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The data presented in this document is general in nature, and has been compiled from Bell Helicopter Textron, Inc. [BHTI] source materials including but not limited to; The Approved Rotorcraft Flight Manual, Maintenance Manual, Illustrated Parts Catalog, and other engineering design specifications.

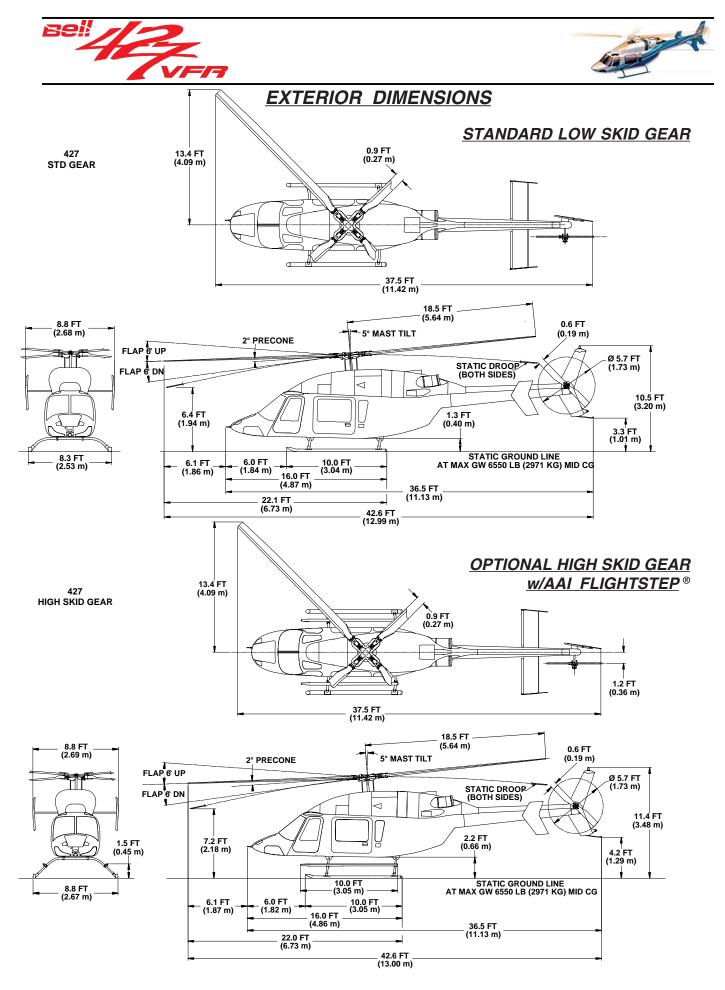
This document is intended for the use of **BHTI Sales Personnel** and for **prospective customers** as an aid in determining estimated weight and performance of the helicopter when configured with equipment for specific missions.

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The listings of Optional Equipment [KITS] are subject to revision and change, and also may be different for specific serial number helicopters or special custom configurations. Please consult the *NOTES* found in the right margins of the optional equipment list pages for **equipment compatibility**. The continuing product improvement process of BHTI may cause some components, equipment, and compatibility to be changed or replaced.

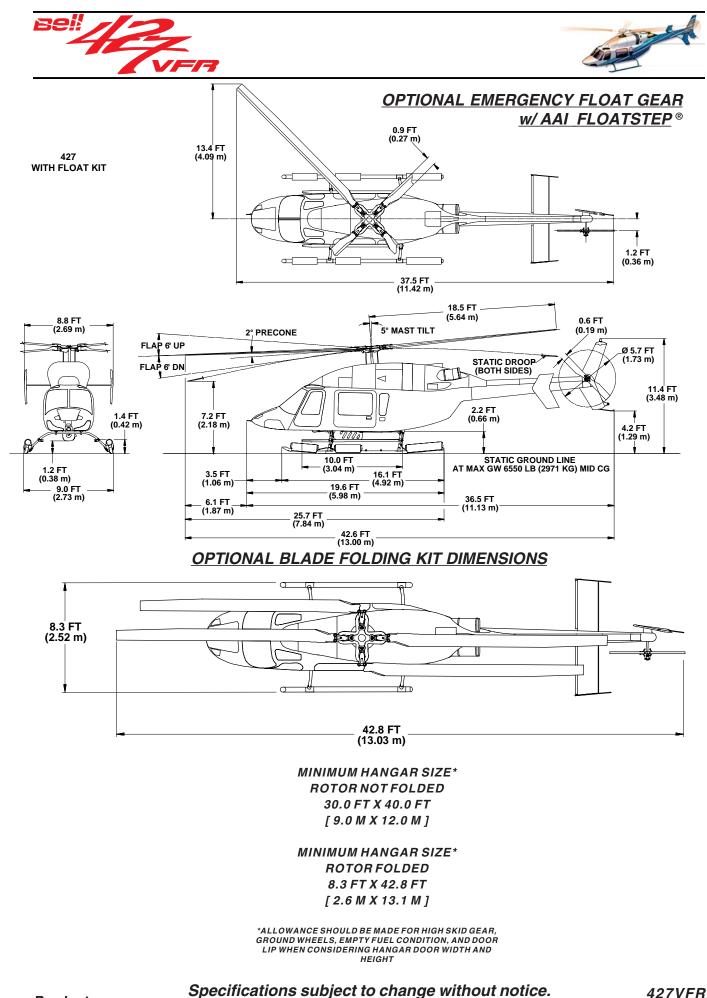
The SPECIFICATIONS, WEIGHTS, DIMENSIONS, AND PERFORMANCE DATA shown in this document are subject to change without notice.

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Specifications subject to change without notice.

Product Specifications



Product Specifications

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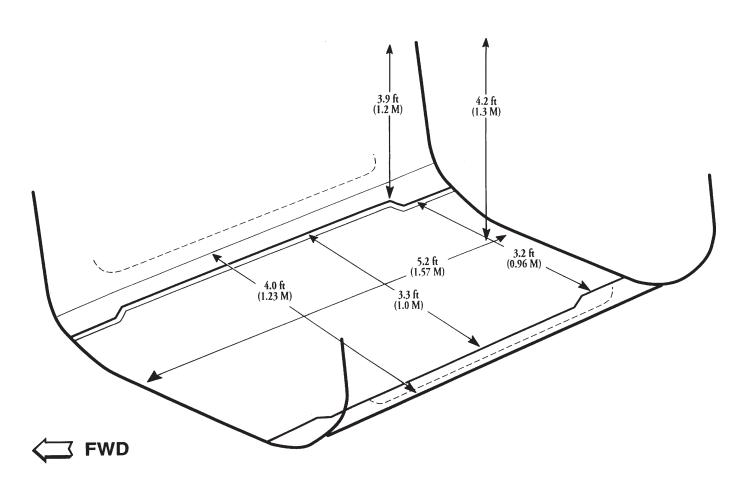
427VFR January 2006





# **INTERNAL DIMENSIONS**

PASSENGER CABIN FLOOR SPACE WITH SEATS REMOVED [APPROXIMATE]



Approximate cargo space:

Aft Cabin - 2.9 cubic meters (102 cubic feet)

Left front - 0.6 cubic meters (20 cubic feet)

## Baggage compartment-0.76 cubic meters (27 cubic feet)

## Max Floor Loading:

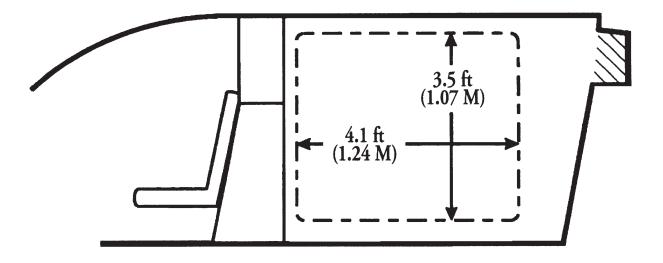
Aft Cabin - 366 kg/M<sup>2</sup> (75 lb/ft<sup>2</sup>); Maximum internal load -600 kg (1313 lb)

Baggage Compartment - 420 kg/M<sup>2</sup> (86 lb/ft<sup>2</sup>); Max Baggage weight-113 kg (250 lb)





# PASSENGER CABIN DOOR DIMENSIONS







# SPECIFICATION SUMMARY (U.S. Units) (Serial No. 56047 & Subsequent)

WEIGHTS

<u>WEIGHIS</u>	(Bernar No. 50047 & Bubbequent)	LDS
Standard Configuration Weight (Note	91)	3881
Normal Gross Weight (Note 2)		6350/6550
External Gross Weight		6550
Standard Configuration Useful Load	(Normal Gross Wt - Standard Configuration Wt)	2469/2669
Maximum External Load (Cargo Hool	k Limit)	3000

Note 1: Includes twenty-five pounds of engine oil. Ballast is not included in standard configuration weight (ballast is function of installed equipment).

Note 2: Alternate Maximum Gross Weight of 6550 lbs (2971kg) is permitted when operating within the limitations of FAA Approved Rotorcraft Flight Manual Supplement BHT-427-FMS-7.

PERFORMANCE SUMMARY:							
· · · REPER TO DEMONSTRATED TAKED			MOW OF LEATIN	GALINODEN			(Note 2)
TAKEOFF, GROSS WEIGHT		LBS	<u>5000</u>	<u>5500</u>	<u>6000</u>	<u>6350</u>	<u>6550</u>
IGE Hovering Ceiling	ISA	ft	9000	9000	9000	9000	9000
	ISA+20C	ft	6729	6729	6729	6729	6729
OGE Hovering Ceiling	ISA	ft	10,000	10,000	10,000	6000	1750
	ISA+20C	ft	10,000	10,000	9300	3700	(6525lb@SL)
Service Ceiling (MCP) - AEO	ISA	ft	10,000	10,000	10,000	10,000	10,000
	ISA+20C	ft	10,000	10,000	10,000	10,000	10,000
(30 minute) - OEI	ISA	ft	10,000	10,000	10,000	8000	4600
· · · · ·	ISA+20C	ft	10,000	10,000	9450	6050	2500
No Height-Velocity Ceiling (Note	e 3)		-	-			
	ÍSA	ft	7000	7000	4080	2135	(6525lb@SL)
	ISA+20C	ft	4728	4728	1810	(6325lb@	SL) n/a ́
Cruise @ Sea Level ISA						·	,
Maximum Cruise Speed		kn	143	142	140	138	136
Long Range Cruise Speed (a	vq GW)	kn	131	133	134	134	133
Range @LRC, No Reserve	<b>c</b> ,	nm	338	400	394	390	387
Endurance @ Loiter 60 kn (no reserve)	ISA, SL	hr					4.0

Note 3: Height-Velocity has been demonstrated up to 7000 ft Density Altitude per FAR Part 27.

