

Malabar Coolant Service Cart (CSC) for B787 Model 1010A & 1011A

The Malabar B787 Coolant Service Cart is designed in accordance with B787 System & 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) within 1 hour or less.

The CSC operates in semi-automatic and manual control modes for periodic BMS 3-42 fluid system maintenance. The CSC 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.

The K-tools adapter set for connection to the aircraft is also available.

Malabar International's Quality Management System is certified to ISO 9001:2008



Malabar B787 Coolant Service Cart ready for use



Malabar B787 Coolant Service Cart with doors closed

Malabar B787 Coolant Service Cart 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
- 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
- Static ground reel



Malabar Coolant Service Cart with easy access doors and hose racks

Model 1010A & Model 1011A General Specifications Malabar B787 Coolant Service Cart

Malabar Coolant Service Cart control panel



- FluidBMS3-42 fluid
- Flow3-32 GPM (30-121 LPM)
- Clean fluid capacity 50 gal (189 liters)
- Waste fluid capacity 50 gal (189 liters)
- System output pressureto 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)
- Max towing speed 10 mph (16 kph)
- Fluid filters3 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 power200-240V, 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 length120 in (3048 mm)
- Unit width 68 in (1727 mm)
- Shipping data Shipped on wheels, export crate is optional
- Optional K Tools adapter set K21016-130

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