eurocopter

EC155 B1

Technical Data

eurocopter
an EADS Company

thinking without limits

155 B1 09.101.02 E

Contents

Manufacturer notice

Attention !

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EUROCOPTER*'s policy is one of on-going product enhancement which means that alterations in definition, pictures, weights, dimensions or performance may be made at any time without notice being included in those documents that have already been issued.*

This document cannot thus be taken as an offer or serve as an appendix to a contract without a prior check as to its validity and prior written agreement of EUROCOPTER.

The operational or certification regulations, as defined by the local authorities, can make compulsory the installation of some of the equipment or recommended solutions, listed in this document. This list does not claim to cover the whole of the worldwide operational requirements nor the equipment not specifically related to the helicopter (for example: life jacket) or necessary for particular missions (for example: supplemental oxygen). The operator is responsible for ascertaining with his local authorities that the planned configuration of the helicopter complies with regulatory requirements for the area(s) of operations and the type(s) of mission(s) considered.

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1 - Foreword

The medium twin, multi-mission helicopter EC155 B1 *is aimed at all passenger transport markets requiring comfort and speed and can be tailored to the VIP, corporate, offshore, police, public service and emergency medical service applications.*

Indeed the EC155 B1 *offers a significantly larger cabin than previously available in helicopters of its class, cabin that is not encumbered by any aircraft system. A new technology five-composite blade main rotor and an even quieter, efficient, advanced* FENESTRON *for yaw control have been designed into the* EC155 B1 *with an emphasis placed on high speed and passenger comfort in terms of available space, low vibration level and low noise.*

Inside the EC155 B1 *you will find a spacious cabin which can accommodate in the Passenger Transport configuration 12 passengers with one or two pilots, and in the VIP version, as many as eight executives in a comfortable working environment, designed to reflect the helicopter owner's unique sense of style and taste. In addition, the* EC155 B1 *has more than ample baggage space accessible from both sides of the aircraft for luggage and, if required, additional equipment.*

In the cockpit, the crew manages a carefully designed state-of-the-art glass cockpit. The standard four-axis auto-pilot and ergonomically placed flight displays make the EC155 B1 *flying similar to fixed wing jet standards.*

The EC155 B1 *is adapted to the most crowded airports where its high-speed permits easy integration with fixed wing traffic during approaches.*

The high-set main rotor disk and shrouded tail rotor FENESTRON *provide unparallel ground crew safety. The wheeled retractable undercarriage ensures freedom to taxi on the most congested ramps without lifting off.*

In its corporate or VIP livery, the EC155 B1 *brings new meaning to flying for business.*

EUROCOPTER *knows only too well that the majority of the cost of ownership is incurred over the operational life of the helicopter. Indeed, as much as 60 % of the life cycle costs occur during the in-service phase. For this reason, reliability, maintainability and supportability are the cornerstones of the design of all* EUROCOPTER *products.*

The basic EC155 B1 *vehicle design is based on the concept of Reliability Centered Maintenance and, as such, embodies a modern concept of dynamic assemblies and systems, use of state of the art materials and technologies, redundant systems and unlimited service life of main components.*

The EC155 B1 *possesses "designed-in maintainability" with numerous interchangeable parts that can be replaced quickly to ease maintenance and reduce down time. The main components (engines, main rotor head, main gearbox) have a modular design and are directly accessible, with minimum requirements to remove other components of the aircraft.*

Created at the end of the 90's, and with more than 100 helicopters in service worldwide, the mature EC155 B1 *has now set new unequalled references in passenger comfort, cruise speed, cockpit ergonomics, easy maintenance with proven track records for safety and reliability for the satisfaction of the most demanding customers.*

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2 - General Characteristics

Layout

■ **Crew**	• single / dual-pilot VFR • dual-pilot IFR • single-pilot IFR with optional SPIFR kit
■ **Passenger transport**	• up to 12 passengers with comfort seats
■ **VIP**	• up to 8 passengers with VIP layout
■ **Corporate**	• up to 9 passengers with Corporate layout
■ **Casualty transport**	• up to 2 stretcher-patients and 4 pax/attendants

Weights

Note: Empty weight accuracy: within ± 2 %

	kg	lb
■ **Empty weight, baseline aircraft definition (including engine oil and unusable fuel)**	2,619	5,774
■ **Maximum all-up weight**	4,920	10,846
■ **Maximum weight for taxiing (EASA)**	4,950	10,913
■ **Maximum load on cargo sling**	1,600	3,527

Note: the EC155 B1 *is delivered with fittings to receive ballast (30.5 kg max), should the mission loading (passengers / freight / fuel) require it.*

Power plant: 2 TURBOMECA ARRIEL 2C2 free turbine engines

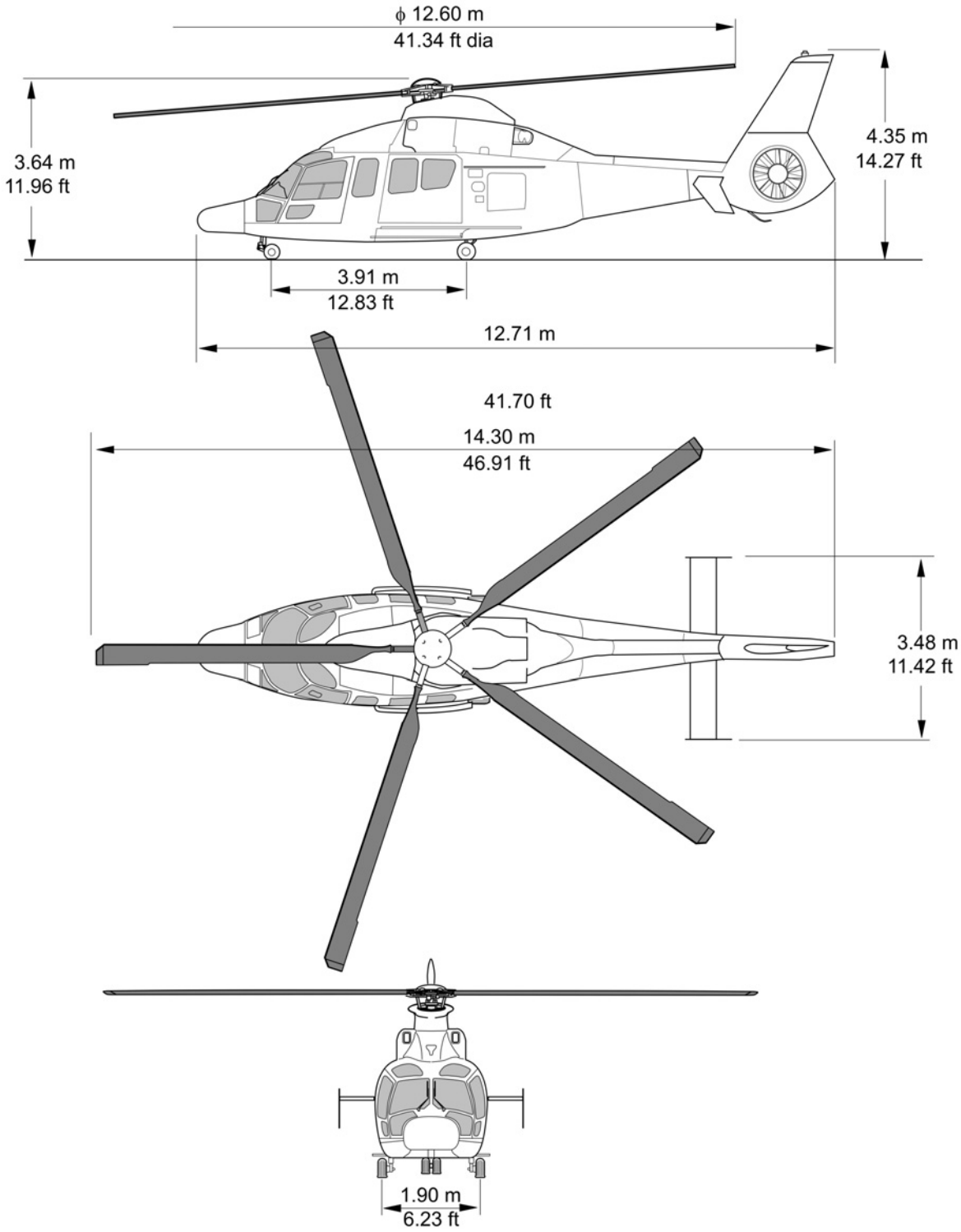
	kW	ch	shp
■ **O.E.I. 30 seconds rating**	785	1,066	1,053
■ **OE.I. 2 minutes rating**	713	968	956
■ **Continuous O.E.I. rating**	685	930	919
■ **Take-Off Power**	703	955	943
■ **Maximum Continuous Power**	635	862	852

Usable Fuel capacities

	litres	US gal.	kg	lb
■ **Standard fuel tanks (2 groups)**	1,257	332	993	2,189
■ **Additional fuel tanks (option)**				
• **Auxiliary fuel tank**	180	47	142	313
• **Ferrying fuel tank**	475	125	375	827

The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Main dimensions



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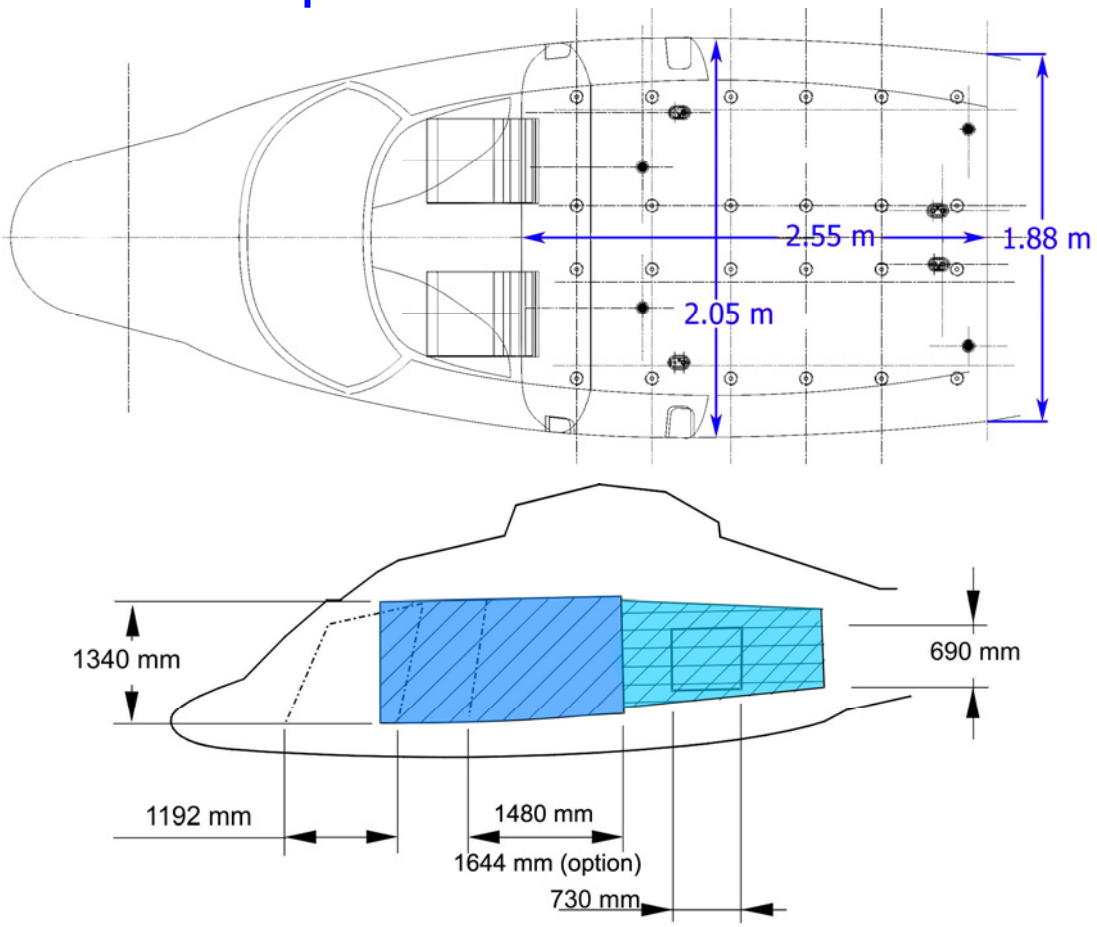
Dimensions of compartments and doors



CABIN	
Surface	5.09 m^2 54.79 sq.ft
Volume	6.66 m^3 235.20 cu.ft

HOLD	
Surface	2.95 m^2 31.75 sq.ft
Volume	2.5 m^3 88.29 cu.ft

The cockpit is accessible through two large jettisonable doors.

The vast luggage hold is accessible from both sides of the helicopter.

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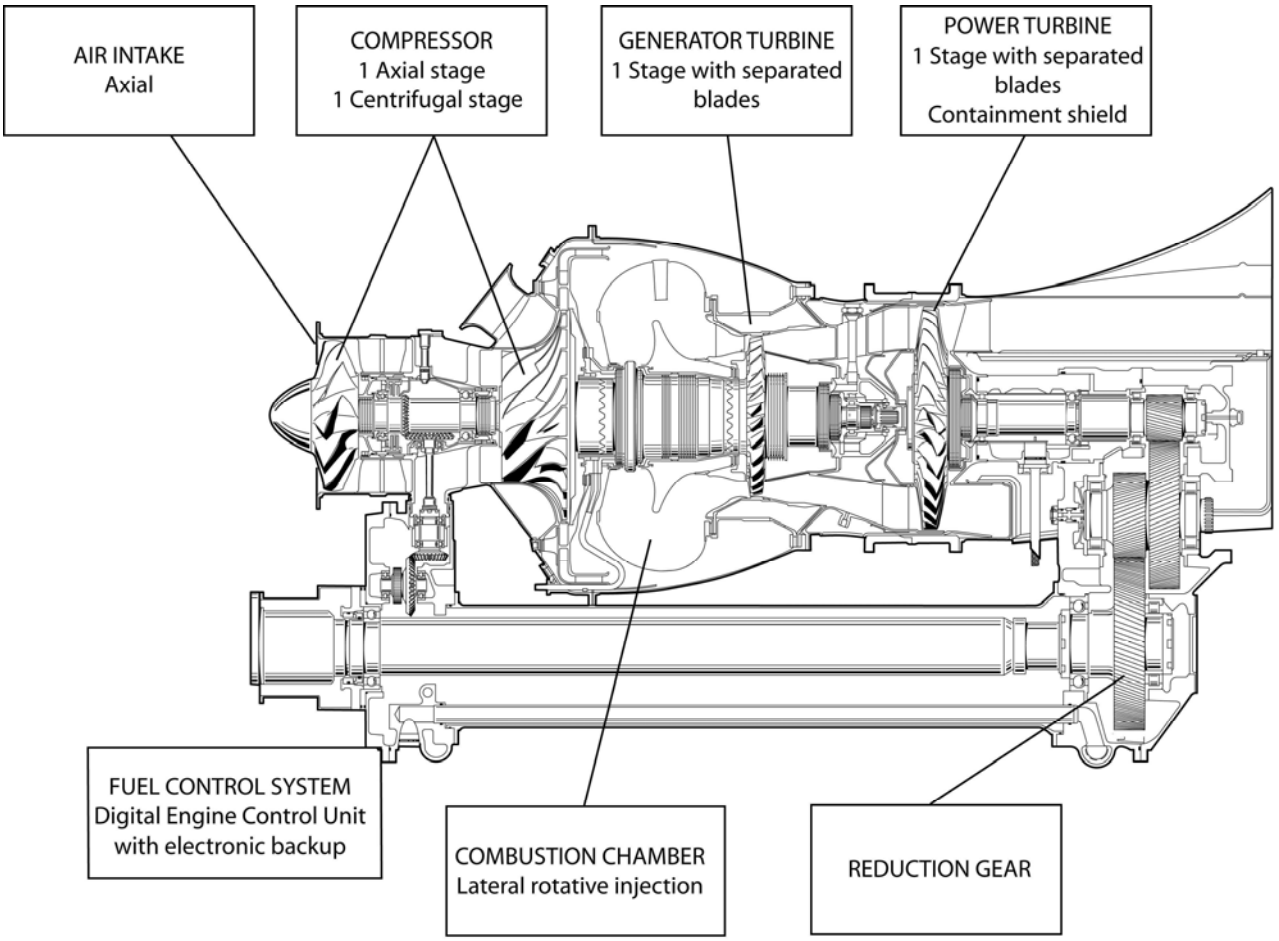
High performance Arriel 2C2 Power Plant...



... **with** modular design for easier maintenance, blade shedding protection and dual channel FADEC for increased safety

The ARRIEL 2C2 is controlled by a dual channel Full Authority Digital Engine Control (FADEC) which controls the power turbine constant speed whatever the power drawn from the engine by continuous accurate adjustment of the gas generator speed. In addition, the FADEC controls some automatic functions (Automatic engine starts / shut-down sequences, acceleration / deceleration control of the engine preventing surge / flame out, in-flight automatic restart and engine maintenance aid), offering the latest safety standards in engine technology.

Full glass cockpit

Note: *The layout here above is the standard dual-pilot IFR layout. Various indicators, controls and warning lights associated with items of optional equipment may be installed on the instrument panel and console and cause the equipment shown above to be relocated.*

Instrument-panel equipment:

- 2 Primary Flight Displays (PFD)
- 2 Navigation Displays (ND)
- 1 dual Vehicle and Engine Management Display (*VEMD*)
- 1 Caution Advisory Display (CAD)
- 2 Instrument Control Panels (ICP)
- 1 Rotor r.p.m. tachometer (co-pilot side)
- 1 stand-by anemometer
- 1 stand-by horizon
- 1 stand-by altimeter
- 1 triple tachometer (rotor, engine 1 and 2 free wheel RPM)
- 2 stopwatches
- 1 landing gear monitoring and control panel
- 1 warning panel (red alarms)
- 2 master alarm warning lights
- 2 "landing gear not extended" warning lights
- 2 manoeuvre limit lights

Console equipment:

- 1 Reconfiguration Control Unit (RCU)
- 1 Automatic Pilot Mode Selector (APMS)
- 1 fuel circuit control and monitoring panel
- 1 AHRS control box
- 1 parking brake control handle
- 1 nose wheel caster lock handle
- 1 breaker panel

3 - *EC155 B1* Baseline Aircraft Definition

GENERAL

- Fuselage comprising cabin and baggage hold
- Baggage hold with floor tie-down net (LH and RH side)
- Tail boom with stabilizer fitted with 2 lateral fins and a shrouded tail rotor built into the vertical fin
- Retractable tricycle landing gear with axially lockable castering nose wheel unit, assisted differential brakes on pilot's and copilot's stations and parking brake
- 3 heated pitot heads
- 6 built-in foot-steps (3 on each side) for access to transmission deck
- Anti-corrosion protection
- Structural reinforcements for 1,600 kg (3,527 lb) cargo-sling
- Structural reinforcements for external hoist
- Jacking, hoisting, mooring and gripping points
- Interior colour: light grey
- Exterior colour:
  - the fuselage is painted following per standard colour chart (scheme and colours, gloss or matt polyurethane finish, white + 2 colours), unless modified by option
  - the landing gears are light blue
  - the transmission deck (MGB & tail rotor drive shaft) are white
  - the main rotor and tail rotor cover are grey
  - the main rotor blades are kaki and the tail rotor blades are black

COCKPIT / CABIN

- 1 multipurpose cabin
- 2 removable pilot and copilot energy attenuating high back-rest seats, adjustable in reach and height, each fitted with a 5 points harness
- 1 glass windshield
- 2 hinged pilot and copilot doors, jettisonable with tinted windows, allowing access to cockpit and front passenger row, each fitted with a sliding window
- 2 jettisonable tinted windows located between cockpit and cabin doors
- 2 passenger sliding doors with jettisonable tinted windows
- 2 externally mounted cockpit and cabin footsteps on each side
- 2 tinted upper panes
- Cabin upholstery
- Dual flight controls
- Fuel shut-off controls
- 1 rotor brake control
- 1 heating / demisting / ventilation system
- 2 windshield wipers
- 1 portable fire-extinguisher in cockpit
- 2 illuminated chart holders
- 2 headset hooks
- Stowage place in the doors for flight documents
- 1 flight manual

INSTRUMENTS

- 2 Primary Flight Displays (PFD) providing the following information:
  - Attitude
  - Indicated airspeed with flight envelope data
  - Vertical speed
  - Barometric altitude
  - ILS (with heading scale) (*)
  - Auto Pilot mode annunciator
  - DH alarm
- 2 Navigation Displays (ND) providing the following information:
  - Heading
  - Radio navigation sources (*)
  - Automatic bearings (*)
  - Radar altitude scale with DH select
  - ILS (*)
  - DME (*)
  - 2 D navigation leg displays (*)
  - External video sources (*)
- 1 dual screen Vehicle and Engine Management Display (*VEMD*®) providing the following information:
  - First Limitation Indicator (FLI): limitation related to the first power limitation: NG, T4, TRQ
  - Engine oil temperature/pressure indicator
  - Hydraulic pressure
  - Ammeter and voltmeter
  - OAT
  - Enhanced usage monitoring functions
    - Engine cycle counting
    - Automatic engine check
- 1 Caution Advisory Display (CAD) providing the following information:
  - Caution advisory display (amber, green and blue messages)
  - Fuel quantity
  - Fuel pressure
  - ΔNG (back-up mode)

(*) when optional equipment is fitted

- 2 Instrument Control Panels (ICP)
- 1 stand-by gyro-horizon
- 1 stand-by anemometer
- 1 stand-by altimeter
- 1 stand-by magnetic compass
- 1 landing gear position selector and indicator
- 2 stop watches
- 1 triple tachometer for rotor and engine 1 and 2 free turbine r.p.m.
- 1 tachometer for rotor on copilot's side
- 1 warning panel (red alarms)
- 2 master alarm lights
- 2 manoeuvre limit lights
- 2 "L/G not extended" warning lights
- 1 Automatic Pilot Mode Selector (APMS)
- 1 Reconfiguration Control Unit (RCU)
- 1 fuel circuit control and inspection panel
- 1 AHRS control box
- 1 overhead panel including :
  - 1 engine control panel
  - 2 dual fire extinguishing controls for engine bays
  - 1 dual fire extinguishing control for baggage hold
  - 1 electrical control panel
- 1 brake hydraulic circuit pressure gauge on pilot side floor
- 2 Attitude and Horizontal Reference Systems (AHRS)
- 2 Air Data Computers (ADC)
- 1 radar altimeter (radar altitude displayed on NDs)
- 1 nose mounted rack with the following avionics modules:
  - 2 Flight Data Computer Modules (FDCM)
  - 1 Automatic Pilot Module (APM)
  - Spare for 1 Miscellaneous Flight Data Acquisition Unit (MFDAU) (*)

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POWER PLANT

- 2 TURBOMECA ARRIEL 2C2 turbine engines with dual channel Full Authority Digital Engine Control (FADEC) system, and fitted with 4 chip detectors cabled with 1 warning light on warning panel

  The Digital Engine Control Unit (FADEC) provides the following main functions:
  - Variable rotor speed governing
  - OEI training mode
  - Automatic starting sequence

  Each engine is equipped with an anti-icing fuel system (efficient down to O.A.T. = -20° C)
- Automatic (FADEC controlled) engine governing in back-up mode
- ⇨ 1 fuel system including 6 tanks split into 2 groups, with a total usable capacity of 1,257 litres (332 US gal), 4 immersed *canister* booster pumps, 1 transfer pump and low level fuel indication
- 2 engine lubrication and oil cooling systems
- 1 fuzz burner system on engine lubrication system
- 2 engine fire detection and extinguishing systems
- 2 engine anti-icing air-intake grids
- 2 phase angle torquemeter sensors
- Single side engine flushing port (without cowlings removal)
- Single side fuel filler with door

TRANSMISSION SYSTEM

- 1 main gearbox with oil level sight, magnetic plug, oil pressure and temperature sensors, 1 dual-pump lubrication system, thermal-switch, 2 rotor tachometer sensors, access ports for endoscope and oil sampling, and 2 chip detectors wired to the Caution Advisory Display
- 2 free wheels integrated to the main gearbox
- 1 main gearbox oil cooling system
- 2 engine / main gearbox coupling shafts
- 1 tail rotor drive shaft
- 1 rotor brake
- 1 tail gearbox with oil level sight and 1 chip detector wired to the Caution Advisory Display

ROTORS AND FLIGHT CONTROLS

- 1 main rotor with:
  - 5 glass / carbon-fibre blades
  - 1 *SPHERIFLEX*® rotor head fitted with lower gust and droop stops
  - 1 rotor mast fitted with rotor r.p.m. phonic-wheel
- 1 *FENESTRON*® type tail rotor with 10 composite material blades built into the vertical fin.
- 1 flight control system, fitted with 3 dual-chamber / dual-body main servo-units (on cyclic and collective pitch channels) and 1 dual-chamber / dual-body rear servo-unit (on tail rotor pitch control channel)
- 1 Dual Digital Automatic Flight Control System (4-axis type) including upper modes

ELECTRICAL INSTALLATION

- Power generation system:
  - 2 starter / generators (160 Amp, 28 V DC)
  - 43 Amp / hr nickel-cadmium battery with temperature sensor and warning light
  - 1 external 28 V DC power connector
  - 1 additional maintenance ICS jack in the ground power receptacle compartment
- Power distribution system:
  - 2 primary bus bars
  - 2 essential bus bars
  - 2 high load bus bars (80 A) – for optional equipment only
  - 1 battery bus
  - 2 breaker panels in radome
  - 1 breaker panel in cockpit
- Lighting:
  - 1 anti-collision light
  - 1 LH side retractable landing light (450 W)
  - 1 RH side retractable swivel light (450 W)
  - 3 position lights (red, green, white)
  - adjustable instrument lighting
  - 2 utility lights in the cockpit
  - 1 instrument light for flight in stormy conditions
  - Overhead lights in cabin and cargo compartment
- 2 x 28 V DC power outlets in cabin
- 1 emergency battery for automatic lighting of the cabin central overhead lights and call signs

HYDRAULIC GENERATION

- 2 independent hydraulic systems feeding the servo-units, landing gear actuation system and assisted brakes
- 1 self-sealing hydraulic ground coupling
- 1 stand-by hydraulic system with electro-pump for emergency activation of the landing gear and for hydraulic assistance on ground (engines not running)

AIRBORNE KIT (*)

- 3 pitot head covers
- 2 static vent plugs
- 2 engine air-intake covers
- 2 engine exhaust pipe covers
- 7 mooring rings
- 2 rough weather tie-down rings
- 2 gripping rings
- 1 main blades tie-down kit
- 1 set of jacking pads
- 1 fuel tanks bleed tool
- 1 data case
- 1 airborne kit stowing bag

(*) weight not included in standard aircraft empty weight.