## ENGINE RATINGS:

Pratt & Whitney Canada PW207D with Full Authority Digital Electronic Control (FADEC)		Uninstalled Thermodynamic Shaft Horsepower	Engine Rated Shaft Horse- power
Takeoff (5 Minutes)	SHP	710	550
Maximum Continuous	SHP	625	550
OEI (30 seconds)	SHP	820	650
OEI (2 minute)	SHP	780	650
OEI (30 minute)	SHP	750	550
OEI (Continuous)	SHP	710	550
TRANSMISSION RATING:			
Takeoff (5 Minutes) AEO		SHP	800
Continuous AEO		SHP	800
30 Second OEI		SHP	650
2 Minute OEI		SHP	605
Continuous OEI		SHP	460

## FUEL CAPACITY (USABLE):

## Standard

203.5 US Gallons





# SPECIFICATION SUMMARY (Metric Units)

(Serial No. 56047 & Subsequent)

WEIGHTS

<u>WEIGHIS</u>	(Benanito: 50047 & Subsequent)	KG
Standard Configuration Weight (No	te 1)	1760
Normal Gross Weight (Note 2)		2880/2971
External Gross Weight		2971
Std. Conf. Useful Load (Normal Gros	ss Wt - Standard Configuration Wt) (Note 2)	1120/1211
Maximum External Load (Cargo Ho	ok Limit)	1361

Note 1: Includes eleven kilograms of engine oil. Ballast is not included in standard configuration weight (ballast is function of installed equipment).

Note 2: Alternate Maximum Gross Weight of 6550 lbs (2971kg) is permitted when operating withthe limitations of FAA Approved Rotorcraft Flight Manual Supplement BHT-427-FMS-7.

PERFORMANCE SUMMARY:							
• • • REFER TO DEMONSTRATED TAKED	OFF & LANDING A	AND MAXIMUI		ALTITUDE NOT	ES ON THE	PERFORMANCE	E CHARTS • • • (Note 2)
TAKEOFF, GROSS WEIGHT		KG	<u>2268</u>	<u>2495</u>	<u>2722</u>	<u>2880</u>	2971
IGE Hovering Ceiling	ISA	m	2743	2743	2743	2743	2743
	ISA+20C	m	2051	2051	2051	2051	2051
OGE Hovering Ceiling	ISA	m	3048	3048	3048	1829	533
• •	ISA+20C	m	3048	3048	2835	1128 (2	2960kg@SL)
Service Ceiling (MCP) - AEO	ISA	m	3048	3048	3048	3048	3048
	ISA+20C	m	3048	3048	3048	3048	3048
(30 minute) - OEI	ISA	m	3048	3048	3048	2438	1402
	ISA+20C	m	3048	3048	2880	1844	762
No Height-Velocity Ceiling (Not	e 3)						
	ÍSA	т	2134	2134	1244	651 (2	2962kg@SL)
	ISA+20C	т	1441	1441	552		- /
Cruise @ Sea Level ISA						, U	
Maximum Cruise Speed		km/h	265	263	259	256	251
Long Range Cruise Speed (a	vg GW)	km/h	243	246	248	248	246
Range @LRC, No Reserve	0 /	km	626	741	730	722	716
Endurance @ Loiter 111 km/h (no reserve)	ISA, SL	hr					4.0

Note 3: Height-Velocity has been demonstrated up to 2134 M Density Altitude per FAR Part 27.

## ENGINE RATINGS:

Pratt & Whitney Canada PW207D		Uninstalled Thermodynamic Power	Engine Rated Power
with Full Authority Digital Electronic Control (FADEC)			
Takeoff (5 Minutes)	kW	529	410
Maximum Continuous	kW	466	410
OEI (30 seconds)	kW	611	485
OEI (2 minute)	kW	582	485
OEI (30 minute)	kW	559	410
OEI (Continuous)	kW	529	410
TRANSMISSION RATING:			
Takeoff (5 Minutes) AEO	k	W 597	
Continuous AEO	k	W 597	
30 Second OEI	k	W 485	
2 Minute OEI	k	W 451	
Continuous OEI	k	W 343	

# FUEL CAPACITY (USABLE):

## Standard

770 Liters

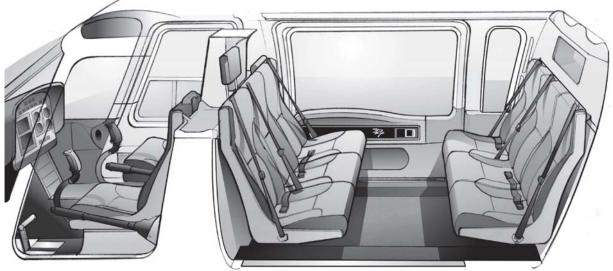




# 427 SEATING

<u>CREW SEATING</u> - Two individual ergonomically designed **energy attenuating** seats with adjustable lumbar support, each equipped with seat belt, double strap shoulder harness and inertia reel, are located in the cockpit. The color and upholstery material for the seats, and interior trim of the cockpit match that which is selected for the cabin. The seat belt straps are black, with silver metal fasteners.

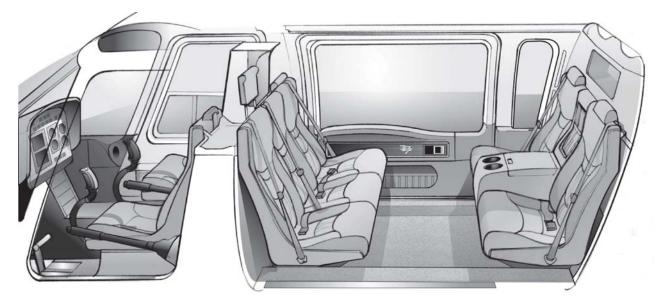
# STANDARD EIGHT PLACE SEATING



**STANDARD SEATING AND INTERIOR TRIM** The standard configuration cabin seating is the <u>traditional club format</u> of two rows of three **energy attenuating** seats, with individual seat belts and single strap shoulder harness, arranged <u>facing</u> <u>each other</u>. Available with Grey, Blue, Red, or Tan fabric upholstery with Black seat belts (crew and passengers). Seats are upholstered in fabric or

at **extra cost** in all vinyl, with painted seat frames. **The standard interior trim** consists of full plastic closeouts on all airframe areas, vinyl covered arm rests, and molded plastic headliners. The floor is covered in a durable low loop Nylon blend carpet. The standard seating and interior trim are included in the standard configuration aircraft weight.

# **OPTIONAL CORPORATE CLUB SEATING**



Specifications subject to change without notice.

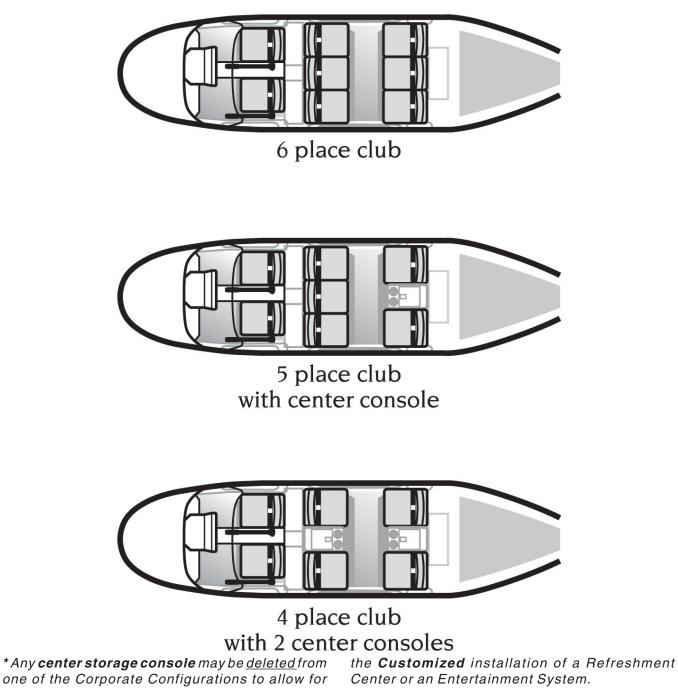
Product Specifications





## OPTIONAL CORPORATE CLUB SEATS AND INTERIOR TRIM

Corporate seating is available with main cabin club seating arrangements for **four** or **five passengers** (all passenger seats are energy attenuating). Five passenger cabin arrangements include either three rear facing/two forward facing seats, or two rear facing/three forward facing seats. All two seat modules include a center storage console\*. The "Contoured Style" seats have leather covered side frames and are available with Pewter, Mushroom, Dark Blue, Saddle, Burgundy, Smoke Grey, and Forest Green upholstery and color coordinated seat belts with silver metal fasteners (Crew seat belt straps are black). Seats can be either all fabric or all leather. **The corporate** *interior trim* consists of full plastic closeouts on all airframe areas, door pockets, and lower cabin sidewalls covered with color coordinated leather. Carpet is richly textured 100% wool cut pile.







# Standard Configuration

## **AIRFRAME**

- Fuselage, all composite exterior shell and internal bulkheads of graphite and nomex honeycomb construction (with aluminum honeycomb roof panel) attached to dual external main roof beams of 7050 aluminum alloy (connecting the fuselage to the transmission)
- Fairings, all composite graphite and nomex honeycomb or BMI thermoplastic aerodynamic fairings for the flight controls, transmission, engine, and tail rotor driveshafting and tail rotor gearbox cover
- Doors (four), two for pilot & passengers on right side, two for copilot and passengers on left side, all doors of composite material
- Baggage compartment (27 ft <sup>3</sup>/0.76M <sup>3</sup>, 250 lbs/113 Kg capacity), with composite door (on the right side of aft fuselage)
- Locks for cabin doors and baggage compartment Landing gear, tubular aluminum skid type with replaceable skid shoes
- Provisions for mooring, jacking and single point lifting
- Fuselage Mounted Maintenance Steps and Step/ Handgrips
- Tail boom, monocoque aluminum structure with aluminum honeycomb vertical fin and composite fixed horizontal stabilizer and auxiliary finlets
- Tail skid (tail rotor guard)
- Windows, gray tinted plexiglass (windshields are clear plexiglass) [sliding vent windows in main cabin doors are available as a no-cost option]

Three color exterior paint schemes (3-color standard, additional colors and special paint schemes priced on request)

## **INTERIOR**

- 8-place interior (STANDARD CLUB SEATING) with integral soundproofing, floor carpeting, and miscellaneous stowage. Color options available for upholstery and carpet
- Cockpit-2 energy attenuating seats with seat belts, dual shoulder straps, and inertia reel
- Cabin-6 energy attenuating passenger seats with seat belts, single shoulder strap, and inertia reel
- Fire extinguisher, (1) cockpit
- First aid kit (Canadian Registered helicopters only)
- Floor covering throughout
- Parcel shelf behind rear row of cabin seats Ram air ventilation system for cockpit and cabin

## **POWER PLANT**

Two fully isolated Pratt & Whitney Canada PW207D turboshaft engines with independent: Oil reservoir (integral to engine case)

- Oil cooler
- Titanium forward firewall
- Titanium center firewall & T/R Driveshaft tunnel Titanium aft firewall

Titanium lower horizontal fireshields (L&R) Engine Fluid Containment Reservoirs (2)

(Items Included in List Price)Engine Air Particle Separators w/Bleed Air LinesernalEngine Wash lines / equipmentombFire Detector and Extinguisher systemroof panel)Fuel Heater (no anti-ice additive required)s of 7050Full authority digital electronic control (FADEC)to the{Electronic Engine Control-Hamilton Standard}{Fuel Management Module-WoodwardoneycombGovernor}s for theOEI Training Mode

Dual feed interconnected fuel system:

203.5 US gallons (770 liters) of usable fuel in 3 crash-resistant cells (with electrically controlled interconnect valve).
Each feed tank is supplied by a transfer pump.
Engines are supplied by engine mounted suction pumps. Each of the three tanks has a remote push-button fuel sump drain.
Automatic Fuel Burn Management System Manual fuel shutoff system

## TRANSMISSION AND DRIVE SYSTEMS

One 2 stage (dual spiral-bevel engine inputs, with a single helical collector gear) 15.18 :1 speed reduction transmission (capable of extended operation after loss of lubrication)

- Two fluid filled pylon mounts [LIVE] suspension [left and right vertical axis mounts)
- Two elastomeric forward / aft restraints
- Three main transmission chip detectors
- Internal wet-sump transmission lubrication with external oil cooler
- One transmission-mounted hydraulic pump

One blank transmission drive pad (provision for #2 hydraulic pump or accessory drive)

Free-wheeling unit at each power input

Segmented tail rotor driveshaft

Single stage, bevel gear, 90 deg tail rotor gearbox with splash lubrication

One tail rotor gearbox chip detector

## ROTORS AND CONTROLS

Pilot flight controls

Mechanical control linkages

Adjustable friction controls on cyclic and collective Adjustable antitorque pedals

Single hydraulic system with separate pump, reservoir and filter with Ground test provisions

Hydraulic Off Trim System [HOTS] for the (2) cyclic servos Composite soft-in-plane Main Rotor Hub

- Main rotor [4-bladed, fiberglass and nomex honeycomb composite with stainless steel leading edge abrasion strip]
- Tail rotor [2-bladed, fiberglass composite with stainless steel leading edge abrasion strip]
- Airspeed Activated Pedal Stop [AAPS] with built in test function, electrical override release switch, and manual override release



# Standard Configuration (continued)



## **INSTRUMENTS**

1 electrically heated pitot/static system. Airspeed indicator (knots) Inclinometer Δltimeter Vertical Speed Indicator Magnetic compass INTEGRATED INSTRUMENT DISPLAY SYSTEM (IIDS) incorporatina: Triple torquemeter, engine 1 & 2, plus digital total, Triple tachometer Two measured gas temperature (MGT) indicators Two gas producer tachometers (NG) Transmission oil pressure and temperature indicator Two engine oil pressure and temperature indicators One dual ammeter Generator(2) and battery voltage (digital) Fuel quantity and totalizer Fuel temperature Caution/warning/advisory panel Clock Engine hourmeter (on time page) Outside air temperature indicator Maintenance functions, and power assurance checks Exceedance monitoring, warning, and recording **OEI Training Mode** 

## EMERGENCY, WARNING AND CAUTION INDICATORS

• INSTRUMENT PANEL MOUNTED

Engine Fire warning (2) Engine out warning (2) FADEC failure warning (2) (visual and audio) Rotor RPM caution (visual and audio) OEI Training Mode Selector Switch Main Gearbox Compartment Hot (Left&Right) Master Caution-direct attention to annunciation on IIDS indicating:

• IIDS WARNING, CAUTION, ADVISORY MESSAGES

Battery overheating Battery hot Battery relay DC generator fail (2) Emergency bus pwr (2) Engine fuel pressure (2) Engine fuel filter (2) Engine fuel low (2) Engine fuel valve (opening) (2) Engine oil pressure, low (2) Engine oil temperature (2) External power door Engine sump chip (2) FADEC fail FADEC degraded Fuel Imbalance Fuel tank interconnect valve open Fuel temperature [high & low] (2) Fuel transfer (2) Fuel pressure low IIDS fail **OEI** flaas Starter energized Transmission chips (3) Transmission oil temperature and pressure Pedal Stop Tail rotor gearbox chip Provisions for optional IIDS functions & Spares for optional equipment kits

# **ELECTRICAL**

Dual 28 volt dc system with 2 dc buses and 2 emergency buses One 17 ampere-hour nickel cadmium battery Two engine mounted 30 volt 200 ampere starter/ generators (derated to 170 ampere) Two solid state voltage regulators Ground fault detection system Interior lighting; cockpit utility light two cockpit dome lights two cabin dome lights White dimmable instrument lighting and utility light in cockpit **Position lights** External power receptacle Landing lights (2 fixed angle - high/low)

## **MISCELLANEOUS**

Keys for crew, passenger, and baggage compartment doors Manuals - flight, parts and maintenance Main and tail rotor tie downs Cargo tie downs loose Covers - engine air, oil cooler, exhaust and pitot Ground handling wheels, hydraulic





## **Optional Accessories** BHT Factory Installed Kits

BHT Factory Installed Kits ••••• REFER TO NOTES ON FOR KIT COMPATIBILITY ADDITIONAL KITS & STCITEMS MAY BE AVAILABLE FOR FACTORY INSTALLATION. PLEASE CONSULT SALES OR CONTRACT PERSONNEL REGARDING SPECIAL NEEDS PRIOR TO SELECTION OF FINAL CONFIGURATION.

Kit Description	Wt (lbs)	Wt (Kg)	Notes
AIRFRAME			
HIGH SKID GEAR w/ Flitesteps	47.4	21.5 (1,	2
EMERGENCY FLOATATION EQUIPMENT w/Floatsteps	245.5	111.4 (1,	3
EMERGENCY FLOATATION PROVISIONS	3.2	1.5	
BOTTLE GUARD	0.8	0.4 (4	
CREW STEP LEFT for LOW & HIGH SKIDS	2.7	1.2	
CREW STEP RIGHT for LOW & HIGH SKIDS	2.7	1.2	
DUAL CONTROLS	16.3	7.4	
AUDIO			
AFT AUDIO ICS - 6 Station w/Headsets	15.3	6.9	
AVIONICS			
GPS DATABASE - AMERICAN	0.0	0.0 (5	
COMPASS SYSTEM KCS-55A PROV W/ KI-525A GYRO	12.5	5.7 (6,	7
COMPASS SYSTEM KCS-55A EQUIPMENT W/ KI-525A GYRO	8.9	4.0 (6	
COMPASS SYS. KCS-55A PROV W/ KI-525A GPS CPL. TO KLN90B	1.4	0.6 (6,	7
COMPASS SYS. KCS-55A EQUP W/ KI-525A CPL. TO GPS KLN90B	9.0	4.1 (6,	7
TRANSPONDER PROVISION (KT-76C or KT-70)	0.8	0.4 (8	
TRANSPONDER EQUIPMENT (KT-76C)	2.4	1.1 (8	
TRANSPONDER EQUIPMENT (KT-70)	3.9	1.8 (8	
OMNI W/ CDI KI203 INDICATOR	4.2	1.9	
COMM #2 KY196A PROVISIONS	2.8	1.3	
COMM #2 KY196A EQUIPMENT	2.8	1.3	
GPS PROVISIONS (KLN-90B)	2.1	1.0	
GPS EQUIPMENT (KLN-90B)	6.3	2.9 (5,	8, 9
ADF PROVISIONS (KR-87)	4.3	2.0	
ADF EQUIPMENT (KR-87)	3.8	1.7	
AVIONICS BLOWER	2.8	1.3 (9	
NAV / COMM / AUDIO PANEL PROVISION KIT	8.0	3.6	
NAV / COMM #1 EQUIPMENT ( KX-155A )	3.4	1.5 (9	
NAV / COMM #1 EQUIPMENT ( KX-165A W / GLIDESLOPE )	3.4	1.5 (9	
ENCODING ALTIMETER	0.9	0.4 (8	
FLIGHT INSTRUMENTS	8.2	3.7 (6	
ELT POINTER 4000	3.2	1.5	
CATEGORY "A" KIT	0.1	0.1 (12	2
ENVIRONMENT			
CREW VENTILATION PANEL OUTLETS	7.9	3.6	





# Optional Accessories (continued) BHT Factory Installed Kits

• • • • • REFER TO NOTES FOR KIT COMPATIBILITY • • • • •

Kit Description	Wt (Ibs)	Wt (Kg)	Notes
EQUIPMENT			
28 AMPS BATTERY	24.9	11.3 (1	
ROTOR BRAKE	20.7	9.4	
CARGO HOOK EQUIPMENT	31.4	14.2 (4	
CARGO HOOK PROVISIONS	3.1	1.4	
INTERIOR			
SOUND-PROOFING, CORPORATE	7.4	3.4	
INTERIOR TRIM, CORPORATE	10.8	4.9	
CORPORATE HEADLINER KIT- 4 Lights	0.3	0.1	
CORPORATE HEADLINER KIT- w/Air Conditioner - 4 Lights	5.1	2.3	
CONSOLE AFT CABIN	12.0	5.4	
CONSOLE FORWARD CABIN	12.0	5.4	
4 PASS. CABIN CORPORATE CLUB SEATING	-6.9	-3.1	
5 PASS. CABIN CORP. SEATING w/ 3 AFT FACING	-6.5	-2.9	
5 PASS. CABIN CORP. SEATING w/ 2 AFT FACING	-0.5	-0.2	
INTERNAL FLOOR FITTINGS, LH (CARGO TIE DOWNS)	7.2	3.3	
INTERNAL FLOOR FITTINGS, RH (CARGO TIE DOWNS)	7.2	3.3	
PAINT			
MARKINGS FOR HIGH VIS. M/R BLADES (WHITE & ORANGE)	0.0	0.0 (10	1
Credits			
EQUIPMENT			
GROUND HANDLING WHEELS	95.0	43.1	





# Optional Accessories (continued) Vendor STC Kits

•••• • REFER TO NOTES FOR KIT COMPATIBILITY •••••

Kit Description	Wt (lbs)	Wt (Kg)	Notes
STC's			
AIRFRAME			
DOOR HOLDER/OPENER (5 DOORS SET ,INCL. BAG. DOOR)	6.5	2.9	
SLIDING WINDOW WITH LOCKS CREW L/H & R/H	1.0	0.5	
SLIDING PASSENGER DOOR L/H	15.0	6.8	
SLIDING PASSENGER DOOR R/H	15.0	6.8	
ENVIRONMENT			
AIR CONDITIONING STD LH EVAP.	101.4	46.0	
AIR CONDITIONING OPT DUAL EVAP.	111.4	50.5	
AIR CONDITIONING OPT RH EVAP.	101.4	46.0	
HEATER W/CHIN BUBBLE DEFROSTER 427H-988-1	20.5	9.3	
EQUIPMENT			
LANDING LIGHT, MOVABLE (NIGHTSCANNER)	9.0	4.1	
RESCUE HOIST INCL. PROVISIONS	160.0	72.6	
RESCUE HOIST INCL. PROV. ( FOR A/C W / EMER. FLTS. )	160.0	72.6	
RESCUE HOIST PROVISIONS ONLY	TBD	TBD	
WIRE STRIKE - RECOMMENDED KIT - SEE NOTE			
Low Gear	15.8	7.2 (11	
High Gear	16.3	7.4 (11	
INTERIOR			
FLOOR PROTECTOR (CREW )	1.4	0.6	
FLOOR PROTECTOR (PASSENGER)	8.3	3.8	
FLOOR PROTECTOR PAX FOR HEATER	7.6	3.4	
FLOOR PROTECTOR (BAGGAGE)	6.5	2.9	





# **Optional Accessories (continued)**

## Explanatory Notes

•••• • REFER TO NOTES FOR KIT COMPATIBILITY •••••

# All equipment kits require Provision Kits prior to installation Notes: For commonality, notes shown below are identical in Product Specification and Price List. 1) Price and/or Weight includes credit for standard ship hardware removed. 2) Kit includes STC FlightSteps - steps (2) weigh 39.5 lbs (17.9kg). 3) Kit includes STC FloatSteps - steps (2) weigh 41.6 lbs (18.9kg). 4) Bottle Guard is required when Emergency Floats and Cargo Hook Equipment are both installed. 5) A GPS data base must be installed concurrently with the GPS Equipment

(unit); Other geographic regions are available on request.

