



XVers Powered by KOR
H7-1507 (1500 MBH Input)

Tag: 8-06
Project: stock
Quantity: 1

Unit Information

Model Series: **XVers® Powered by KOR**
Size: **H7-1507 (1500 MBH Input)**
Fuel: **Natural Gas**
Location: **Indoor**
Altitude: **0** ft

Heating Performance

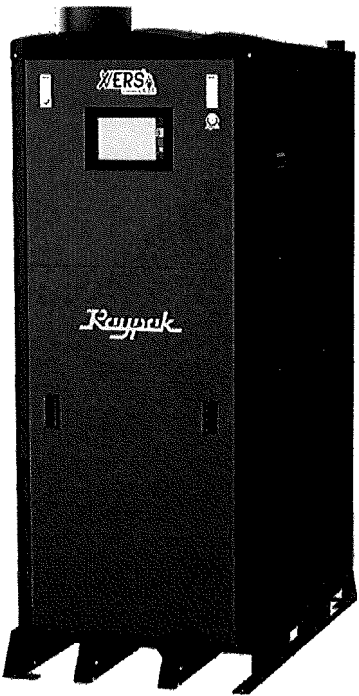
Input Temp: **130** F
Output Temp: **160** F
Design Capacity: **0** MBTUH
Input Capacity: **1500** MBTUH
Output Capacity: **1427** MBTUH
Thermal Efficiency: **95.1** %

Water Flow

Design Flow: gpm
Max Flow: **240** gpm
Min Flow: **26** gpm
Pressure Drop: ft. wg

General Unit Data

Unit Weight: 1700 lbs.
Unit Length: 60.3 in.
Unit Width: 26 in.
Unit Height: 71.6 in.



XVers® Powered by KOR



Product Data: Type H Hydronic Boiler

Qty	Description
	Type H Hydronic Boiler

Tag(s): 8-06**Selected Options**

Size: H7-1507 (1500 MBH Input)

Fuel Type : Natural Gas

Location : Indoor

Pressure Relief Valves: A-12 60 PSIG

Ignition Module: 3-Try Standard Ignition - Auto Reset

Outdoor Vent Cap : None

Power Supply (Factory Installed): 120V-60Hz

Alarms : None

Codes : G-9 Kentucky

High Limit - Manual Reset : 1-5 Adjustable Manual Reset Limit - 200 F

High Limit- Auto Reset: 1-13 Adjustable Auto Reset Limit- 200 F

Safety Valves (Shipped Loose): None

Vent Valve (Shipped Loose): None

Variable Speed Pumps : None

Fixed Speed Pumps : None

Low Gas Pressure Switch : S-1 Low Gas Pressure Safety Switch - Manual Reset

High Gas Pressure Switch : S-2 High Gas Pressure Safety Switch - Manual Reset

Condensate Treatment Kit: Z-12 Condensate Treatment Kit

BAS/BMS Gateway Protocol Convertor : None

H02T Track & Trim : None

Elevation : Below 2000 ft (0 - 1999 ft)

Suction Diffuser (Shipped Loose): P-171 Suction Diffuser

Selected Accessories

XVers With KOR Standard Features

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Standard Features**Heat Exchanger**

- 316L stainless steel for tubing/fire side components
- 304 stainless steel water inlet/outlet and shell
- ASME H-stamped; 160 PSIG MAWP
- National Board registered
- T&P gauge

Control

- VERSA IC[®] modulating temperature control system
- 7" color touchscreen display
- Fault history with full diagnostics
- Status display lights
- Raynote™ IoT connectivity
- 24VAC 60Hz transformer
- 15VDC transformer
- Remote flame sensor
- Fixed high limit, manual reset, 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)
- Pump control relays
 - Boiler
 - Systems
 - Indirect DHW
- Outdoor air sensor (shipped loose for field installation by others)
- 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)
- Blocked condensate switch
- Modbus RTU BMS port

Burner

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

Gas Train

- Engineered modulating fuel to air flow system for precision combustion
- Rich-Start ignition system (patent pending, natural gas and/or propane, depends on unit input rate)
- Single gas valve body with 2 safety shutoff valves
- Manual shut-off gas valve
- Built-on external sediment trap (standard)

Vent Options

- Ready to vent with stainless steel
- Adapter required for polypropylene, PVC & CPVC (max. setpoint 230°F, 149°F and 194°F, respectively)

