



APPROVED

**Product Submittal for XVers™ - Type H
Heating Boiler
Models 0856-3006**

Date: _____ Job: _____ Location: _____
Equipment Tags: _____ Engineer: _____ Contractor: _____
Model: _____ Notes: _____
Prepared by: _____ Indoor ☐ Outdoor ☐ Gas Type: Natural Gas ☐ Propane ☐

Stainless steel vertical fire-tube construction with versatile and adaptive controls.

Up to 96.2% thermal efficiency at full rate

100% factory fire-tested

VERSA IC® modulating controller with 7" color touchscreen display

Raymote™ remote connectivity provided standard

Up to 15:1 turndown

Fault history with full diagnostics

Status display lights

Cascade up to 8 boilers - no external sequencer required

Cascade in parallel or sequential modulation modes

Modbus RTU BMS port

Rich-start ignition system (Patent Pending)

Maximum outlet water temperature: 200°F(93.3°C)

Minimum continuous inlet water temperature: 40°F(4.4°C)

Limited 25-year thermal shock warranty

Limited 10-year heat exchanger warranty

Ultra Low NOx < 20 PPM - Sizes 0856-2006 certified by SCAQMD to rule 1146.2

Proudly assembled in the USA



Standard Features

Heat Exchanger

- 316L stainless steel
- ASME H-stamped; 160 PSIG MAWP
- National Board registered
- ASME pressure relief valve
 - ☐ 60 PSIG (standard)
 - ☐ ____ PSIG (optional)
- T&P gauge

Control

- Power supply 0856-1506
 - ☐ E-16 120V, 60Hz, 1Ø (standard)
 - ☐ E-16 208/240/277V, 1Ø (optional)
 - ☐ E-17 480/600V, 3Ø (optional)
- Power supply 1756-3006
 - ☐ E-16 208/240/277V, 1Ø (standard)
 - ☐ E-17 480/600V, 3Ø (optional)
- 24VAC 60Hz transformer
- 12VDC transformer
- VERSA IC® controller
- 7" color touchscreen display
- Raymote™ IoT connectivity
- Cascade up to 8 heaters
- Parallel and sequential modulation cascade modes
- Cascade interstage delay settings
- Cascade flow offset control
- Ignition module
 - ☐ 3-Try (standard)
 - ☐ C-6 single-try (optional)
- Remote flame sensor
- High limit, manual-reset, fixed, 200°F
- Vent temperature sensor
- Off-idle-run power switch
- Low water cut off
- Flow switch
- Water flow sensor
- Blocked vent pressure switch
- Freeze protection
- Alarm dry contact
- Programmable pump time delay outputs (pilot duty)
- DHW indirect-system-boiler (pump/valve)
- Modulating temperature control

- Outdoor air sensor
- Water temperature sensors 10KΩ (2 mtd, 3 loose, 1 well)
- Blocked condensate switch
- Modbus RTU BMS port
- ☐ B-85 BMS Gateway, Modbus RTU to Modbus TCP, N2 Metasys, BACnet IP, or BACnet MS/TP (optional)
 - ☐ Loose
 - ☐ Factory mounted
- ☐ B-86 BMS Gateway, Modbus RTU to LONWorks (optional)
 - ☐ Loose
 - ☐ Factory mounted

Burner

- Hot surface ignition (HSI)
- Easily accessible radially-fired knitted burner

Gas Train

- Fuel
 - ☐ Natural gas
 - ☐ Propane (minimum grade HD5)
- C-10 HO₂T O₂ trim system (optional)
- Rich-start ignition system (patent pending)
- Dual-seat combination valve
- Manual shut-off firing valve
- Sediment trap connection standard

Construction

- Indoor/outdoor construction
- Enclosed front controls
- PolyTuf powder-coat finish
- Rear connections (water, gas, vent, electrical, condensate drain)
- Combustion air filter
- Design certified ANSI Z21.13/CSA 4.9
- Front connection low-voltage wiring
- Built-in lifting lugs for rigging
- Built-in flue gas analysis port
- Forklift or pallet jack accessible