6) When a KCS-55A system is installed concurrently with the Flight Instruments, the Dir. Gyro. will be removed/credited by Sales Order (Kit Number is the same).

7) The GPS compatible KCS-55A requires BOTH the basic provisions kit AND the coupled provisions kit.

8) Encoding Altimeter or Blind Encoder (customizing) is required to enable Mode C/Mode S altitude reporting and/or GPS altitude input. Customer must obtain Aircraft ID code for Mode S.

9) The Avionics Blower Kit is required if not already installed.

10) Standard or High Visibility Main Rotor Blade Paint to be specified by Sales Order.

11) The Wire Strike Kit is a RECOMMENDED **extra cost** option. The customer must specify on the Purchase Agreement for the WSPS Kit **NOT** to be installed.

12) The Category "A" kit, and Radar Altimeter (customized), are required to perform Category A operations.

**STC Kits** - Select Supplemental Type Certificated Optional Equipment Kits are available for installation at the Bell Helicopter Textron factory. Please contact your Bell Sales Representative for availability and pricing information. **P.O.R.** - Priced On Request.





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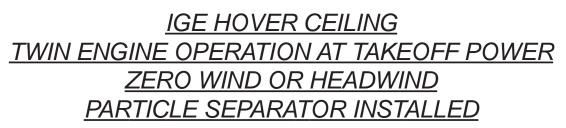
# IGE & OGE HOVER CEILINGS, OEI & TWIN SERVICE CEILINGS, PRATT & WHITNEY PW207D ENGINES PARTICLE SEPARATOR INSTALLED BLEED AIR OFF

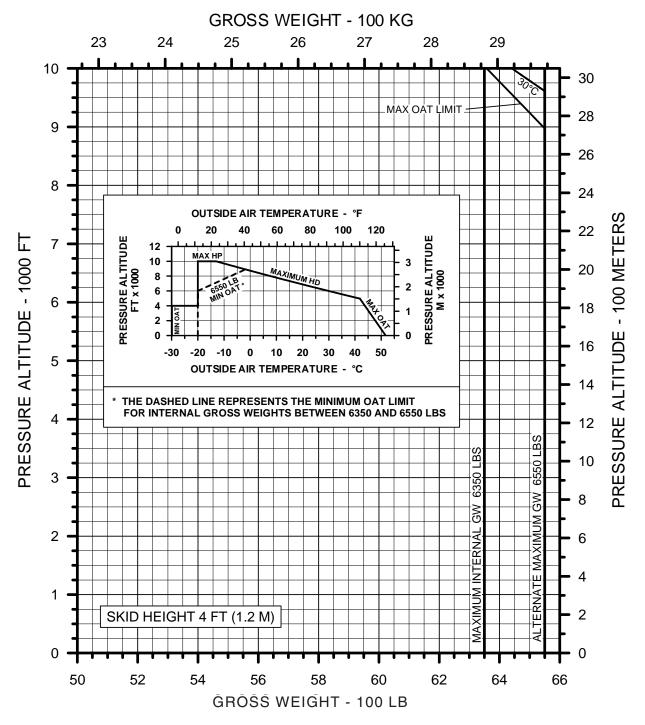
NOTES:

1) HOVER PERFORMANCE AND SERVICE CEILING CHARTS ARE BASED ON MINIMUM SPECIFICATION ENGINE POWER.





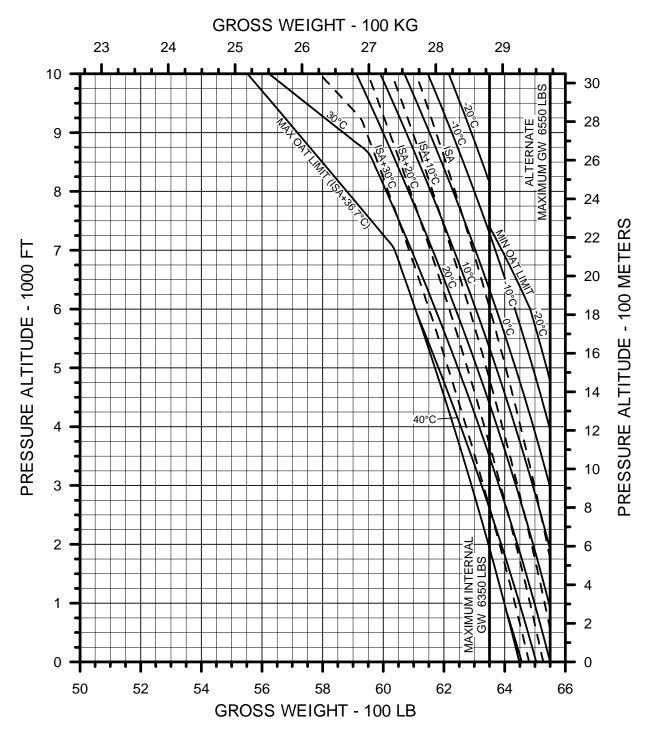








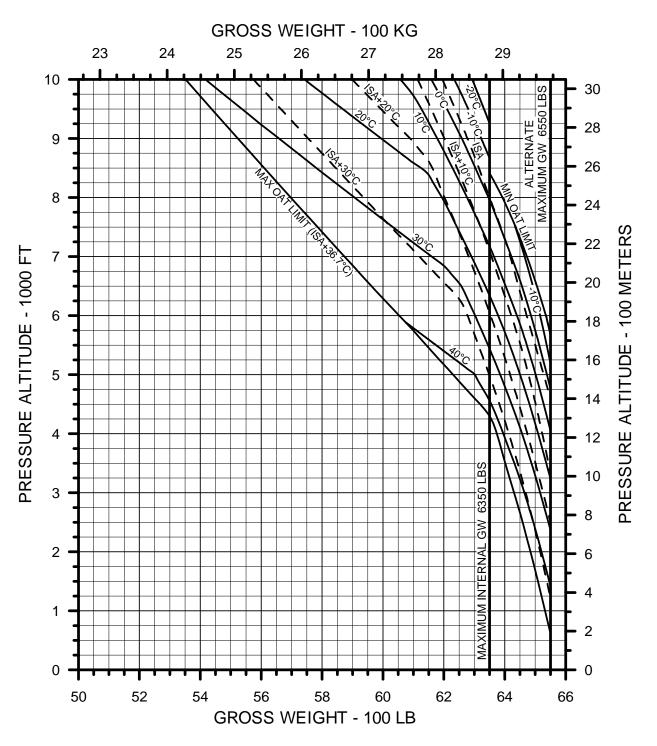
<u>OGE HOVER CEILING</u> <u>TWIN ENGINE OPERATION AT TAKEOFF POWER</u> <u>ZERO WIND OR HEADWIND</u> <u>PARTICLE SEPARATOR INSTALLED</u>







<u>OEI SERVICE CEILING</u> <u>OEI 30 MINUTE POWER</u> <u>PARTICLE SEPARATOR INSTALLED</u>



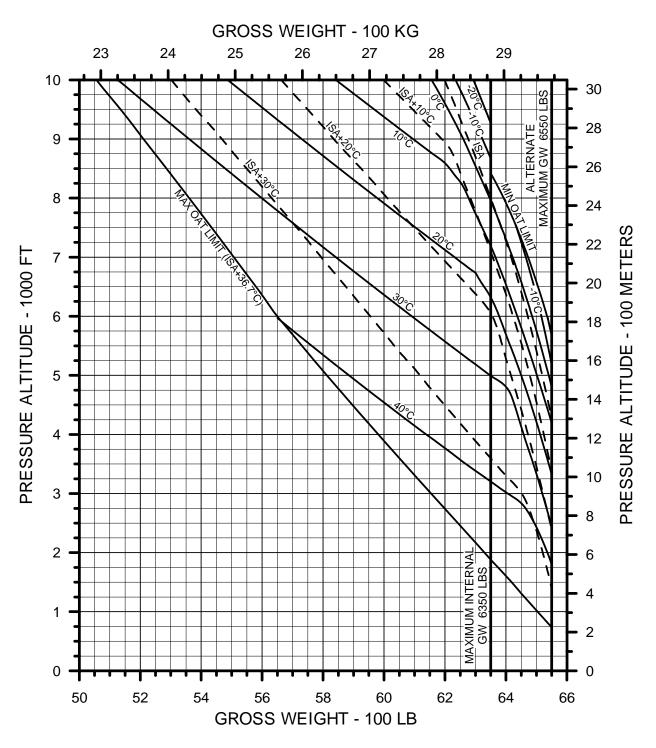
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Product Specifications



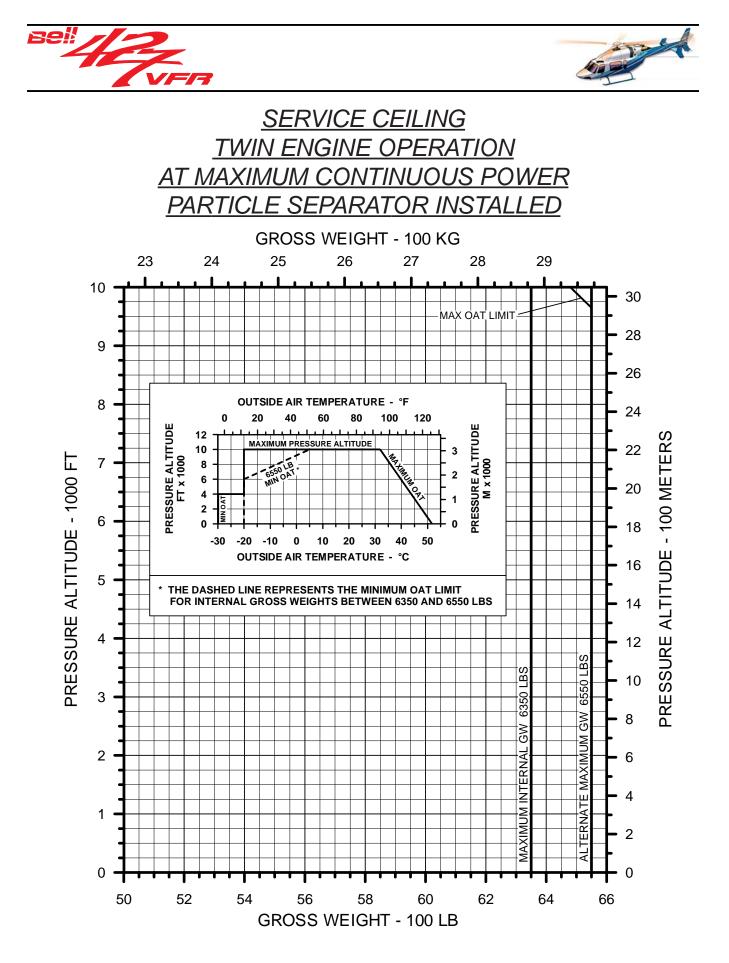


<u>OEI SERVICE CEILING</u> <u>OEI CONTINUOUS POWER</u> <u>PARTICLE SEPARATOR INSTALLED</u>



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Product Specifications







# CATEGORY A PERFORMANCE

<u>GROUND LEVEL OR ELEVATED HELIPAD</u> <u>DAY AND NIGHT</u> <u>PRATT & WHITNEY PW207D ENGINES</u> <u>PARTICLE SEPARATOR INSTALLED</u> <u>BLEED AIR OFF</u>

THE FOLLOWING CHARTS PRESENT CATEGORY A PROCEDURES & PERFORMANCE FOR NORMAL TWIN ENGINE AS WELL AS ONE ENGINE INOPERATIVE TAKEOFF & LANDING OPERATIONS. THE MODEL 427 IS NOT CERTIFIED UNDER FAR 29 SYSTEMS STANDARDS. THE M427 IS APPROVED FOR CATEGORY A HELIPAD TAKEOFF & LANDING PROCEDURES UP TO A MAXIMUM GROSS WEIGHT OF 6500 LBS (2948 KG) AND A MAXIMUM DENSITY ALTITUDE OF 4000 FEET, AS LIMITED BY THE APPLICABLE WAT LIMIT CHART.