⇨ *Main improvements of the year*

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4 - Recommended Mission Configurations

EUROCOPTER proposes the following mission configurations for the *EC155 B1*. These proposed packages should be regarded as recommended configurations and can be complemented by additional items from the optional equipment list given in chapter 5. **Please take note that there may be incompatibilities between optional items of equipment. Any modification and/or complement of the proposed mission configuration must be done with the assistance of an *EUROCOPTER* sales representative.**

The *EC155 B1* recommended mission configurations are:

- **Passenger transport**
  - **Oil & Gas Offshore:** this configuration is adapted to Oil and Gas operations and is intended for flight over water in "hostile environment".
  - **Passenger Transport Onshore:** this configuration is intended for general passenger transport over land.
- **VIP**
  - **8-seat VIP configuration**

    2 divans installed face-to-face accommodate 2 to 4 persons each. The cabin is separated from the cockpit by a partition.
  - **6-seat VIP configuration (with 20-inch armchairs and galley)**

    1 divan is installed in the front part of the cabin to accommodate 2 to 4 persons and 2 "20-inch" armchairs and a central galley are installed in the rear part of the cabin. The cabin is separated from the cockpit by a partition.
  - **6-seat VIP configuration (with 22-inch armchairs)**

    1 divan is installed in the front part of the cabin to accommodate 2 to 4 persons and 2 "22-inch" armchairs are installed in the rear part of the cabin. The cabin is separated from the cockpit by a partition.
  - **6-seat VIP Configuration (1 divan – rear and 2 armchairs – front)**

    1 divan is installed in the rear part of the cabin to accommodate 2 to 4 persons and 2 "20-inch" armchairs are installed in the front part of the cabin. The cabin is separated from the cockpit by a mid height cross cabin galley.
  - **7-seat VIP Configuration**

    1 divan is installed in the rear part of the cabin to accommodate 2 to 4 persons and 2 or 3 armchairs are installed in the front part of the cabin. The cabin is not separated from the cockpit.
- **Corporate**
  - **6-seat Corporate Configuration**

    1 divan is installed in the rear part of the cabin to accommodate 2 to 4 persons and 2 armchairs and a central galley are installed in the front part of the cabin.
  - **9-seat Corporate Configuration**

    The cabin is fitted with 3 rows or 3 seats with armrests.
- **Public Services**

  The *EC155 B1* recommended Public Services mission configuration is fitted with Fixed Parts only for optional items of equipment such as hoist, searchlight, sling, hailers and rappelling. Depending on the mission, the aircraft can be fitted with any of the corresponding Removable Parts, as shown in the following examples (see Chapter 5).

  Very specific equipment such as flir, mission console, EMS equipment, etc… can be provided on request. Please contact an *EUROCOPTER* sales representative.

4.1 - Oil & Gas Offshore Configuration

Document reference	Commercial reference	Name	kg	lb
00-10019-A	**00-10019-00-CI**	*EC155 B1* Baseline Aircraft (155 B1 08.100.01 E)	**2,619**	**5,774**
05-02036-A	**05-02036-00-CI**	Customized external paint – Level 2	**5.0**	**11.0**
05-03012-A	**05-03012-00-CI**	First aid kit - JAR OPS 3 compatible	**5.0**	**11.0**
05-24016-A	**05-24016-00-CI**	Coning stops	**5.9**	**13.0**
05-27002-A	**05-27002-00-CI**	2nd fire extinguisher	**2.4**	**5.3**
05-32005-A	**05-32005-00-CI**	Windshield washer	**2.6**	**5.7**
06-21009-A	**06-21009-00-FP**	Goodrich Class 2 electrical hoist (272 kg - 90 m) - Fixed-Parts	**4.4**	**9.7**
06-41011-A	**06-41011-00-CI**	Under fuselage anti-collision strobe light	**1.0**	**2.2**
06-41012-A	**06-41012-00-CI**	Double red and white fin anti-collision light	**0.2**	**0.4**
06-61009-A	**06-61009-00-FP**	Emergency floatation gear with automatic percussion - Fixed parts	**9.8**	**21.6**
	06-61009-00-RP	Emergency floatation gear with automatic percussion - Removable parts	**55.7**	**122.7**
06-62025-A	**06-62025-00-CI**	External Aerazur life rafts inst. (2 x 10 pax) with ELT compart (ELT not included) [1]	**93.2**	**205.5**
06-66005-A	**06-66005-00-CI**	Helicopter Emergency Egress Lighting (HEEL)	**4.0**	**8.8**
06-67032-A	**06-67032-02-CI**	Emergency Locator Transmitter Kannad 406-AP with GPS connection [2-3]	**3.1**	**6.8**
06-67040-A	**06-67040-00-CI**	Automatic Deployable Emergency Locator Transmitter (ADELT) HR Smith series 503	**7.1**	**15.7**
06-67052-A	**06-67052-00-CI**	Personal Locator Beacon HR Smith PLB 500-12 YF (Qty 2)	**1.2**	**2.6**
07-25066-A	**07-25066-00-CI**	12-seat cabin lay out with 4 points harnesses	**88.3**	**194.7**
00-50014-B	**00-50014-01-CI**	*EC155 B1* Minimum Equipment Package	**57.6**	**127.0**
		Including:		
		VHF-AM Collins VHF-4000 n°1 - (including 8.33 khz channel spacing)		
		VHF-AM Collins VHF-4000 n°2 - (including 8.33 khz channel spacing)		
		Digital Audio Communication System NAT with 2 control panels		
		David Clark H 10-13H headset (Qty 2)		
		Mode S Transponder COLLINS TDR 94 D with flight ident function n°1 [4]		
		DME Collins DME - 4000 (displayed on ND)		
		VOR/ILS/MKR - Collins NAV-4500 n°1 (displayed on ND)		
		VOR/ILS/MKR/ADF - Collins NAV-4000 n°2 (displayed on ND)		
		Solid State Cockpit Voice & Flight Data Recorder HONEYWELL AR COMBI (2 hrs CVR and 10 hrs FDR rec) [5]		
		UMS - complement of SSCVFDR (usage functions) - Ground station excluded		
08-16072-A	**08-16072-00-CI**	Third control panel for NAT Digital Audio Communication System NAT	**2.3**	**5.1**
08-17027-A	**08-17027-00-CI**	Passengers address NAT AA 20-431 with 6 loudspeakers	**4.5**	**9.9**
08-31025-A	**08-31025-00-CI**	Weather radar Telephonics RDR 1400 C with VRU, displayed on ND	**26.0**	**57.3**
08-35006-A	**08-35006-02-CI**	TAS Ryan 9900 BX (on 3" display and KMD 850 - not included)	**10.2**	**22.5**
08-35017-A	**08-35017-02-CI**	EGPWS Honeywell MK XXII (displayed on KMD850 - not included) [6]	**3.6**	**7.9**
08-43024-A	**08-43024-00-CI**	GPS [6] Freeflight TNL 2101 I/O Approach + linked with AFCS and ND	**3.1**	**6.8**
08-46012-A	**08-46012-00-CI**	Jeppesen map Honeywell KMD 850, linked to GPS [6-7]	**3.0**	**6.6**
08-83002-A	**08-83002-00-CI**	HUMS - complement of UMS (health functions)	**10.1**	**22.3**

1 ELT to be ordered separately (could be PLB 500-12 YF).
2 The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter delivery.
3 Requires GPS installation.
4 The mode S identification must be communicated by the Customer two months at the latest before the delivery.
5 Includes an underwater beacon.
6 The Customer must take out a subscription to the data base in order to use these optionals after having taken delivery of the helicopter.
7 No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.

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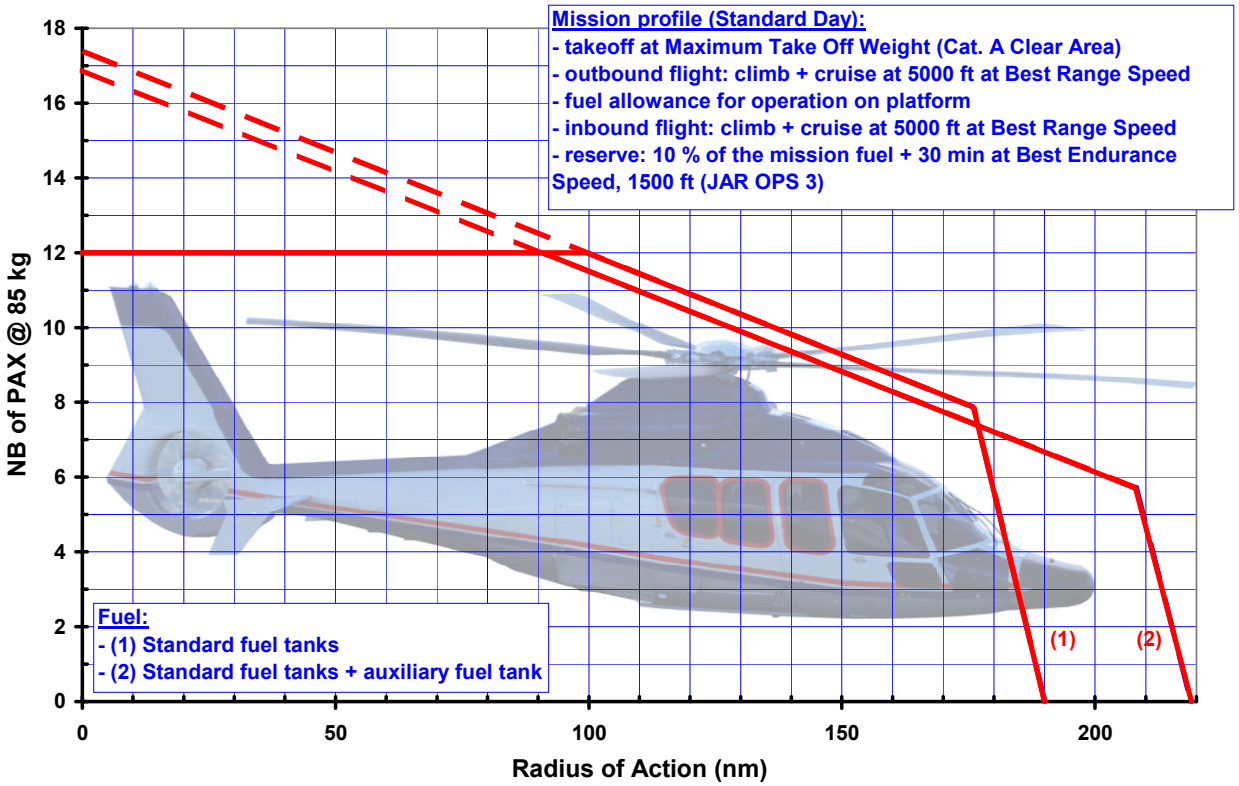
Weights

	kg	lb
■ **Empty weight, Oil & Gas *Offshore Configuration*** (including engine oil, unusable fuel and 2% margin)	3,089	6,810
■ **Pilots (2 x 85 kg, JAR OPS 3)**	170	375
■ **Maximum all-up weight**	4,920	10,846
■ **Useful load**	1,661	3,662
■ **Fuel tanks capacity**		
● **Standard fuel tanks**	993	2,189
● **Standard fuel tanks + auxiliary fuel tank**	1135	2,502

Payload / Radius of Action in Oil & Gas Offshore Configuration (ISA)



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4.2 - *EC155 B1* Passenger Transport Onshore Configuration

Document reference	**Commercial reference**	Name	**kg**	**lb**
00-10019-A	**00-10019-00-CI**	*EC155 B1* Baseline Aircraft (155 B1 08.100.01 E)	**2,619**	**5,774**
05-02036-A	**05-02036-00-CI**	Customized external paint – Level 2	**5.0**	**11.0**
05-03012-A	**05-03012-00-CI**	First aid kit - JAR OPS 3 compatible	**5.0**	**11.0**
05-27002-A	**05-27002-00-CI**	2nd fire extinguisher	**2.4**	**5.3**
06-41011-A	**06-41011-00-CI**	Under fuselage anti-collision strobe light	**1.0**	**2.2**
06-41012-A	**06-41012-00-CI**	Double red and white fin anti-collision light	**0.2**	**0.4**
06-67032-A	**06-67032-02-CI**	Emergency Locator Transmitter Kannad 406-AP with GPS connection [1.2]	**3.1**	**6.8**
07-25041-A	**07-25041-00-CI**	12-seat cabin layout with 3 points harnesses	**84.7**	**186.7**
07-30016-A	**07-30016-00-CI**	Additional upholstery	**16.3**	**35.9**
00-50014-B	**00-50014-01-CI**	*EC155 B1* Minimum Equipment Package *Including:* *VHF-AM Collins VHF-4000 n°1 - (including 8.33 khz channel spacing)* *VHF-AM Collins VHF-4000 n°2 - (including 8.33 khz channel spacing)* *Digital Audio Communication System NAT with 2 control panels* *David Clark H 10-13H headset (Qty 2)* *Mode S Transponder COLLINS TDR 94 D with flight ident function n°1* [3] *DME Collins DME - 4000 (displayed on ND)* *VOR/ILS/MKR - Collins NAV-4500 n°1 (displayed on ND)* *VOR/ILS/MKR/ADF - Collins NAV-4000 n°2 (displayed on ND)* *Solid State Cockpit Voice & Flight Data Recorder HONEYWELL AR COMBI (2 hrs CVR and 10 hrs FDR rec)* [4] *UMS - complement of SSCVFDR (usage functions) - Ground station excluded*	**57.6**	**127.0**
08-17027-A	**08-17027-00-CI**	Passengers address NAT AA 20-431 with 6 loudspeakers	**4.5**	**9.9**
08-31027-A	**08-31027-00-CI**	Weather radar HONEYWELL RDR 2000 with VRU, displayed on ND	**10.6**	**23.4**
08-35006-A	**08-35006-02-CI**	TAS Ryan 9900 BX (on 3" display and KMD 850 - not included)	**10.2**	**22.5**
08-35017-A	**08-35017-02-CI**	EGPWS Honeywell MK XXII (displayed on KMD850 - not included) [5]	**3.6**	**7.9**
08-43024-A	**08-43024-00-CI**	GPS [5] Freeflight TNL 2101 I/O Approach + linked with AFCS and ND	**3.1**	**6.8**
08-46012-A	**08-46012-00-CI**	Jeppesen map Honeywell KMD 850, linked to GPS [5-6]	**3.0**	**6.6**

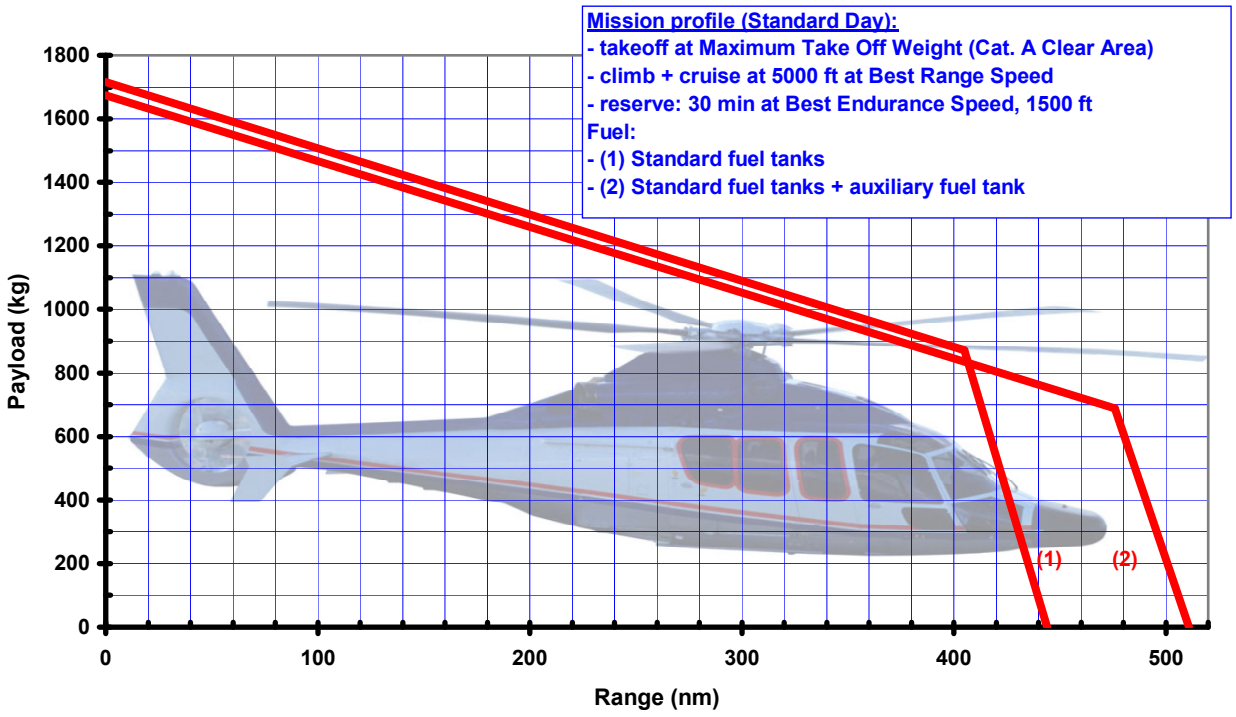
1 The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter delivery.
2 Requires GPS installation
3 The mode S identification must be communicated by the Customer two months at the latest before the delivery.
4 Includes an underwater beacon.
5 The Customer must take out a subscription to the data base in order to use these optionals after having taken delivery of the helicopter.
6 No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.

The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Weights

	kg	lb
■ **Empty weight, *Passenger Transport Onshore Configuration*** **(including engine oil, unusable fuel and 2% margin)**	2,886	6,362
■ **Pilots (2 x 85 kg, JAR OPS 3)**	170	375
■ **Maximum all-up weight**	4,920	10,846
■ **Useful load**	1,664	4,110
■ **Fuel tanks capacity**		
● **Standard fuel tanks**	993	2,189
● **Standard fuel tanks + auxiliary fuel tank**	1135	2,502

Payload / Range in Passenger Transport Mission Configuration (ISA)



The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

4.3 - *EC155 B1* 8-seat VIP Configuration

Document reference	**Commercial reference**	Name	**kg**	**lb**
00-10019-A	**00-10019-00-CI**	*EC155 B1* Baseline Aircraft (155 B1 08.100.01 E)	**2,619**	**5,774**
05-02036-A	**05-02036-00-CI**	Customized external paint – Level 2	**5.0**	**11.0**
05-31044-A	**05-31044-01-CI**	Limousine panes in the cabin (for hinged cabin door configuration)	**0.0**	**0.0**
05-38008-A	**05-38008-00-CI**	Single Pilot - IFR kit	**1.8**	**4.0**
05-41007-A	**05-41007-00-CI**	Triple injection heating system	**3.9**	**8.6**
05-42027-A	**05-42027-00-CI**	Air conditioning system (mechanically driven)	**30.5**	**67.2**
06-41011-A	**06-41011-00-CI**	Under fuselage anti-collision strobe light	**1.0**	**2.2**
06-41012-A	**06-41012-00-CI**	Double red and white fin anti-collision light	**0.2**	**0.4**
06-67032-A	**06-67032-02-CI**	Emergency Locator Transmitter KANNAD 406-AP with GPS connection [1-2]	**3.1**	**6.8**
07-50041-A	**07-50041-00-CI**	2 hinged cabin doors & 2 rear extensions (instead of the std sliding doors), 2 electrical footsteps	**43.5**	**95.9**
07-81004-A	**07-81004-00-CI**	8-seat VIP installation (4+4)	**343.4**	**757.1**
00-50014-B	**00-50014-01-CI**	*EC155 B1* Minimum Equipment Package	**57.6**	**127.0**
		Including:		
		VHF-AM Collins VHF-4000 n°1 - (including 8.33 khz channel spacing)		
		VHF-AM Collins VHF-4000 n°2 - (including 8.33 khz channel spacing)		
		Digital Audio Communication System NAT with 2 control panels		
		David Clark H 10-13H headset (Qty 2)		
		Mode S Transponder COLLINS TDR 94 D with flight ident function n°1 [3]		
		DME Collins DME - 4000 (displayed on MFD-255)		
		VOR/ILS/MKR - Collins NAV-4500 n°1 (displayed on ND)		
		VOR/ILS/MKR/ADF - Collins NAV-4000 n°2 (displayed on ND)		
		Solid State Cockpit Voice & Flight Data Recorder HONEYWELL AR COMBI (2 hrs CVR and 10 hrs FDR rec) [4]		
		UMS - complement of SSCVFDR (usage functions) - Ground station excluded		
08-17027-A	**08-17027-01-CI**	Passengers address NAT AA 20-431 with 4 loudspeakers	**3.5**	**7.7**
08-17060-A	**08-17060-02-CI**	Passenger interphone linked to DACS for VIP handset	**1.0**	**2.2**
08-17061-A	**08-17061-00-CI**	Passenger interphone linked to DACS for active noise cancelling headsets 2 x NAT AA-82	**1.6**	**3.5**
08-18029-A	**08-18029-00-CI**	Active noise canceling headsets Bose X (Qty 8)	**4.8**	**10.6**
08-18042-A	**08-18042-00-CI**	Two additional ICS jacks in cockpit for Bose Aviation X headsets (headsets excluded)	**0.1**	**0.2**
08-31027-A	**08-31027-00-CI**	Weather radar HONEYWELL RDR 2000 with VRU, displayed on ND	**10.6**	**23.4**
08-35006-A	**08-35006-02-CI**	TAS Ryan 9900 BX (on 3" display and KMD 850 - not included)	**10.2**	**22.5**
08-35017-A	**08-35017-02-CI**	EGPWS Honeywell MK XXII displayed on KMD850 (not included) [5]	**3.6**	**7.9**
08-43024-A	**08-43024-00-CI**	GPS [5] Freeflight TNL 2101 I/O Approach + linked with AFCS and ND	**3.1**	**6.8**
08-46012-A	**08-46012-00-CI**	Jeppesen map Honeywell KMD 850, linked to GPS [5-6]	**3.0**	**6.6**

1 *The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter delivery.*
2 *Requires GPS installation*
3 *The mode S identification must be communicated by the Customer two months at the latest before the delivery.*
4 *Includes an underwater beacon.*
5 *The Customer must take out a subscription to the data base in order to use these optionals after having taken delivery of the helicopter.*
6 *No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.*

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For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

The *EC155 B1* ***8-seat VIP Configuration*** accommodates up to 8 passengers in great comfort conditions.

