

30,000 Litre Capacity Aircraft Refueller



A semi-articulated refueller incorporating a 4x2 chassis and single trailer axle configuration for optimal manoeuvres on the airport ramp. The refuelling unit are mounted on the rear of the trailer tank unit. The refueller is designed and constructed in accordance with the latest European Standards BS EN 12312-5 and JIG 1 Issue 12 requirements where applicable.

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

Features

Dimensions

Height: 3.60m +/- 50mm (excluding beacon)
Width: 3.20m
Length: 15.10m

Flowrate

Fuelling

1,000 LPM through 1 x underwing reel hoses
300LPM through 1 x overwing reel hose

Defuelling

300LPM through 1 x reel hoses
100LPM through 1 x overwing hose
2,500LPM

Bottom Loading

Fuel Pump

Dickow Product Pump (PTO driven)

Filtration

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

Meters

Satam positive displacement meter with EMR4 Electronic Display.
Flowrates up to 300/1,000LPM (separately) for reel hoses

Hoses

Reel Hose Underwing Reel Hose Overwing

Aviation hoses meeting EN BS ISO 1825 type 'C' Elaflex.
Ø50mm x 25m long
Ø38mm x 25m long

Hose End Equipment Controller (HEPC)

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

The mechanical connection to the chassis unit is via a Ø1000mm turntable.

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Refueller Tank

30,000L useable capacity constructed in aluminium alloy with 3% expansion allowance.
Three external Ø500mm manholes/lids with pressure vacuum vents with Roll over safety valve and flame traps on vent valves
Internal Ø610mm access manholes
Single Ø254mm Bayham gauge
Calibrated dipstick
Two jacking points
Valenced tank top to protect the handrails and manlids in the event of a roll over.
Rear access ladder, pneumatically actuated folding safety rails, and non-slip walkway
Bottom loading system overspill prevention system fitted, with secondary safety cut out.

Safety Systems

Fire extinguisher – 2 x 9kg BC dry powder fitted inside enclosed containers
Bonding reel – 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
- Bottom loading connections
- Outside source connection
- Bonding reel
- Elevating Platform & Pantograph
- Tank top guard rails

Pipework

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

Hosereel

Single pedestal mounted hosereel with double race ball bearing internals and hydraulic rewind.

Dumptank

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

Options

Cabinet

Weather protective cabinet with roller shutter doors encapsulating the fuel system delivery equipment.

HEPC

Choice of Avery Hardoll, Carter or Cla-Val.

Chassis

Chassis manufacturer typically chosen from: MAN, Mercedes-Benz, Scania, Volvo, Renault, or DAF, in either 6x2 or 6x4 format. Other chassis manufacturers available by request.

Filtration

Filter water separator constructed in carbon steel with epoxy coat lining meeting the requirements of IP1581