Venting (Cat IV)

- ☐ D-11 Outdoor vent kit, Centrotherm® polypro
- ☐ D-11 Alternative outdoor vertical vent termination
- ☐ D-15 Sidewall vent termination cap
- ☐ D-23 Outdoor vent support
- ☐ D-26 Vent termination tee, Centrotherm® polypro

- ☐ D-29 Straight vent pipe, Centrotherm® polypro 36"
- ☐ D-33 Vent adapter Centrotherm® polypro
- ☐ D-37 Motorized combustion air damper
- ☐ D-108 90° vent adapter SS to PVC

Options

- ☐ B-31 Sensor well assy
- ☐ B-65 Indirect tank aquastat (for use with hydronic system with indirect tank)
- ☐ E-5 Boiler alarm with 4" bell
- ☐ E-15 Boiler alarm with buzzer
- ☐ I-5 High limit, adj. manual reset, 200°F max
- ☐ I-13 High limit, adj. auto reset, 200°F max
- ☐ M-1 Safety valve - motorized
- ☐ M-10 Safety valve - solenoid
- ☐ M-15 Safety valve - vent valve (requires M-1 or M-10)
- ☐ P-170 Motorized isolation valve
- ☐ P-171 Suction diffuser (3x3)
- ☐ S-1 Low gas pressure switch, manual-reset
- ☐ S-2 High gas pressure switch, manual-reset (STD 2506-3006)
- ☐ Z-12 Condensate treatment kit
- ☐ Z-21 Cabinet latch with key

Additional Options or Accessories

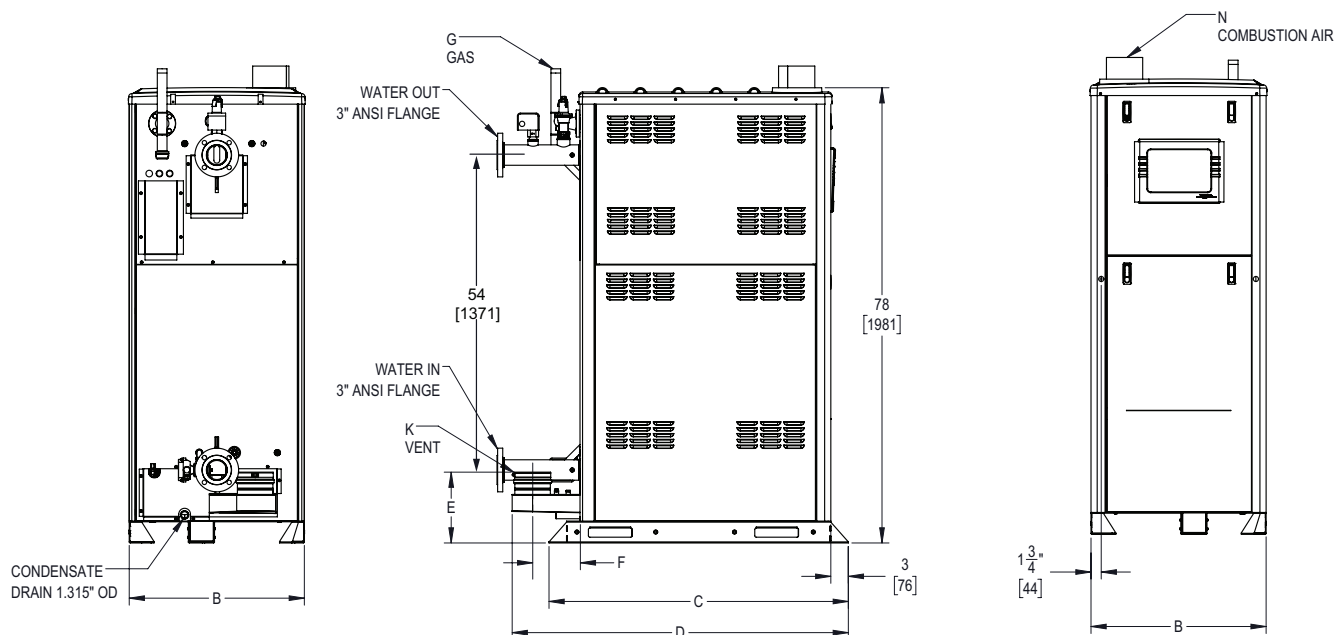
☐ _____

Pumps (optional)