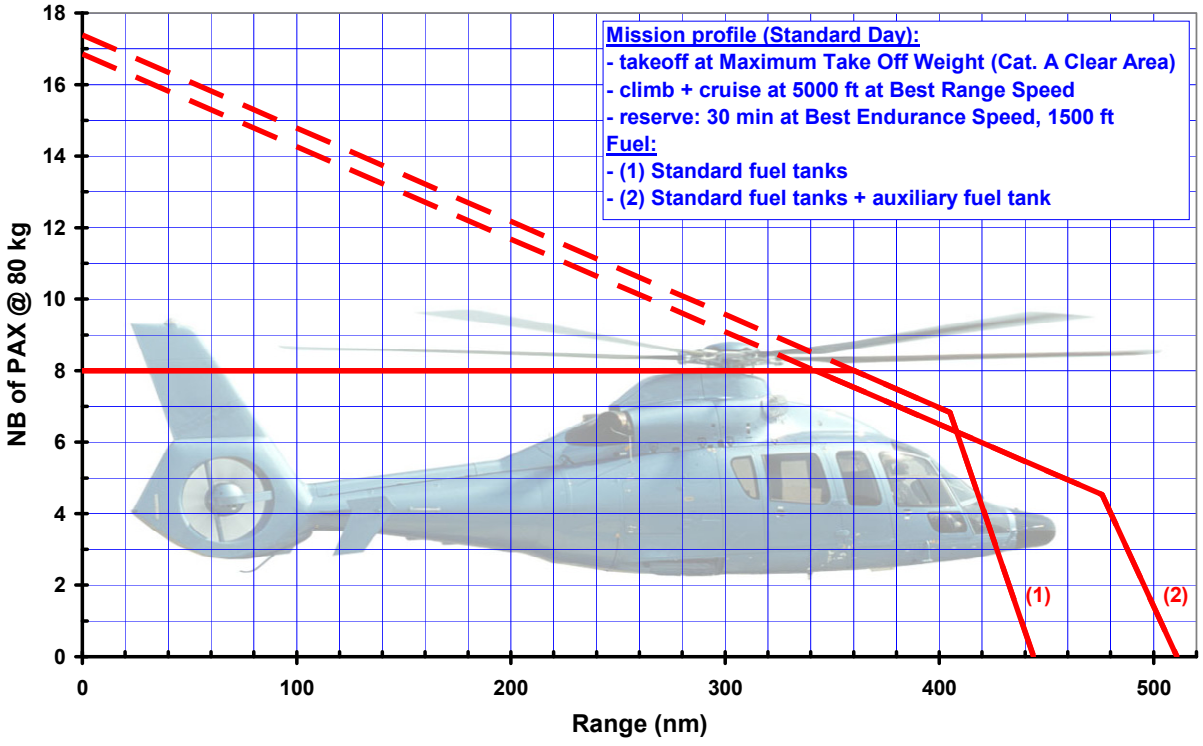
The cabin is fitted with specific enhanced sound proofing. A partition fitted with a sliding window isolates the cabin from the cockpit.

Two divans installed face-to-face accommodate comfortably 2 to 4 persons each. An optional video display may be installed in the central part of the divan structure.

Weights

	kg	lb
■ **Empty weight, *8-seat VIP Configuration*** **(including engine oil, unusable fuel and 2% margin)**	3,211	7,079
■ **Pilots (2 x 85 kg, JAR OPS 3)**	170	375
■ **Maximum all-up weight**	4,920	10,846
■ **Useful load**	1,539	3,393
■ **Fuel tanks capacity**		
● **Standard fuel tanks**	993	2,189
● **Standard fuel tanks + auxiliary fuel tank**	1135	2,502

Payload / Range in 8-seat VIP Configuration (ISA)



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For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

4.4 - *EC155 B1* 6-seat VIP Configuration (with 20-inch armchairs and galley)

Document reference	**Commercial reference**	Name	**kg**	**lb**
00-10019-A	**00-10019-00-CI**	*EC155 B1* Baseline Aircraft (155 B1 08.100.01 E)	**2,619**	**5,774**
05-02036-A	**05-02036-00-CI**	Customized external paint – Level 2	**5.0**	**11.0**
05-31044-A	**05-31044-01-CI**	Limousine panes in the cabin (for hinged cabin door configuration)	**0.0**	**0.0**
05-38008-A	**05-38008-00-CI**	Single Pilot - IFR kit	**1.8**	**4.0**
05-41007-A	**05-41007-00-CI**	Triple injection heating system	**3.9**	**8.6**
05-42027-A	**05-42027-00-CI**	Air conditioning system (mechanically driven)	**30.5**	**67.2**
06-41011-A	**06-41011-00-CI**	Under fuselage anti-collision strobe light	**1.0**	**2.2**
06-41012-A	**06-41012-00-CI**	Double red and white fin anti-collision light	**0.2**	**0.4**
06-67032-A	**06-67032-02-CI**	Emergency Locator Transmitter KANNAD 406-AP with GPS connection [1-2]	**3.1**	**6.8**
07-50041-A	**07-50041-00-CI**	2 hinged cabin doors & 2 rear extensions (instead of the std sliding doors), 2 electrical footsteps	**43.5**	**95.9**
07-81023-A	**07-81023-00-CI**	6-seat VIP installation with galley (4 + 2)	**339.4**	**748.2**
00-50014-B	**00-50014-01-CI**	*EC155 B1* Minimum Equipment Package	**57.6**	**127.0**
		Including: *VHF-AM Collins VHF-4000 n°1 - (including 8.33 khz channel spacing)* *VHF-AM Collins VHF-4000 n°2 - (including 8.33 khz channel spacing)* *Digital Audio Communication System NAT with 2 control panels* *David Clark H 10-13H headset (Qty 2)* *Mode S Transponder COLLINS TDR 94 D with flight ident function n°1* [3] *DME Collins DME - 4000 (displayed on ND)* *VOR/ILS/MKR - Collins NAV-4500 n°1 (displayed on ND)* *VOR/ILS/MKR/ADF - Collins NAV-4000 n°2 (displayed on ND)* *Solid State Cockpit Voice & Flight Data Recorder HONEYWELL AR COMBI (2 hrs CVR and 10 hrs FDR rec)* [4] *UMS - complement of SSCVFDR (usage functions) - Ground station excluded*		
08-17027-A	**08-17027-01-CI**	Passengers address NAT AA 20-431 with 4 loudspeakers	**3.5**	**7.7**
08-17060-A	**08-17060-02-CI**	Passenger interphone linked to DACS for VIP handset	**1.0**	**2.2**
08-17061-A	**08-17061-00-CI**	Passenger interphone linked to DACS for active noise cancelling headsets 2 x NAT AA-82	**1.6**	**3.5**
08-18029-A	**08-18029-00-CI**	Active noise canceling headsets Bose X (Qty 6)	**3.6**	**7.9**
08-18042-A	**08-18042-00-CI**	Two additional ICS jacks in cockpit for Bose Aviation X headsets (headsets excluded)	**0.1**	**0.2**
08-31027-A	**08-31027-00-CI**	Weather radar HONEYWELL RDR 2000 with VRU, displayed on ND	**10.6**	**23.4**
08-35006-A	**08-35006-02-CI**	TAS Ryan 9900 BX (on 3" display and KMD 850 - not included)	**10.2**	**22.5**
08-35017-A	**08-35017-02-CI**	EGPWS Honeywell MK XXII displayed on KMD850 (not included) [5]	**3.6**	**7.9**
08-43024-A	**08-43024-00-CI**	GPS [5] Freeflight TNL 2101 I/O Approach + linked with AFCS and ND	**3.1**	**6.8**
08-46012-A	**08-46012-00-CI**	Jeppesen map Honeywell KMD 850, linked to GPS [5-6]	**3.0**	**6.6**

1 The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter delivery.
2 Requires GPS installation
3 The mode S identification must be communicated by the Customer two months at the latest before the delivery.
4 Includes an underwater beacon.
5 The Customer must take out a subscription to the data base in order to use these optionals after having taken delivery of the helicopter.
6 No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.

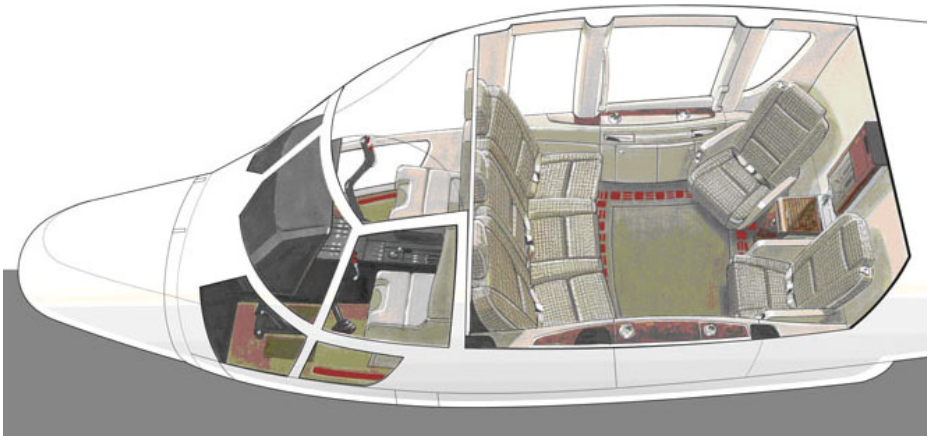
The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

The *EC155 B1* ***6-seat VIP Configuration (with 20-inch armchairs and galley)*** accommodates up to 6 passengers in great comfort conditions.

The cabin is fitted with specific enhanced sound proofing. A partition fitted with a sliding window isolates the cabin from the cockpit.

One 20-inch armchair is installed on each side of a galley fitted with a Peltier cooling compartment and stowages.

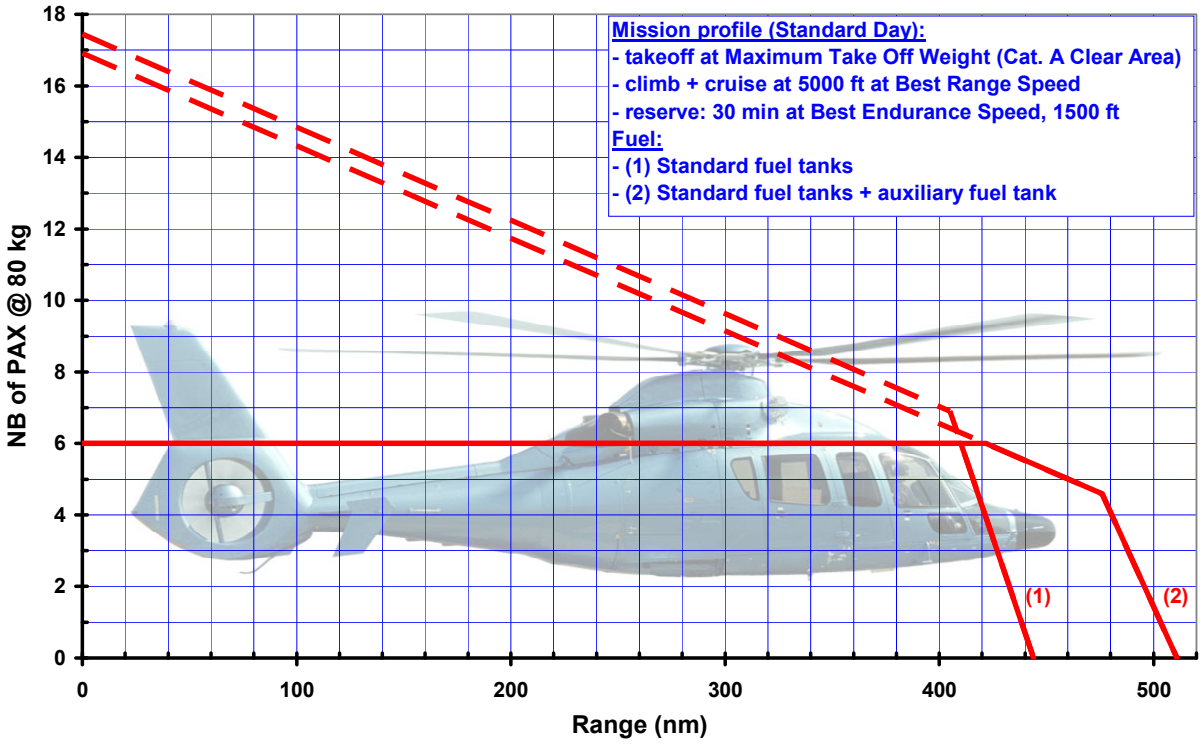
One divan accommodates comfortably 2 to 4 persons.



Weights

	kg	lb
■ **Empty weight, *6-seat VIP Configuration*** **(including engine oil, unusable fuel and 2% margin)**	3,206	7,067
■ **Pilots (2 x 85 kg, JAR OPS 3)**	170	375
■ **Maximum all-up weight**	4,920	10,846
■ **Useful load**	1,544	3,405
■ **Fuel tanks capacity**		
● **Standard fuel tanks**	993	2,189
● **Standard fuel tanks + auxiliary fuel tank**	1135	2,502

Payload / Range in 6-seat VIP Configuration (ISA)



The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

4.5 - *EC155 B1* 6-seat VIP Configuration (with 22-inch armchairs)

Document reference	**Commercial reference**	Name	**kg**	**lb**
00-10019-A	**00-10019-00-CI**	*EC155 B1* Baseline Aircraft (155 B1 08.100.01 E)	**2,619**	**5,774**
05-02036-A	**05-02036-00-CI**	Customized external paint – Level 2	**5.0**	**11.0**
05-31044-A	**05-31044-01-CI**	Limousine panes in the cabin (for hinged cabin door configuration)	**0.0**	**0.0**
05-38008-A	**05-38008-00-CI**	Single Pilot - IFR kit	**1.8**	**4.0**
05-41007-A	**05-41007-00-CI**	Triple injection heating system	**3.9**	**8.6**
05-42027-A	**05-42027-00-CI**	Air conditioning system (mechanically driven)	**30.5**	**67.2**
06-41011-A	**06-41011-00-CI**	Under fuselage anti-collision strobe light	**1.0**	**2.2**
06-41012-A	**06-41012-00-CI**	Double red and white fin anti-collision light	**0.2**	**0.4**
06-67032-A	**06-67032-02-CI**	Emergency Locator Transmitter KANNAD 406-AP with GPS connection [1-2]	**3.1**	**6.8**
07-50041-A	**07-50041-00-CI**	2 hinged cabin doors & 2 rear extensions (instead of the std sliding doors), 2 electrical footsteps	**43.5**	**95.9**
07-81024-A	**07-81024-00-CI**	6-seat VIP installation (4 + 2)	**324.1**	**714.5**
00-50014-B	**00-50014-01-CI**	*EC155 B1* Minimum Equipment Package	**57.6**	**127.0**
		Including: *VHF-AM Collins VHF-4000 n°1 - (including 8.33 khz channel spacing)* *VHF-AM Collins VHF-4000 n°2 - (including 8.33 khz channel spacing)* *Digital Audio Communication System NAT with 2 control panels* *David Clark H 10-13H headset (Qty 2)* *Mode S Transponder COLLINS TDR 94 D with flight ident function n°1* [3] *DME Collins DME - 4000 (displayed on ND)* *VOR/ILS/MKR - Collins NAV-4500 n°1 (displayed on ND)* *VOR/ILS/MKR/ADF - Collins NAV-4000 n°2 (displayed on ND)* *Solid State Cockpit Voice & Flight Data Recorder HONEYWELL AR COMBI (2 hrs CVR and 10 hrs FDR rec)* [4] *UMS - complement of SSCVFDR (usage functions) - Ground station excluded*		
08-17027-A	**08-17027-01-CI**	Passengers address NAT AA 20-431 with 4 loudspeakers	**3.5**	**7.7**
08-17060-A	**08-17060-02-CI**	Passenger interphone linked to DACS for VIP handset	**1.0**	**2.2**
08-17061-A	**08-17061-00-CI**	Passenger interphone linked to DACS for active noise cancelling headsets 2 x NAT AA-82	**1.6**	**3.5**
08-18029-A	**08-18029-00-CI**	Active noise canceling headsets Bose X (Qty 6)	**3.6**	**7.9**
08-18042-A	**08-18042-00-CI**	Two additional ICS jacks in cockpit for Bose Aviation X headsets (headsets excluded)	**0.1**	**0.2**
08-31027-A	**08-31027-00-CI**	Weather radar HONEYWELL RDR 2000 with VRU, displayed on ND	**10.6**	**23.4**
08-35006-A	**08-35006-02-CI**	TAS Ryan 9900 BX (on 3" display and KMD 850 - not included)	**10.2**	**22.5**
08-35017-A	**08-35017-02-CI**	EGPWS Honeywell MK XXII displayed on KMD850 (not included) [5]	**3.6**	**7.9**
08-43024-A	**08-43024-00-CI**	GPS [5] Freeflight TNL 2101 I/O Approach + linked with AFCS and ND	**3.1**	**6.8**
08-46012-A	**08-46012-00-CI**	Jeppesen map Honeywell KMD 850, linked to GPS [5-6]	**3.0**	**6.6**

1 The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter delivery.
2 Requires GPS installation
3 The mode S identification must be communicated by the Customer two months at the latest before the delivery.
4 Includes an underwater beacon.
5 The Customer must take out a subscription to the data base in order to use these optionals after having taken delivery of the helicopter.
6 No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.

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For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

The *EC155 B1* ***6-seat VIP Configuration (with 22-inch armchairs)*** accommodates up to 6 passengers in great comfort conditions.

The cabin is fitted with specific enhanced sound proofing. A partition fitted with a sliding window isolates the cabin from the cockpit.

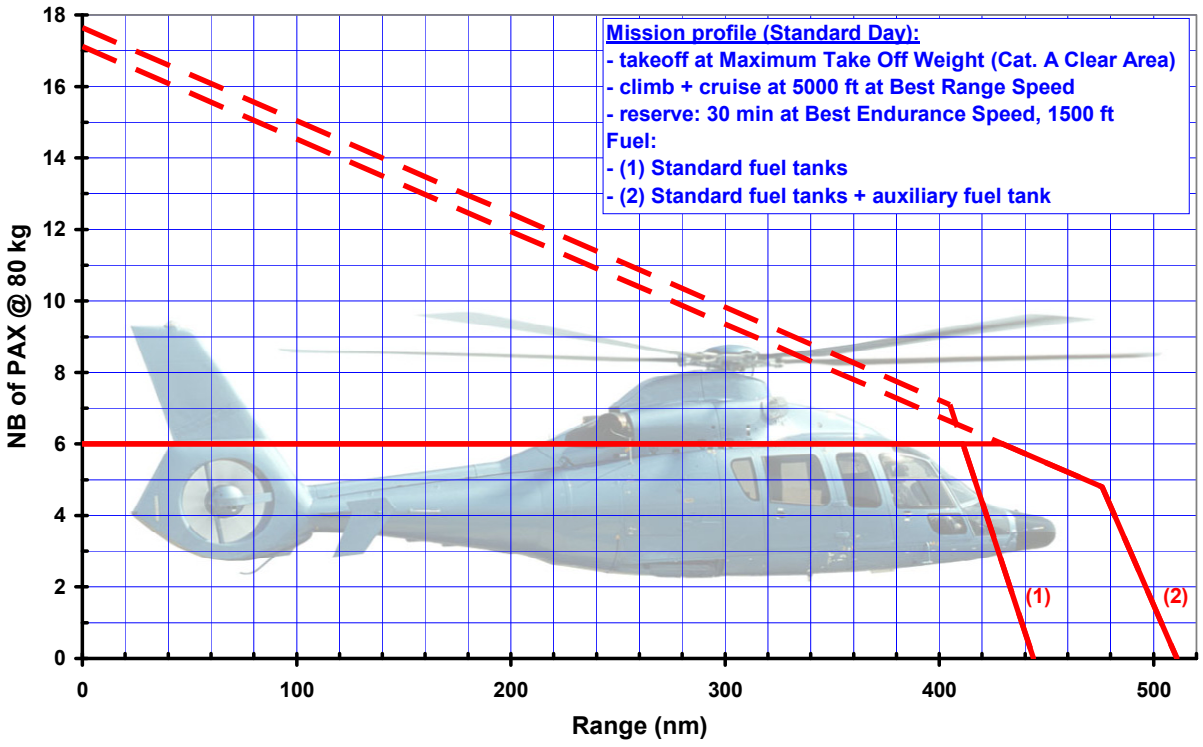
Two 22-inch armchairs are installed in the rear part of the cabin.

One divan accommodates comfortably 2 to 4 persons each.

Weights

	kg	lb
■ **Empty weight, *6-seat VIP Configuration*** **(including engine oil, unusable fuel and 2% margin)**	3,190	7,033
■ **Pilots (2 x 85 kg, JAR OPS 3)**	170	375
■ **Maximum all-up weight**	4,920	10,846
■ **Useful load**	1,560	3,439
■ **Fuel tanks capacity**		
● **Standard fuel tanks**	993	2,189
● **Standard fuel tanks + auxiliary fuel tank**	1135	2,502

Payload / Range in 6-seat VIP Configuration (ISA)



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For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

4.6 - *EC155 B1* 6-seat VIP Configuration (1 divan - rear and 2 armchairs - front)

Document reference	**Commercial reference**	Name	**kg**	**lb**
00-10019-A	**00-10019-00-CI**	*EC155 B1* Baseline Aircraft (155 B1 08.100.01 E)	**2,619**	**5,774**
05-02036-A	**05-02036-00-CI**	Customized external paint – Level 2	**5.0**	**11.0**
05-31044-A	**05-31044-01-CI**	Limousine panes in the cabin (for hinged cabin door configuration)	**0.0**	**0.0**
05-38008-A	**05-38008-00-CI**	Single Pilot - IFR kit	**1.8**	**4.0**
05-41007-A	**05-41007-00-CI**	Triple injection heating system	**3.9**	**8.6**
05-42027-A	**05-42027-00-CI**	Air conditioning system (mechanically driven)	**30.5**	**67.2**
06-41011-A	**06-41011-00-CI**	Under fuselage anti-collision strobe light	**1.0**	**2.2**
06-41012-A	**06-41012-00-CI**	Double red and white fin anti-collision light	**0.2**	**0.4**
06-67032-A	**06-67032-02-CI**	Emergency Locator Transmitter KANNAD 406-AP with GPS connection [1.2]	**3.1**	**6.8**
07-50041-A	**07-50041-00-CI**	2 hinged cabin doors & 2 rear extensions (instead of the std sliding doors), 2 electrical footsteps	**43.5**	**95.9**
07-81040-A	**07-81040-00-CI**	6-seat VIP installation with galley (2 + 4)	**301.9**	**665.3**
00-50014-B	**00-50014-01-CI**	*EC155 B1* Minimum Equipment Package	**57.6**	**127.0**
		Including: *VHF-AM Collins VHF-4000 n°1 - (including 8.33 khz channel spacing)* *VHF-AM Collins VHF-4000 n°2 - (including 8.33 khz channel spacing)* *Digital Audio Communication System NAT with 2 control panels* *David Clark H 10-13H headset (Qty 2)* *Mode S Transponder COLLINS TDR 94 D with flight ident function n°1* [3] *DME Collins DME - 4000 (displayed on ND)* *VOR/ILS/MKR - Collins NAV-4500 n°1 (displayed on ND)* *VOR/ILS/MKR/ADF - Collins NAV-4000 n°2 (displayed on ND)* *Solid State Cockpit Voice & Flight Data Recorder HONEYWELL AR COMBI (2 hrs CVR and 10 hrs FDR rec)* [4] *UMS - complement of SSCVFDR (usage functions) - Ground station excluded*		
08-17027-A	**08-17027-01-CI**	Passengers address NAT AA 20-431 with 4 loudspeakers	**3.5**	**7.7**
08-17060-A	**08-17060-02-CI**	Passenger interphone linked to DACS for VIP handset	**1.0**	**2.2**
08-17061-A	**08-17061-00-CI**	Passenger interphone linked to DACS for active noise cancelling headsets 2 x NAT AA-82	**1.6**	**3.5**
08-18029-A	**08-18029-00-CI**	Active noise canceling headsets Bose X (Qty 6)	**3.6**	**7.9**
08-18042-A	**08-18042-00-CI**	Two additional ICS jacks in cockpit for Bose Aviation X headsets (headsets excluded)	**0.1**	**0.2**
08-31027-A	**08-31027-00-CI**	Weather radar HONEYWELL RDR 2000 with VRU, displayed on ND	**10.6**	**23.4**
08-35006-A	**08-35006-02-CI**	TAS Ryan 9900 BX (on 3" display and KMD 850 - not included)	**10.2**	**22.5**
08-35017-A	**08-35017-02-CI**	EGPWS Honeywell MK XXII displayed on KMD850 (not included) [5]	**3.6**	**7.9**
08-43024-A	**08-43024-00-CI**	GPS [5] Freeflight TNL 2101 I/O Approach + linked with AFCS and ND	**3.1**	**6.8**
08-46012-A	**08-46012-00-CI**	Jeppesen map Honeywell KMD 850, linked to GPS [5-6]	**3.0**	**6.6**

1 The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter delivery.
2 Requires GPS installation
3 The mode S identification must be communicated by the Customer two months at the latest before the delivery.
4 Includes an underwater beacon.
5 The Customer must take out a subscription to the data base in order to use these optionals after having taken delivery of the helicopter.
6 No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.