ADDITIONAL CHARTS FOR COMPLETED/REJECTED TAKEOFF DISTANCE, CLIMB DISTANCE [TO 200 & 1000 FEET], AND FOR CATEGORY A RUNWAY PROCEDURES ARE AVAILABLE IN THE APPROVED ROTORCRAFT FLIGHT MANUAL SUPPLEMENT (BHT-427-FMS-1).

EQUIPMENT REQUIRED [INSTALLED AND FUNCTIONAL] TO PERFORM CATEGORY A OPERATIONS:

CATEGORY "A" KIT & RADAR ALTIMETER

**NOTE: GROUND LEVEL OR ELEVATED HELIPAD** CATEGORY A OPERATIONS MAY BE ACCOMPLISHED BY ONE PILOT.

INFORMATION ON THE FOLLOWING PAGES PROVIDES A **BRIEF** EXPLANATION OF CATEGORY A OPERATION CAPABILITY FOR THE BELL 427. THE WAT CHART INCLUDED MAY BE USED TO DETERMINE TAKEOFF OR LANDING WEIGHT CAPABILITY FOR BOTH GROUND LEVEL AND ELEVATED HELIPAD OPERATIONS. FOR SIMPLIFICATION, ONLY ILLUSTRATIONS DESCRIBING TAKEOFF ARE SHOWN.

## **DEFINITIONS**:

CATEGORY "A" TAKEOFF;	OPERATION OF THE HELICOPTER IN SUCH A MANNER THAT IF ONE ENGINE FAILS AT ANY TIME AFTER THE START OF THE TAKEOFF THE HELICOPTER CAN: <b>1.</b> PRIOR TO THE <b>TDP</b> (TAKEOFF DECISION POINT) RETURN TO AND SAFELY STOP ON THE TAKEOFF AREA; <b>RTO</b> (REJECTED TAKEOFF); OR <b>2.</b> AT OR AFTER THE TDP , CLIMB OUT FROM THE POINT OF FAILURE AND ATTAIN SINGLE ENGINE FORWARD FLIGHT; <b>CTO</b> (CONTINUED TAKEOFF).
CATEGORY "A" LANDING;	OPERATION OF THE HELICOPTER IN SUCH A MANNER THAT IF ONE ENGINE FAILS AT ANY TIME DURING THE LANDING APPROACH THE HELICOPTER CAN: 1. AT OR PRIOR TO THE LDP (LANDING DECISION POINT) CLIMB OUT FROM THE POINT OF FAILURE AND ATTAIN SINGLE ENGINE FORWARD FLIGHT; OR 2. AFTER THE LDP , SAFELY STOP ON THE LANDING AREA.

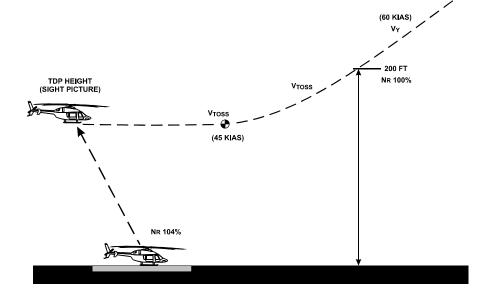




## **427 HELIPAD NORMAL TAKEOFF**

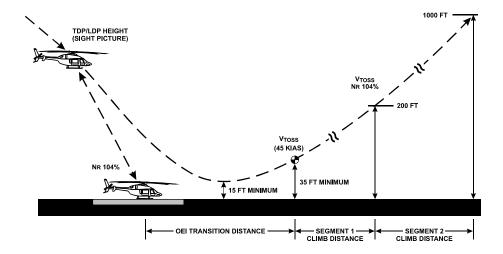
GROUND LEVEL OR ELEVATED HELIPAD NORMAL TAKEOFF PROFILE DAY AND NIGHT THE HELIPAD NORMAL TAKEOFF TECHNIQUE CONSISTS OF A VERTICAL-REARWARD TAKEOFF TO THE CALCULATED **TDP**; THEN ACCELERATION TO  $V_{TOSS}$  (45 KIAS), WITH SUBSEQUENT CLIMBOUT AT  $V_{Y}$  (60 KIAS) AFTER PASSING 200FT.





## 427 OEI HELIPAD TAKEOFF / REJECTED TAKEOFF

GROUND LEVEL OR ELEVATED HELIPAD COMPLETED & REJECTED TAKEOFF PROFILE DAY AND NIGHT THE HELIPAD OEI TAKEOFF TECHNIQUE CONSISTS OF A VERTICAL REARWARD TAKEOFF TO THE CALCULATED **TDP**; THEN ACCELERATION TO V<sub>TOSS</sub> (45 KIAS), WITH SUBSEQUENT CLIMBOUT AT V<sub>TOSS</sub> UP TO 1000 FT ABOVE TAKEOFF SURFACE. ENGINE FAILURE PRIOR TO THE CALCULATED **TDP** REQUIRES RETURN TO THE HELIPAD.



TAKEOFF PROFILE DAY AND NIGHT

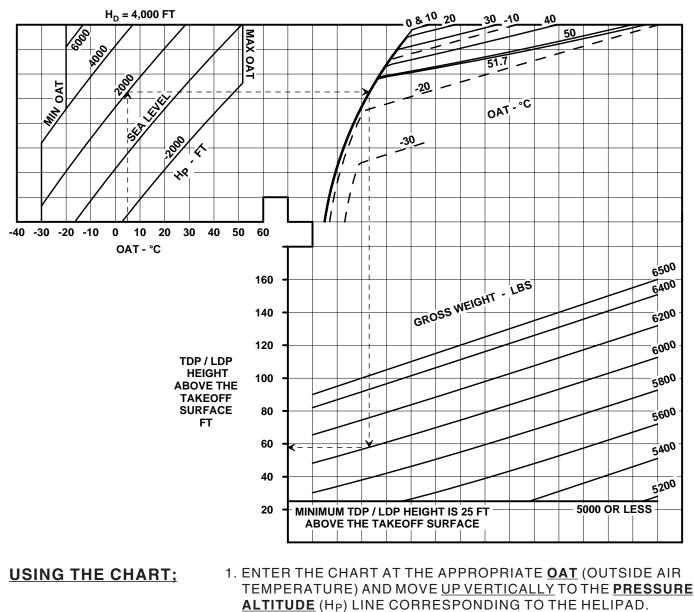
[HELIPAD SIZE - 60 BY 60 FT -18.2 BY 18.2 M]





## HELIPAD TDP/LDP HEIGHT DETERMINATION CHART FOR A 15 FOOT MINIMUM GROUND CLEARANCE

<u>NOTE</u>: TO OBTAIN A MINIMUM GROUND CLEARANCE HIGHER THAN 15 FT, INCREASE THE TDP / LDP HEIGHT OBTAINED FROM THIS CHART, BY THE ADDITIONAL GROUND CLEARANCE REQUIRED.



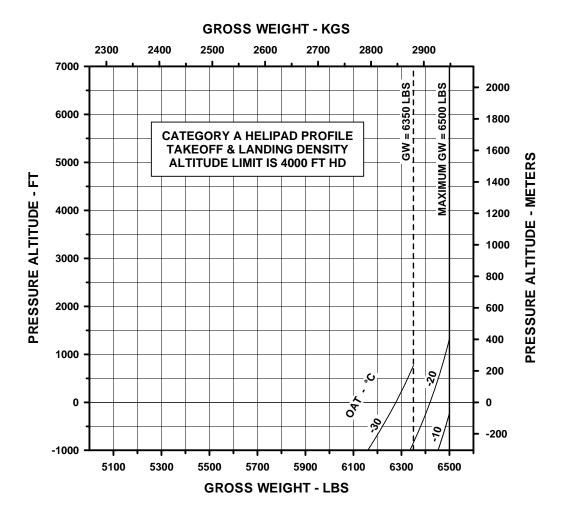
- 2. MOVE <u>RIGHT HORIZONTALLY</u> TO THE APPROPRIATE **OAT** LINE.
- 3. MOVE DOWN VERTICALLY TO THE APPROPRIATE GROSS
- WEIGHT LINE. 4. MOVE LEFT HORIZONTALLY AND READ THE TAKEOFF/LANDING
- **DECISION POINT HEIGHT** WITH **ZERO HEADWIND**.

NOTE: CATEGORY A HELIPAD TAKEOFF AND LANDING HAS NOT BEEN DEMONSTRATED AND IS NOT APPROVED ABOVE <u>4,000 FEET / 1219 METERS</u> **DENSITY ALTITUDE**.