☐ _____

Hybrid Multi-Boiler Temp Controllers

- ☐ B-36 TempTracker Mod+ Hybrid, 2-4 boilers, OA reset
- ☐ B-37 TempTracker Mod+ Hybrid, 5-10 boilers, OA reset
- ☐ B-38 TempTracker Mod+ Hybrid, 11-16 boilers, OA reset
- ☐ B-39* EMS 4-20 mA Remote Setpoint Interface Module
- ☐ B-62* BACnet MS/TP Interface Module (*only used with B-36 to B-38)



Model (H7-)	MBTUH (kW/h)		Turn Down	AHRI Thermal Efficiency	Dimensions - Inches (mm)							Shipping Weight lbs. (kg)	Operating Weight lbs. (kg)	Water Content gal. (L)	
	Input	Output			B Width	C Base Depth	D Overall Depth	E	F	G NPT	K Flue Ø*				N C/A Ø
 0856	855 (250.6)	822.5 (241.1)	8 to 1	96.2%	30 (762)	51.3 (1303)	60.2 (1529)	12-1/8 (308)	12-1/2 (318)	1-1/4 (31.75)	6	6	1596 (724)	2237 (1015)	77 (291.5)
 1006	999 (292.8)	961 (281.6)	9 to 1	96.2%	30 (762)	51.3 (1303)	60.2 (1529)			1-1/4 (31.75)	6	6	1596 (724)	2237 (1015)	77 (291.5)
 1256	1250 (366.3)	1202.5 (352.4)	13 to 1	96.2%	30 (762)	54.4 (1382)	63.4 (1610)			1-1/4 (31.75)	8	6	1960 (889)	2835 (1286)	105 (397.5)
 1506	1500 (439.6)	1443 (422.9)	15 to 1	96.2%	30 (762)	54.4 (1382)	63.4 (1610)			1-1/4 (31.75)	8	6	1960 (889)	2835 (1286)	105 (397.5)
 1756	1750 (512.9)	1683.5 (493.4)	8 to 1	96.2%	34 (864)	56.5 (1435)	65.7 (1669)			2 (51.0)	8	8	2080 (943)	3055 (1386)	117 (442.9)
 2006	1999 (585.8)	1923 (563.6)	9 to 1	96.2%	34 (864)	56.5 (1435)	65.7 (1669)			2 (51.0)	8	8	2080 (943)	3055 (1386)	117 (442.9)
 2506	2499 (732.4)	2404 (704.5)	9 to 1	96.2%	34 (864)	60 (1524)	70.4 (1788)	13-1/8 (333)	13-1/2 (343)	2-1/2 (63.5)	10	8	2900 (1315)	4141 (1878)	149 (564)
 3006	3000 (879.2)	2868 (840.5)	10 to 1	95.5%	34 (864)	60 (1524)	70.4 (1788)			2-1/2 (63.5)	10	8	2900 (1315)	4141 (1878)	149 (564)

*DuraVent FasNSeal®

Clearances - Inches (mm)

	Front	Rear	Right	Left	Top	Floor*	Vent
Certified Minimum to Combustibles	Open	24 (610)	1 (25)	1 (25)	1 (25)	0	1 (25)
Recommended Service	30 (762)	24 (610)	1 (25)	1 (25)	24 (610)	0	

*WARNING: Do not install on carpeting.

