

# SUBMITTAL SHEET

JOB NAME \_\_\_\_\_

LOCATION \_\_\_\_\_

ARCH. / ENGR. \_\_\_\_\_

WHOLESALER \_\_\_\_\_

MECH. CONTRACTOR \_\_\_\_\_

MODEL NO. \_\_\_\_\_ GAS TYPE \_\_\_\_\_

BTU/HR INPUT \_\_\_\_\_ BTU/HR OUTPUT \_\_\_\_\_

NOTES \_\_\_\_\_

## FEATURES:

### BOILER

- Stainless Steel Firetube Heat Exchanger
- Non-Metallic Heat Exchanger Base
- 10:1 Turndown Ratio (110–199 Sizes)
- 8:1 Turndown Ratio (80 Size)
- Built-In ECM Circulator (Taco 0015e)
- 3-in-1 Air/Vent Adapters w/ Vent Test Port
- Wall-Mount Bracket and Template
- Condensate Trap
- Low NO<sub>x</sub> SCAQMD Compliant
- High Altitude Approved

### CONTROL FEATURES

- Color Touchscreen Display
- Easy Setup with Control Wizard
- Zone and/or Priority-Based Control
- 4 Thermostat Inputs (2 on Combi)
- 0-10V Input (Modulation or Setpoint)
- Outdoor Reset for Each Priority
- Rate Adjustable per Priority
- 4 Outputs (2 on Combi) can be used with external circulators, dampers or system aux
- Aux Inputs—Flow Switch or End Switch

- Aux Outputs—System Pump or Damper
- Individually Fused 120V Outputs
- Modbus Connectivity
- Additional Heat Demand Contact
- Multi-boiler functionality with optional kit

### OPTIONAL EQUIPMENT:

- **Easy-up Manifold**  
Avoid flow issues, save time with quick fit near boiler piping
- **Isolation Flush Valves**  
For easy DHW maintenance
- **Paintable Sidewall Vent Termination**  
Blend in, nice appearance
- **2" and 3" Concentric Vent Termination**  
For one penetration through sidewall or roof
- **Low Water Cutoff**  
Simple plug and play kit to meet local codes
- **Condensate Neutralizer**  
To protect home drain line
- **Water Treatment and Test Kit**  
To help ensure entire system protection
- **Parts Kit**  
Critical components to optimize customer service

- **Maintenance Kit**  
Key components to perform annual boiler maintenance
- **Propane Kit**  
Simple conversion to match home LP supply
- **System Sensors**  
Extra monitoring points on supply and return pipes for further modulation
- **Multi-boiler Wiring Kit**  
Connect and operate up to eight ECO Tec boilers, to satisfy the needs of larger structures
- **Floor Stand Kits**
  - Pedestal version (shown)
  - Adjustable frame version



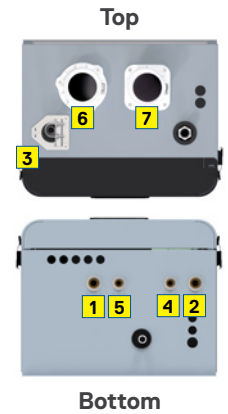
**HIGH-EFFICIENCY CONDENSING BOILER**

Water | Natural or Propane Gas | 80–199 MBH | 4 Heat-Only Sizes, 3 Combi Sizes  
Series 3 | Direct Exhaust or Direct Vent | 95% AFUE

**SPECIFICATIONS**

Domestic Hot Water Flow Rate Gallons Per Minute @ Temp Rise			
Model <sup>1</sup>	70°F	75°F	77°F
<b>110-C</b>	3.0	2.8	2.7
<b>150-C</b>	4.1	3.9	3.7
<b>199-C</b>	5.4	5.0	4.9

Connections (NPT/Inches)		80	110-H	110-C	150-H	150-C	199
<b>1</b>	Heating system supply tapping	1"	1"	3/4"	1"	3/4"	1"
<b>2</b>	Heating system return tapping	1"	1"	3/4"	1"	3/4"	1"
<b>3</b>	Gas connection	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
<b>4</b>	Domestic cold water supply	–	–	1/2"	–	1/2"	3/4"
<b>5</b>	Domestic hot water outlet	–	–	1/2"	–	1/2"	3/4"
<b>6</b>	Combustion air connection	3"	3"	3"	3"	3"	3"
<b>7</b>	Flue outlet connection	3"	3"	3"	3"	3"	3"