Construction

- Indoor/outdoor construction
- PolyTuf powder coat finish (no VOC)
- Front accessible junction box and transformer
 - Low voltage terminal strip
 - Easy access for maintenance and troubleshooting
- Rear connections (water, gas, vent, electrical, condensate drain, high voltage terminal block, pump connections)
- Front accessible combustion air filter
- Combustion air inlet on top of unit
- Design certified ANSI Z21.13/CSA 4.9
- Built-in lifting lugs for rigging
- Built-in flue gas analysis port
- Forklift or pallet jack accessible from front, back and sides
- Seismic anchor-ready base
- Indoor/outdoor construction - standard
- Limited 10-year heat exchanger warranty
- Supports primary/secondary and primary piping
- Freeze protection integrated with VERSA IC
- SCAQMD rule 1146.2 certified[2] – Low NOx <20 ppm
- BAAQMD rule 9-7-307.1 certified[3] – Low NOx <30 ppm
- SJVAPCD rule 4307 and 4308 propane certified - Low NOx <30 ppm
- Proudly assembled in the USA

[1] Appropriate venting material selection to be based on setpoint and Delta T. Max setpoint for PVC venting is 140°F.

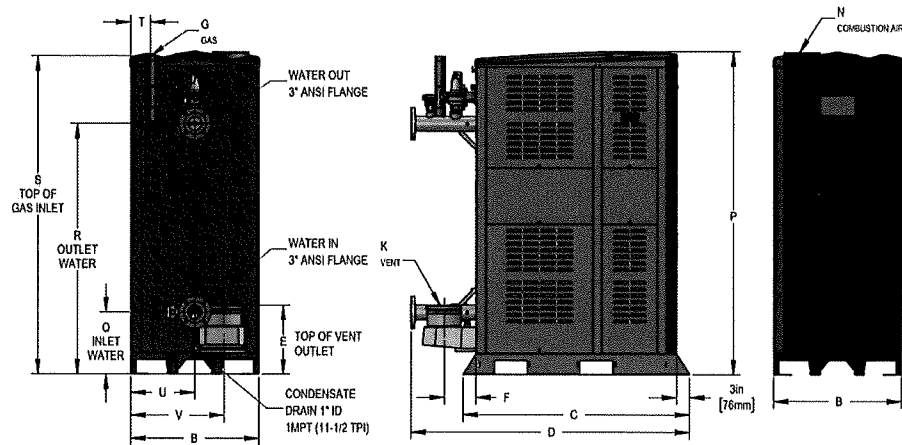
[2] SCAQMD rule 1146.2 certification is only applicable for units up to 2000 MBTUH input.

[3] BAAQMD rule 9-7-307.1 certification is only applicable for units above 2000 MBTUH input.

[4] Energy Star is only applicable for units below 2500 MBTUH input.

XVers With KOR Dimensions 1507 1

Qty: 1 Tags: B-06



Model	MBTU/h (kW)		Minimum BTU/h (kW) Input	Turn Down	AHRI Thermal / Combustion Efficiency (%)	Dimensions - Inches (mm)																Shipping 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	P	Q	R	S	T	U	V			
1507	1,500 (439.6)	1,427 (418.2)	100,000 (29.3)	15:1	95.1 / 95.3	26 (660)	48 (1219)	60.3 (1531)	16 (406)	7.5 (190)	1-1/4 (31.75)	8 (203)	8 (203)	71.6 (1818)	14.2 (362)	58.2 (1478)	73.1 (1856)	4.5 (114)	13 (330)	20.4 (518)	1,450 (658)	65 (246)	

Clearances - Inches (mm)

	Front	Rear Indoor	Rear Outdoor	Right	Left	Top Indoor	Top Outdoor	Floor*	Vent Indoor	Vent Outdoor
Combustible Minimum	Open	24 (610)	12 (305)	1 (25)	1 (25)	0	Unobstructed	0	1 (25)	Open
Minimum Service	30 (762)	24 (610)	24 (610)	1 (25)	1 (25)	24 (610)	Unobstructed	0	1 (25)	Open

*WARNING: Do not install on carpeting.

Model	Boiler Current Draw (Amps)				
	120VAC	208VAC	240VAC	480VAC	600VAC
1507	<11.0	<7.0	<6.0	<3.0	<3.0

NOTE: Boiler current only. Does not include pump current.