The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

The *EC155 B1* ***6-seat VIP Configuration (with 1 divan – rear and 2 armchairs - front)*** accommodates up to 6 passengers in great comfort conditions.

The cabin is fitted with specific enhanced sound proofing.

One divan, installed in the rear part of the cabin, accommodates comfortably 2 to 4 persons each thanks to foldable armrests / central backrest.

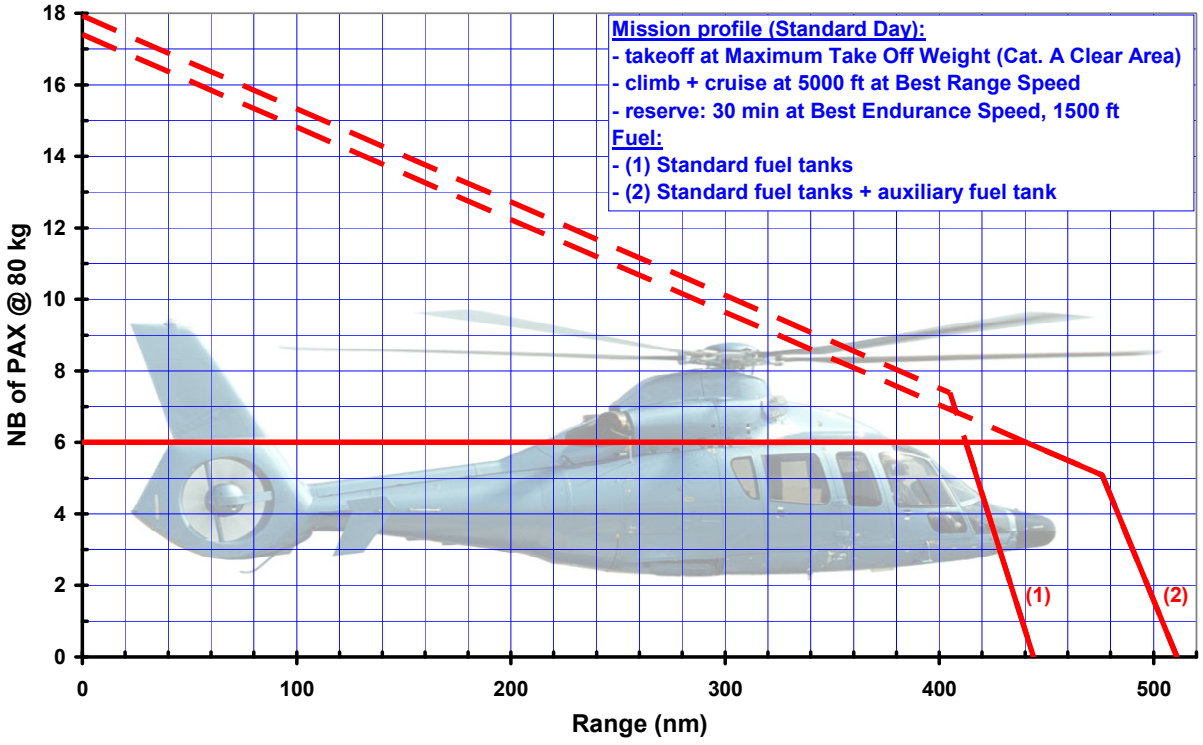
Two pivoting armchairs are installed in the front part of the cabin.

One mid height cross cabin galley separates the cabin from the cockpit. It is fitted with two drawers, a laptop compartment, two magazine holders and two drink holders.

Weights

	kg	lb
■ **Empty weight, *6 seat VIP Configuration*** **(including engine oil, unusable fuel and 2% margin)**	3,166	6,981
■ **Pilots (2 x 85 kg, JAR OPS 3)**	170	375
■ **Maximum all-up weight**	4,920	10,846
■ **Useful load**	1,584	3,491
■ **Fuel tanks capacity**		
● **Standard fuel tanks**	993	2,189
● **Standard fuel tanks + auxiliary fuel tank**	1135	2,502

Payload / Range in 6-seat VIP Configuration (ISA)



The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

4.7 - *EC155 B1* 7-seat VIP Configuration

Document reference	**Commercial reference**	Name	**kg**	**lb**
00-10019-A	**00-10019-00-CI**	*EC155 B1* Baseline Aircraft (155 B1 08.100.01 E)	**2,619**	**5,774**
05-02036-A	**05-02036-00-CI**	Customized external paint – Level 2	**5.0**	**11.0**
05-31044-A	**05-31044-01-CI**	Limousine panes in the cabin (for hinged cabin door configuration)	**0.0**	**0.0**
05-38008-A	**05-38008-00-CI**	Single Pilot - IFR kit	**1.8**	**4.0**
05-41007-A	**05-41007-00-CI**	Triple injection heating system	**3.9**	**8.6**
05-42027-A	**05-42027-00-CI**	Air conditioning system (mechanically driven)	**30.5**	**67.2**
06-41011-A	**06-41011-00-CI**	Under fuselage anti-collision strobe light	**1.0**	**2.2**
06-41012-A	**06-41012-00-CI**	Double red and white fin anti-collision light	**0.2**	**0.4**
06-67032-A	**06-67032-02-CI**	Emergency Locator Transmitter KANNAD 406-AP with GPS connection [1-2]	**3.1**	**6.8**
07-50041-A	**07-50041-00-CI**	2 hinged cabin doors & 2 rear extensions (instead of the std sliding doors), 2 electrical footsteps	**43.5**	**95.9**
07-81028-A	**07-81028-00-CI**	7-seat VIP installation (3 + 4)	**299.9**	**661.2**
00-50014-B	**00-50014-01-CI**	*EC155 B1* Minimum Equipment Package	**57.6**	**127.0**
		Including: *VHF-AM Collins VHF-4000 n°1 - (including 8.33 khz channel spacing)* *VHF-AM Collins VHF-4000 n°2 - (including 8.33 khz channel spacing)* *Digital Audio Communication System NAT with 2 control panels* *David Clark H 10-13H headset (Qty 2)* *Mode S Transponder COLLINS TDR 94 D with flight ident function n°1* [3] *DME Collins DME - 4000 (displayed on ND)* *VOR/ILS/MKR - Collins NAV-4500 n°1 (displayed on ND)* *VOR/ILS/MKR/ADF - Collins NAV-4000 n°2 (displayed on ND)* *Solid State Cockpit Voice & Flight Data Recorder HONEYWELL AR COMBI (2 hrs CVR and 10 hrs FDR rec)* [4] *UMS - complement of SSCVFDR (usage functions) - Ground station excluded*		
08-17027-A	**08-17027-01-CI**	Passengers address NAT AA 20-431 with 4 loudspeakers	**3.5**	**7.7**
08-17060-A	**08-17060-02-CI**	Passenger interphone linked to DACS for VIP handset	**1.0**	**2.2**
08-17061-A	**08-17061-00-CI**	Passenger interphone linked to DACS for active noise cancelling headsets 2 x NAT AA-82	**1.6**	**3.5**
08-18029-A	**08-18029-00-CI**	Active noise canceling headsets Bose X (Qty 7)	**4.2**	**9.3**
08-18042-A	**08-18042-00-CI**	Two additional ICS jacks in cockpit for Bose Aviation X headsets (headsets excluded)	**0.1**	**0.2**
08-31027-A	**08-31027-00-CI**	Weather radar HONEYWELL RDR 2000 with VRU, displayed on ND	**10.6**	**23.4**
08-35006-A	**08-35006-02-CI**	TAS Ryan 9900 BX (on 3" display and KMD 850 - not included)	**10.2**	**22.5**
08-35017-A	**08-35017-02-CI**	EGPWS Honeywell MK XXII displayed on KMD850 (not included) [5]	**3.6**	**7.9**
08-43024-A	**08-43024-00-CI**	GPS [5] Freeflight TNL 2101 I/O Approach + linked with AFCS and ND	**3.1**	**6.8**
08-46012-A	**08-46012-00-CI**	Jeppesen map Honeywell KMD 850, linked to GPS [5-6]	**3.0**	**6.6**

1 The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter delivery.
2 Requires GPS installation
3 The mode S identification must be communicated by the Customer two months at the latest before the delivery.
4 Includes an underwater beacon.
5 The Customer must take out a subscription to the data base in order to use these optionals after having taken delivery of the helicopter.
6 No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.

The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

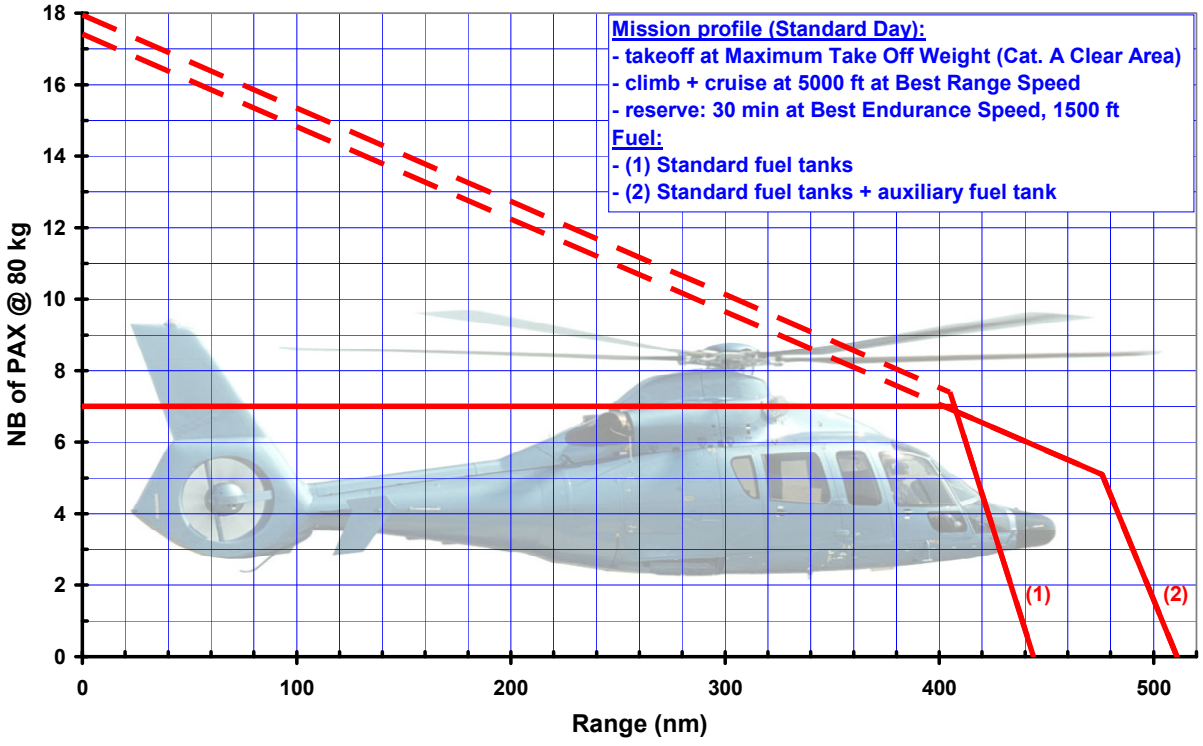
The *EC155 B1* ***7-seat VIP Configuration*** accommodates up to 7 passengers in great comfort conditions.

The cabin is fitted with specific enhanced sound proofing. One divan, installed in the rear part of the cabin, accommodates comfortably 2 to 4 persons. Three seats are provided to be installed in the front part of the cabin, either 2 facing aft or 3 facing rear.

Weights

	kg	lb
■ **Empty weight, *7-seat VIP Configuration*** **(including engine oil, unusable fuel and 2% margin)**	3,165	6,977
■ **Pilots (2 x 85 kg, JAR OPS 3)**	170	375
■ **Maximum all-up weight**	4,920	10,846
■ **Useful load**	1,585	3,494
■ **Fuel tanks capacity**		
● **Standard fuel tanks**	993	2,189
● **Standard fuel tanks + auxiliary fuel tank**	1135	2,502

Payload / Range in 7-seat VIP Configuration (ISA)



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For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

4.8 - *EC155 B1* 6-seat Corporate Configuration

Document reference	**Commercial reference**	Name	**kg**	**lb**
00-10019-A	**00-10019-00-CI**	*EC155 B1* Baseline Aircraft (155 B1 08.100.01 E)	**2,619**	**5,774**
05-02036-A	**05-02036-00-CI**	Customized external paint – Level 2	**5.0**	**11.0**
05-31096-A	**05-31096-00-CI**	Limousine panes in the cabin (for sliding cabin door configuration)	**0.0**	**0.0**
05-38008-A	**05-38008-00-CI**	Single Pilot - IFR kit	**1.8**	**4.0**
05-41007-A	**05-41007-00-CI**	Triple injection heating system	**3.9**	**8.6**
05-42027-A	**05-42027-00-CI**	Air conditioning system (mechanically driven)	**30.5**	**67.2**
06-41011-A	**06-41011-00-CI**	Under fuselage anti-collision strobe light	**1.0**	**2.2**
06-41012-A	**06-41012-00-CI**	Double red and white fin anti-collision light	**0.2**	**0.4**
06-67032-A	**06-67032-02-CI**	Emergency Locator Transmitter KANNAD 406-AP with GPS connection [1-2]	**2.4**	**5.3**
07-81025-A	**07-81025-00-CI**	6-seat Corporate installation (2 + 4)	**188.6**	**415.8**
00-50014-B	**00-50014-01-CI**	*EC155 B1* Minimum Equipment Package	**57.6**	**127.0**
		Including:		
		VHF-AM Collins VHF-4000 n°1 - (including 8.33 khz channel spacing)		
		VHF-AM Collins VHF-4000 n°2 - (including 8.33 khz channel spacing)		
		Digital Audio Communication System NAT with 2 control panels		
		David Clark H 10-13H headset (Qty 2)		
		Mode S Transponder COLLINS TDR 94 D with flight ident function n°1 [3]		
		DME Collins DME - 4000 (displayed on ND)		
		VOR/ILS/MKR - Collins NAV-4500 n°1 (displayed on ND)		
		VOR/ILS/MKR/ADF - Collins NAV-4000 n°2 (displayed on ND)		
		Solid State Cockpit Voice & Flight Data Recorder HONEYWELL AR COMBI (2 hrs CVR and 10 hrs FDR rec) [4]		
		UMS - complement of SSCVFDR (usage functions) - Ground station excluded		
08-17027-A	**08-17027-00-CI**	Passengers address NAT AA 20-431 with 6 loudspeakers	**4.5**	**9.9**
08-17061-A	**08-17061-00-CI**	Passenger interphone linked to DACS for active noise cancelling headsets 2 x NAT AA-82	**1.6**	**3.5**
08-18029-A	**08-18029-00-CI**	Active noise canceling headsets Bose X (Qty 6)	**3.6**	**7.9**
08-18042-A	**08-18042-00-CI**	Two additional ICS jacks in cockpit for Bose Aviation X headsets (headsets excluded)	**0.1**	**0.2**
08-31027-A	**08-31027-00-CI**	Weather radar HONEYWELL RDR 2000 with VRU, displayed on ND	**10.6**	**23.4**
08-35006-A	**08-35006-02-CI**	TAS Ryan 9900 BX (on 3" display and KMD 850 - not included)	**10.2**	**22.5**
08-35017-A	**08-35017-02-CI**	EGPWS Honeywell MK XXII displayed on KMD850 (not included) [5]	**3.6**	**7.9**
08-43024-A	**08-43024-00-CI**	GPS [5] Freeflight TNL 2101 I/O Approach + linked with AFCS and ND	**3.1**	**6.8**
08-46012-A	**08-46012-00-CI**	Jeppesen map Honeywell KMD 850, linked to GPS [5-6]	**3.0**	**6.6**

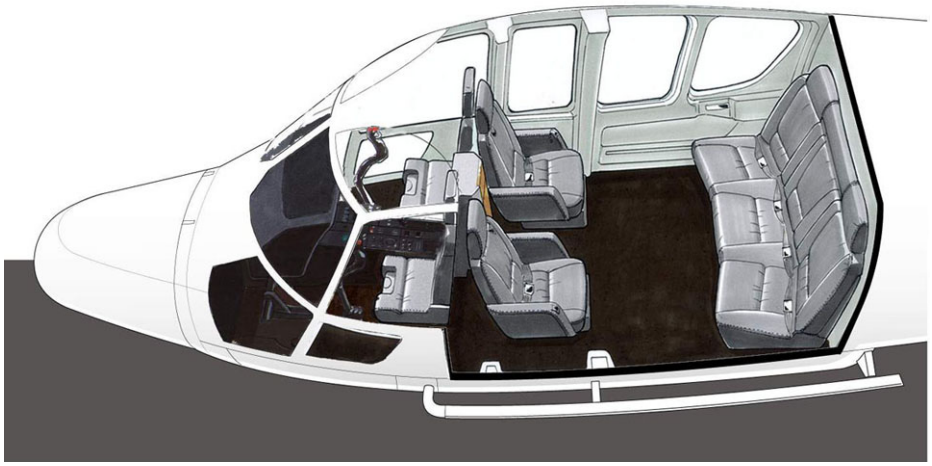
1 The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter delivery.
2 Requires GPS installation
3 The mode S identification must be communicated by the Customer two months at the latest before the delivery.
4 Includes an underwater beacon.
5 The Customer must take out a subscription to the data base in order to use these optionals after having taken delivery of the helicopter.
6 No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.

The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

The *EC155 B1* ***6-seat Corporate Configuration*** accommodates up to 6 passengers in excellent comfort conditions.

The cabin is fitted with additional upholstery, painted in harmony with the seats upholstery. It can be fitted with leather cladding as an option.

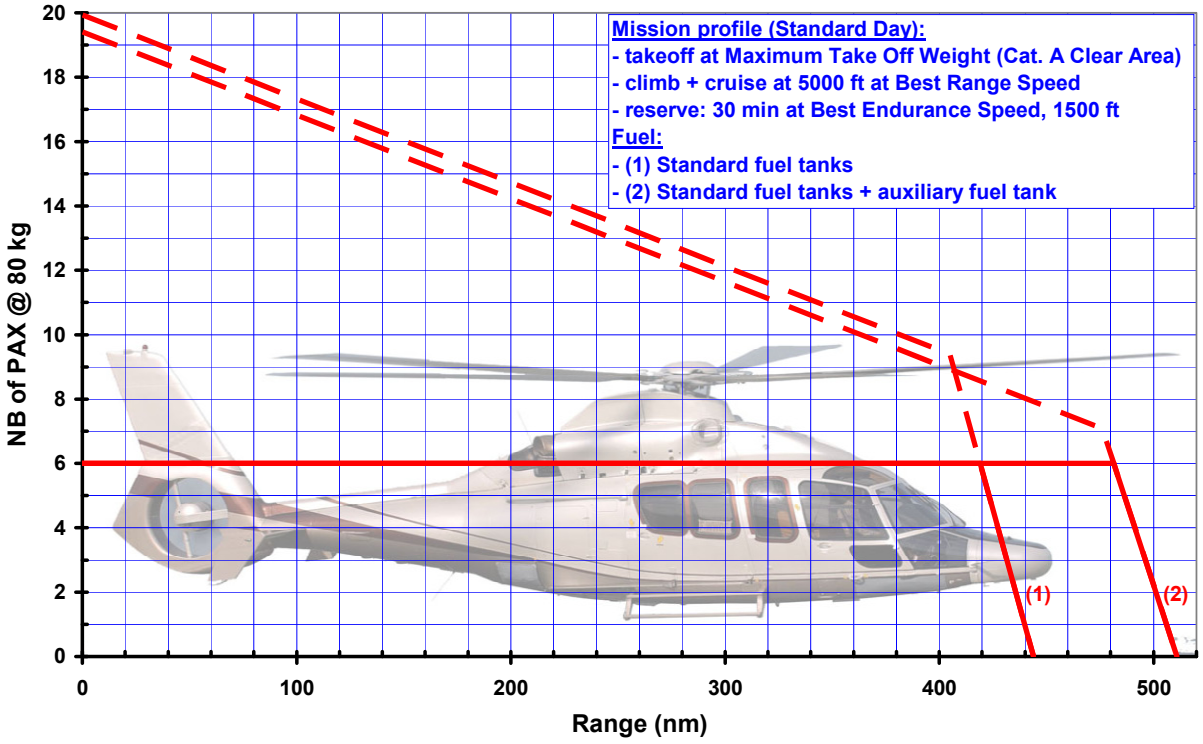
The rear divan accommodates comfortably 2 to 4 persons. Two pivoting armchairs and a galley are installed in the front part of the cabin.



