

A350 Supplemental Coolant System Fill/Drain Cart

Model 1016



The Malabar Model 1016 A350 SCS Fill/Drain Cart is designed in accordance with Airbus system and equipment engineering specifications to meet the special servicing requirements of the aircraft supplemental cooling system. The unit has the controls and capacity to perform aircraft system coolant drain, fill, clean and de-aerate operations.

The Model 1016 cart operates in automatic control modes for periodic PGW fluid system maintenance. The cart is equipped with an electrical power cord for wall power, an integral programmable logic controller (PLC), two variable speed pump drives, a HMI touchscreen, stainless steel components, and piping. An optional diesel generator set for onboard power is available.

The cart undercarriage features a four wheel running gear with foam-filled tires (4.00-8 NHS, 10-ply), full spring suspension, rear wheel parking brakes, tie down rings, towbar with 3-inch lunette eye, and forklift provisions.

The cart is fully enclosed with heavy duty easy access doors for cart operation and maintenance, and a control panel cover with gas spring struts.

To facilitate connections to the various aircraft systems, an A350 supplemental cooling system adapter kit (p/n 1016309) and an A350 consumer unit adapter kit (p/n 1016310) can be obtained from Malabar.

Model 1016 is certified to CE standards and is built to withstand harsh environmental conditions and rugged use, and to provide many years of continuous service. Our customers are guaranteed a quality product with each purchase and are assured of our continued product support whenever and wherever the need arises.

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Standard Features:

- Compatible with PGW fluid
- Nitrogen system for aircraft draining/purging operations
- 45-gallon clean and waste stainless steel fluid reservoirs
- PLC sets system configuration and fluid flow rates for various operating modes automatically
- Differential pressure switches on filters to signal filter condition
- Storage cabinet for adapter tools
- High performance pumps and pump drives
- Vacuum system for fluid de-aeration
- Operator panel with HMI touchscreen, illuminated fluid sight glasses and an emergency stop button
- Easy access doors and hose racks
- Static ground reel

Optional Features:

- Diesel generator set
- Export crating

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Specifications:

Unit weight (dry) with / without optional generator set	3779 lbs (1714 kg) / 3029 lbs (1374 kg)
Fluid weight, operating (90 gallons onboard, typical)	780 lbs (354 kg)
Fluid	PGW (60% propylene glycol/water, clear)
Flow	0.25 to 13.2 gpm (0.95 to 50 l/min)
Clean fluid capacity	45 gallons (170.3 l)
Waste fluid capacity	45 gallons (170.3 l)
Supply and return fluid filters	12 micron absolute
Supply and return hoses	1 inch ID x 50 ft lg (25.4 mm ID x 15.24 m lg) conductive
Nitrogen inlet	7/16-20 (-4), 37° flared male port
Maximum towing speed	10 mph (16 kph)
Standard finish	Yellow orange (RAL 2000) Skydrol resistant paint
Power cord	100 ft (30.5 m) 4-conductor cord, 8 awg, plug by customer
Interconnection cable	720 inches (18.3 m)
Unit dimensions	120" (3048 mm) L x 68" (1727 mm) W x 65" (1650 mm) H
Diesel fuel tank capacity (for diesel generator set option only)	8 gallons (30.3 l)
Diesel fuel (for diesel generator set option only)	DF-2, DF-1, Jet A, Jet A-1
Operating ambient temperature range	-22°F to 122°F (-30°C to 50°C)

Optional Equipment Codes:

(Specify with order)

- HV: Standard Power 380/480 V, 3 Ph, 50/60 Hz, 16A
- LV: Optional Power 200/240 V, 3 Ph, 50/60 Hz, 32A
- GS: Diesel Generator Set
- 1016309: A350 Supplemental Cooling System Adaptor Kit
- 1016310: A350 Consumer Unit Adapter Kit

Shipping Data:

	Length inches (mm)	Width inches (mm)	Height inches (mm)	Weight w/out Generator Set lbs (kgs)	Weight with Generator Set lbs (kgs)
Standard Skid*	132 (3353)	84 (2134)	71 (1857)	3520 (1597)	4270 (1937)
Export Crate	137 (3404)	89 (2261)	73 (1857)??	3930 (1783)	4680 (2123)

*Must be loaded in a dedicated container.