## CATEGORY A TAKEOFF AND LANDING WAT LIMIT GROUND LEVEL AND ELEVATED HELIPAD (DAY AND NIGHT) PRATT & WHITNEY PW207D ENGINE PARTICLE SEPARATOR INSTALLED



**USING THE CHART;** 

- 1. ENTER THE CHART AT THE **PRESSURE ALTITUDE** OF THE TAKEOFF / LANDING HELIPAD.
- 2. MOVE <u>RIGHT HORIZONTALLY</u> TO THE APPROPRIATE <u>OAT</u> (OUTSIDE AIR TEMPERATURE) LINE OR TO THE <u>MAX GROSS</u> <u>WEIGHT</u> LINE (WHICHEVER IS LESS).
- 3. MOVE <u>DOWN VERTICALLY</u> AND READ THE <u>TAKEOFF & LANDING</u> <u>CAPABILITY GROSS WEIGHT.</u>





# FUEL FLOW vs AIRSPEED ISA & ISA+20°C PRATT & WHITNEY PW207D ENGINES PARTICLE SEPARATOR INSTALLED BLEED AIR OFF

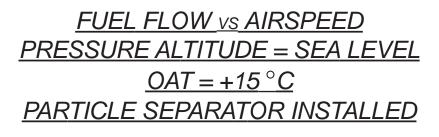
NOTES:

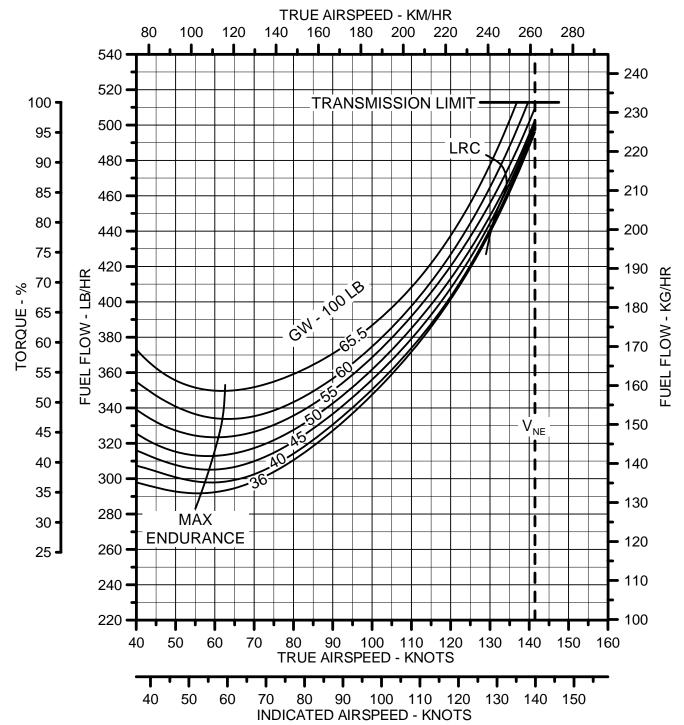
1) THE BEST ALLOWABLE CRUISE SPEED IS EITHER LONG RANGE CRUISE [LRC] SPEED, OR WHEN SPEED IS LIMITED BY MAXIMUM CONTINUOUS POWER [MCP] OR Vne, THE MAXIMUM SPEED PERMITTED.

2) FUEL FLOW vs AIRSPEED CHARTS ARE BASED ON AVERAGE NEW ENGINE POWER. FOR MINIMUM SPECIFICATION ENGINE FUEL FLOW ADD 3%.



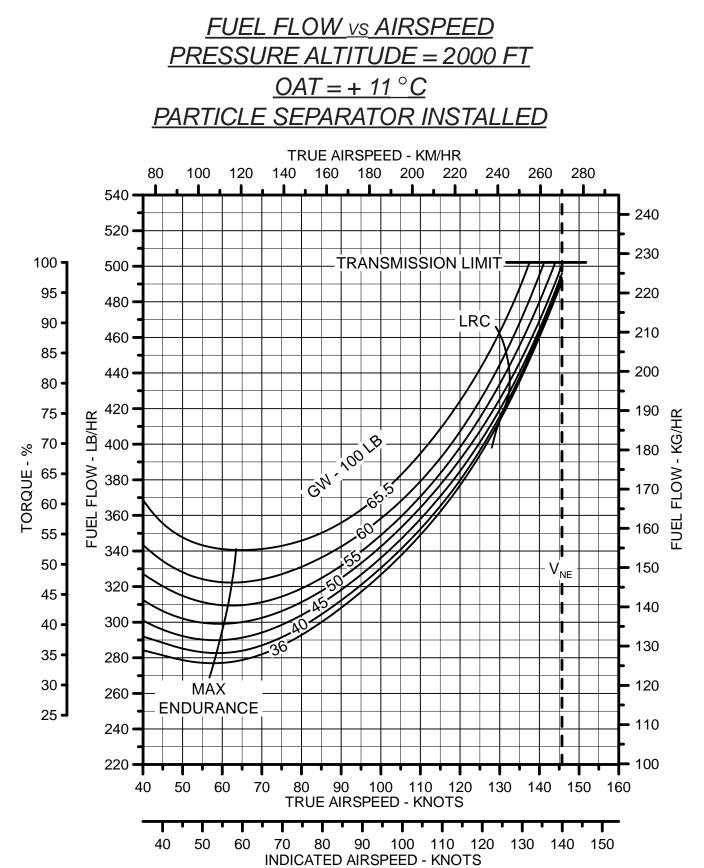








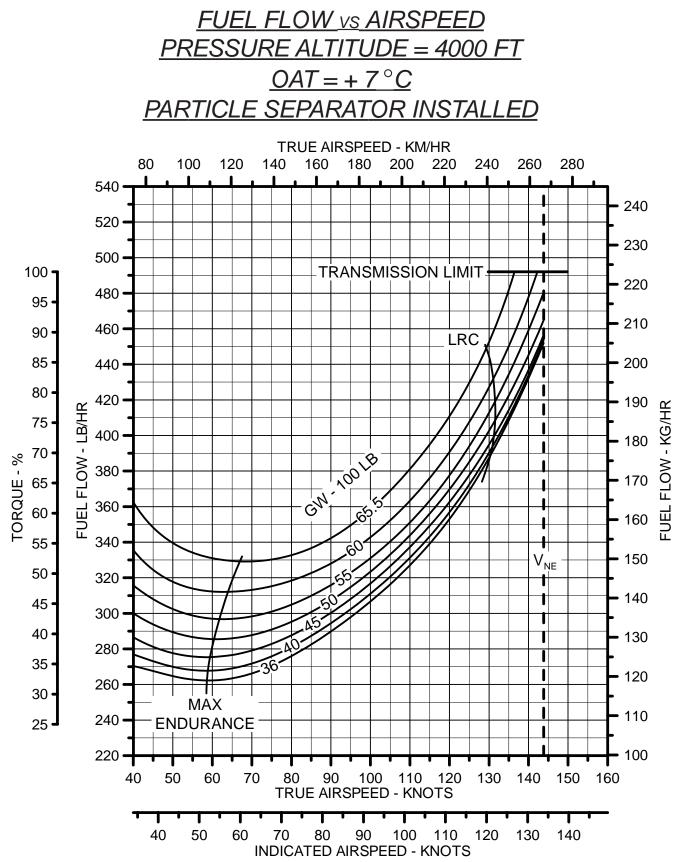




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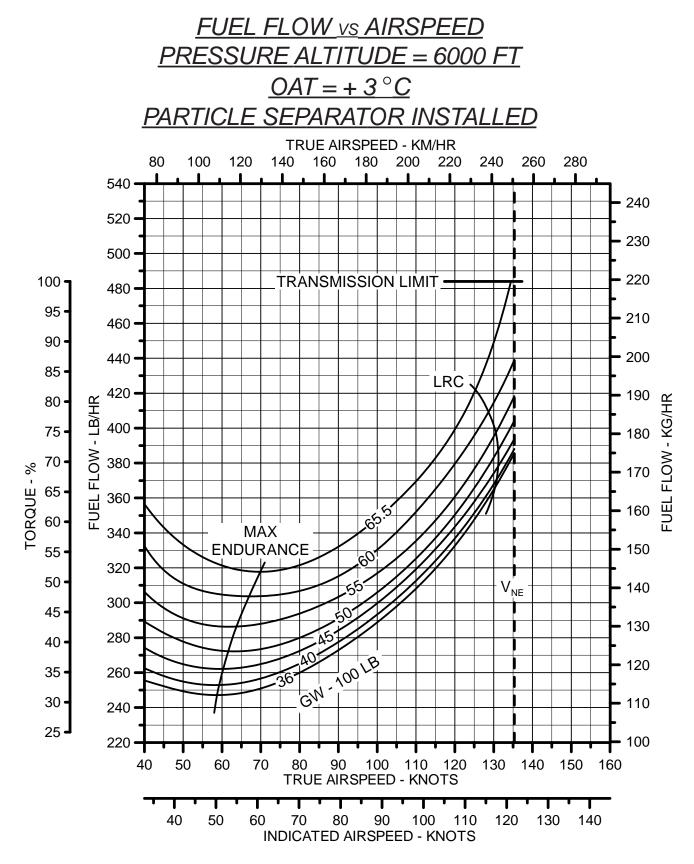




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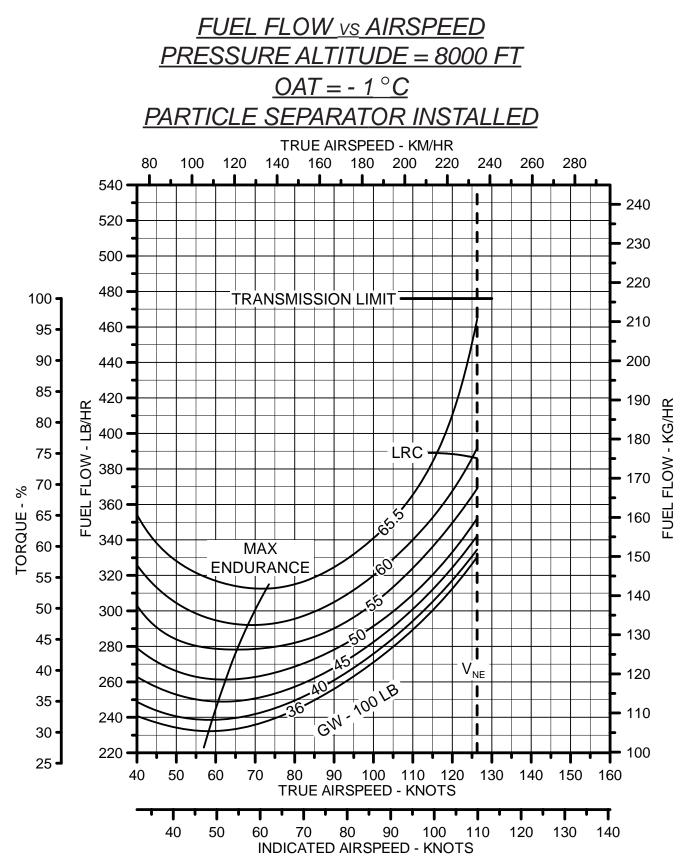


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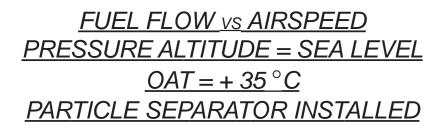