Weights

	kg	lb
■ **Empty weight, *6-seat Corporate Configuration*** **(including engine oil, unusable fuel and 2% margin)**	3,007	6,629
■ **Pilots (2 x 85 kg, JAR OPS 3)**	170	375
■ **Maximum all-up weight**	4,920	10,846
■ **Useful load**	1,743	3,843
■ **Fuel tanks capacity**		
● **Standard fuel tanks**	993	2,189
● **Standard fuel tanks + auxiliary fuel tank**	1135	2,502

Payload / Range in 6-seat Corporate Configuration (ISA)



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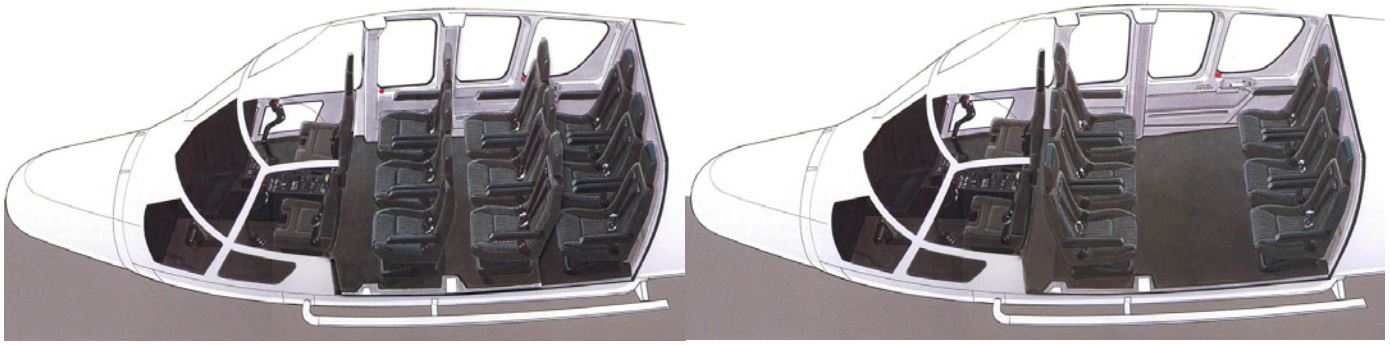
4.9 - *EC155 B1* 9-seat Corporate Configuration

Document reference	**Commercial reference**	Name	**kg**	**lb**
00-10019-A	**00-10019-00-CI**	*EC155 B1* Baseline Aircraft (155 B1 08.100.01 E)	**2,619**	**5,774**
05-02036-A	**05-02036-00-CI**	Customized external paint – Level 2	**5.0**	**11.0**
05-31096-A	**05-31096-00-CI**	Limousine panes in the cabin (for sliding cabin door configuration)	**0.0**	**0.0**
05-38008-A	**05-38008-00-CI**	Single Pilot - IFR kit	**1.8**	**4.0**
05-41007-A	**05-41007-00-CI**	Triple injection heating system	**3.9**	**8.6**
05-42027-A	**05-42027-00-CI**	Air conditioning system (mechanically driven)	**30.5**	**67.2**
06-41011-A	**06-41011-00-CI**	Under fuselage anti-collision strobe light	**1.0**	**2.2**
06-41012-A	**06-41012-00-CI**	Double red and white fin anti-collision light	**0.2**	**0.4**
06-67032-A	**06-67032-02-CI**	Emergency Locator Transmitter KANNAD 406-AP with GPS connection [1-2]	**2.4**	**5.3**
07-81027-A	**07-81027-00-CI**	9-seat Corporate installation (3 x 3)	**219.3**	**483.5**
00-50014-B	**00-50014-01-CI**	*EC155 B1* Minimum Equipment Package *Including:* *VHF-AM Collins VHF-4000 n°1 - (including 8.33 khz channel spacing)* *VHF-AM Collins VHF-4000 n°2 - (including 8.33 khz channel spacing)* *Digital Audio Communication System NAT with 2 control panels* *David Clark H 10-13H headset (Qty 2)* *Mode S Transponder COLLINS TDR 94 D with flight ident function n°1* [3] *DME Collins DME - 4000 (displayed on ND)* *VOR/ILS/MKR - Collins NAV-4500 n°1 (displayed on ND)* *VOR/ILS/MKR/ADF - Collins NAV-4000 n°2 (displayed on ND)* *Solid State Cockpit Voice & Flight Data Recorder HONEYWELL AR COMBI (2 hrs CVR and 10 hrs FDR rec)* [4] *UMS - complement of SSCVFDR (usage functions) - Ground station excluded*	**57.6**	**127.0**
08-17027-A	**08-17027-00-CI**	Passengers address NAT AA 20-431 with 6 loudspeakers	**4.5**	**9.9**
08-17061-A	**08-17061-00-CI**	Passenger interphone linked to DACS for active noise cancelling headsets 2 x NAT AA-82	**1.6**	**3.5**
08-18029-A	**08-18029-00-CI**	Active noise canceling headsets Bose X (Qty 9)	**5.4**	**11.9**
08-18042-A	**08-18042-00-CI**	Two additional ICS jacks in cockpit for Bose Aviation X headsets (headsets excluded)	**0.1**	**0.2**
08-31027-A	**08-31027-00-CI**	Weather radar HONEYWELL RDR 2000 with VRU, displayed on ND	**10.6**	**23.4**
08-35006-A	**08-35006-02-CI**	TAS Ryan 9900 BX (on 3" display and KMD 850 - not included)	**10.2**	**22.5**
08-35017-A	**08-35017-02-CI**	EGPWS Honeywell MK XXII displayed on KMD850 (not included) [5]	**3.6**	**7.9**
08-43024-A	**08-43024-00-CI**	GPS [5] Freeflight TNL 2101 I/O Approach + linked with AFCS and ND	**3.1**	**6.8**
08-46012-A	**08-46012-00-CI**	Jeppesen map Honeywell KMD 850, linked to GPS [5-6]	**3.0**	**6.6**

1 The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter delivery.
2 Requires GPS installation
3 The mode S identification must be communicated by the Customer two months at the latest before the delivery.
4 Includes an underwater beacon.
5 The Customer must take out a subscription to the data base in order to use these optionals after having taken delivery of the helicopter.
6 No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.

The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

The *EC155 B1* ***9-seat Corporate Configuration*** accommodates up to 9 passengers in excellent comfort conditions.

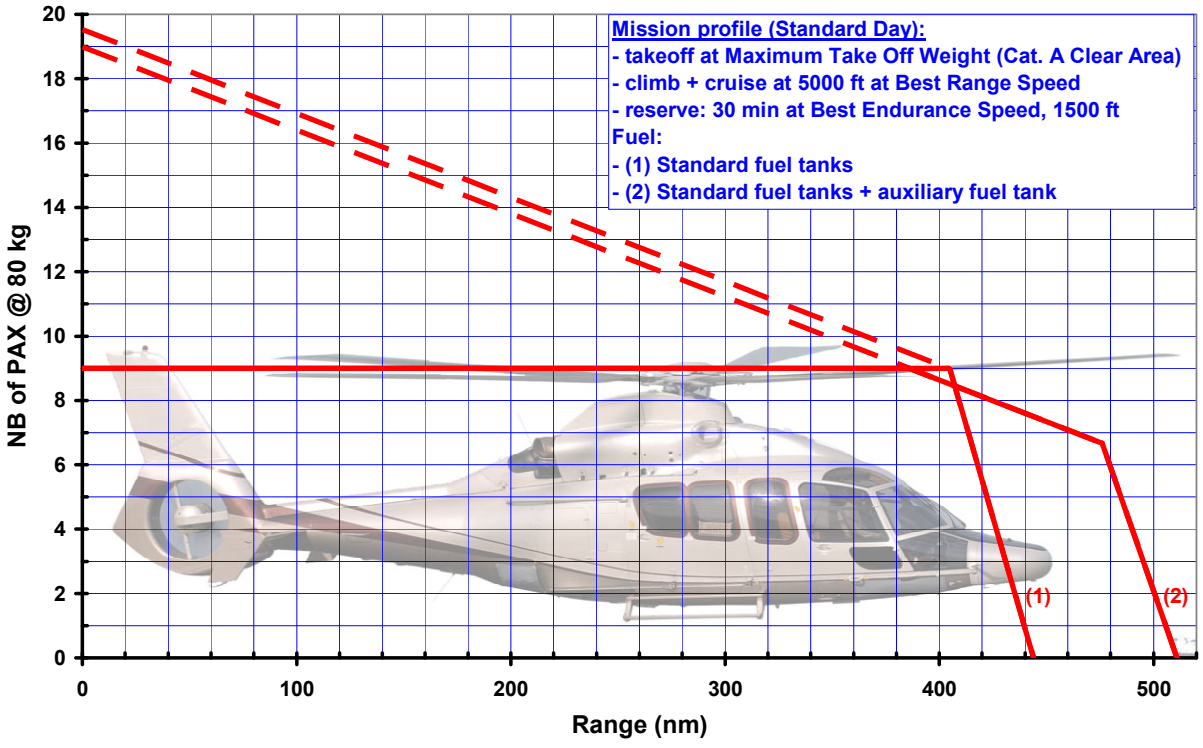


The cabin is fitted with additional upholstery, painted in harmony with the seats upholstery. It can be fitted with leather cladding as an option. The 9 seats are fitted with a 3-point harness, a headrest and armrests. They are installed in three rows. As an alternate layout, the front seats may be installed facing backwards.

Weights

	kg	lb
■ **Empty weight, *9-seat Corporate Configuration*** **(including engine oil, unusable fuel and 2% margin)**	3,040	6,702
■ **Pilots (2 x 85 kg, JAR OPS 3)**	170	375
■ **Maximum all-up weight**	4,920	10,846
■ **Useful load**	1,710	3,770
■ **Fuel tanks capacity**		
● **Standard fuel tanks**	993	2,189
● **Standard fuel tanks + auxiliary fuel tank**	1135	2,502

Payload / Range in 9-seat Corporate Configuration (ISA)



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For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

4.10 - *EC155 B1* Public Services Configuration

Document reference	**Commercial reference**	Name	**kg**	**lb**
00-10019-A	**00-10019-00-CI**	*EC155 B1* Baseline Aircraft (155 B1 08.100.01 E)	**2,619**	**5,774**
05-02036-A	**05-02036-00-CI**	Customized external paint – Level 2	**5.0**	**11.0**
05-38008-A	**05-38008-00-CI**	Single Pilot IFR kit	**1.8**	**4.0**
06-21009-A	**06-21009-00-FP**	Goodrich Class 2 electrical hoist (272 kg - 90 m) - Fixed-Parts	**4.4**	**9.7**
06-24013-A	**06-24013-00-FP**	Rappelling (ropes are not included) - Fixed Parts	**3.0**	**6.6**
06-27021-A	**06-27021-00-FP**	Cargo sling with dynamometer and electrical mirror (1,600 kg - 3,527 lb) - Fixed Parts	**6.9**	**15.2**
06-31020-A	**06-31020-00-FP**	Electrical hailer with siren for Passenger Address system - Fixed Parts[1]	**6.2**	**13.7**
06-41011-A	**06-41011-00-CI**	Under fuselage anti-collision strobe light	**1.0**	**2.2**
06-41012-A	**06-41012-00-CI**	Double red and white fin anti-collision light	**0.2**	**0.4**
06-45008-A	**06-45008-00-FP**	SPECTROLAB SX-16 searchlight- Fixed Parts	**4.8**	**10.6**
06-67032-A	**06-67032-00-CI**	Emergency Locator Transmitter Kannad 406-AP [2]	**2.4**	**5.3**
07-25041-A	**07-25041-00-CI**	12-seat cabin layout with 3 points harnesses	**84.7**	**186.7**
00-50016-B	**00-50016-01-CI**	*EC155 B1* Minimum Equipment Package	**42.1**	**92.8**
		Including:		
		VHF-AM Collins VHF-4000 n°1 - (including 8.33 khz channel spacing)		
		VHF-AM Collins VHF-4000 n°2 - (including 8.33 khz channel spacing)		
		Digital Audio Communication System NAT with 2 control panels		
		David Clark H 10-13H headset (Qty 2)		
		Mode S Transponder COLLINS TDR 94 D with flight ident function n°1 [3]		
		DME Collins DME - 4000 (displayed on ND)		
		VOR/ILS/MKR - Collins NAV-4500 n°1 (displayed on ND)		
		VOR/ILS/MKR/ADF - Collins NAV-4000 n°2 (displayed on ND)		
08-16072-A	**08-16072-00-CI**	Third control panel for NAT Digital Audio Communication System NAT	**2.3**	**5.1**
08-17046-A	**08-17046-00-CI**	Passengers address NAT AA 21-400 with 6 loudspeakers for external hailer[4]	**4.5**	**9.9**
08-31027-A	**08-31027-00-CI**	Weather radar HONEYWELL RDR 2000 with VRU, displayed on ND	**10.6**	**23.4**
08-35006-A	**08-35006-02-CI**	TAS Ryan 9900 BX (on 3" display and KMD 850 - not included)	**10.2**	**22.5**
08-35017-A	**08-35017-02-CI**	EGPWS Honeywell MK XXII (displayed on KMD850 - not included) [4]	**3.6**	**7.9**
08-43024-A	**08-43024-00-CI**	GPS [5] Freeflight TNL 2101 I/O Approach + linked with AFCS and ND	**3.1**	**6.8**
08-46012-A	**08-46012-00-CI**	Jeppesen map Honeywell KMD 850, linked to GPS [4-6]	**3.0**	**6.6**

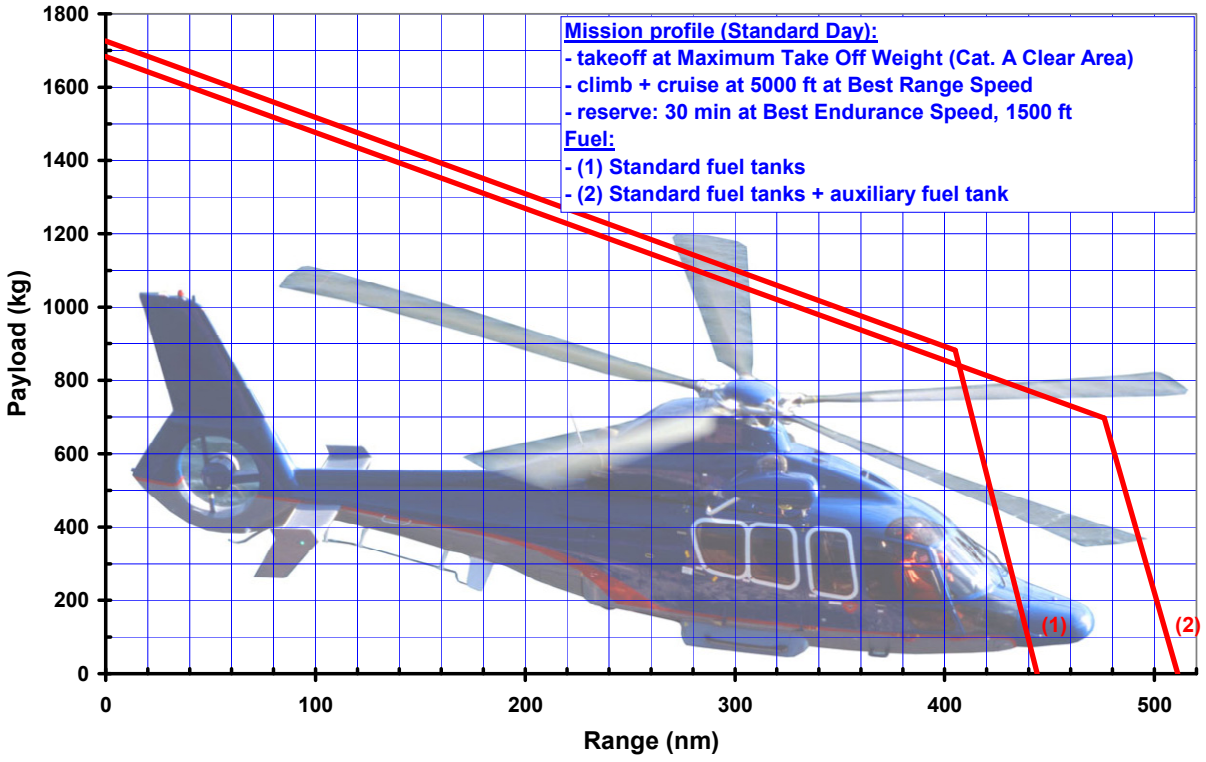
1 Requires optionnal installation "Passenger address NAT AA21-400 with 6 loudspeakers for external hailer"
2 The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter delivery.
3 The mode S identification must be communicated by the Customer two months at the latest before the delivery.
4 This installation could be selected, in case of external and internal loudspeakers are requested; used with the optional installation "Electrical hailer with siren for Passenger address system".
5 The Customer must take out a subscription to the data base in order to use these optionals after having taken delivery of the helicopter.
6 No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.

The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

Weights

	kg	lb
■ **Empty weight, Basic Public Services *Configuration*** **(including engine oil, unusable fuel and 2% margin)**	2,875	6,338
■ **Pilots (2 x 85 kg, JAR OPS 3)**	170	375
■ **Maximum all-up weight**	4,920	10,846
■ **Useful load**	1,875	4,134
■ **Fuel tanks capacity**		
● **Standard fuel tanks**	993	2,189
● **Standard fuel tanks + auxiliary fuel tank**	1135	2,502

Payload / Range in Basic Public Services Configuration (ISA)



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5 - Optional Equipment

The following list presents the main optional items of equipment which may be added to customize the recommended configurations or to build specific configurations. For particular applications, specific items of equipment are also available upon request. **Please take note that there may be incompatibilities between optional items of equipment. Any modification and/or complement of the proposed mission configuration must be done with the assistance of an *EUROCOPTER* sales representative.**

Note: value of the weight breakdown is given for information and shall not be considered as contractual

Document reference	**Commercial reference**	Name	**kg**	**lb**
Common Equipment Package [1]				
00-50014-B	**00-50014-01-CI**	*EC155 B1* Standard Lead Time Common Equipment Package	**57.6**	**127.0**
		Including: *VHF-AM Collins VHF-4000 n°1 - (including 8.33 khz channel spacing)* *VHF-AM Collins VHF-4000 n°2 - (including 8.33 khz channel spacing)* *Digital Audio Communication System NAT with 2 control panels* *David Clark H 10-13H headset (Qty 2)* *Mode S Transponder COLLINS TDR 94 D with flight ident function n°1* [2] *DME Collins DME - 4000 (displayed on ND)* *VOR/ILS/MKR - Collins NAV-4500 n°1 (displayed on ND)* *VOR/ILS/MKR/ADF - Collins NAV-4000 n°2 (displayed on ND)* [3] *Solid State Cockpit Voice & Flight Data Recorder HONEYWELL AR COMBI (2 hrs CVR and 10 hrs FDR rec)* *UMS - complement of SSCVFDR (usage functions) - Ground station excluded*		
Minimum Equipment Package [1]				
00-50016-B	**00-50016-01-CI**	*EC155 B1* Minimum Equipment Package	**42.1**	**92.8**
		Including: *VHF-AM Collins VHF-4000 n°1 - (including 8.33 khz channel spacing)* *VHF-AM Collins VHF-4000 n°2 - (including 8.33 khz channel spacing)* *Digital Audio Communication System NAT with 2 control panels* *Mode S Transponder COLLINS TDR 94 D with flight ident function n°1* [2] *DME Collins DME - 4000 (displayed on ND)* *VOR/ILS/MKR - Collins NAV-4500 n°1 (displayed on ND)* *VOR/ILS/MKR/ADF - Collins NAV-4000 n°2 (displayed on ND)* [3]		

1 *In addition to this package:*
- a beacon must be selected in the possible optional equipment (ELT or / and ADELT).
- for transport passenger mission, a passenger address must be selected.

2 *The mode S identification must be communicated by the Customer two months at the latest before the delivery.*

3 *NAV 4000 combines ADF and VOR/ILS/MKR receivers in a single package*

Document reference	Commercial reference	Name	kg	lb
General Equipment				
05-02023-A	**05-02023-00-CI**	Customized external paint – Level 1	**2.5**	**5.5**
05-02036-A	**05-02036-00-CI**	Customized external paint – Level 2	**5.0**	**11.0**
05-03012-A	**05-03012-00-CI**	First aid kit – JAR OPS 3 compatible	**5.0**	**11.0**
05-12005-A	**05-12005-00-CI**	Engine deck access handles	**1.0**	**2.2**
05-21010-A	**05-21010-00-CI**	Wire strike protection system (upper cutter)	**6.0**	**13.2**
05-24014-A	**05-24014-00-CI**	High visibility markings of the main rotor blades	**0.7**	**1.5**
05-24015-A	**05-24015-00-CI**	High visibility markings of the main rotor blades tip cap	**0.1**	**0.2**
05-24016-A	**05-24016-00-CI**	Coning stops	**5.9**	**13.0**
05-25019-A	**05-25019-00-FP**	Sand prevention filters, dynamic type - Fixed Parts [1]	**4.3**	**9.5**
	05-25019-00-RP	Sand prevention filters, dynamic type - Removable Parts [1]	**11.0**	**24.3**
05-25021-A	**05-25021-00-CI**	Re-inforced sand erosion protection strip on main rotor blades	**0.6**	**1.3**
05-26013-A	**05-26013-00-CI**	Enhanced anti-corrosion protection	**3.5**	**7.7**
05-26018-A	**05-26018-00-CI**	Dynol protection	**2.5**	**5.5**
05-27002-A	**05-27002-00-CI**	2nd fire extinguisher	**2.4**	**5.3**
05-31044-A	**05-31044-01-CI**	Limousine panes in the cabin (for hinged cabin door configuration)	**0**	**0**
05-31096-A	**05-31096-00-CI**	Limousine panes in the cabin (for sliding cabin door configuration)	**0**	**0**
05-32005-A	**05-32005-00-CI**	Windshield washer	**2.6**	**5.7**
05-36016-A	**05-36016-00-CI**	Fixed Corporate passenger footsteps instead of standard equipment (left and right side)	**8.6**	**19.0**
05-38008-A	**05-38008-00-CI**	Single Pilot IFR kit	**1.8**	**4.0**
05-41007-A	**05-41007-00-CI**	Triple injection heating system	**3.9**	**8.6**
05-42027-A	**05-42027-00-CI**	Air conditioning system (mechanically driven)	**30.5**	**67.2**
05-51006-A	**05-51006-00-CI**	Heated windshield	**1.5**	**3.3**
05-52010-A	**05-52010-00-CI**	Icing detector (Rosemount)	**0.9**	**2.0**
05-62022-A	**05-62022-00-CI**	10-kVA A.C. alternator	**24.0**	**52.9**
05-81019-A	**05-81019-00-FP**	Auxiliary fuel tank in the hold (180 litres - 47 US gal.) - Fixed Parts	**17.2**	**37.9**
	05-81019-00-RP	Auxiliary fuel tank in the hold (180 litres - 47 US gal.) - Removable Parts	**25.1**	**55.3**
05-81035-A	**05-81035-00-CI**	Reinforced skin fuel tanks	**18.8**	**41.4**

1 Includes the supply of the standard cowlings.

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Document reference	Commercial reference	Name	kg	lb
Specific Mission Equipment				
06-21009-A	**06-21009-00-FP**	Goodrich Class 2 electrical hoist (272 kg - 90 m) - Fixed Parts	**4.4**	**9.7**
	06-21009-00-RP	Goodrich Class 2 electrical hoist (272 kg - 90 m) - Removable Parts	**63.2**	**139.3**
06-24013-A	**06-24013-00-FP**	Rappelling (ropes excluded) - Fixed Parts	**3.0**	**6.6**
	06-24013-00-RP	Rappelling (ropes excluded) - Removable Parts	**2.2**	**4.9**
06-27021-A	**06-27021-00-FP**	Cargo sling with dynamometer and electrical mirror (1,600 kg - 3,527 lb) - Fixed parts	**6.9**	**15.2**
	06-27021-00-RP	Cargo sling with dynamometer and electrical mirror (1,600 kg - 3,527 lb) - Removable Parts	**24.3**	**53.6**
06-27024-A	**06-27024-00-FP**	Cargo sling with dynamometer and electrical mirror (1,600 kg - 3,527 lb), life rafts installation compatible - Fixed Parts	**2.2**	**4.9**
	06-27024-00-RP	Cargo sling with dynamometer and electrical mirror (1,600 kg - 3,527 lb), life rafts installation compatible - Removable Parts	**24.3**	**53.6**
06-31015-A	**06-31015-00-RP**	Electrical hailer with siren system - Fixed Parts	**6.9**	**15.2**
	06-31015-00-RP	Electrical hailer with siren system - Removable Parts	**7.4**	**16.3**
06-31020-A	**06-31020-00-FP**	Electrical hailer with siren for Passenger Address system - Fixed Parts [1]	**6.2**	**13.7**
	06-31020-00-RP	Electrical hailer with siren for Passenger Address system - Removable Parts [1]	**7.4**	**16.3**
06-41011-A	**06-41011-00-CI**	Under fuselage anti-collision strobe light	**1.0**	**2.2**
06-41012-A	**06-41012-00-CI**	Double red and white anti-collision light	**0.2**	**0.4**
06-45008-A	**06-45008-00-FP**	Spectrolab SX-16 searchlight - Fixed Parts	**4.8**	**10.6**
	06-45008-00-RP	Spectrolab SX-16 searchlight - Removable Parts	**33.4**	**73.6**
06-45035-A	**06-45035-00-FP**	Spectrolab SX-5 searchlight - Fixed Parts	**4.8**	**10.6**
	06-45035-00-RP	Spectrolab SX-5 searchlight - Removable Parts	**25.0**	**55.1**
06-61009-A	**06-61009-00-FP**	Emergency floatation gear with automatic percussion - Fixed Parts	**9.8**	**21.6**
	06-61009-00-RP	Emergency floatation gear with automatic percussion - Removable Parts	**55.7**	**122.7**
06-62025-A	**06-62025-00-CI**	External Aerazur life rafts inst. (2 x 10 pax) with ELT compart (ELT not included) [2]	**93.2**	**205.5**
06-66005-A	**06-66005-00-CI**	Helicopter Emergency Egress Lighting (HEEL)	**4.0**	**8.8**
06-67032-A	**06-67032-00-CI**	Emergency Locator Transmitter Kannad 406-AP [3]	**2.4**	**5.3**
	06-67032-02-CI	Emergency Locator Transmitter Kannad 406-AP with GPS connection [2] - [4]	**3.1**	**6.8**
06-67040-A	**06-67040-00-CI**	Automatic Deployable Emergency Locator Transmitter (ADELT) HRSmith series 503 [2]	**7.1**	**15.7**
	06-67040-02-CI	Automatic Deployable Emergency Locator Transmitter (ADELT) HRSmith series 503 with GPS connection [2] - [4]	**8.1**	**17.9**
06-67052-A	**06-67052-00-CI**	Personal Locator Beacon HR Smith PLB 500-12 YF	**0.6**	**1.3**
06-68010-A	**06-68010-00-CI**	Under Water Acoustic Beacon Dukane DK 120	**0.4**	**0.9**
06-69008-A	**06-69008-00-CI**	Automatic Voice Alarm Device (AVAD) Thales Avionics V694 (3 messages)	**2.3**	**5.1**
06-69010-A	**06-69010-00-CI**	Automatic Voice Alarm Device (AVAD)	**2.3**	**5.1**