		AHRI Certified Ratings									
Model <sup>1</sup>	Input (MBH)	DOE Heating Capacity (MBH) <sup>2</sup>	Net AHRI Water Ratings (MBH) <sup>3</sup>	DOE Seasonal Efficiency (AFUE)	Boiler Water Content (Gal.)	Vent/Air Pipe Size (In.)	Vent Material	Boiler Dimensions	Boiler Weight (Lbs.)		
<b>HEAT-ONLY</b>	<b>80-H</b>	80	74	64	95%	2.2	2 or 3	PVC, CPVC, PP, SS	16"L x 20"W x 34"H	96	
	<b>110-H</b>	110	100	87	95%	2.2	2 or 3	PVC, CPVC, PP, SS	16"L x 20"W x 34"H	96	
	<b>150-H</b>	150	139	121	95%	3.1	2 or 3	PVC, CPVC, PP, SS	16"L x 20"W x 34"H	105	
	<b>199-H</b>	199	184	160	95%	3.8	2 or 3	PVC (3" only), CPVC, PP, SS	20"L x 20"W x 34"H	112	
<b>COMBI</b>	<b>110-C</b>	110	100	87	95%	2.2	2 or 3	PVC, CPVC, PP, SS	16"L x 20"W x 34"H	106	
	<b>150-C</b>	150	139	121	95%	3.1	2 or 3	PVC, CPVC, PP, SS	16"L x 20"W x 34"H	115	
	<b>199-C</b>	199	184	160	95%	3.8	2 or 3	PVC (3" only), CPVC, PP, SS	20"L x 20"W x 34"H	122	

<sup>1</sup>Shipped as natural gas, field-convertible to LP with optional kit.

<sup>2</sup>Based on standard test procedures prescribed by the United States Department of Energy, MBH refers to thousands of BTU per hour.

<sup>3</sup>Net AHRI ratings are based on net installed radiation of sufficient quantity for the requirement of the building and nothing needs to be added for normal piping and pick-up. Ratings are based on piping and pick-up allowance of 1.15. An additional allowance should be made for unusual piping and pick-up loads.

**DIMENSIONS**

Model	Dimensions															
	A	B	C	D	E	K	L	M	N	O	P	Q	R	S	U	V
<b>110–150</b>	6 <sup>3</sup> / <sub>16</sub> "	3"	9 <sup>1</sup> / <sub>4</sub> "	4 <sup>13</sup> / <sub>16</sub> "	7 <sup>5</sup> / <sub>8</sub> "	33 <sup>3</sup> / <sub>16</sub> "	1 <sup>5</sup> / <sub>16</sub> "	20"	17 <sup>13</sup> / <sub>16</sub> "	15 <sup>1</sup> / <sub>4</sub> "	10"	7 <sup>7</sup> / <sub>16</sub> "	5 <sup>5</sup> / <sub>8</sub> "	38 <sup>3</sup> / <sub>4</sub> "	16"	9 <sup>1</sup> / <sub>2</sub> "
<b>199</b>	4 <sup>13</sup> / <sub>16</sub> "	2 <sup>1</sup> / <sub>2</sub> "	13"	4 <sup>13</sup> / <sub>16</sub> "	9 <sup>9</sup> / <sub>16</sub> "	33 <sup>3</sup> / <sub>16</sub> "	1 <sup>5</sup> / <sub>16</sub> "	20"	16 <sup>3</sup> / <sub>4</sub> "	14 <sup>3</sup> / <sub>16</sub> "	8 <sup>7</sup> / <sub>8</sub> "	6 <sup>3</sup> / <sub>8</sub> "	5 <sup>5</sup> / <sub>8</sub> "	38 <sup>3</sup> / <sub>4</sub> "	19 <sup>9</sup> / <sub>16</sub> "	8"