Flow and Pressure Loss Information

Model (H7-)	□ 0856		□ 1006		□ 1256		□ 1506		□ 1756		□ 2006		□ 2506		□ 3006	
	GPM (L/min)	ΔP ft.hd. (kPa)	GPM (L/min)	ΔP ft.hd. (kPa)	GPM (L/min)	ΔP ft.hd. (kPa)	GPM (L/min)	ΔP ft.hd. (kPa)	GPM (L/min)	ΔP ft.hd. (kPa)	GPM (L/min)	ΔP ft.hd. (kPa)	GPM (L/min)	ΔP ft.hd. (kPa)	GPM (L/min)	ΔP ft.hd. (kPa)
20°F ΔT	82 (310)	1.7 (5.1)	96 (363)	2.2 (6.6)	120 (454)	2.6 (7.8)	144 (545)	3.6 (10.8)	168 (636)	3.8 (11.4)	192 (727)	4.7 (14.0)				
40°F ΔT	41 (155)	0.5 (1.5)	48 (182)	0.7 (2.1)	60 (227)	0.8 (2.4)	72 (273)	0.9 (2.7)	84 (318)	1.0 (3.0)	96 (363)	1.2 (3.6)	120 (454)	2.1 (6.3)	143 (541)	3.0 (8.9)
**Max Flow	165 (624)	6.4 (19.1)	192 (727)	7.8 (23.3)	231 (874)	8.0 (23.9)	231 (874)	8.0 (23.9)	231 (874)	6.7 (20.0)	231 (874)	6.7 (20.0)	231 (874)	7.1 (21.2)	231 (874)	7.1 (21.2)
Min Flow at 100%	22 (83)		24 (91)		30 (114)		36 (136)		42 (159)		48 (182)		60 (227)		72 (273)	
*Min Flow for Ignition	22 (83)		22 (83)		22 (83)		22 (83)		25 (95)		30 (114)		40 (151)		45 (170)	
*Min Flow	22 (83)		22 (83)		22 (83)		22 (83)		22 (83)		22 (83)		22 (83)		29 (110)	

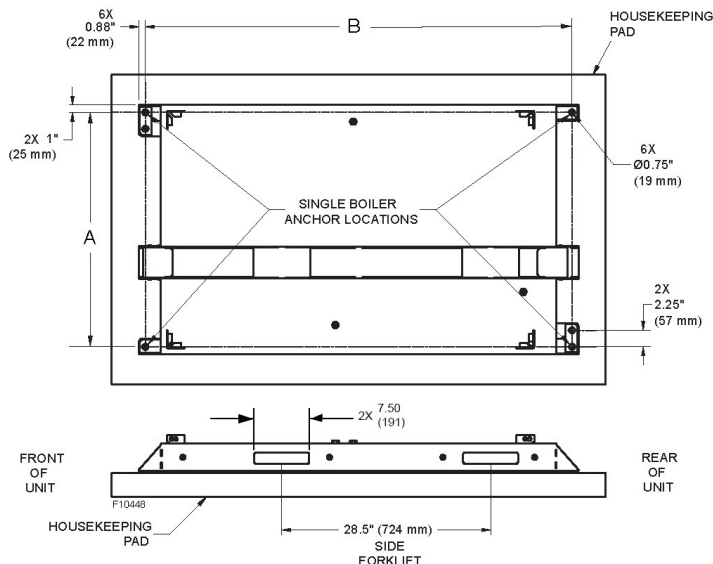
*Minimum flow based on water as a heating medium. Mediums other than water may require higher minimum flow rates.

**Maximum flow based on 10°F ΔT or 10.5 feet per second velocity, whichever is less.

Model (H7-)	Boiler Current Draw					
	□ 120VAC	□ 208VAC	□ 240VAC	□ 277VAC	□ 480VAC	□ 600VAC
□ 0856	< 12A					
□ 1006						
□ 1256						
□ 1506						
□ 1756	< 17A	< 17A			< 12A	
□ 2006						
□ 2506						
□ 3006						

Current draw is for boiler only (supply breaker must have delayed trip).

Engineered Base



Model (H7-)	Engineered Base Dimensions - Inches (mm)		
	A	B	Operating Weight lbs. (kg)
□ 0856-1006	28 (711)	49.5 (1257)	2237 (1015)
□ 1256-1506		52.6 (1336)	2835 (1286)
□ 1756-2006	32 (813)	54.7 (1390)	3055 (1386)
□ 2506-3006		58.2 (1478)	4141 (1878)