



XFIIRE
500B (500 MBH Input)

Tag: **8-14**
Project: **stock**
Quantity: **1**

Unit Information

Model Series: **XFIIRE**
Size: **5008 (500 MBH Input)**
Fuel: **Natural Gas**
Location: **Indoor**
Altitude: **0** ft

Heating Performance

Input Temp: **130** F
Output Temp: **160** F
Design Capacity: **0** MBTUH
Input Capacity: **500** MBTUH
Output Capacity: **480** MBTUH
Thermal Efficiency: **96** %

Water Flow

Design Flow: gpm
Max Flow: **62** gpm
Min Flow: **25** gpm
Pressure Drop: ft. wg

General Unit Data

Unit Weight: **416** lbs.
Unit Length: **36.83** in.
Unit Width: **27** in.
Unit Height: **40.2** in.



XFIIRE



Product Data: Type H Hydronic Boiler

Qty	Description
	Type H Hydronic Boiler

Tag(s): B-14**Selected Options**

Location : Indoor
Size : 500B (500 MBH Input)
Fuel Type : Natural Gas
Pressure Relief Valve: A-12 60 PSIG
Power Supply: E-16 208V/220V/240V-60Hz-1PH (OPTIONAL)
Ignition Module : 3-Try Standard Ignition - Auto Reset
Raymote : C-11 Raymote
Alarms : None
Flow Meter and Manifold : None
Codes : G-9 Kentucky
High Limit - Manual Reset : Fixed Manual Reset Limit - Standard
High Limit-Auto Reset: 1-13 Adjustable Auto Reset Limit- 200 F
Safety Valves : None
Vent Valve : None
Pressure Switch : S-1/S-2 Low and High Gas Pressure Safety Switches - Manual Reset
Pump Material : None
Water Quality/ Pump Selection Criteria : None
Pumps - Shipped Loose : None
BAS/BMS Gateway Protocol Convertor : None
Condensate Treatment Kit: Z-12 Condensate Treatment Kit
Elevation: Below 2000 ft (0 - 1999 ft)

Selected Accessories

XFiire H Standard Features**Qty: 3 Tags: B-13, B-14, B-15****Standard Features****Heat Exchanger**

- All stainless steel construction with brass connections
- ASME H stamped; 160 PSIG MAWP
- National Board registered
- T&P Gauge (shipped loose for field installation by others)

Control

- VERSA IC® with 4.3" color touchscreen display
- 0-10 VDC input for BMS
- Cascade up to 4 water heaters
- Remote flame sensor
- Fixed high limit, manual reset, 200°F (93°C)
- Alarm dry contact connection
- On/off power switch
- Flow switch (factory mounted)
- Low water cut-off, remote probe
- Blocked vent pressure switch
- Boiler, DHW & System Pump contacts
- Data Logging
- Modbus RTU BMS port
- Water temperature sensors (5 total)
 - Inlet (factory mounted and wired)
 - Outlet (factory mounted and wired)
 - Indirect (shipped loose for field installation by others)
 - Temperature to Indirect (shipped loose for field installation by others)
 - Cascade sensor (shipped loose for field installation by others)

