

Standard 20,000 Litre Capacity Aircraft Refueller



A 20,000L useable capacity rigid refueller mounted on either a 4x2 Scania chassis. The refueller is equipped with 1 x underwing and 1 x overwing hose, single meter and filter water separator or an optional filter monitor. Options include a weatherproof cabinet. The refueller conforms to latest European Standards EN12312-5 and JIG1 Issue 12 requirements.

Features

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

Dimensions

Height: 3.20m +/- 50mm (excluding beacon)
Width: 2.85m
Length: 9.65m

Flowrate Fuelling

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

Defuelling Bottom loading

200LPM through 1 x underwing hose
1,500LPM

Fuel Pump

Gorman Rupp 03H1 Series Self-priming centrifugal pump (PTO driven)

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

Aviation hoses meeting BS EN ISO 1825 type 'C' Goodyear or Elaflex.

Reel Hose Underwing Reel Hose Overwing

Ø50mm x 20m long
Ø38mm x 25m long

Hose End Pressure Controller (HEPC)

HEPC nozzle underwing, one Elaflex ZVF40 trigger nozzle overwing

Refueller Tank

20,000L usable capacity, constructed in aluminium alloy with 3% expansion allowance. Two external Ø500mm manhole/lid with pressure vacuum vent with roll over safety valve and flame trap on vent valve
Internal Ø610mm access manholes
Single Ø254mm Bayham contents gauge
Calibrated dipstick in litres
Valenced tank top to protect the handrails and manlids in the event of a roll over

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Safety Systems

Rear access ladder, pneumatically actuated folding safety rail and non-slip walkway
Primary and secondary overfill prevention system

Fire extinguisher – 2 x 9kg BC dry powder fitting inside enclosed container
Hi Viz 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 and brake interlock monitoring system.
Brake system preventing the vehicle from being moved if any item is left unstowed

Items protected are:

- Product pump drive mechanism
- Reel hose HEPC and trigger nozzle stowage
- Bottom loading connections
- Outside source connection
- Bonding reel
- Tank top guard rails

An emergency interlock override system is provided

Pipework

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

Hosereels

Single volute pedestal mounted hosereels with double race maintenance free ball bearings and chain driven hydraulic rewind

Dumptank

60L capacity fully draining manually emptied tank with visual contents window and with a high level float warning system. Equipped with Visual Check Fuel Sampler (VCFS) system

Options Cabinet

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

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

