

## 1.0 SPECIFICATIONS

**Table 1-1 Specifications**

DESCRIPTION	Ti100	Ti150	Ti200
CSA Input Modulation <sup>1</sup> btu/hr [kw]	15,000 - 93,000 [4.4 - 29.3]	25,000 - 150,000 <sup>2</sup> [7.3 - 44.0]	25,000 - 199,000 [7.3 - 58.3]
DOE Heating Capacity <sup>1,3</sup> btu/hr [kw]	85,000 [24.9]	136,000 [39.8]	182,000 [53.3]
Net I=B=R Rating <sup>1,3</sup> btu/hr [kw]	74,000 [21.7]	118,000 [34.8]	158,000 [46.3]
DOE AFUE <sup>3</sup> %	95.1	95.1	95.1
Water Connections - NPT, in.	1 <sup>4</sup>	1 <sup>4</sup>	1
Gas Connection - NPT, in.	1/2	1/2	1/2
Vent/Air-Intake Pipe Diameter <sup>5</sup> , in. [mm]	3 [76]	3 [76]	3 [76]
Vent/Air-Intake, Max. Length, NG / LP ft. [m]	105 / 105 [32 / 32]	105 / 50 [32 / 15.2]	105 / 50 [32 / 15.2]
Dimensions H x W x D in. [mm]	22.5 x 15.5 x 16.75 <sup>6</sup> [571 x 394 x 425]	22.5 x 15.5 x 16.75 <sup>6</sup> [571 x 394 x 425]	22.5 x 15.5 x 18.25 [571 x 394 x 464]
Approx. Appliance Weight with Water, lbs [kg]	80 [36.3]	80 [36.3]	110 [49.9]

**Notes:**

- <sup>1</sup> Listed Input and Output ratings are at minimum vent lengths at Sea Level. Numbers will be lower with longer venting and/or altitudes greater than 2000 feet [610 m].
- <sup>2</sup> The maximum output when operating on LP-Gas is limited to 145,000 Btu/hr [42.5 kW].
- <sup>3</sup> Based on rating plate input capacities, using standard test procedures prescribed by the U.S. Department of Energy. Ratings have been confirmed by AHRI (GAMA).
- <sup>4</sup> Units sold in Canada are 3/4" NPT.
- <sup>5</sup> Trinity Ti units require a special venting system, use only vent materials and methods detailed in these instructions.
- <sup>6</sup> Ti100 and 150 units sold in Canada have a depth of 14.75".



This unit requires two people to lift it or property damage and personal injury may result.

### High Altitude Operation

The Trinity is designed to operate at its maximum listed capacity in installations less than or equal to 2000 ft [610 m] above Sea Level. Since the density of air decreases as elevation increases, maximum specified capacity should be de-rated for elevations above 2000 ft [610 m] in accordance with Table 1-2.

**Table 1-2 De-rate % for High Altitudes**

Elevations	2000 ft [610 m]	3000 ft [914 m]	4000 ft [1219 m]	4500 ft [1372 m]	5000 ft [1524 m]
In Canada <sup>1</sup>	de-rate by 5%	de-rate by 5%	de-rate by 5%	de-rate by 5%	de-rate % may vary
In USA <sup>2</sup>	-	de-rate by 4%	de-rate by 8%	-	de-rate by 12%

**Notes:**

- <sup>1</sup> Canada: Altitudes between 2000-4500 ft [610-1372 m], de-rate by 5%. Consult local authorities for de-rating capacities for altitudes above 4500 ft [1372 m].
- <sup>2</sup> USA: De-rate capacity by 4% for every 1000 ft [305 m] over 2000 ft [610 m].



At elevations greater than 2000 feet, the combustion of the appliance must be checked with a calibrated combustion analyzer to ensure safe and reliable operation. Consult Section 7.0 for instructions on adjusting the input to provide proper operation. **It is the Installers responsibility to check the combustion, and to adjust the combustion in accordance with Section 7.0.** Failure to follow these instructions may result in property damage, serious injury, or death.