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

ADB™ - Type H

Hydronic Heating Boiler Model 500

100% Factory Fire 1	「ested
---------------------	--------

Efficiency: 84%

Maximum Outlet Temperature: 230°F

Minimum Non-condensing Inlet Temperature: 105°F

Thermal Shock Proof Heat Exchanger

Footprint: Less than 5 ft²

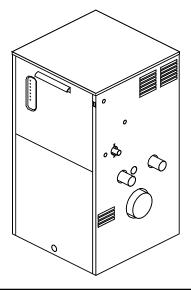
CSD-1 Gas Train

Limited Twenty-Year Thermal Shock Warranty

Limited Ten-Year Heat Exchanger Warranty

Ten-Year Unconditional Burner Head Warranty

Operation Status Center and Full Diagnostic Panel



Heat Exchanger

- Bronze Headers
- ASME Inspected and Stamped 160 PSIG Working Pressure
- National Board Approved
- Finned Copper Tubes
- ASME Steel Tube Retainer
- Silicone High Temp O-Rings
- Pressure Relief Valve ASME
 60 PSIG Standard
 PSIG Optional
- Temperature and Pressure Gauge, Shipped Loose

Control

- 120V, 60Hz, Power Supply
- 120/24V 60Hz, Transformer
- 100% Pilot Shutoff/Lockout
- Pilot: Electronic Intermittent Ignition (I.I.D.)
- High Limit Control, Manual Reset
- Operating Limit Control, Auto Reset
- On/Off Switch
- Flow Switch
- Blocked Vent Pressure Switch
- Combustion Air Proving Switch
- Time Delay Pump Off Control
- Central Point Wiring Diagnostics Panel

Burner

- Aerodynamically Stabilized Non-clog Burner
- Ultra-low NOx: Less than 30 PPM

Gas Train (CSD-1)

- Fuel
- ☐ Natural Gas ☐ Propane
- Manual Gas Shut-off Valves
- Gas Pressure Regulator
- Safety Shut-off Valve
- Firing Control Valve
- Manual Low Gas Pressure Switch
- On/Off Firing Mode (H4)
- Design Certified ANSI Z21.13/ CSA 4.9

Construction

- Indoor/Outdoor Construction
- Enclosed Front Controls
- PolyTuf Powder Coat Finish
- Connections (Water, Electrical, Gas)
 Rear Standard
 - Right Hand Option A-8

Venting

- Vent Location
- Rear Standard
- ☐ Right Side Option Z-2
- Vent Termination Cap
- Outdoor Option D-11
- ☐ Indoor, Horizontal Option D-15
- ☐ Indoor, Vertical (by others)

- **Temperature Controls**
- ☐ B-20 Single-Stage Controller,
 - 100-200°F
- ☐ B-6 2-Stage Controller,
 - 100-200°F
- ☐ B-21 4-Stage TempTracker
 - Digital Controller
- ☐ B-23 4-Stage TempTracker Digital
 - Controller, Outdoor Reset
- Y-241 Electronic Sequencer,
 - 1-4 Stages
- Y-281 Electronic Sequencer,
 - 5-8 Stages

Additional Safety Controls (Optional)

- F-10 Low Water Cut-off, Remote Probe
- ☐ S-2 Manual High Gas Pressure
 - Switch
 - ╡──

Regulatory Agency Requirements

C-5 Ignition Lockout Module

Other Equipment Condensing Heat Exchanger

Pump



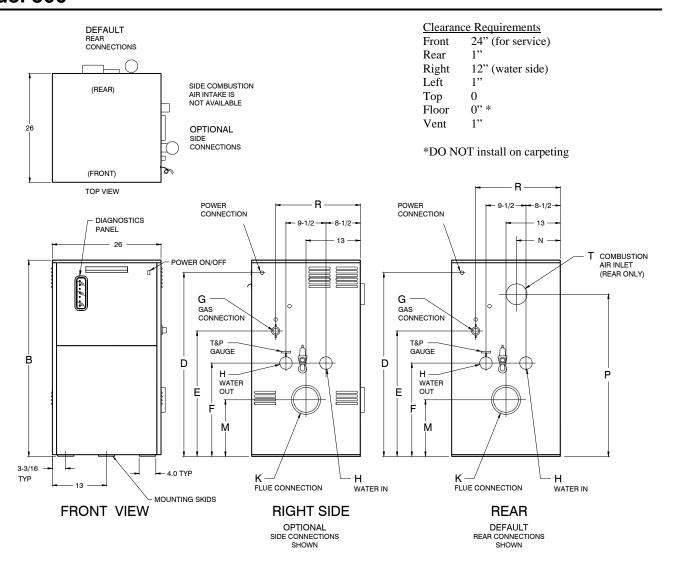






Catalog No.: 2000.27M Effective: 2-1-08 Replaces: 6-1-05

ADB - Type H Model 500



MODEL	ME	BTUH	В	D	E	F	G	Н	K	М	N	Р	R	т	Ship Weight	Foot- print	Amps*
	Input	Output	Height				NPT	NPT							Lbs.	Ft. ²	
H 500	500	420	49	46	30	22-1/2	1	2	6	13-3/4	8-5/8	40	22-1/4	6	545	4-3/4	8

Dimensions are in inches.

Ratings shown for elevations up to 5,000 feet for natural or propane gas. For installation at elevations over 5,000 feet, please consult factory.

NOTE: For direct vent applications, please contact factory about relocating the pump.

* Current draw NOT including pump. (Supply breaker must have a delayed trip)

BOILER RATES OF FLOW AND PRESSURE DROPS

	20°F	FΔT	M	AX. FLO	W	MIN. FLOW				
MODEL	GPM	ΔP (ft)	GPM	ΔP (ft)	ΔΤ	GPM ΔP (ft)		ΔΤ		
H 500	42	2.6	84	8.8	10°F	30	1.6	28°F		

Recommended natural gas pressure is 7-10.5" w.c. Recommended propane gas pressure is 11-13" w.c.

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

Catalog No.: 2000.27M Effective: 2-1-08 Replaces: 6-1-05