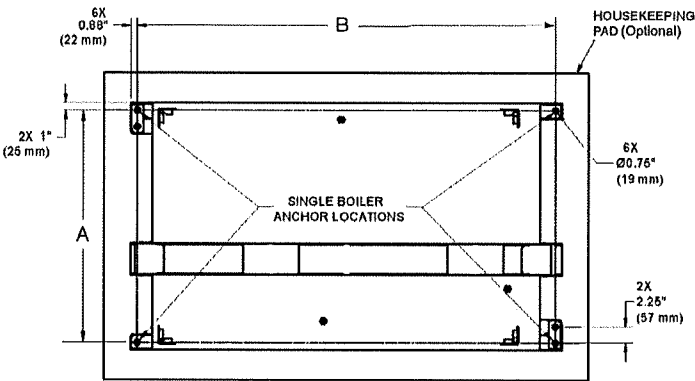
Rates of Flow and Pressure Drops																				
Model	Input	Output	20° ΔT						33° ΔT						40° ΔT					
			SHL			GPM (L/min)	ΔP ft.lhd (kPa)	SHL			GPM (L/min)	ΔP ft.lhd (kPa)	SHL			GPM (L/min)	ΔP ft.lhd (kPa)	SHL		
			GPM (L/min)	ΔP ft.lhd (kPa)	2.5" Pipe			3" Pipe	4" Pipe	2.5" Pipe			3" Pipe	4" Pipe	2.5" Pipe			3" Pipe	4" Pipe	2.5" Pipe
	MBTU/h (kW)	MBTU/h (kW)	GPM (L/min)	ΔP ft.lhd (kPa)	2.5" Pipe	3" Pipe	4" Pipe	GPM (L/min)	ΔP ft.lhd (kPa)	2.5" Pipe	3" Pipe	4" Pipe	GPM (L/min)	ΔP ft.lhd (kPa)	2.5" Pipe	3" Pipe	4" Pipe			
1507	1,500 (439.6)	1,427 (418.2)	143 (541)	3.56 (10.6)		8.15 (24.3)	4.78 (14.3)	87 (329)	1.3 (3.9)	6.68 (20.0)	3.15 (9.4)	1.78 (5.3)	72 (272)	0.66 (2.0)	4.46 (13.3)	1.97 (5.9)	1.00 (3.0)			

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Rates of Flow and Pressure Drops (Cont.)											
Model	60° ΔT					Min. Flow for Ignition*		Min. Flow for Full Fire (75°F ΔT)*		Max. Flow**	
	GPM (L/min)	ΔP ft.lhd (kPa)	SHL			GPM (L/min)	ΔP ft.lhd (kPa)	GPM (L/min)	GPM (L/min)	ΔP ft.lhd (kPa)	
			2.5" Pipe	3" Pipe	4" Pipe						
1507	48 (182)	0.39 (1.2)	2.18 (6.5)	1.02 (3.0)	0.50 (1.5)	26 (98)	0.4 (1.2)	43 (163)	240 (908)	8.6 (25.7)	

*Minimum flow based on water as a heating medium. Any other medium may require higher minimum flow rates. **Maximum flow inside the boiler is based on 10.5 ft per second velocity. Maximum velocity in the piping, and pipe sizing, must comply with applicable local building code requirements.
ΔP = Boiler pressure drop (feet of head).
SHL = System head loss of the boiler, plus 100 equivalent feet (30 m) of pipe.



Engineered Base

Model	A In. (mm)	B In. (mm)	Operating Weight lbs. (kg)
1507	23.75 (603)	40.0 (1168)	1,700 (771)

Optional Pump Information

Model	Fixed-Speed Boiler Pump					
	TACO MDL	HP	Impeller	Amps @115VAC*	GPM FT/HD	ΔT (°F)
1507	1611	1/4	4.5	6.3	76 / 3.0	38

Model	Variable-Speed Boiler Pump					
	TACO MDL	HP	Amps @110-240 VAC*	Amps @230-240 VAC*	GPM FT/HD	ΔT (°F)
1507	VR15-3	0.027 - 0.68	5.6 - 2.8		110 / 5.0	28

NOTE: Head (ft) based on 3" - schedule 40 pipe, except model 4007 which is 4" schedule 40 pipe.
*For primary/secondary operation, boiler pump requires independent leg of voltage with breaker.