

**OPERATION AND MAINTENANCE MANUAL - MODEL 1900DS-3**

**SPECIFICATION AND CAPABILITIES**

**1. Dimensions and Weight**

**A. Overall Dimensions - L x W x H (inches):**

Trailer -mounted unit. .... 155 x 88 x 86

**B. Shipping Weight (lb.):**

Trailer-mounted unit. .... 9,150

**2. Fluid Capacities**

**A. Refrigerant (R407C) (SUVA 9000).....90 lb.**

**B. Fuel, No. 2D or Jet A.....69 gallons**

**C. Lube Oil:**

**(1) Refrigeration system**

TRANE OIL 37 ..... 14 pints/each

**(2) Engine**

SAE 15W40,API CE/SF .....25 quarts

**D. Engine Coolant**

Ethylene Glycol solution (52%) ..... 16 gallons

**3. Performance**

**A. Supply Air Flow Rate (minimum).....267 lb./min  
(4000scfm)**

**B. Supply Air External Static Pressure (minimum) up to 30 inches  
of water**

**C. Supply Air Temperature:**

**In Cooling Mode:**

@ 100 °F db/75 °F wb ambient .....40 °F to 55 °F

**In Heating Mode:**

@ 0 °F db ambient .....(110 °F ± 5 °F)



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**D. Automatic Capacity Control Stages:**

In cooling mode ..... **3 stages (100-67-33%)**

In heating mode ..... **3 stages (100-75-50%)**

**E. Fuel Consumption** ..... **(8± 1) gal/hr**

**F. Engine Power Output Ratings @ 1800 RPM:**

Standby duty ..... **207 hp**

**G. Generator Ratings @ 1800 RPM:**

(1) Electrical Power ..... **460 Vac-3ph-60Hz**

(2) Output @ 105°C temp. rise ..... **175 KW**

(3) Output @ 130°C temp. rise ..... **187 KW**

**H. Motor Ratings @ 460 Vac:**

(1) Compressor motor ..... **3450 Rpm, 15 hp**

(2) Blower motor ..... **3450 RPM, 30 hp**

(3) Fan motor ..... **1750 RPM, 7.5 hp**