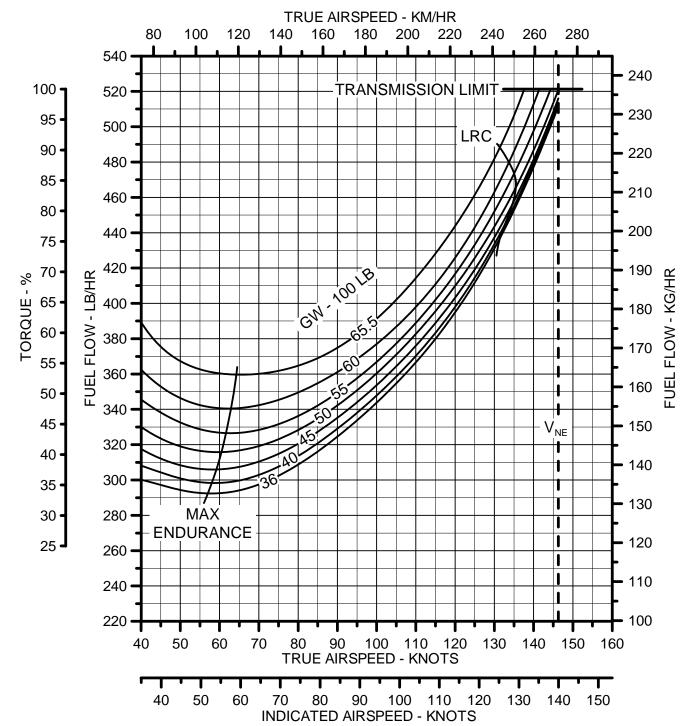


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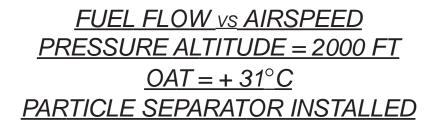


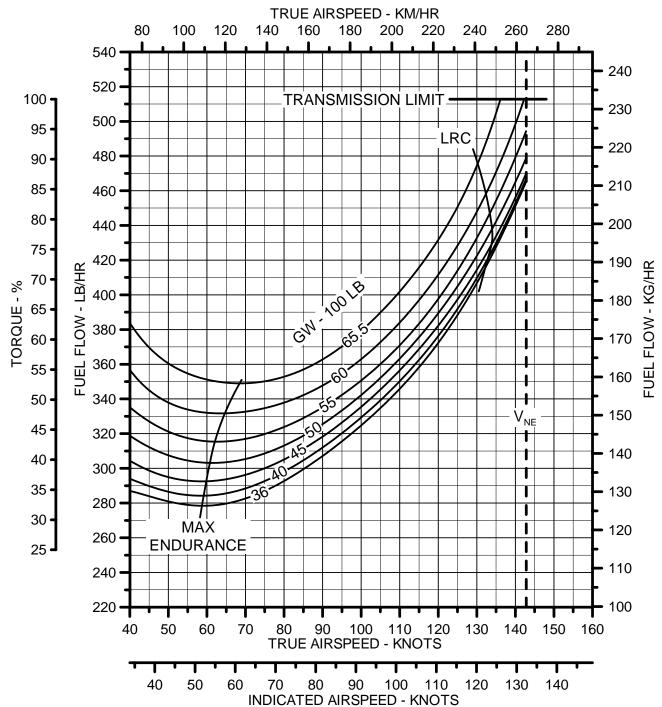


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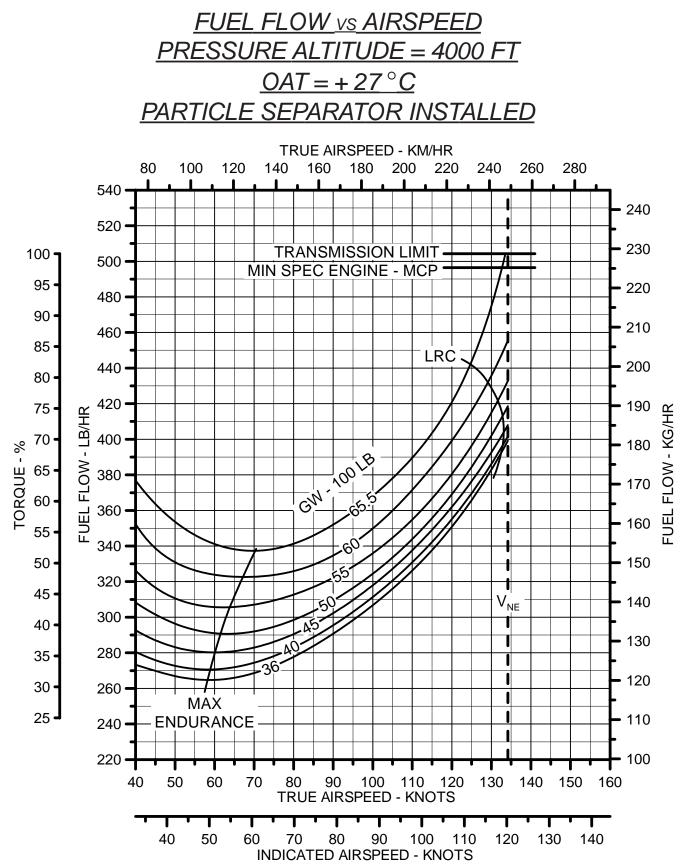


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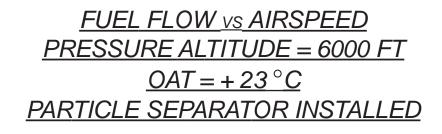


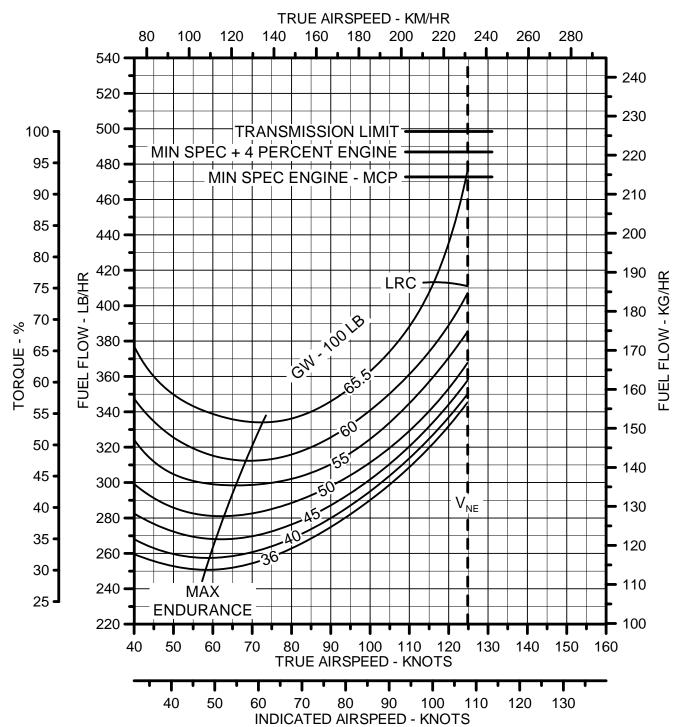


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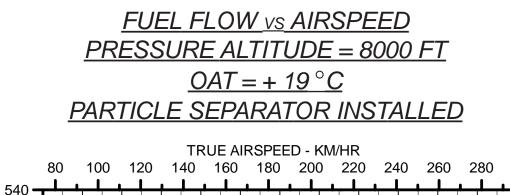


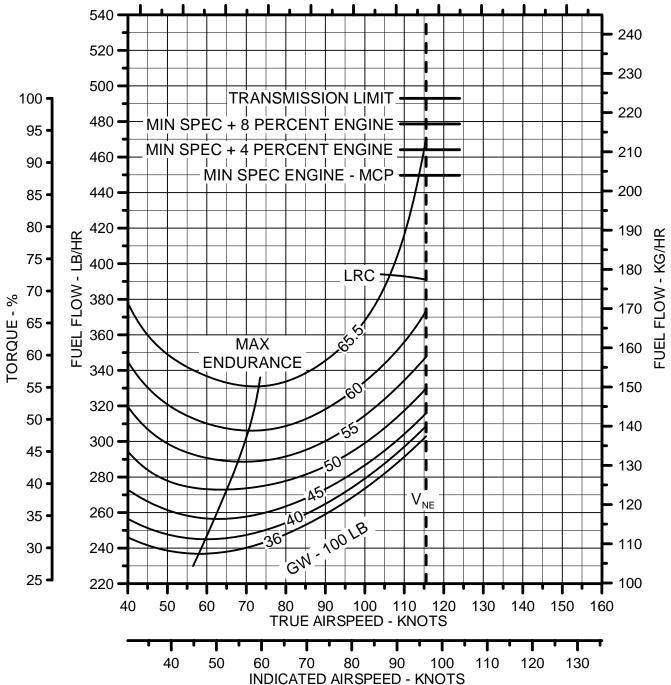












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# COST OF OPERATIONS

#### **INTRODUCTION**

Bell Helicopter Textron's cost of operations data for current production helicopters is based on information from Bell operators and service facilities.

BHT's Product Support organization accumulates cost data from a diverse group of operators - large, small; subpolar, subtropical; inland, coastal; corporate, charter. This information is analyzed to generate sample data for each production model which are averages of the field experience.

BHT intends to continue monitoring actual costs to enable annual updates of the data to maintain its currency.

The following discussion is provided to review the variables involved in the helicopter's direct and indirect cost of operations as well as its cost of ownership.

The total cost of helicopter ownership and operation involves both direct and indirect costs. The direct costs are those which are incurred essentially by the flight hour and include:

Fuel, Lubricants Basic Airframe Maintenance Powerplant Maintenance

The indirect costs are not directly dependent upon the number of hours flown and include:

Insurance Facilities (hangar, workshop, etc.) Crew Compensation Financial Factors (depreciation, investment tax credit, financing costs, etc.)

Sample direct operating cost data is available for each current production model. Detailed estimates for total costs relating to specific operations are available through the BHT regional marketing manager or corporate office using input data supplied by customer/prospect.

#### DIRECT COSTS

#### Fuel, Lubricants

A typical average value of fuel and lubricant costs is included in the sample data provided for each model.

Fuel consumption depends upon speed, temperature, externally-mounted accessories, sling loads, etc. A band of approximately 10% more or less than sample value will cover these factors for normal operations.

Fuel pricing varies considerably based on where the fuel is purchased geographically and whether it is purchased retail or in bulk. The sample cases use average retail purchase price prevalent at the time of the sample data are prepared.

#### **Basic Airframe Maintenance**

Airframe maintenance is divided into four categories:

Periodic Inspections Overhauls Replacement of Retirement Parts Unscheduled

Periodic inspections include those inspection tasks, with their part requirements, listed in the Maintenance Manual for each model.

Man hours for periodic inspections can vary from the sample value provided because of differences in personal experience, tool and parts availability, facilities, environmental effects such as extremes in working temperatures. Man hour costs/hour are also variable among the Authorized Service Centers as a result of differences in local costs, overhead expenses and volume of work. The sample value is an average of costs per hour at Authorized Service Centers at the time of publication.

Overhauls include removal, disassembly, inspection, parts replacement, reassembly and reinstallation of certain components/assemblies at the periods stated in the BHT Maintenance Manual.

Overhaul man hour and parts requirements are subject to considerable variation depending upon the helicopter's operations and environments. The sample data reflect average values.





# COST OF OPERATIONS (continued)

Retirement parts are those which are subject to disposal after an operating time stated in the Maintenance Manual. These are normally components of the rotors/control systems which are subject to oscillatory loads and are designed and tested for use over a finite number of flight hours rather than on their condition. The replacement at the required intervals requires some labor which is included in the man hour data in the sample.

Unscheduled maintenance encompasses labor and parts replacement for major maintenance not covered under the formal Maintenance Manual requirements for inspections and overhauls. It also includes those additional maintenance requirements imposed by the manufacturer through issue of Service Bulletins.

