

B787 Coolant Service Cart

Model 1010A & 1011A



The Models 1010A and 1011A B787 Coolant Service Carts (CSC) are designed in accordance with B787 system and equipment engineering specifications to meet the special servicing requirements of the aircraft environmental control systems (PECS, ICS, FCAC). The unit has the controls and capacity to perform aircraft coolant drain, fill, clean and de-aerate operations on the largest aircraft system volume (ICS) in one hour or less.

Model 1010A is an electric service cart and Model 1011A is a diesel genset/electric service cart.

To facilitate connections to the various aircraft systems, a K-Tool Adapter Kit p/n K21016-130 can be obtained from Malabar.

The CSC operates in semiautomatic and manual control modes for periodic BMS 3-42 fluid system maintenance. It is equipped with an integral programmable logic controller (PLC), a variable speed pump drive and stainless steel components. The CSC undercarriage features four wheel running gear with foam filled tires (4.00-8 NHS, 10 ply), full spring suspension, rear wheel parking brakes, tie down rings, tow bar with 3 inch lunette eye and forklift provisions. The unit is fully enclosed with easy access doors and a control panel cover with gas spring struts.

Models 1010A and 1011A coolant service carts are built to withstand harsh environmental conditions, rugged use and to provide many years of continuous service. Our customers will receive a quality product with each purchase and are assured of our continued product support whenever and wherever the need arises.

Standard Features:

- Materials compatible with BMS 3-42 fluid
- Nitrogen system for aircraft draining/purging operations
- 50 gallon clean and waste stainless steel fluid reservoirs
- PLC sets system configuration and fluid flow rates for various operating modes
- Differential pressure switches on filters to signal filter condition
- Storage cabinets with adapters for connection to aircraft systems
- Diesel/electric unit incorporates a generator set

Standard Features (Cont'd)

- High performance pump and pump drive
- Vacuum system for fluid de-aeration
- Operator panel with digital flow meter, fluid temp gauge, pressure gauges, LRU fill, mode selector, vacuum and nitrogen pressure control, alarm indicators, illuminated fluid sight glasses, a cycle timer and an emergency stop button
- Easy access doors and hose racks
- Stainless steel braid hose (1010A only)
- Static ground reel
- 1 year standard warranty
- Shipped on wheels

B787 Coolant Service Cart

Model 1010A & 1011A

Optional Features:

- Tarp
- Non-marking tires
- Foam filled tires
- 380/480V
- 200/240V

Optional Features (Cont'd)

- Folding Shelf
- Diesel generator set
- Export crating
- Customer specified paint color

Specifications:

Fluid.....	BMS3-42 fluid
Flow.....	3-32 GPM (30-121 LPM)
Clean Fluid Capacity.....	50 gallons (189 liters)
Waste Fluid Capacity.....	50 gallons (189 liters)
System Output Pressure.....	to 240 psig
Fluid Hose Lengths (2).....	30 ft (9 m)
Relief Valve Set At.....	250 psig
Electric Cable (facility power connection plug spec'd by customer).....	100 ft (30 m)
Maximum Towing Speed.....	10 mph (16 kph)
Fluid Filters.....	3 micron absolute supply, 10 micron absolute return (SAE AS4059 class 9 cleanliness or better)
Ambient Temperature Range.....	-40° to +130° F (-40° to +55° C)
Standard Power.....	380-480V, 3 Ph, 50/60 Hz, 15A
Optional Power.....	200-240V, 3 Ph, 50/60 Hz, 30A
Optional Diesel Genset.....	15kVA
Unit Dry Weight.....	Electric: 2900 lbs (1315 kg) Diesel/Electric: 3700 lbs (1678 kg)
Unit Height.....	65 in (1650 mm)
Unit Length.....	120 in (3048 mm)
Unit Width.....	68 in (1727 mm)

Optional Equipment Codes:

(Specify with order)

- TP: Tarp
- NM: Non-Marking Tires
- FF: Foam Filled Tires
- HV; 380/480V
- LV: 200/240V
- FS: Folding Shelf

B787 Coolant Service Cart

Model 1010A & 1011A

Optional Accessory Codes:

(Specify with order)

K21016-130: K-Tools Adapter Set

Packaging Codes and Options:

(Specify with order)

- : Domestic Shipment on Wheels
- DS: Domestic Skid (Additional Cost)
- EC: Export Crate (Additional Cost)

Shipping Data:					
Packaging Code	Length inches (mm)	Width inches (mm)	Height inches (mm)	Weight w/out Generator Set lbs (kg)	Weight with Generator Set lbs (kg)
-*	120 (3048)	68 (1727)	65 (1650)	2900 (1315)	3700 (1678)
DS**	132 (3353)	84 (2134)	71 (1857)	3520 (1597)	4270 (1937)
EC	134 (3404)	89 (2261)	72 (1857)	3930 (1783)	4680 (2123)

*Must be loaded and secured on a flat bed truck

**Must be loaded in a dedicated container.