1 Requires optionnal installation "Passenger address NAT AA21-400 with 6 loudspeakers for external hailer"
2 ELT to be ordered separately (could be PLB 500-12 YF)
3 The Programming Data Sheet must be filled and communicated by the Customer two months at the latest before the helicopter delivery.
4 Requires GPS installation

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Interior Layout

Document reference	Commercial reference	Name	kg	lb
07-25030-A	**07-25030-00-CI**	9-seat cabin layout with 4 points harnesses and headrests	**131.9**	**290.8**
07-25041-A	**07-25041-00-CI**	12-seat cabin layout with 3 points harnesses	**84.7**	**186.7**
07-25066-A	**07-25066-00-CI**	12-seat cabin lay out with 4 points harnesses	**88.3**	**194.7**
07-25043-A	**07-25043-00-CI**	Headrests, magazine holders & lifevest stowages for 12-seat layout	**6.4**	**14.1**
07-30016-A	**07-30016-00-CI**	Additional upholstery	**16.3**	**35.9**
07-50041-A	**07-50041-00-CI**	2 hinged cabin doors & 2 rear extensions (instead of the std sliding doors), 2 electrical footsteps	**43.5**	**95.9**
07-50048-A	**07-50048-00-CI**	LH sliding door opening extension (on ground)	**1.7**	**3.7**
07-50057-A	**07-50057-00-CI**	2 hinged cabin doors & 2 rear extensions (instead of the std sliding doors), dual fixed passenger footsteps	**43.5**	**95.9**
07-60010-A	**07-60010-00-CI**	Cargo hold protection for easy loading	**6.6**	**14.6**

• *Optional installation VIP configuration* [1]

07-81004-A	**07-81004-00-CI**	8-seat VIP installation (4+4)	**343.3**	**757.1**
07-81023-A	**07-81023-00-CI**	6-seat VIP installation with galley (4 + 2)	**339.4**	**748.2**
07-81024-A	**07-81024-00-CI**	6-seat VIP installation (4 + 2)	**324.1**	**714.5**
07-81025-A	**07-81025-00-CI**	6-seat Corporate installation (2 + 4)	**188.6**	**415.8**
07-81040-A	**07-81040-00-CI**	6-seat VIP installation with galley (2 + 4)	**301.9**	**665.3**

• *Optional installation for VIP configuration* [1]

07-25059-A	**07-25059-00-CI**	Harmonized cabin seat belts	**0.0**	**0.0**
07-40020-A	**07-40020-00-CI**	Additional hand tufted carpet for VIP cabin (with cockpit partition configuration)	**9.5**	**21.0**
	07-40020-01-CI	Additional hand tufted carpet for VIP cabin (with open cabin configuration)	**21.5**	**47.4**
07-81044-A	**07-81044-00-CI**	Cabin VVIP upgrade (with cockpit partition configuration)	**42.5**	**93.7**
	07-81044-01-CI	Cabin VVIP upgrade (with open cabin configuration)	**52**	**114.6**
07-83009-A	**07-83009-00-CI**	Blanking curtain for VIP partition (cockpit side)	**3.2**	**7.1**
07-90004-A	**07-90004-00-CI**	VIP treatment of the cockpit	**53.0**	**116.8**
07-90024-A	**07-90024-00-CI**	Audio player for VIP installation	**3.1**	**6.8**
07-91004-A	**07-91004-00-CI**	Gold plated finishing of the visible cabin metallized parts	**0.0**	**0.0**

• *Optional installation CORPORATE configuration* [1]

07-81027-A	**07-81027-00-CI**	9-seat Corporate installation (3 x 3)	**219.3**	**483.5**
07-81028-A	**07-81028-00-CI**	7-seat VIP installation (3 + 4)	**299.9**	**661.2**

• *Optional installation for CORPORATE configuration* [1]

07-25053-A	**07-25053-00-CI**	12 leather seat Corporate cabin layout	**105.3**	**232.1**
07-25059-A	**07-25059-00-CI**	Harmonized cabin seat belts	**0.0**	**0.0**
07-81045-A	**07-81045-00-CI**	Cabin executive upgrade	**35**	**77.2**

• *Optional installation for VIP & CORPORATE configuration* [1]

07-25058-A	**07-25058-00-CI**	Harmonized crew seats belts	**0.0**	**0.0**

1 Refer to the specific VIP & CORPORATE Technical Data for the dedicated options

Document reference	Commercial reference	Name	kg	lb
Avionics				
08-10012-A	**08-10012-00-CI**	HF/SSB Collins - HF 9000	**24.5**	**54.0**
08-12013-A	**08-12013-00-CI**	VHF/FM Maritime NAT NPX 138 n°1	**4.0**	**8.8**
08-14031-A	**08-14031-00-CI**	V/UHF FM Chelton-Wülfsberg RT 5000	**12.8**	**28.2**
08-15518-A	**08-15518-00-CI**	IRIDIUM satellite phone Aerodata (voice only)	**2.5**	**5.5**
08-16072-A	**08-16072-00-CI**	Third control panel for NAT Digital Audio Communication System NAT	**2.3**	**5.1**
08-16073-A	**08-16073-00-CI**	Fourth control panel for NAT Digital Audio Communication System NAT	**2.3**	**5.1**
08-17027-A	**08-17027-00-CI**	Passengers address NAT AA 20-431 with 6 loudspeakers	**4.5**	**9.9**
	08-17027-01-CI	Passengers address NAT AA 20-431 with 4 loudspeakers	**3.5**	**7.7**
08-17046-A	**08-17046-00-CI**	Passengers address NAT AA 21-400 with 6 loudspeakers for external hailer [1]	**4.5**	**9.9**
08-17060-A	**08-17060-00-CI**	Passenger interphone linked to DACS for 9 passengers	**1.0**	**2.2**
	08-17060-01-CI	Passenger interphone linked to DACS for 12 passengers	**1.4**	**3.1**
	08-17060-02-CI	Passenger interphone linked to DACS for VIP handset	**1.0**	**2.2**
08-17061-A	**08-17061-00-CI**	Passenger interphone linked to DACS for active noise cancelling headsets 2 x NAT AA-82	**1.6**	**3.5**
08-18022-A	**08-18022-00-CI**	Elno FPH 600 helmet (Qty 1) [2]	**1.1**	**2.4**
08-18029-A	**08-18029-00-CI**	Active noise canceling headsets Bose X (qty 1) [2]	**0.6**	**1.3**
08-18040-A	**08-18040-00-CI**	David Clark H 10-13 H headset (Qty 1) [2]	**0.5**	**1.1**
08-18042-A	**08-18042-00-CI**	Two additional ICS jacks in cockpit for Bose Aviation X headsets (headsets excluded)	**0.1**	**0.2**
08-22023-A	**08-22023-01-CI**	Transponder Collins TDR 94 D with flight ident function n°2 [3]	**5.5**	**12.1**
08-27032-A	**08-27032-00-CI**	SAR Homer Chelton SYSTEM 7 (with stand alone indicator)	**4.0**	**8.8**
08-27033-A	**08-27033-00-CI**	Direction Finder CHELTON DF 931	**9.0**	**19.8**
08-31025-A	**08-31025-00-CI**	Weather radar Telephonics RDR 1400 C with VRU, displayed on ND	**26.0**	**57.3**
08-31027-A	**08-31027-00-CI**	Weather radar Honeywell RDR 2000 with VRU, displayed on ND	**10.6**	**23.4**
08-35006-A	**08-35006-00-CI**	TAS Ryan 9900 BX (3" display)	**10.2**	**22.5**
	08-35006-02-CI	TAS RYAN 9900 BX (on 3" display and KMD850 - not included)	**10.2**	**22.5**
08-35017-A	**08-35017-00-CI**	EGPWS Honeywell MK XXII with dedicated TRA 45A indicator [4]	**9.0**	**19.8**
	08-35017-02-CI	EGPWS Honeywell MK XXII (displayed on KMD850 - not included) [4]	**3.6**	**7.9**
08-43024-A	**08-43024-00-CI**	GPS FREEFLIGHT TNL 2101 I/O APPROACH + linked with AFCS and ND [4]	**3.1**	**6.8**
08-46012-A	**08-46012-00-CI**	Jeppesen map HONEYWELL KMD 850, linked to GPS [4-5]	**3.0**	**6.6**
08-44053-A	**08-44053-00-CI**	Flight Management System Universal UNS 1	**9.2**	**20.3**
08-81024-A	**08-81024-00-CI**	Solid State Cockpit Voice & Flight Data Recorder HONEYWELL AR COMBI (2 hrs CVR and 10 hrs FDR rec) [6]	**14.0**	**30.8**
08-83001-A	**08-83001-00-CI**	UMS (complement of SSCVFDR) (Usage functions) - Ground station excluded [6]	**1.5**	**3.3**
08-83002-A	**08-83002-00-CI**	HUMS - complement of UMS (health functions)	**8.3**	**18.3**
08-83019-A	**08-83019-00-CI**	QAR (Quick Access Recorder) for Flight Data Monitoring	**1.0**	**2.2**

• *Optional installation for VIP configuration* [7]

08-15526-A	**08-15526-00-CI**	IRRIDIUM satellite phone Aerodata for VIP cabin (voice only)	**3.1**	**6.8**
08-17048-A	**08-17048-00-CI**	Flight information display	**0.6**	**1.3**
08-17050-A	**08-17050-00-CI**	In-Flight Entertainment System (one display in divan backrest)	**5.4**	**11.9**
08-17051-A	**08-17051-00-CI**	Second display for IFE system	**5.4**	**11.9**

1 This installation could be selected, in case of external and internal loudspeakers are requested; used with the optional installation "Electrical hailer with siren for Passenger address system".
2 Quantity to be defined.
3 The mode S identification must be communicated by the Customer two months at the latest before the delivery.
4 The Customer must take out a subscription to the data base in order to use these optionals after having taken delivery of the helicopter.
5 No radar connection. The operational geographic zone of the helicopter must be communicated by the customer two months at the latest before the delivery.
6 SSCVFRD and UMS installation are included in the "Common Equipment Package" 00-50014-00-CI ".
7 Refer to the specific VIP Technical Data for the dedicated options

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6 - Main performance

The following performance values and figures refer to an *EC155 B1*, equipped with new engines. Unless otherwise specified, the values and figures refer to a aerodynamically clean helicopter at Sea Level (SL), in International Standard Atmosphere (ISA) and zero wind condition.

Performance on 2 engines

Gross Weight	kg lb	4,000 8,818	4,400 9,700	4,850 10,692	4,920 10,846
■ Max. speed, VNE	km/hr kts	324 175	324 175	324 175	324 175
■ Fast cruise speed (0 ft)	km/hr kts	280 151	274 148	267 144	265 143
■ Fast cruise speed (6000 ft)	km/hr kts	296 160	288 156	279 151	278 150
■ Recommended cruise speed (0 ft)	km/hr kts	261 141	270 146	267 144	265 143
■ Recommended cruise speed (6000ft)	km/hr kts	270 145	268 145	270 146	270 146
■ Fuel consumption at recommended cruise speed	kg/hr lb/hr	317 700	339 747	345 761	345 761
■ Rate-of-climb	m/sec. ft/min.	8.9 1,766	7.5 1,478	6.0 1,195	5.8 1,154
■ Hover ceiling I.G.E. at Take-Off Power (6 ft)					
● ISA	m ft	4,145 13,600	3,230 10,600	2,285 7,500	2,145 7,050
● ISA + 20°C	m ft	3,245 10,650	2,345 7,700	1,370 4,500	1,230 4,050
■ Hover ceiling O.G.E. at Take-Off Power					
● ISA	m ft	3,320 10,900	2,435 8,000	- -	- -
● ISA + 20°C	m ft	2,375 7,800	1,430 4,700	- -	- -
■ Service ceiling (Vz = 0,5 m / sec. – 100 ft/min.)					
● ISA	m ft	>4,572 >15,000	>4,572 >15,000	>4,572 >15,000	>4,572 >15,000
● ISA + 20 °C	m ft	>4,572 >15,000	>4,572 >15,000	4,126 13,537	3,990 13,093

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Operating limitations

The aircraft is cleared to operate within the following altitude and temperature limitations (refer to the Flight Manual for complementary information):

■ Maximum pressure altitude in flight	15,000 ft – 4,572 m (Standard Atmosphere conditions)
■ Take-off and landing	13,000 ft – 3,962 m (density altitude) or 15,000 ft – 4,572 m (pressure altitude)
■ Maximum temperature	ISA + 35 °C limited at + 50°C
■ Minimum temperature	- 40°C for weight ≤ 4,850 kg - 30 °C for weight > 4,850 kg

Abbreviations

IGE:	In Ground Effect
ISA:	International Standard Atmosphere
OEI:	One Engine Inoperative
OGE:	Out of Ground Effect
SL:	Sea Level
Vy	Optimum Climbing Speed

Units

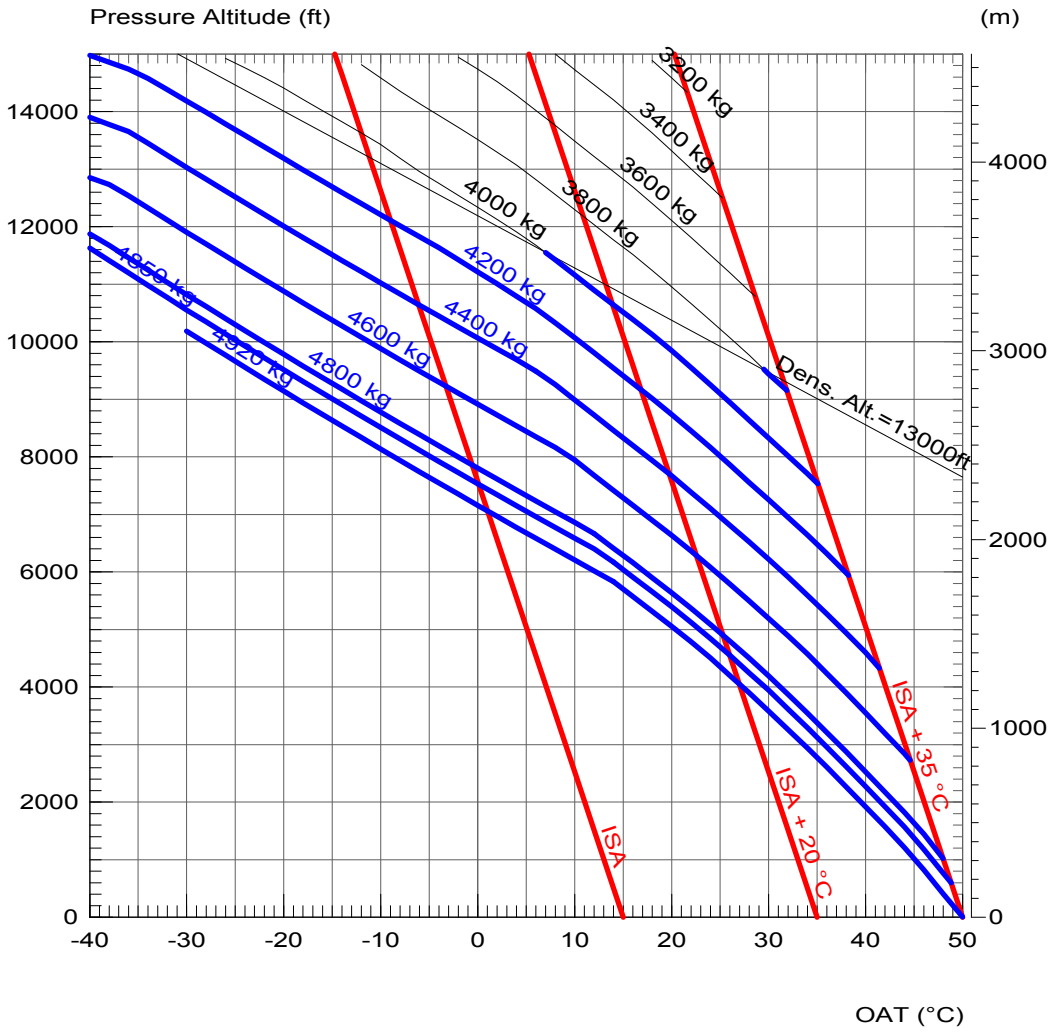
nm:	nautical miles	hr:min:	hours:minutes
kts:	knots	kg:	kilograms
ft/min:	feet/minute	lb:	pounds
m/sec:	meters per seconds	km:	kilometers
° C:	degrees Celsius		

Performance charts

The performance charts presented hereafter apply to an aircraft as per the standard definition.

TWIN-ENGINE HOVER IGE MAXIMUM WEIGHTS (6 ft)

both engines at takeoff rating
(without wind or with +/- 60° headwind)



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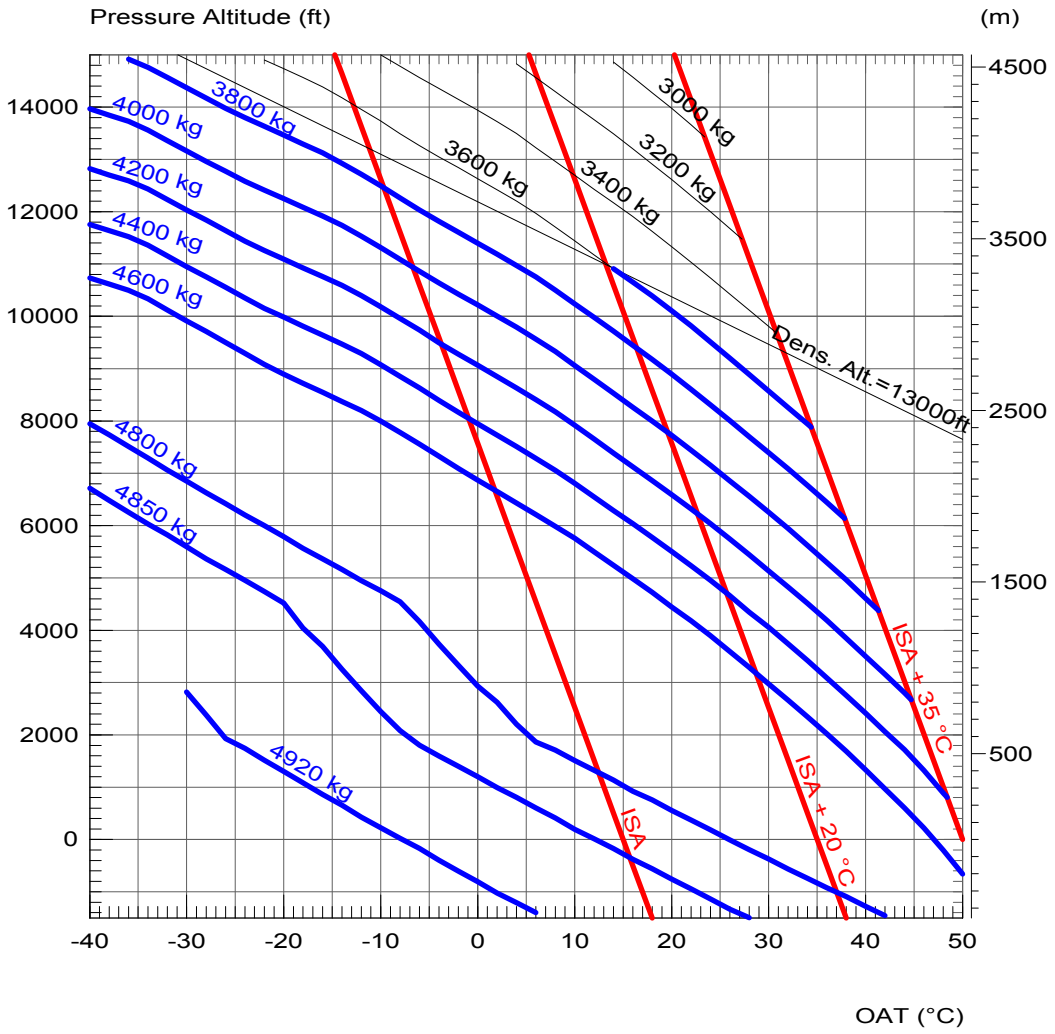
TWIN-ENGINE HOVER OGE MAXIMUM WEIGHTS

both engines at takeoff rating



The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

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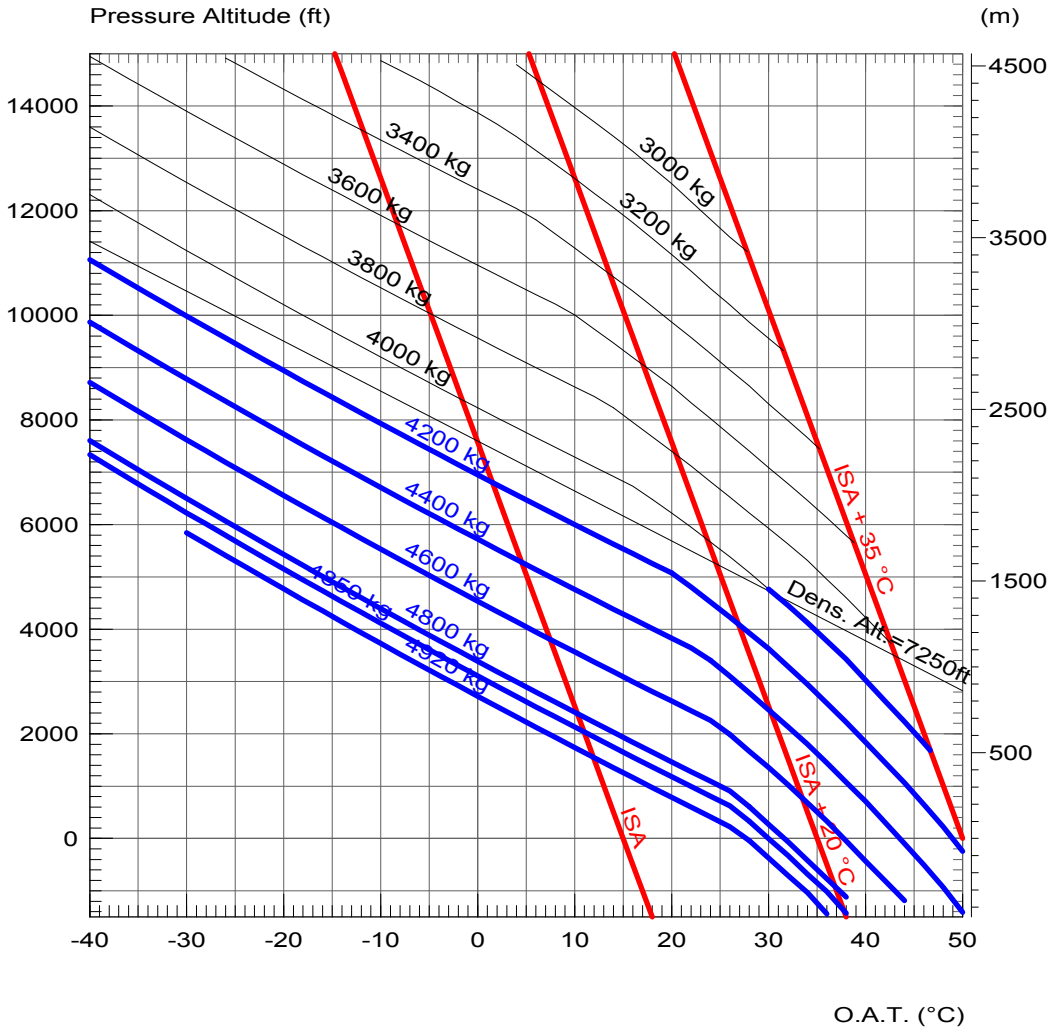
CATEGORY A
MAXIMUM TAKEOFF WEIGHT ON CLEAR AREA