The sample data for periodic inspections provide for some minor unscheduled maintenance tasks resulting from the inspection.

#### **Powerplant Maintenance**

The powerplant (engine [s]) requires periodic inspection and overhauls. The overhaul periods are based on the number of <u>operating hours</u> or on the number of <u>cycles</u>, whichever is the first limit to be attained. Start cycles are a factor because thermal cycles are important in the design of the turbine engine's rotating components. Overhauls are performed by the engine manufacturer and/or at authorized facilities.

Powerplant overhaul can be performed for the engine as a unit, or in some cases for individual modules. (Modules can be gearbox, compressor, turbine, for example.) Each module can have its own overhaul period. Modular overhaul can be cost-effective for some operations and it use should be evaluated.

Engine or module exchanges can be made in lieu of overhaul. For details, contact the engine manufacturer or his authorized distributors/service centers. The sample costs are based on an average exchange.

The powerplant may also require unscheduled maintenance (unscheduled removals for repair, parts replacement).

#### INDIRECT COSTS

#### Insurance

Insurance rates are based on a number of factors including claim experience, type of operations, and crew qualifications. Rates can be obtained from insurance agent/broker.

#### **Facilities**

Facilities can include hangar, workshop, parts storage area, tools, ground support equipment and administrative area as appropriate to the specific operation.

#### Crew Compensation

The number of aircrew personnel depends on the individual operation; i. e., whether the normal crew consists of one or two pilots, hours per day flown, backup requirements for illness, vacation, etc.

Bell regional marketing managers can advise typical local costs for estimation purposes.

#### **Financial Factors**

Funding a helicopter purchase can be accomplished in a variety of ways, including cash, short term note, long term note, partnership, etc. For investment accounting, several depreciation methods also exist; straight line, double declining, sum of the years digits, etc. Value of resale is a significant factor.

#### **Miscellaneous Factors**

Staff expenses (other than aircrew and direct maintenance personnel), utilities, office expenses, etc.

#### **OWNERSHIP ANALYSIS PROGRAM**

Bell Helicopter Textron uses the Life Cycle Cost 2006 computer program provided by Conklin & de Decker Associates, Inc. to determine ownership costs for an operators planned period of utilization for the aircraft. Conklin's Rotorcraft Analysis Office may be contacted at: Phone; (817)277-6403 or Fax; (817)277-6402.

Bell's regional marketing managers or corporate office personnel will be able to assist in preparing an ownership analysis which is customized for our customers specific individual conditions and needs.





# SAMPLE - DIRECT COST OF OPERATIONS US DOLLARS PER FLIGHT HOUR

	OPERATOR OVERHAUL
<i>Fuel, Lubricants</i> Fuel: (Note 1) [69 gallons per hou Lubricants: 3% of Fuel Cost	ır] \$155.25 4.66
Airframe Direct Maintenance	
<i>Labor:</i> (Note 2) Inspection Overhaul Unscheduled and On-Condition	(0.366 MH/FH) 23.76 (0.102 MH/FH) 6.64 (0.744 MH/FH) 48.35
<i>Parts:</i> Inspection Retirement Overhaul Unscheduled and On-Condition	3.45 105.34 36.70 82.92
<i>Powerplant Direct Maintenance</i> Engine Overhaul (Including Acces Line Maintenance (Labor)	ssories- <i>Note 3</i> ) 138.00 (0.119 MH/FH) 7.75
<u>Total Average Cost Per Hour (Note 4)</u>	<u>\$612.82</u>
<ul> <li>Note 1: Fuel at \$2.25 per gallon. Average fuel cr (Jet-A at 6.8 Lb/Gal.)</li> <li>Note 2: Labor rate assumed at \$65.00 per hour.</li> <li>Note 3: Includes all scheduled and unscheduled replacement assuming normal operation</li> <li>Note 4: Increased Gross Weight Kit adds approximation</li> </ul>	d maintenance and life limited parts g environment.
COMPONENT OVERH	AUL INTERVALS (Hours)

M/R Hub Assy	2,500	Swashplate Assembly	2,500	Starter Generator	1,000		
Mast Assembly	3,000	T/R Gearbox	1,800	Rotor Brake Caliper	5,000		
Transmission	3,000	T/R Hub Assembly	2,500	Fanshaft Hgr. Assy.	3,000		





# LIMITED LIFE COMPONENTS

			QTY		TOTAL
PART NUMBER	<u>COMPONENT</u>	FLIGHT <u>HOURS</u>	PER <u>A/C</u>	PRICE <u>(EA)</u>	COST <u>(FLT HR)</u>
MAIN ROTOR HUB A		<u>IICORS</u>	AIC		<u>(I ET IIK)</u>
406-010-108-135	Grip	1,500	4	7,699	\$20.53
406-010-115-131	Upper Plate Assembly	2,500	4	7,033	\$20.33 \$2.82
406-010-117-129	Lower Plate Assembly	2,500	1	6,414	\$2.52 \$2.57
406-010-120-105	Main Rotor Blade Bolt	10,000	8	2,125	\$2.37 \$1.70
407-010-103-115	Pitch Horn	2,500	4	4,326	\$6.92
427-010-103-105	Lower Cone Seat	2,300 5,000	4	24,832	\$0.92 \$4.97
427-010-105-107	Drive Ring Set	5,000	1	10,142	\$4.97 \$2.03
MAIN ROTOR CONTROLS					
406-010-413-141	Pitch Link Tube	5,000	4	5,806	\$4.64
SWASHPLATE DRIV		3,000	4	5,000	ψ+.0+
206-010-408-103	Lever Pin	5,000	1	189	\$0.04
406-010-407-101	Collective Idler Link	5,000	1	752	\$0.04 \$0.15
406-010-410-125	Inner Ring	5,000	1	9,248	\$1.85
406-010-411-117	Outer Ring	5,000	1	13,158	\$2.63
406-010-417-109	Bearing & Liner Assembly	5,000	1	1,134	\$0.23
406-010-419-117	Cap Assembly	2,500	1	2,066	\$0.83
406-010-432-101	Anti-Drive Link Assembly	5,000	1	2,000	\$0.59
427-010-403-101	Swashplate Pivot Sleeve Assembly	10,000	1	8,396	\$0.84
427-010-405-101	Swashplate Support Assembly	10,000	1	11,500	\$1.15
427-010-407-101	Collective Lever	10,000	1	5,977	\$0.60
427-010-408-101	Drive Lever	5,000	2	1,524	\$0.60 \$0.61
427-010-410-101	Drive Link	5,000	2	1,820	\$0.01 \$0.73
427-010-418-105	Anti-Drive Lever Assembly	10,000	1	8,937	\$0.73 \$0.89
BOOSTED FIXED CC	-	10,000	1	0,957	φ <b>0.</b> 09
407-001-022-149	Collective Tube - Lower	10,000	1	1,456	\$0.15
407-001-025-125	Collective Tube - Upper	10,000	1	1,970	\$0.10 \$0.20
427-001-502-101	Actuator Support	5,000	1	18,701	\$3.74
427-001-512-101	Collective Bellcrank Support	10,000	1	1,343	\$0.13
427-001-522-101	Collective Transmission Bellcrank	10,000	1	545	\$0.05
427-001-535-101	Idler Link	5,000	1	3,263	\$0.65
TAIL ROTOR AND CONTROLS					
406-012-102-109	T/R Yoke	5,000	1	9,439	\$1.89
427-016-001-109	T/R Blade	5,000	2	22,496	\$9.00
DRIVE SYSTEM		0,000	2	22,400	<b>\$0.00</b>
206-340-300-105	Input Driveshaft	5,000	2	31,490	\$12.60
427-040-040-101	Main Rotor Mast	5,000	1	29,584	\$5.92
PYLON SUPPORT S		3,000	•	20,004	ψ0.0Z
427-010-201-107	L/H Pylon Side Beam	2,500	1	10,426	\$4.17
427-010-201-108	R/H Pylon Side Beam	2,500	1	10,736	\$4.29
427-010-204-101	Pitch Restraint Spring	10,000	1	6,795	\$0.68
427-010-207-101	Stop Fitting Assy - Left	2,500	1	4,159	\$1.66
427-010-209-101	Stop Fitting Assy - Right	2,500	1	3,740	\$1.00
FIRE PROTECTION SYSTEM					
30600-12	Cartridge Fire Ext. (J1 PORT - 10 YRS)	10,000	2	1,058	\$0.21
30600-12	Cartridge Fire Ext. (J2 PORT - 10 YRS)	10,000	2	983	\$0.21 \$0.20
<u>TOTAL</u>		10,000	2	903	\$0.20 <b>\$105.34</b>
					<u>\$105.34</u>

Prices and hours are subject to change without notice.

THESE DATA ARE PROVIDED FOR ILLUSTRATION PURPOSES. CONSULT MAINTENANCE DOCUMENTS AND BHT SPARE PARTS PRICING FOR CURRENT, OFFICIAL INFORMATION.





# Sample Illustrations of the Standard Paint Schemes are available from your Bell Helicopter Sales Representative

# PAINT SELECTION NOTES:

1. COLOR RENDERINGS (ORIGINAL) MUST BE PROVIDED FOR ANY DEVIATION TO THE STANDARD SCHEMES (ALL MODELS).

2. CUSTOM PAINT SCHEMES TO CUSTOMER SPECIFICATION ARE AVAILABLE, AND A PRICE QUOTE WILL BE PROVIDED ON REQUEST. PLEASE PROVIDE AS MUCH DETAIL AS POSSIBLE WHEN DESCRIBING SPECIAL INSTRUCTIONS AND CUSTOM PAINT SCHEMES.

3. THE DANGER ARROW IS ALWAYS APPLIED ON THE TAIL BOOM BETWEEN THE HORIZONTAL STABILIZER AND THE TAIL ROTOR, NOT WITHSTANDING ANY OTHER ILLUSTRATIONS.

4. UNLESS CLEARLY SPECIFIED (LOCATION, DIMENSION, COLOR), REGISTRATION MARKINGS WILL BE APPLIED PER FAA REGULATIONS (ALL MODELS).

5. METALLIC PAINT CAN NOT BE APPLIED OVER RADOME AREAS WHEN A RADAR IS INSTALLED.

6. PLACEMENT OF BELL MODEL LOGOS IS EFFECTED BY INDIVIDUAL PAINT SCHEMES, AND WILL BE APPLIED AT THE DISCRETION OF BELL HELICOPTER UNLESS OTHERWISE SPECIFIED BY THE CUSTOMER.

## For additional information visit the Bell Helicopter Textron Website

Homepage: www.bellhelicopter.com

## **BELL HELICOPTER TEXTRON INC.**

## Sales Contact Telephone Numbers

Sales Inquiries

U.S. Toll Free: 1-800-FLY-BELL

International/US: 817-280-2800 Email: <u>marketing@bellhelicopter.textron.com</u>

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US/Canada 817-280-6789 Asia Pacific 817-280-2197 Europe/Middle East/Africa 817-280-3261 Latin America 817-280-2879 Used Helicopter Sales /<u>www.BellNetX.com</u> 817-280-2147

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The data set forth in this brochure are general in nature and may vary with conditions. For performance data and operating limitations for any specific flight mission reference must be made to the approved flight manual.

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