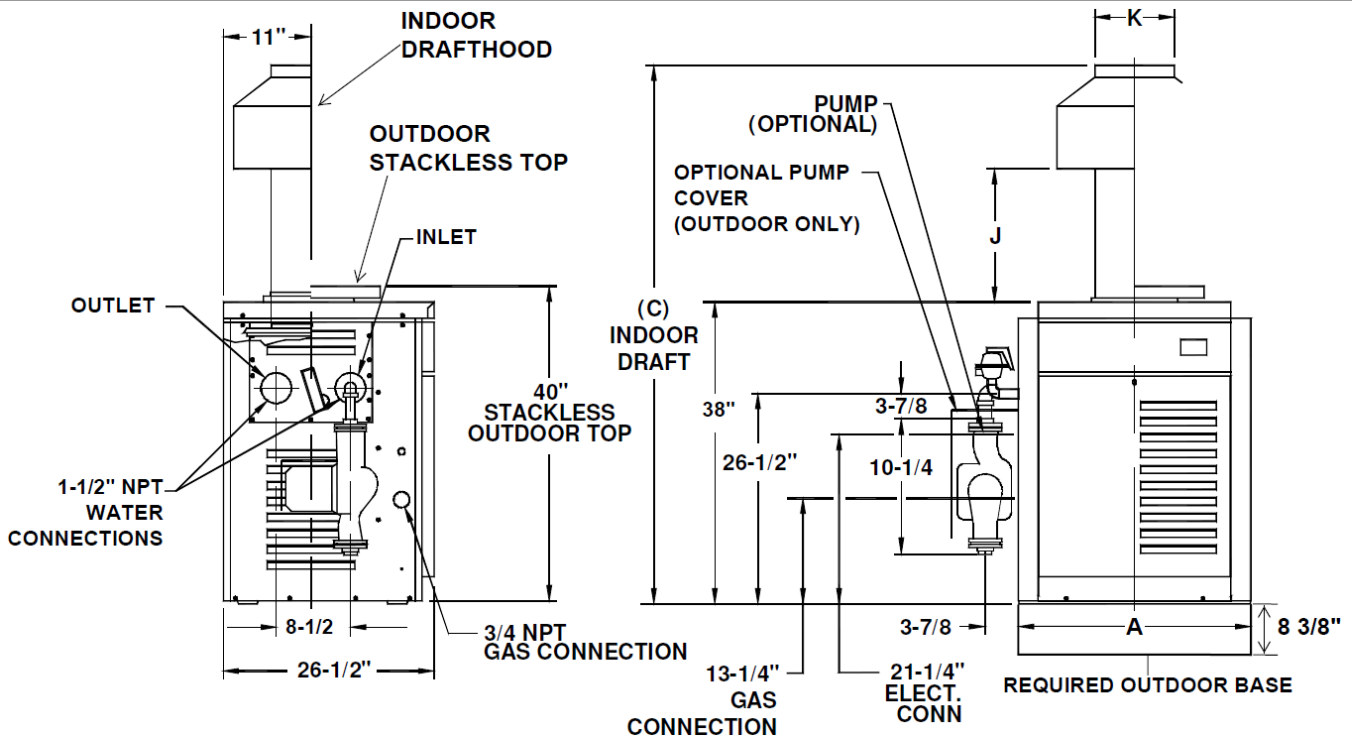
Additional safety controls

- F-10 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
- _____
- _____



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Model _____



Model	MBTU (kW) Input	MBTU (kW) Output	Dimensions In. (mm)				Electrical Rating		Ship Weight Lbs. (kg)	
			Width A	Height C	J	Flue Dia. K	Without Pump	With Pump	No Pump	w/ Pump
WH-182	181 (53)	148 (43)	18-1/4 (464)	62-5/8 (1591)	12-1/16 (307)	6 (152)	Less than 2 amps 120VAC	Less than 10 amps at 120VAC	191 (87)	221 (100)
WH-260	264 (77)	216 (63)	22-3/8 (568)	62-7/8 (1597)	11-1/8 (283)	7 (178)			214 (97)	244 (111)

Heater rates of flow and pressure drops

Model	10° ΔT		20° ΔT		30° ΔT		40° ΔT		Max Flow		Min Flow	
	GPM	ΔP (ft)	GPM	ΔP (ft)	GPM	ΔP (ft)	GPM	ΔP (ft)	GPM	ΔP (ft)	GPM	ΔP (ft)
WH-182	30	4.2	N/A	N/A	N/A	N/A	N/A	N/A	45	9.2	20	1.8
WH-260	44	8.5	22	2.2	N/A	N/A	N/A	N/A	45	9.4	20	1.9

N/A – Not Applicable

Heater recovery rates

Model	Temperature Rise							
	10°F	20°F	30°F	40°F	50°F	60°F	80°F	100°F
	Gallons Per Hour							
WH-182	1794	897	598	448	359	299	224	179
WH-260	2618	1309	873	655	524	436	327	262