VTOSS ≥ 60 kts



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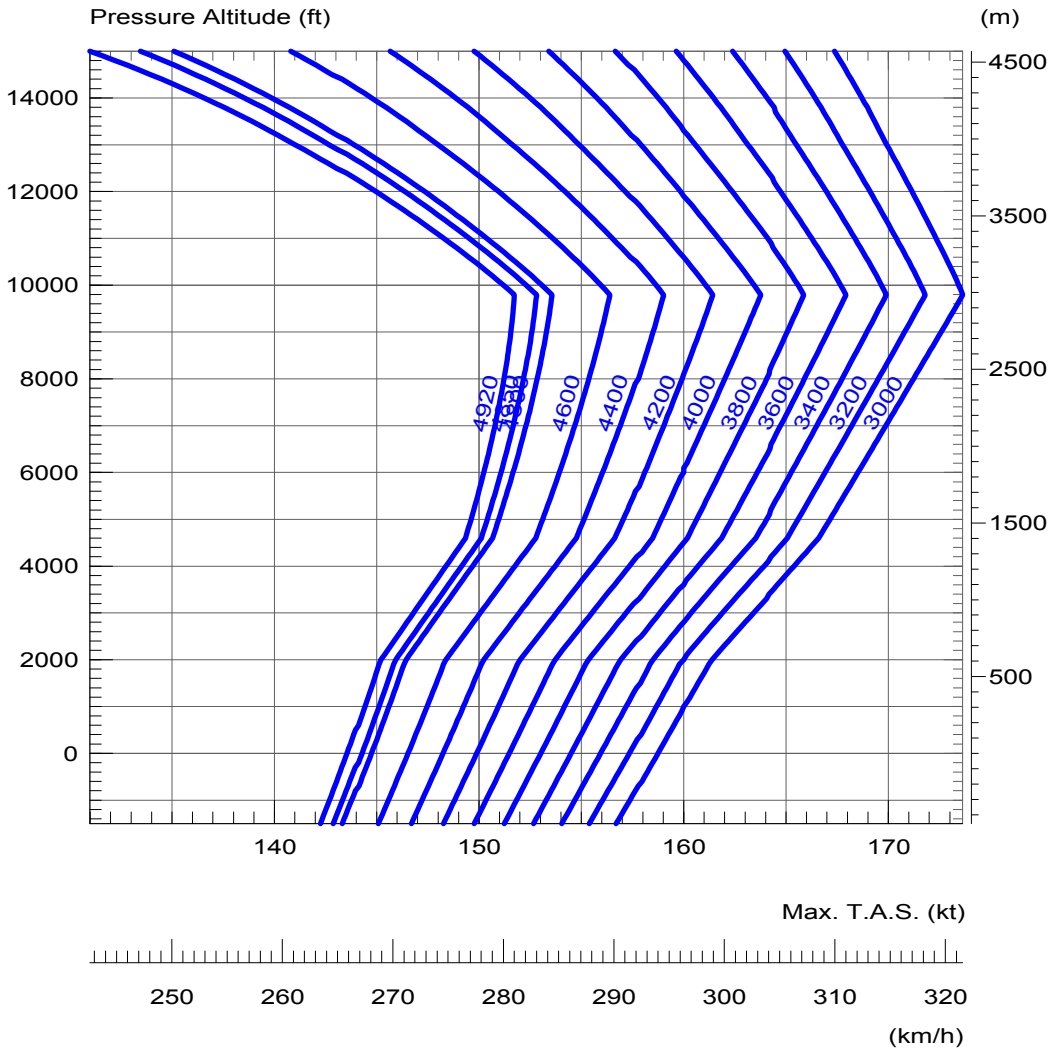
FAST CRUISE SPEED

Twin-engine at Maximum Continuous Rating
(ISA)



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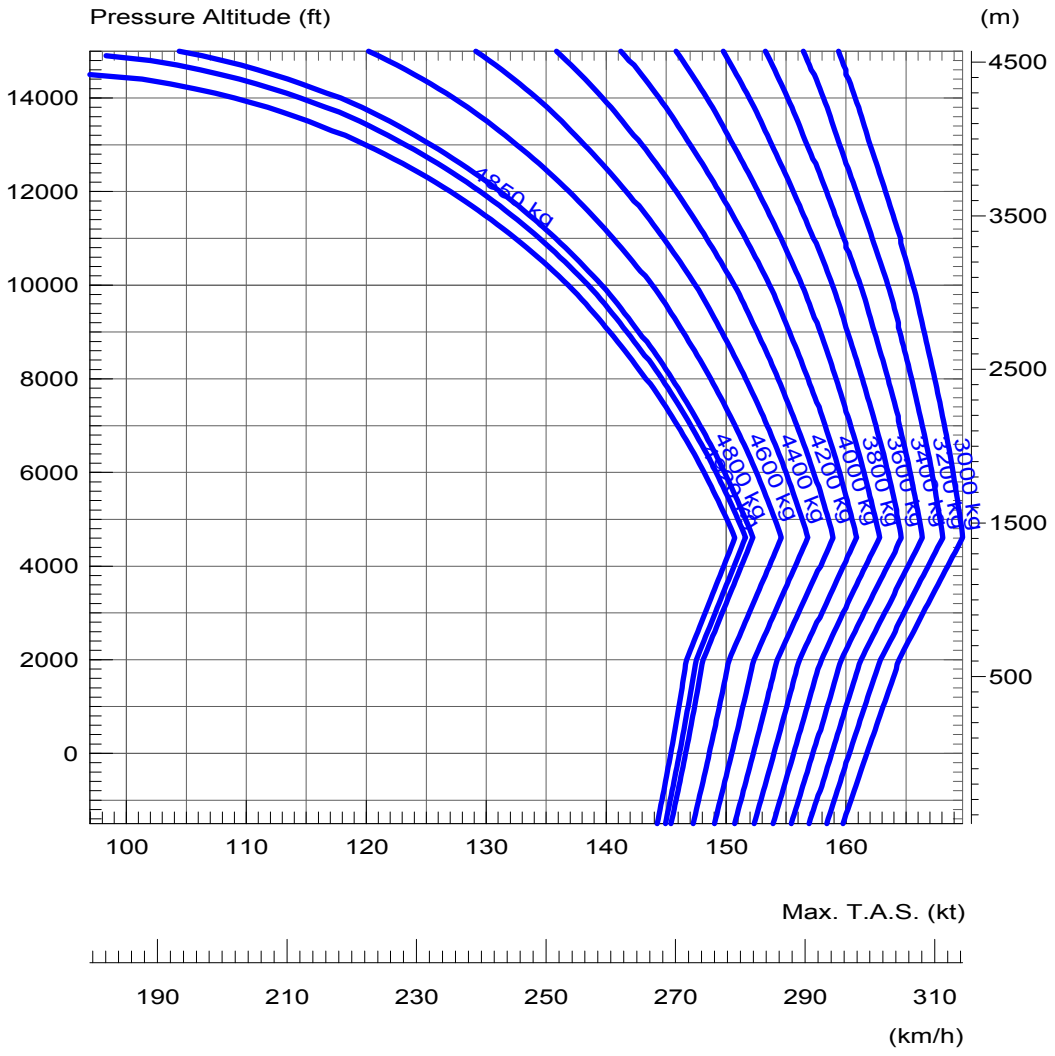
FAST CRUISE SPEED

Twin-engine at Maximum Continuous Rating
(ISA + 20 °C)



The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
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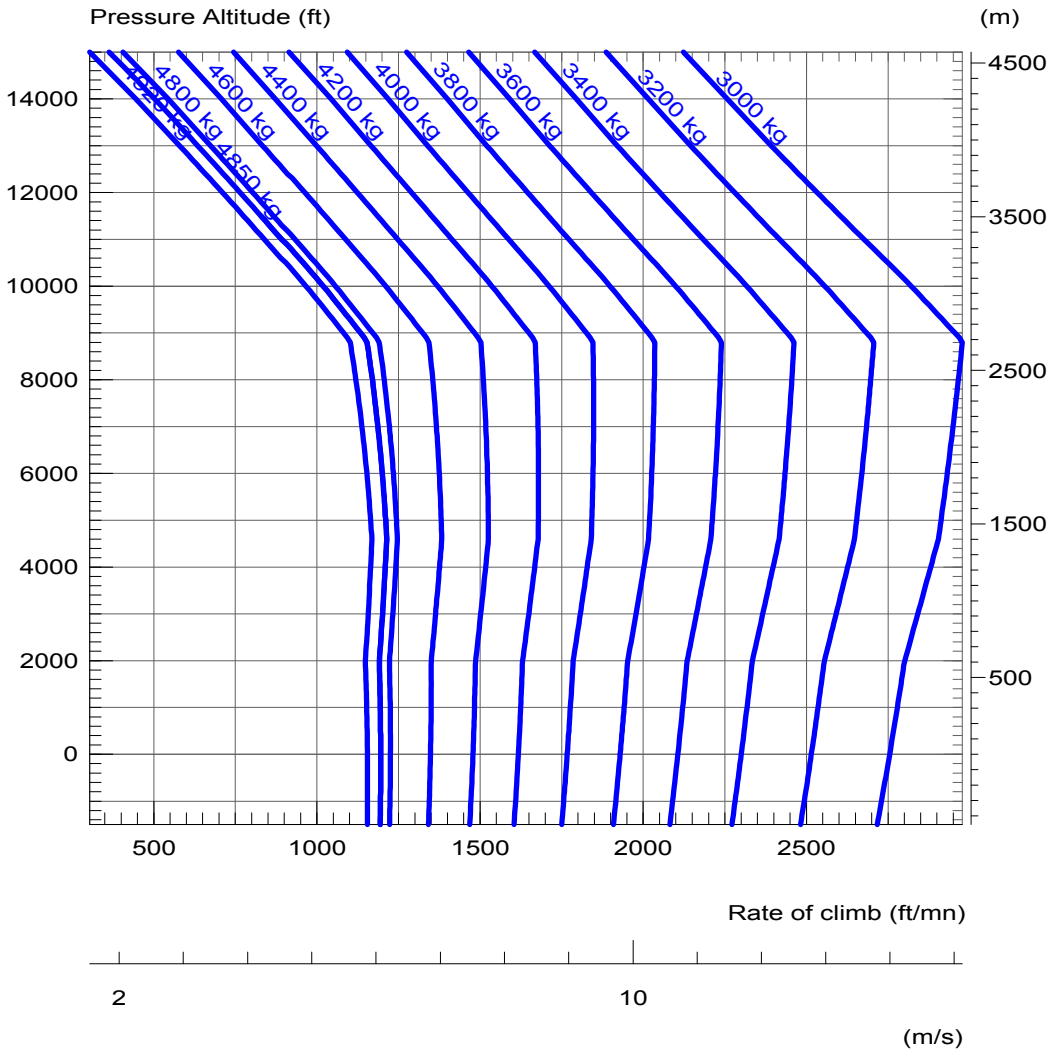
RATE OF CLIMB

Twin-engine at Maximum Continuous Rating
ISA - T.A.S. = 80 kts



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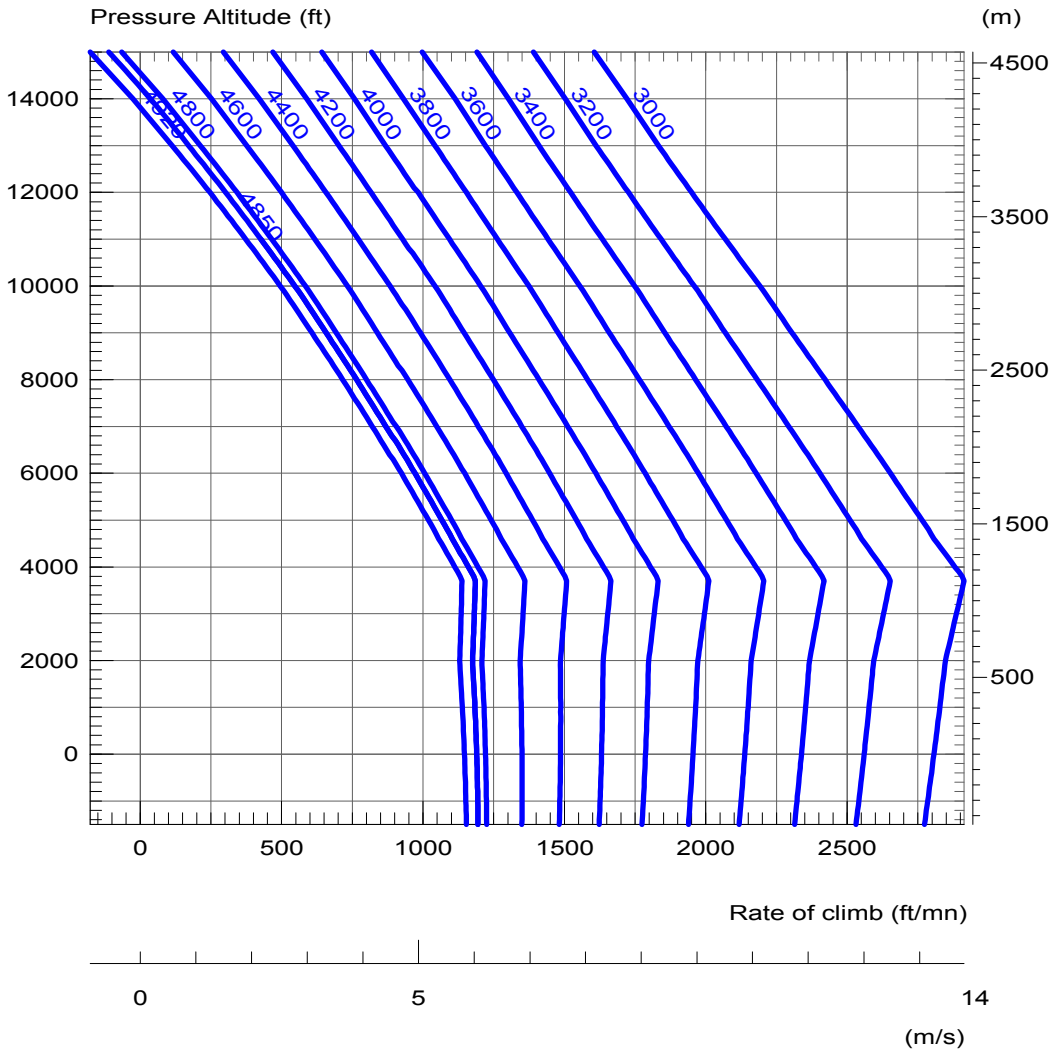
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

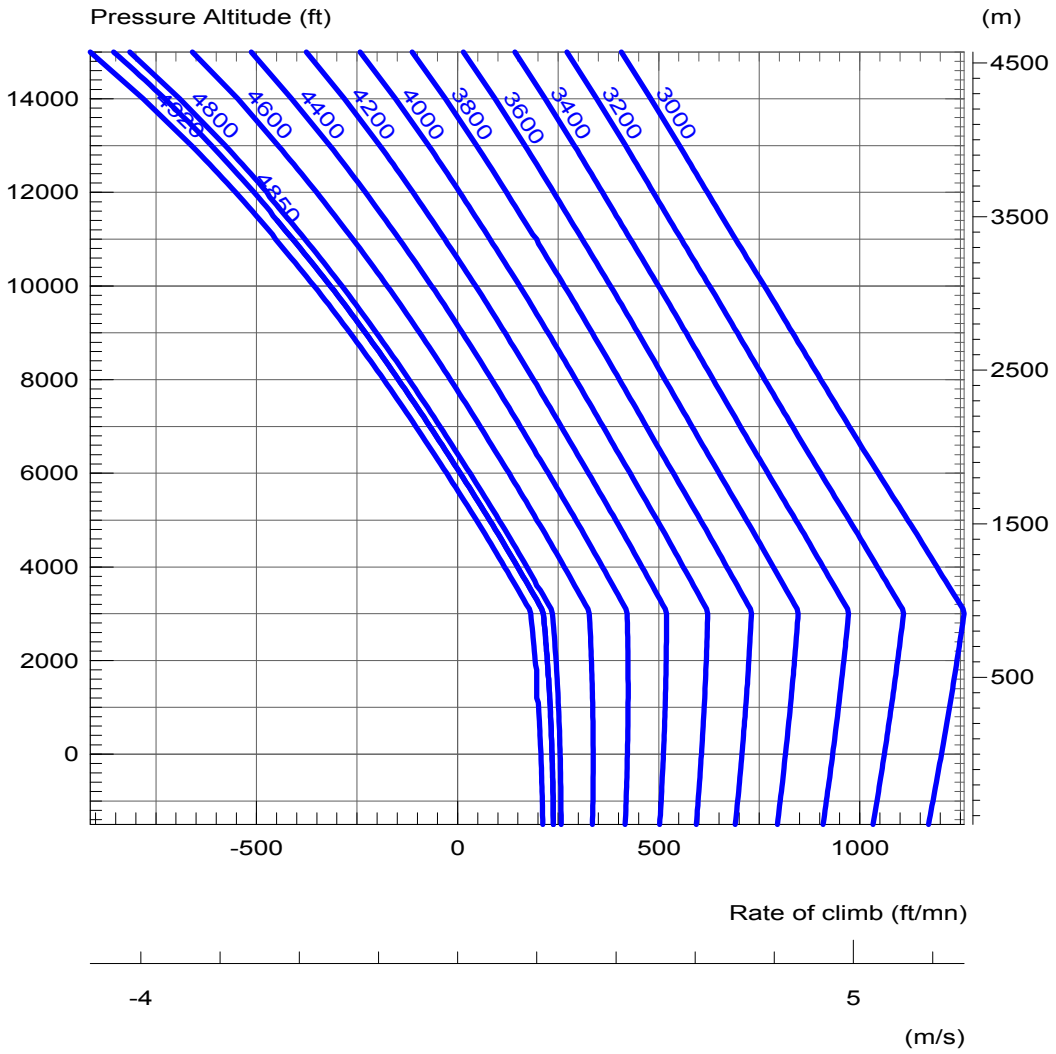
RATE OF CLIMB

Twin-engine at Maximum Continuous Rating
ISA + 20 °C - T.A.S. = 80 kts



RATE OF CLIMB

One engine inoperative – Continuous Power Rating
ISA - T.A.S. = 80 kts



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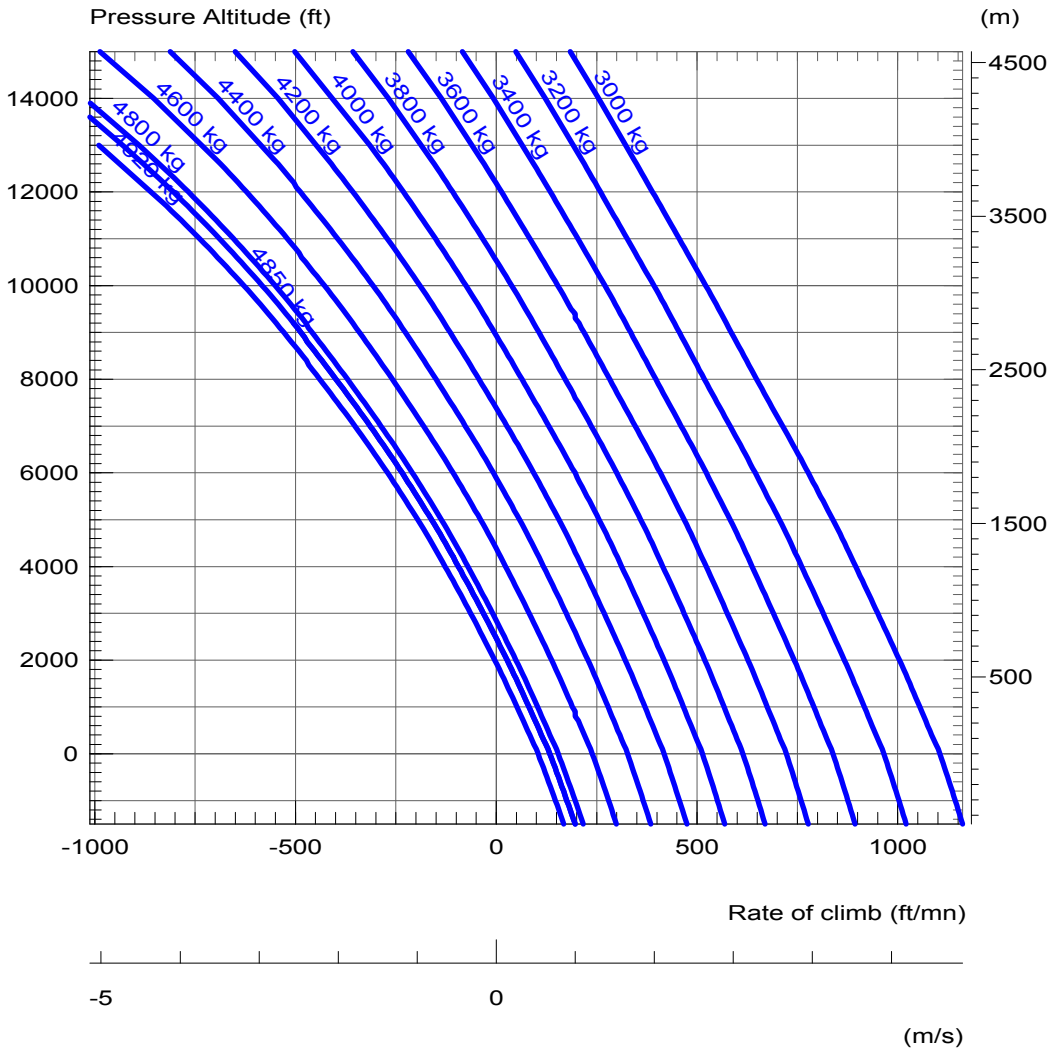
RATE OF CLIMB

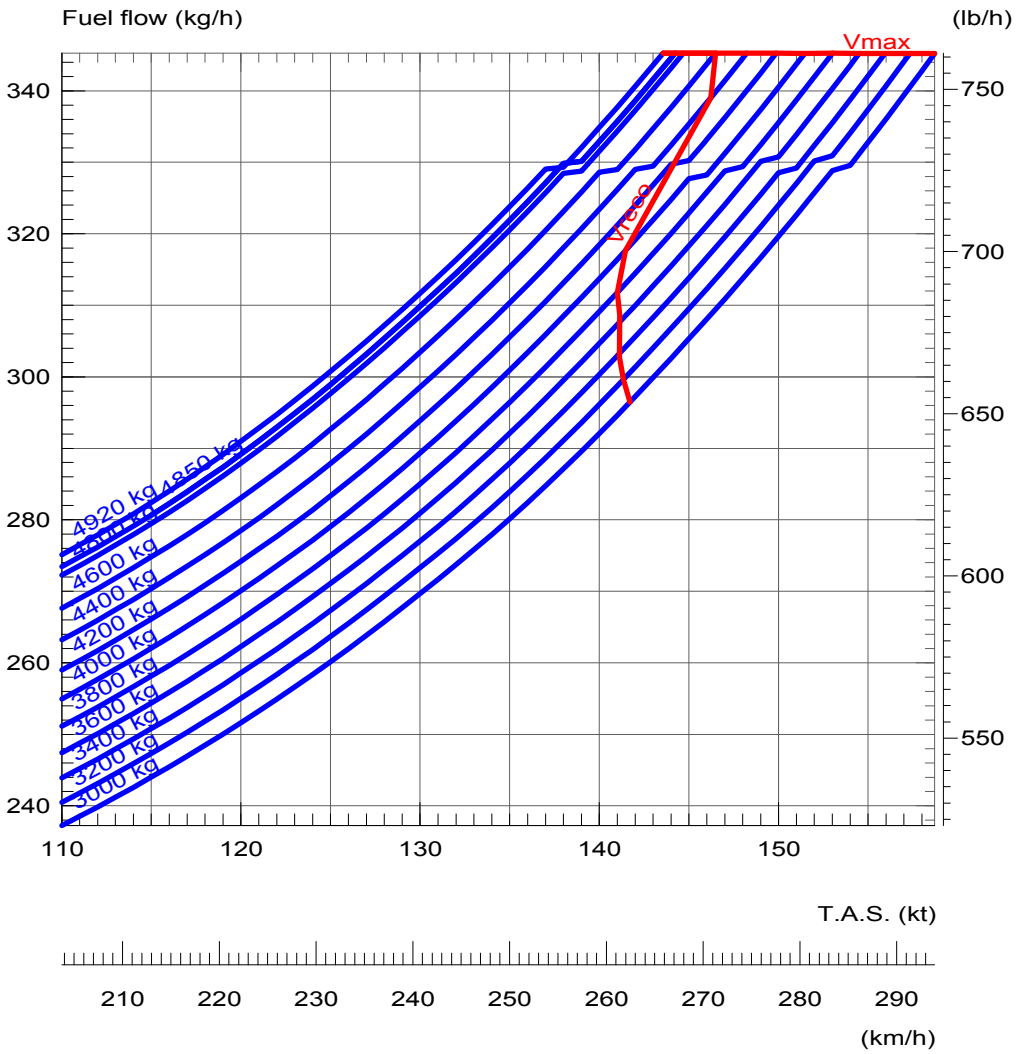
One engine inoperative – Continuous Power Rating
ISA + 20 °C - T.A.S. = 80 kts



