



**XFIIRE**  
**400B (399 MBH Input)**

Tag: **B-13**  
Project: **stock**  
Quantity: **1**

**Unit Information**

Model Series: **XFIIRE**  
Size: **400B (399 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: **399** MBTUH  
Output Capacity: **383** MBTUH  
Thermal Efficiency: **96** %

**Water FLOW**

Design Flow: gpm  
Max Flow: **50** gpm  
Min Flow: **20** gpm  
Pressure Drop: ft. wg

**General Unit Data**

Unit Weight: **411** 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-13****Selected Options**

Location : Indoor

Size : 400B (399 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**

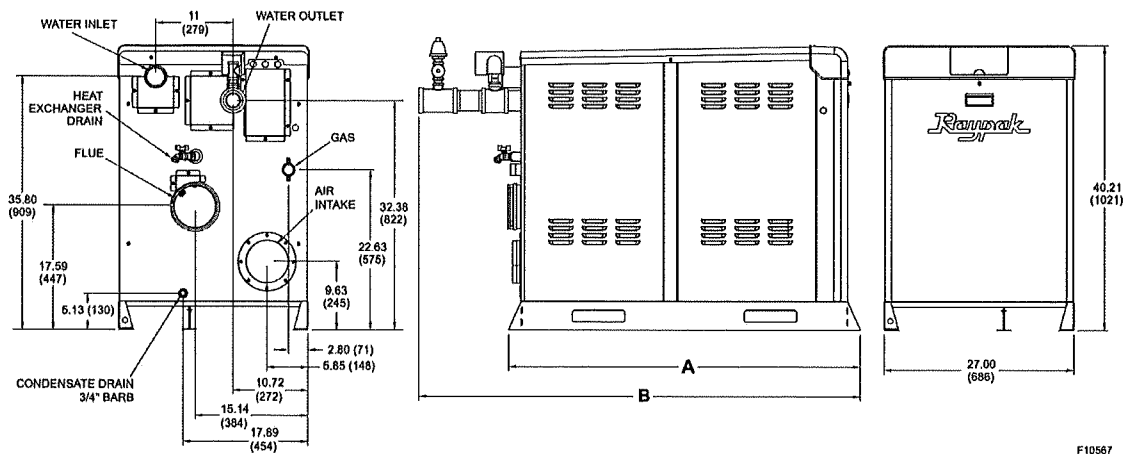
- Dual-seat combination valve
- H7 electronic modulating firing mode

**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

## XFiire H Dimensions 400B

Qty: 1 Tags: B-13



F10567

| 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 |                           |
| 400B      | 399 (117)  | 383 (112) | 7:1       | 96.0%                   | 36.83 (935)              | 45.34 (1151) | 2 (50)                 | 4 (100) | 4 (100)      | 1 (25)             | 411 (186)                 |

\* 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 |
| 400B      | <7.5 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) |
| 400B      | 399 (117)    | 383 (112) | 38 (144)    | 11 (33)        | 26 (97)     | 5 (15)         | 20 (74)     | 3 (9)          | 39 (22)    | 50 (189)    | 17 (51)        | 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) |
| 400B     | 0012                    | 1/8 | 1.3          | 30@8.5'   | 26 (14)    |

