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# BAE ATP

**Serial Number**      2019

**Registration**



Aircraft type	Twin engine Turboprop
Model	ATP
Number of passengers	64
Crew	2+2+1
Useful Life	"Failsafe Primary Structure"
Retractable Train	SIM
Pressurized Cabin	DIM (Dif. Press. 5.5 PSI)

## Exterior Dimensions

Width	30.632m (100ft 6 in)
Length	26.009m (85 ft 4 in)
Height	7.140 m (23 ft 5 in)
Wing Area	78.3 m2 (843 Sq. ft.)
Horizontal Stabilization	22.57 m2 (243 Sq. ft.)
Vertical Stabilization	13.75 m2 (148 Sq. Ft.)

## Interior Dimensions

Cabin Length	19.2 m (63ft. 0 in.)
Cabin Height (Max.)	1.93 m (6 ft. 4 in.)
Cabin Width	2.49 m (8 Ft. 2 in.)
Floor Capacity	365-470kg/m2 (75-100 lbs/Sq. Ft.)

## Baggage Compartment

Right Front	4.38 m3
Capacity	922 Kgs/2,000 lbs.
Back	-/-
Volume	5.11 m3
Capacity	1055 Kgs/2000 lbs.

## Aircraft Weights

Maximum Takeoff Weight	22930 kg (50550 lbs)
Maximum Ramp Weight	22999 kgs (50700 lbs.)
Maximum Landing Weight	22250 Kg (49050 lbs.)
Maximum Zero Fuel Weight	21230 Kgs (46800 lbs.)
Minimum Flying Weight	12700 Kgs (28000 lbs.)
Empty Weight (Variable)	14193 Kgs (31290 lbs.)
Aircraft Payload (Variable)	8500 Kgs (18890 lbs.)

## Fuel

Fuel Specification	ASTM (D1655) Jet-A (MIL-T-5624) JP-4
Capacity	6.365 lts (1400 Imperial Gallons)

## Performance

Range at Maximum Capacity	1824 Km (985 nm)
Maximum altitude	7620 m (25000 ft.)
Runway Length	Takeoff 1093 m (3585 ft.) Landing 1021 m (3350 ft.)

## Noise Levels

Cabin (Flight Deck)	76 dB
Cabin (Passengers)	76 – 79.6 dB
Outside (side line)	82.2 dB
Outside (Flyover)	80.4 – 87.0 dB
Outside (Approach)	92.4 – 93.0 dB

## Engines

Manufacturer	Pratt & Whitney Canada		
Model	PW126 (BS691)		
Consumption	600 – 800 Kgs/Hr		
Thrust:	Maximum Contingency	2739 ESHP	0.463 lb/eshp/hr
	Inter. Contingency	2433 ESHP	0.478 lb/eshp/hr
	Take-Off	2296 ESHP	0.486 lb/eshp/hr
	Max. Continuous	2296 ESHP	0.486 lb/eshp/hr
	Max. Climb	2230 ESHP	0.490 lb/eshp/hr
	Max. Cruise	2168 ESHP	0.494 lb/eshp/hr
Rotation	"clockwise"		
Reduction Gearbox Ration	16.68:1		
Dry Weight	480.8 kg (1060 lbs)		
Height (Aprox.)	0.8382 m (33 in)		
Width (Aprox.)	0.6604 m (26 in)		
Length (Aprox.)	2.1340 m (84 in)		
Lubricating Oil	Mobil Jet-Oil II		
Lubrication Specification	MIL-L-23699		
Useable Capacity	8.192 lts (2.164 US Gal)		
System Capacity	17.39 kg (38.3 lbs)		
Drainable Capacity	12.34 kg (27.3 lbs)		
HSI/TBO	HSI "On Condition"/ TBO 7000 FHrs		

## Propellers

Manufacturer	Hamilton Sundstrand
Model	6/5500/F-1
Number of Blades	6 (Flange mounted)
Rotation Direction	"clockwise"
Dry Weight	193.5 kg (430.0 lbs)
Maximum Diameter	4.191 m (13 ft 9 in)
Nominal Maximum RPM's	1200 r.p.m.
Lubrication specifications	MIL-L-23699
Prop Lubrication Capacity	9.0 lts (2.0 Imperial Gallons)
TBO	8500 FHrs

## Avionics

Description	Model/Type	Part Number	Remarks
VHF – Navigation (2)	VN-411B	3614004-4101	118,000-136,975 MHz (760 Channels)
VHF-Communication(2)	VC-401B	3614001-4001	Markers 400, 1300 & 3000 MHz
ATC Transponder (2)	TR-421B	3614009-4201	1090 MHz
Mode "S" Transponder (2)	TTR-920	622-8971-022	TCAS from Rockwell Collins
DME Transceiver	DM-441B	3614019-4401	1025-1150 MHz
HF Transceiver	KHF950	064-1015-01	2000-29999 MHz
ADF System	DFS-43B		190.0 to 1860 Khz
Auto Pilot Computer	CA-611B	3614622-6004	
Cockpit Voice Recorder	CAS-801	93-A100-83	
Flight Data Recorder	PV1584F1/F2	650/14040/105 or /205	
AHRU (2)	LTR-81-01	460800-13-11	
TAWS (Universal)	0412	3010-00-00	Interface with GPS
GPWS		965-0576-020	
FMS (Universal)	UNS-1K	1116-40-1116	Interface with TAWS
Air Data computer		301-FAD-2-5	
ELT	Series 503	503-1	121.5 MHz, 243.0 MHz & 406.025 MHz
Radio Altimeter Transceiver	ERT-160	9599-607-18501	Freq. 4200 – 4400 MHz (Thomson-CSF)

## Weather Radar

Description	Model/Type	Part Number	Remarks
Radar System	RDS86		Brand X
W. Radar Indicator	IN-861A	3614705-8601	
W. Radar Sensor	RS-861A	3614475-8601	
W. Radar Control Panel	CN-863A	3614704-8601	

Note: Data subject to correction by means of the incorporation of aircraft modifications or its systems.

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