Burner

- Direct spark ignition (DSI)
- Low NOx: less than 20 ppm

Gas Train

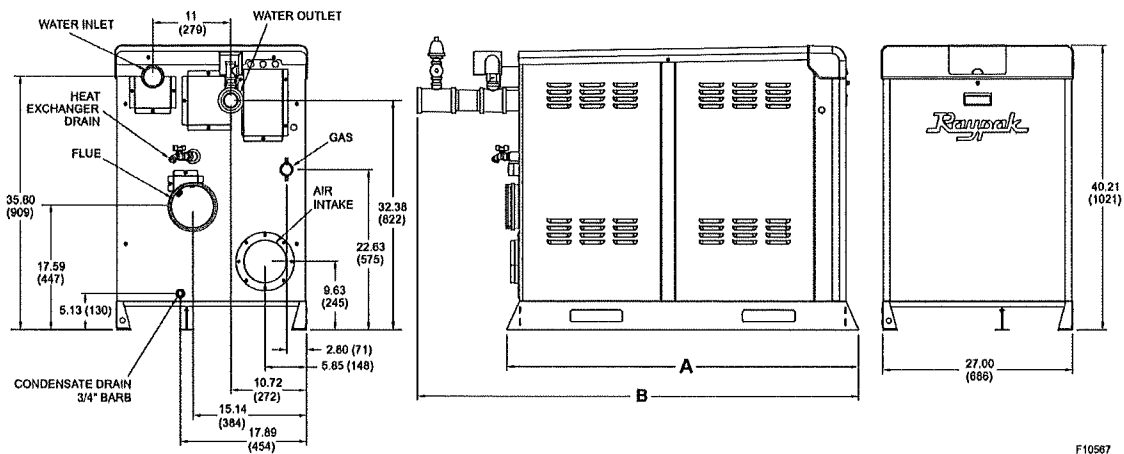
- Dual-seat combination valve
- H7 electronic modulating firing mode

Construction

- Indoor/outdoor construction
- Enclosed front controls
- PolyTuf powder coat finish
- Rear connections (water, gas, vent, electrical, combustion air, condensate and drain)
- Design certified ANSI Z21.13/CSA 4.9
- Built-in combustion air filter
- Built-in condensate trap and switch
- Zero side clearance to combustibles
- PVC, CPVC, polypropylene or stainless steel venting certified
- Limited twenty-year thermal shock warranty
- Limited ten-year heat exchanger warranty
- Meets SCAQMD R1146.2 requirements (NOx less than 20 ppm)
- Proudly assembled in the USA

XFire H Dimensions 500B

Qty: 1 Tags: B-14



F10587

Model H7-	MBTUH (kW)		Turn Down	AHRI Thermal Efficiency	Dimensions - Inches (mm)						Operating Weight lbs (kg)
	Input	Output			A	B	Water Inlet/Outlet NPT	Flue Ø*	Air Intake Ø	Gas Connection NPT	
500B	500 (147)	480 (141)	7:1	96.0%	36.83 (935)	45.34 (1151)	2 (50)	4 (100)	4 (100)	1 (25)	416 (189)

* PVC/CPVC Standard

Clearance - Inches (mm)

	Front	Rear	Right	Left	Top	Front	Vent
Combustible Minimum	0	24 (610)	0	0	0	Open	1 (25)
Minimum Service	0	24 (610)	0	0	0	30 (762)	1 (25)

Model H7-	Boiler Current Draw	
	120VAC	208VAC
500B	<5.0 A	<5.0 A

* Current draw is for heater only. Supply breaker must have delayed trip.

** Single phase only.

Flow and Pressure Loss Information

Model H7-	MBTUH (kW/h)		20 °F ΔT		30 °F ΔT		Min Flow			Max Flow		
	Input	Output	GPM (L/min)	ΔP ft.wc.(kPa)	GPM (L/min)	ΔP ft.wc.(kPa)	GPM (L/min)	ΔP ft.wc.(kPa)	ΔT °F (°C)	GPM (L/min)	ΔP ft.wc.(kPa)	ΔT °F (°C)
500B	500 (147)	480 (141)	48 (182)	12 (36)	32 (121)	6 (18)	25 (93)	4 (12)	39 (22)	62 (235)	20 (60)	15 (8)

Maximum flow based on 15°F ΔT (8 °C) or 8 ft/s (2.4 m/s) velocity, whichever is less.

SHL = System Head Loss of water heater plus 100 equivalent feet (30 m) of pipe.

When water hardness is higher than 15 GPG, a softener MUST be used.

Footprint and Base Anchor Bolt Pattern

Model H7	Dimensions In. (mm)				
	A				
300B-500B	35.33 (897)				

Model H7	Standard H7 Boiler Pump				
	TACO MDL	HP	Amps @120VAC	GPM/FT HD	ΔT °F (°C)
500B	0012	1/8	1.3	32@7.8'	30 (17)

