

## Standard 18,000 Litre Low Profile Aircraft Refueller



An 18,000 litre useable capacity rigid type refueller mounted on a 4x2 chassis cab. Suitable for towing a 45,000 litre capacity drawbar trailer, the refueller is equipped with a rear mounted elevating platform with the main delivery and metering equipment located immediately behind the drivers cab. The refueller is constructed in accordance with current BS EN 12312-5 and JIG 1 issue 12 requirements where applicable.

Operating Temperature of -20°C to +50°C

### Features

#### Dimensions

Height 2.85/2.90m +/- 50mm  
Width 3.00m  
Length 10.50/11.00m

#### Flow rate

##### Fuelling

Rear deck mounted hoses 3000 to 3400 lpm (63mm x 3.5m)  
Reel hoses – 2 x 1100lpm (Choice of Underwing or Overwing)

##### Defuelling

Maximum 300 lpm through any hose

##### Bottom Loading

2500 lpm

#### Fuel Pump

Gorman Rupp inline or PTO driven self-priming centrifugal pump type 06D1

#### Filtration

Filter water monitor or filter water separator constructed in carbon steel with epoxy coat lining meeting the latest requirements of IP1583 and IP1581 respectively and is fitted with high differential pressure shutdown system.

#### Meters

Satam positive displacement meter with EMR4 Electronic Display.

#### Hoses

##### Reel Hose Underwing

2-off Ø50mm bore x 20m long meeting the requirements of BS EN ISO 1825 Type C Elaflex or Goodyear.

##### Reel Hose Overwing Deck Hoses

2-off Ø63mm bore x 3.5m long type meeting the requirements of BS EN ISO 1825 Type C Goodyear or Elaflex.

#### Elevating platform

Hydraulically powered scissor mechanism platform with floor to ground height range from 1.5m to 4.2m. Platform equipped with raise/lower control and emergency lower control valve.

Access is via a fixed vertical ladder positioned at the rear.

#### Hose End Equipment Controller (HEPC)

Hose end pressure control couplings (HEPC) equipped with 45psi regulator, vacuum breaker, 100mesh screen.

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### Refueller Tank

18,000 litre usable capacity, constructed in aluminium alloy or stainless steel with 3% expansion allowance and equipped with:

- 2-off Ø500mm recessed manlid assemblies c/w Pressure / vacuum vent valve, Ø250mm hinged inspection lids
- Calibrated captive type dipstick assembly
- Primary and secondary overfill systems
- Side mounted float actuated contents gauge
- Pneumatically actuated Ø150mm main footvalve
- Pneumatically actuated Ø80mm sump foot valve
- Pneumatically actuated Ø100mm bottom loading valve
- Tank top equipped with 3M's Anti slip walkway surface

### Safety Systems

Fire extinguisher – 2 x 9kg BC dry powder fitting inside enclosed container  
Bonding reels – manual rewind with 30m of clear PVC insulated copper cable

ATEX approved electrical barrier system

### Interlocks

FuelTronic© II refuelling management system incorporating deadman Timer, brake interlock monitoring system and Interlock override system. Brake interlock system preventing the vehicle from being moved if any item is left unstowed. Items protected are:

- Product pump drive mechanism
- Reel hose HEPC stowage's
- Rear platform
- Platform mounted HEPC stowage's
- Bottom loading connections
- Outside source connection
- Bonding reel

### Dumptank

55L capacity fully draining manually emptied tank with visual contents window and with high level float warning system and equipped with Visual Check Fuel Sampling (VCFS) assembly.

### Pipework

Constructed in grade 304L 10s seamed Stainless Steel tubing throughout.

### Hosereel

Fluid Transfer double volute heavy duty hosereels complete with hydraulic rewind mechanisms and hose guide rollers

### Options

### HEPC

Choice of Avery Hardoll, Carter or Whittaker

### Chassis

Chassis manufacturer typically chosen from: MAN, Mercedes-Benz, Renault, or DAF, in either 4x2 or 6x2 format. Other chassis manufacturers available by request.