The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

HOURLY FUEL CONSUMPTION IN LEVEL FLIGHT

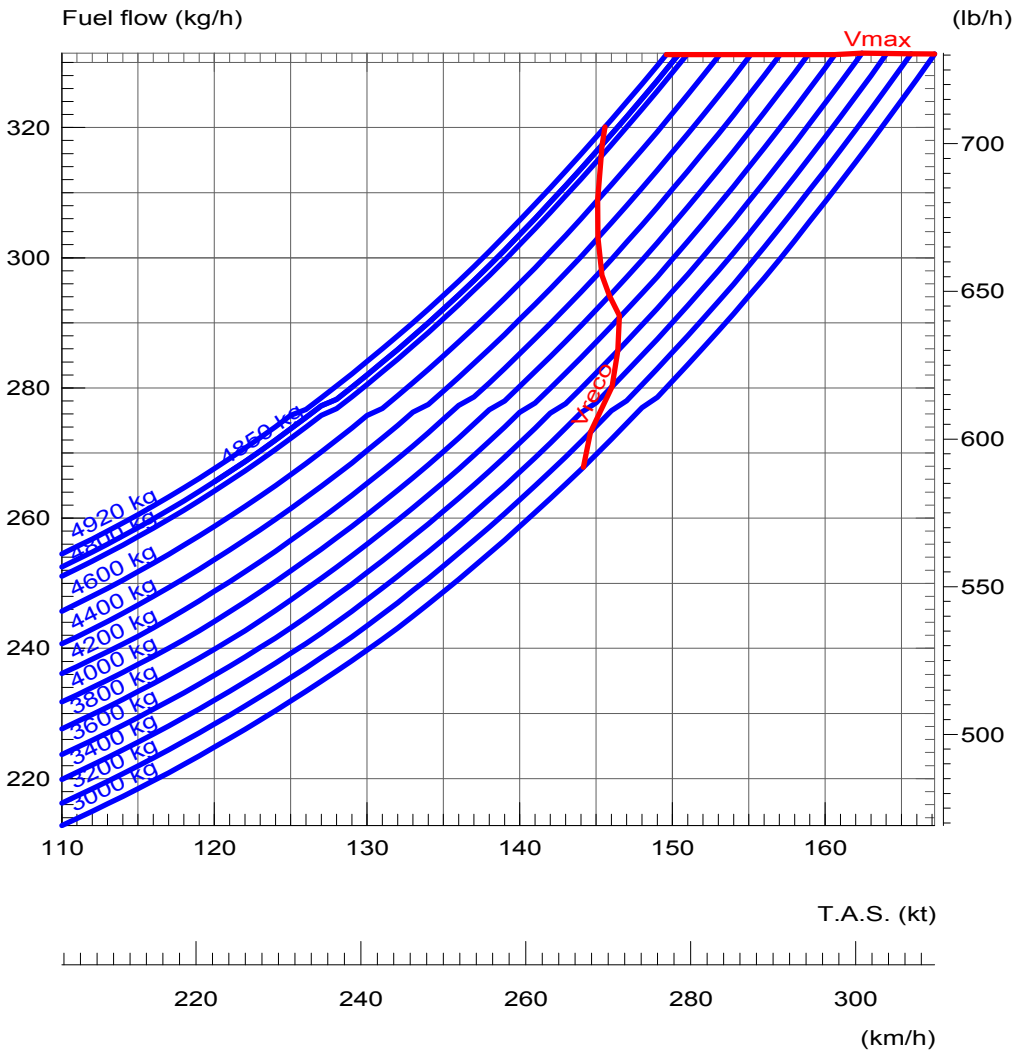
Pressure-altitude = 0 ft - ISA (Temperature = 15 °C)



The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

HOURLY FUEL CONSUMPTION IN LEVEL FLIGHT

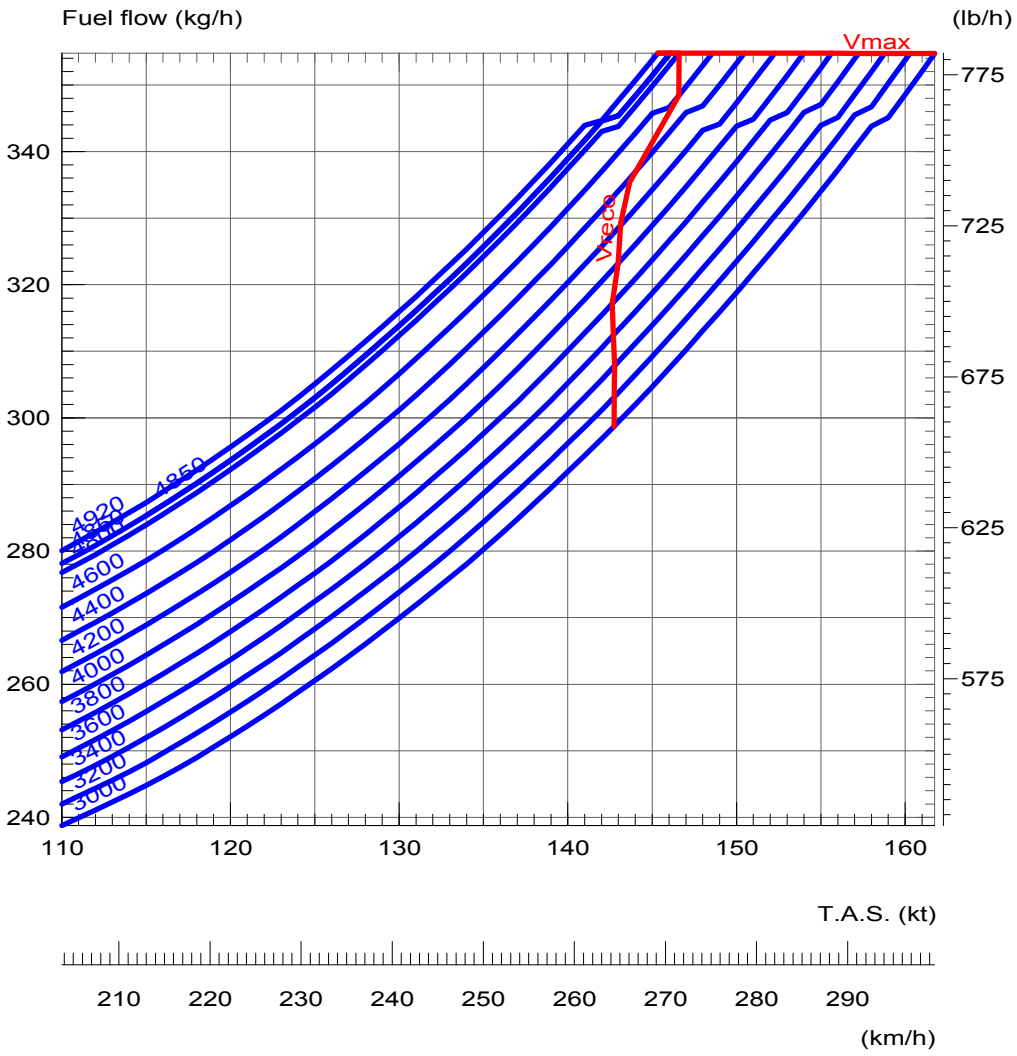
Pressure-altitude = 5000 ft - ISA (Temperature = 5 °C)



The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

HOURLY FUEL CONSUMPTION IN LEVEL FLIGHT

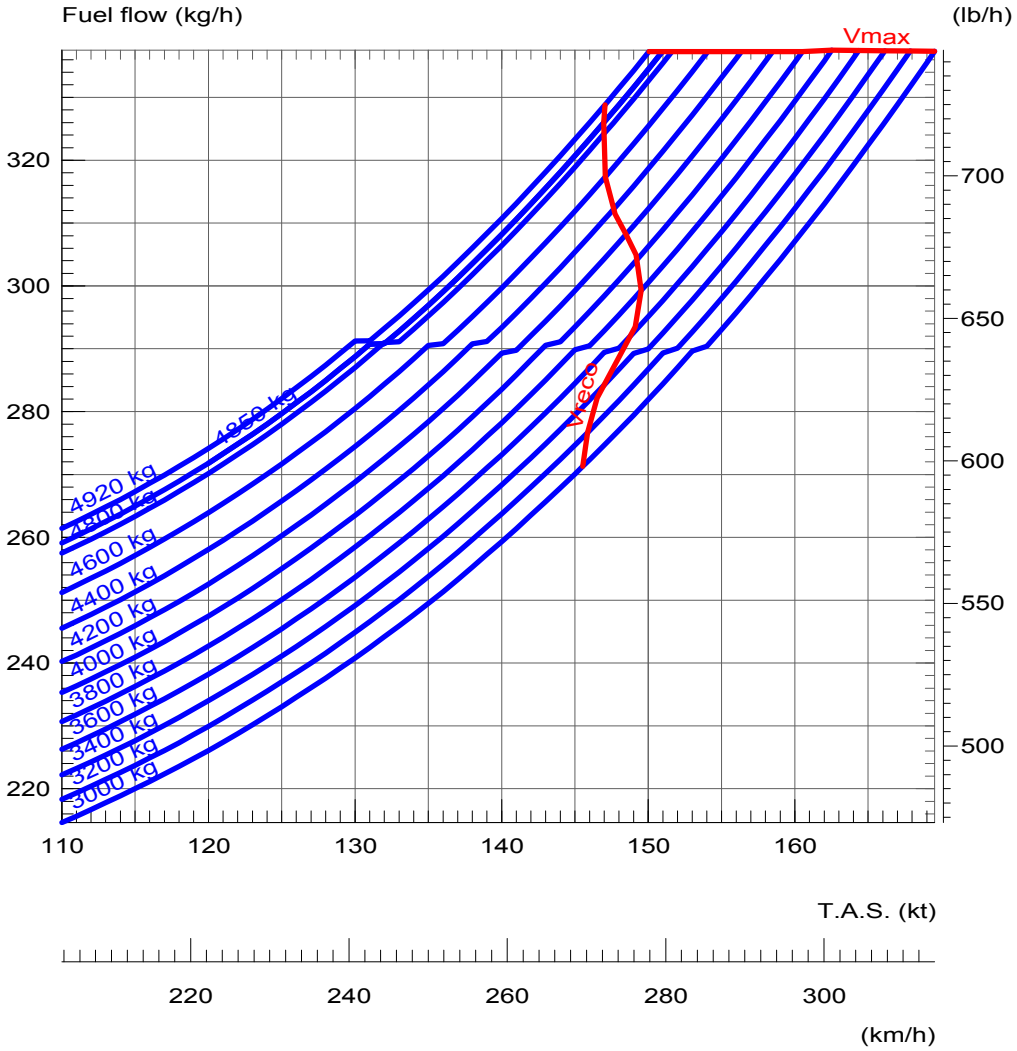
Pressure-altitude = 0 ft - ISA + 20 °C (Temperature = 35 °C)



The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
For performance data and operating limitations, reference must be made to the approved flight manual and all appropriate documents.

HOURLY FUEL CONSUMPTION IN LEVEL FLIGHT

Pressure-altitude = 5000 ft - ISA + 20 °C (Temperature = 25 °C)



The data set forth in this document are general in nature and for information purposes only. They may vary with conditions.
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7 - Customer Service Overview

Assets

Proven reliability and availability based on experience

EUROCOPTER's helicopter production programs have developed a strong reputation world-wide for being fully committed to providing customers with operational, capable aircraft that achieve high availability combined with cost-effective support systems. To achieve this record of performance, *EUROCOPTER* stressed the importance of working together with its customers to ensure constant feedback on their demonstrated in-service Reliability, Availability and Maintainability/Testability (RAM) data. The main objective is to reach the most optimized operational cost ensuring the highest flight safety.

EUROCOPTER has built and delivered *DAUPHIN* and *PANTHER* variants for more than twenty years. The combined population of the *DAUPHIN* & *PANTHER* family is 795 helicopters in service world-wide. The total flight hours accumulated at the end of 2008 are about 4,610,000 hours. The "lead the fleet" aircraft has accumulated more than 25,000 flight hours.

Inspection Program

The Maintenance Program specifies the intervals between maintenance operations that are recommended by *EUROCOPTER*, irrespective of whether they are mandatory or not.

The program can:

- either be used as is,
- or be adapted by each operator to suit his own specific organization, provided he complies with the maximum intervals.

The following table provides an overview of all inspections. Scheduled inspections with shorter time intervals have to be added to those with longer time intervals.

Scheduled Airframe Inspection	**Estimated Man Hour**
Daily checks:	Pilot's task
100 Flight hrs or 12 months periodicity tasks	15,20 MMH
600 Flight hrs or 24 months periodicity tasks	136,30 MMH
Airframe Major Inspection	**Estimated Man Hour**
6000 Flight hrs or 12 years periodicity tasks	230 MMH

Scheduled Engine Inspection **ARRIEL 2C2**	**Estimated Man Hour**
30 flight hrs periodicity tasks	0,070 MMH per FH
300 flight hrs periodicity tasks	
600 flight hrs periodicity tasks	

MMH: Mean Man Hour

FH: Flight Hour

Note : All the "hands-on" aircraft values mentioned here above are given on the basis of a 20 000 flight hours life cycle. They refer only to the scheduled inspections for the standard helicopter without optional equipment in accordance with the Maintenance Program (PRE).

The announced Man Hours are without incoming flight, work preparation, reworking, servicing, Service Bulletin implementation and unscheduled maintenance.

Main components
Time Between Overhauls (TBO) / Service Life Limit (SLL) [1]

Main Components	TBO (hr) as per MSM rev R012	TBO (hr) Target Value *	SLL (hr) as per MSM rev R012
MAIN ROTOR BLADES			20000
MAIN ROTOR EQUIPPED MAST	On Condition		
MAIN GEAR BOX	1800	under investigation	
TAIL ROTOR BLADES			5000
TAIL GEAR BOX	2400	under investigation	
MAIN SERVO UNIT	3000		8000
TAIL SERVO UNIT	3000		9000
ARRIEL 2C2	3000	3500	

"*": Target value within the Maturity Plan under progress.

Time Between Overhauls (TBO):
The component in question must be removed at each interval that corresponds to the value indicated, in order to undergo the operations in a specialized workshop that will enable it to be put back into service for the next interval.

Service Life Limited (SLL):
The service life limit is an airworthiness limit. The component in question must be removed from service when it reaches the limit indicated.

1 *Main component values are given for information purposes only. The reference document is the aircraft Maintenance Program Manual.*

EUROCOPTER Maintenance Support Programs

EUROCOPTER offers its clients a comprehensive array of repair and overhaul services to ensure availability and costs control. This array of services ranges from basic OEM repair and overhaul services up to comprehensive Parts By the Hour (PBH) maintenance programs.

The different services are each tailored for various user profiles, such as customers:

- with a high number of flight hours,
- with a low number of flight hours,
- looking for immediate component availability,
- wishing budget control.

To respond to the different customers' demands *EUROCOPTER* offers the following flexible and modular services:

- **Classic Support.**
- **Maintenance, Repair and Overhaul.**
- **Standard exchange.**
- **Guaranteed Direct Maintenance Costs (DMC).**
- **Unscheduled Maintenance Insurance Plan.**
- **Parts By the Hour service.**

In addition *EUROCOPTER* proposes a specific maintenance support program called **Oil & Gas Availability Program (OGAP)** to better stick to Oil & Gas Operators needs and constraints.

On request, *EUROCOPTER* is able to propose extensive services adapted to specific mission and customer expectations, as stock and maintenance management.

Classic Support

The classic support consists of a comprehensive Initial Provisioning package to sustain aircraft operation. This package includes Spare Parts, Tools, Test Equipment, etc...

The required level of operational availability determines the quantity and therefore the investment required. With this support package the Customer bears the responsibility to monitor their repair; manage obsolescence and to procure the right mix and quantity of components and spare parts.

Maintenance, Repair and Overhaul

EUROCOPTER offers a complete range of industry-leading inspection, repair and overhaul capabilities for the full range of *EUROCOPTER* helicopters, with guaranteed turn-around times and cost-efficiency.
Approved by the most stringent airworthiness authorities in the world, our industrial facilities ensure the highest quality for the maintenance, repair and upgrading works. *EUROCOPTER* Maintenance Repair and Overhaul covers the four major following areas:

- Blades.
- Equipment.
- Dynamic component.
- Maintenance & upgrades.

Standard Exchange

The Standard Exchange consists in replacing a defective part with a serviceable and interchangeable part within 48 hours subject to availability. This service is available for equipment, blades and dynamic components.

Guaranteed DMC (Repair By the Hour)

The Guaranteed DMC services offers guaranteed repair and overhaul Turn Around Times as well as guaranteed prices. This addition to the classic repair and overhaul enables the customer to best size its inventory. Price for this service is calculated per flight hour, thus enabling the customer to spread and predict both his scheduled as unscheduled maintenance expenses. The guaranteed DMC service is available for dynamic components, blades and basic equipment.

Unscheduled Maintenance Insurance Plan (UMIP)

With the UMIP, *EUROCOPTER* gives the customer the option to secure unscheduled maintenance costs while remaining responsible for the scheduled events (overhaul, life limited part replacement). Price for this service is calculated per flight hour.

The UMIP service includes component unscheduled repairs and guaranteed parts replacement within 24H through Standard Exchange based on a dedicated inventory. This service is available for dynamic components, blades and basic equipment.

Parts By the Hour (PBH)

The Parts by the Hour (PBH) service is a comprehensive program that offers and balances at the same time guaranteed maintenance costs, reduced inventory and minimized helicopter downtime. This service is intended for Customers looking for total cost control and high level of aircraft readiness. Price for this service is calculated per flight hour.

The PBH service includes component unscheduled repairs component overhauls as well as Life Limited part replacement. Parts replacement is guaranteed within 24H through Standard Exchange based on a dedicated inventory. This service is available for dynamic components, blades and equipment.

Oil & Gas Availability Program (OGAP)

One of the strong points of this offer is undoubtedly the Availability Program. This comprehensive program is based on a genuine partnership between the Operator and *EUROCOPTER*.

To best adapt to your specific needs, we size dedicated inventories at your premises or locally, and set up dedicated logistic means.

In order to allow you to optimise your fleet management we are committed to operational part availability. To better stick to your expectations and operationnal context, *EUROCOPTER* is involved to customize OGAP package.

Engine Maintenance program

Always looking to maximize your efficiency and reduce your costs, Turbomeca, the engine manufacturer has developed an improved service offering.

Whatever the mission, wherever it may be, for business or pleasure, Turbomeca offers a range of services tailored to various needs.

Turbomeca has 32 Repair Centers across the globe, supplemented by several new factory-authorized service facilities strategically located near to you.

Turbomeca range of services covers:

- Classic Repair and Overh.
- AOG services.
- Support By the Hour (SBH) services.

Within the Support By the Hour® coverage Turbomeca developed specific maintenance packages, as described hereafter.

Standard Coverage: “Classic” SBH®

The “classic” Support by the Hour (SBH®) is a global support service offered to operators to enable them to maintain the best availability of their engines fleet through a contract arrangement paid by running hours.
The Support by the Hour (SBH®) is operated mainly through Standard Exchange supported by Turbomeca dedicated Corporate Pool.

Customized Coverage: SBH® “ Mission”

The new service, Support By the Hour® Mission, offers a modular series of comprehensive service and engine management packages whereby Turbomeca undertakes to guarantee its operator's engine availability and care.

From basic engine support requirement to fully comprehensive range of additional services, three different types of packages are offered to operators: Pro, Prime and Privilege.

Turbomeca Internet Web Site - TOOLS

Turbomeca Operator On-Line Support (TOOLS site) is entirely dedicated to helping customers. With 24/7 availability, operators can access important information when they want to from where they want to, winning precious time and staying head. TOOLS at www.turbomeca-support.com

Training

With more than 50 years of experience, the *EUROCOPTER* training centers provide the most comprehensive, coherent and highest standard helicopter training in the world for pilots and technicians, whether civilian or military.

Qualification training, allowing operators to comply with regulatory requirements, and services training, more mission oriented and tailored to the customers' operational needs, are addressed.

All training courses are established according to the relevant civil aviation authorities' requirements. The centers are approved by the relevant airworthiness authorities (EASA, FAA, DGAC, LBA, CAA…). We are certified ISO 9001: V2000 and regularly audited by independent organisms such as Véritas, AFAQ…

EUROCOPTER training centers provide a wide range of courses and services, from basic training up to preparation for the most sophisticated civil and military missions.
As part of the full range of services on offer, *EUROCOPTER* also plays an active role in helicopter pilot development through its Ab Initio programs.

Centers are equipped with multimedia classrooms. This includes computers overhead projectors and state-of-the-art means such as Computer Aided Instruction (CAI), Computer Based Training (CBT). Some centers also have self-learning laboratories.

EUROCOPTER has set up a network of 14 training centers. For detailed information refer to *EUROCOPTER* specific publication.

EC155 B1 - Example of basic training course

COURSE TYPE	COURSE REFERENCE	THEORETICAL INSTRUCTION	FULL FLIGHT SIMULATOR	FLIGHT INSTRUCTION
Pilots	Type Rating (with simulator)	10 days	10 1/2 hours	2 hours
	Type Rating (with simulator + IFR single pilot)	10 days	13 1/2 hours	2 hours
	Type Rating instructor training (SP/ME) with simulator	35 ½ hours	9 hours	3 hours
	Type Rating instructor extension of privileges with simulator	-	4 ½ hours	1 ½ hours
COURSE TYPE	**COURSE REFERENCE**	**THEORETICAL & PRACTICAL INSTRUCTION**		
Mechanics	Type Rating (Airframe + engine)	5 weeks		
Avionics	Type Rating	4 weeks		
Blades	Maintenance and repair	Up to 2 weeks		

Note: length is given as information and depends on pilot or technician qualification or experience. Complementary courses may be required.

Engine Training Courses

Training courses dedicated to Engine Maintenance is also organized by Turbomeca training schools and approved centers the world over.

Up-to-date course calendars, on-line tests and e-learning modules are also available on the Turbomeca Operator On-Line Support (TOOLS site).

Technical publications

EUROCOPTER provides all the technical publications necessary for safely operating and maintaining its aircraft cost effectively.

EUROCOPTER technical publications are available on an interactive electronic medium as a standard or in hard copies as an option.

The OPEN DVD-ROM includes the Maintenance Program (PRE), the Maintenance Manual (MET), the Wiring Diagram Manual (MCS), the Description and Operation Manual (MDF), the Fault and Isolation Manual (MFI), the Storage and Preservation Manual (MST), the Repair Manual (MRR), the Standard Practices Manual (MTC) and the Illustrated Parts Catalogue (IPC).

The component maintenance manual (CMM) is available on DVD-ROM or hard copy, depending on the Vendor.

Along with the OPEN DVD-ROM, *EUROCOPTER* provides a hard copy of the Airworthiness Technical Publication (Flight Manual, Pilots Check List, Master Servicing Manual…) as well as the Service Bulletin Catalogue.

The DVD ROM is available in English; it includes the latest information and is updated every 6 - 9 months.

T.I.P.I. (Technical Information Publication on Internet)

Description

T.I.P.I. website is entirely dedicated to provide a real-time issuing service for the following publications:

- Emergency Alert Service Bulletin (formerly Télex Alert), Alert Service Bulletin , Safety Information Notice (formerly Télex Information), Service Bulletin, Information Notice (formerly Service Letter,), Technical Information Letter.
- Airworthiness Limitations Section (ALS).
- FLM revisions.
- List of Applicable Publications (LOAP).
- List of Master Minimum Equipment List (MMEL).

Main features

- Each time a publication is issued, the customer is automatically informed by an e-mail.
- The download of the publication in pdf format is possible either directly from the e-mail or after logging on the T.I.P.I. website.
- A keywords search tool is provided (aircraft family, type of publication, date of edition...).
  Address: www.eurocopter.com/services/technical publications/T.I.P.I.
  The publications are available in English, French or German depending on the case.
- A small summary, already included in the e-mail, helps the customer to understand quickly the subject.
- Small icons allow the customer to identify immediately the type of information received.

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