

AIRCRAFT REFUELER 10000 Gallons

Model : GSRF-10000GLZ-COM

1. GENERAL:

The Refuellers is capable to supply 10,000 U.S. Gallons of jet fuel and the Lifting platform is able to reach Boeing 777 and Airbus 380 Aircraft.

Tank and fuelling equipments are installed on LHD/RHD chassis and designed to locate fueling machinery systems in between the chassis cab and tank. All the super structure systems are built to meet to requirements of

- NFPA 385 (Standard for Tank Vehicles for Flammable and Combustible Liquid 2000 Edition)
- NFPA 407 (Standard for Aircraft Fuel Servicing)
- ATA-103 Latest issue.
- JIG-1 issue 10.
- IATA issued 30th January 2010.

All the major fuelling components are complied with current editions of API/IP (American Petroleum Association) rules & regulations.

All the system to be constructed and fabricated by the best material for the applications intended and piping and tubing which to contract with directly Jet Fuel are fabricated by non corrosive materials. All the following proposed specifications and details are designed to comply fully with Principals requirements, and further included some additional safety features & operating systems.

2. RATE OF FLOW

- 1) Underwing Pressure Fuelling by Two Deck Nozzles : 600 US.Gallons per minute.
- 2) Defuelling from Aircraft : 200 US.Gallons per minute
- 3) Bottom Loading : 500 US.Gallons per minute.

3. MAIN FUNCTION MODES

- 1) Re-Fuelling mode
- 2) De-Fuelling mode
- 3) Bottom Loading mode : Fill up Tank through bottom loading adaptor
- 4) Suction mode (Fill up Tank through loading/discharging port by vehicle's pump)
- 5) Free Discharging mode : Dump out fuel through Bottom loading adaptor

4. SAFETY FEATURES

- 1) Brake inter-lock system
- 2) Emergency shut-off control system
- 3) Double Overfill protecting system(Jet level or Optic sensor)

- 4) Static ground reels
- 5) Fire extinguishers
- 6) Electronic type Deadman Timer system
- 7) Auto pressure control system
- 8) Nozzle with 45psi Hose End Control Valve (HECV)

5. CHASSIS : Detailed specification available upon request

6. EQUIPMENT DESCRIPTION

6 - 1 : TANK

- 1) Capacity : 10,000 Gallons plus 3% expansion space Single compartment design, Five(5) baffles with communicating holes.
- 2) Materials of Shell, Head & Baffles : Aluminum Alloy No. AL5182 as per NFPA 385 2000 Edition cl. 2-3.2 & ASTM B 209. Thickness : 5.0mm as per NFPA385 2000

6 - 2 : Pump

- 1) Capacity : 600 U.S. GPM @1700 r.p.m.
- 2) Type : Self-priming, centrifugal with enclosed impeller

6 - 3 : Filter/Separator

- 1) Flow Rate : 600 U.S. GPM
- 2) Material : Stainless Steel 304 (Housing)
- 3) Pressure : 10 BarG
- 4) Description : Certified API-1581 Group II. Class C, 5th Edition

6 - 4 : Flow Meter : 600 U.S. GPM, 10.5 BarG

6 - 5 : Emergency Valve (at Tank bottom) : : Air operated

6 - 6 : Pressure Control Valve (Deadman Valve) : : Air and Fuel Pressure operated

6 - 7 : Bypass Valve : Air and Fuel Pressure operated

6 - 8 : Jet Level Sensor (Overfill protection) : Fuel Pressure operating

6 - 9 : Air vent Valve

6 - 10 : Tank level Dial gauge : 10 inch, Float type

6 - 11 : Venturi : 4 inch

6 - 12 : Underwing Nozzle : With 100 mesh strainer and 45 psi HECV equipped, 3 EA

6 - 13 : Deadman System : Electronic system, 2 sets

6 - 14 : Bottom Loading Adaptor : 2 1/2 inch, 2 EA

6 - 15 : Static Ground Reel : : 75ft, 3 Ea

6 - 16 : Visual Check Fuel Sampler : Closed Circuit Fuel Sampler for visual check

6 - 17 : Sampling Kit : Located up & down-stream of filter/Separator, 2 EA

6 - 18 : Deck Hose : 2 1/2 inch API Hose x 10 ft, 2 units

6 - 19 : Hose Reel & Hose : 2 1/2 inch API Hose x 50 ft

6 - 20 : Manholes : Dia. 500mm

6 - 21 : Lifting Platform : Lifting platform able reach B-777 & A-380

6 - 22 : Emergency Stop : Electric type, 2 Ea.(Deck & Main panel)

6 - 24 : Interlock System : Electronic Brake Inter-Lock system

6 - 25 : Override System

6 - 26 : Control Panel

- The above specification could be changed on request
- OPTIONS : Options is available on request