

HDT SVAC AND LVAC

Small Variant Air Conditioner and Large Variant Air Conditioner



HDT's electric and diesel powered air conditioners provide the U.S. military critical flight line support capability in the challenging environment found in forward operating air fields.

HDT's mobile, ground support flight line air conditioners provide general purpose air conditioning to personnel and aircraft avionics during maintenance and also cool shelters, portable hangers and other similar enclosures. Self-contained and portable, these units are driven by electric motors that can operate on various power supplies or by diesel engines. These units are easily transportable to new locations and quickly set into operation.

Designed for optimum reliability and built to meet ruggedness requirements for military service, these units offer fast, consistent air-conditioning with a minimum amount of maintenance. These air conditioners support the latest U.S. military aircraft including the F-35, F-16, F-15, F-18, EA-6B, E-2C/D, AV-8B, and many special mission and UAV platforms.

KEY FEATURES

- Developed to U.S. Navy rugged requirements
- High 6.0 psig pressure delivery required by fighter aircraft
- Achieves the rated cooling capacity in operational environments up to 140°F (60°C)
- External control panel for Airflow rates and discharge air temperatures selection
- Weather-tight doors provide complete access to internal controls and serviceable parts
- Air supply ducts and the electrical power supply cable are stored.
- Small Variant Air Conditioners (SVAC)
 - Smallest profile for the capability
 - Low current draw of 100 amps
 - Lightweight 4,000 lbs (1,815 kg)
 - High airflow up to 120 lb/min (54.4 kg/min)
 - 140°F (60°C) operation temperature
- Large Variant Air Conditioners (LVAC)
 - High 140°F (60°C) operation temperature
 - High airflow up to 145 lb/min (65.8 kg/min)
 - Both self-powered diesel or electric powered

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S/LVAC ECU SPECIFICATIONS

Ordering information	SVAC	LVAC
HDT part number	197K1000-100	197K2000-100
NSN	4120-01-598-3716	4120-01-598-3712
On GSA Contract	N/A	N/A
Government designator	A/M32C-27	A/M32C-26
Capacity		
Cooling	315,000 BTU/H 92.3 kW	490,000 BTU/H 143.6 kW
Dischard air temperature	40°F to 70°F 4°C to 21°C	40°F to 55°F 4°C to 13°C
Air flow*	25 lb/min to 125 lb/min at 0 to 5.75 psig 11.3 kg/min to 56.7 kg/min at 0 to 39.6 kpa	25 lb/min to 145 lb/min at 0 to 6.0 psig 11.3 kg/min to 65.8 kg/min at 0 to 41.4 kpa
High pressure condition*	108 lb/min of 48°F air at 5.75 psig 49 kg/min of 8.9°C air at 39.6 kpa	N/A
High flow condition*	125 lb/min of 50°F air at 4.5 psig 56.7 kg/min of 10°C air at 31 kpa	145 lb/min of 50°F air at 6.0 psig 65.8 kg/min of 10°C air at 41.4 kpa
Operating temps	-40°F to 140°F -40°C to 60°C	-40°F to 140°F -40°C to 60°C
Altitude	0' to 7,000' 0 to 2,134 m	0' to 7,000' 0 to 2,134 m
Physical characteristics		
L x W x H	102" x 72" x 44" 258 x 183 x 111.8 cm	198" x 88" x 97" 503 x 224 x 246 cm
Weight	4,000 lbs	14,220 lbs
Weight	1,815 kg	6,450 kg
Ducts 8" x 30' (20 cm x 9.1m)	1	1
Air outlets	1	1
Maximum towable speed	15 mph 24 km/h	15 mph 24 km/h
Refrigerant capacity	40 lbs 18.1 kg	45 lbs 20.4 kg
Powered by	Electric powered 460V, 3-phase, 50/60 Hz @ 100 amps	Diesel Engine/Generator or 460V, 3-phase, 50/60 Hz @ 100 amps
Fuel consumption	N/A	11 gph 42 lph
Fuel Type	N/A	DF1, DF2, JP8

* At unit

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